South Dakota State University Bulletin

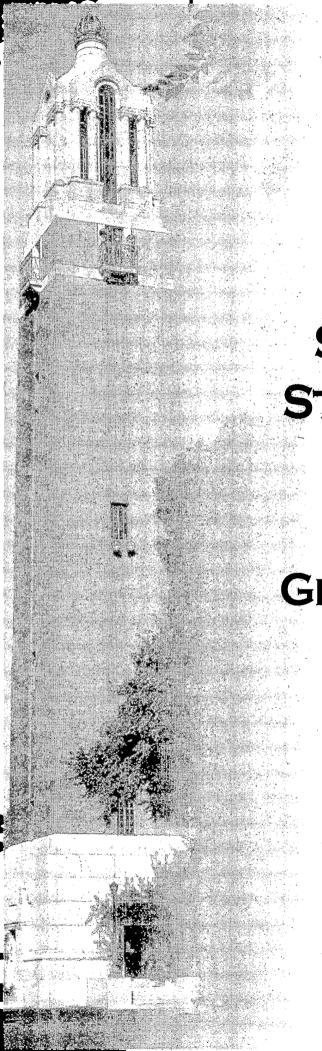
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SOUTH DAKOTA STATE UNIVERSITY

GENERAL CATALOG 2000-2002



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It is the policy of South Dakota State University (SDSU) **not** to discriminate on the basis of race, color, creed, religion, national origin, ancestry, citizenship, age, gender, sexual orientation, disability, or Vietnam Era Veteran status in the offering of all benefits, services, and education and employment opportunities.

Discrimination complaints on the basis of sex, including sexual harassment complaints, should be directed to the Title IX Coordinator: Dr. Marcus Dahn, SDSU Director for Diversity Enhancement, ADM 217, Phone: 605-688-6361.

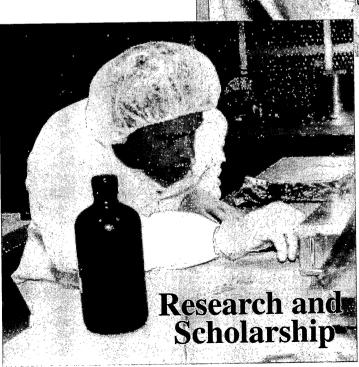
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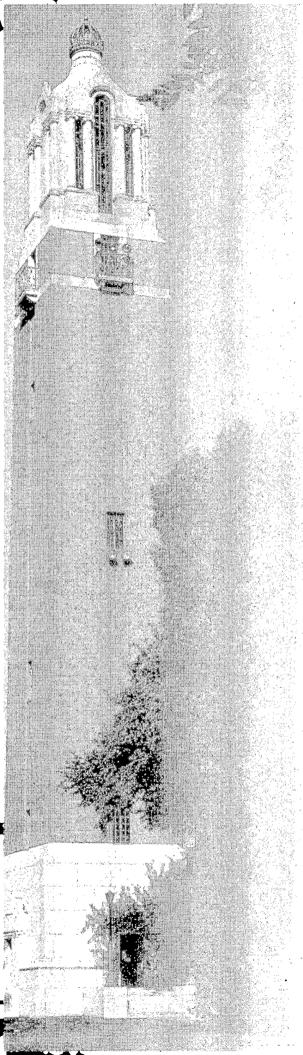
Discrimination complaints based on other protected categories should be directed to Dr. Marcus Dahn, Director for Diversity Enhancement, ADM 217, Phone: 605-688-6361.

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History and Mission: The Land-Grant Heritage

Establishment. An act of the Territorial Legislature, approved February 21, 1881, provided that "an Agriculture College for the Territory of Dakota be established at Brookings." The Legislature of 1883 provided for the first building.

The Enabling Act admitting the State of South Dakota, approved February 22, 1889, provided that 120,000 acres of land be granted for the use and support of the Agricultural College. By the Enabling Act of 1889 congress granted South Dakota 40,000 additional acres for the Agricultural College in lieu of a grant that had been made to new states in 1841.

Developments. In 1923 the institution's instructional program was organized under five divisions: Agriculture, Engineering, General Science, Home Economics, and Pharmacy. In 1956 the sixth undergraduate division, Nursing, was created, and in 1957 all graduate work was organized into a graduate division. The University organization was formally recognized when the Legislature changed the name to South Dakota State University on July 1, 1964. At that time the following colleges were created: Agriculture and Biological Sciences, Arts and Science, Engineering, Home Economics, Nursing, and Pharmacy, as well as the Graduate School.

In 1974 the College of General Registration was established to provide assistance to students who are undecided as to major, are preprofessional, or who want a one or two year general studies program. In 1975 the Division of Education was created to provide greater recognition of the part the University plays in preparation of teachers, counselors, and administrators for primary and secondary school systems and higher education. In 1989 this unit officially became the College of Education and Counseling. On July 1, 1996, the College of Home Economics became the College of Family and Consumer Sciences to align with the national professional organization (AAFCS), and to reflect a newer, more up-dated image.

The Agricultural Experiment Station was organized in 1887 under the Hatch Act of Congress, which provided for establishment of agricultural experiment stations in connection with agricultural colleges. The stations were established to conduct research that concerns the home or agriculture throughout the U.S.

The Cooperative Extension Service was established in 1914 to provide useful, current, research based agricultural, home, family and youth related information to the people of the state. Federal funds are appropriated through the U.S. Department of Agriculture, which cooperates with state colleges of agriculture and counties in conducting planned programs of Extension work.

Mission. The central mission of South Dakota State University is to serve through teaching, research, and extension activities, as the state's land-grant institution. Our first mission, then is undergraduate and graduate education from the freshman to the doctoral level. This priority is achieved through selected high quality academic, professional, extra-curricular and recreational programs. Our second mission is to conduct nationally competitive strategic research, scholarly and creative activities. Our third mission is the transfer of knowledge, especially to the citizens of South Dakota, through the Cooperative Extension Service and other entities.

The University fulfills these missions through the following activities: delivering approved undergraduate programs; delivering approved graduate programs; engaging in scholarship and creative activities in all of its academic disciplines; providing public service through a variety of approved centers and organizational units; providing continuing education by delivering credit and non-credit offerings to locations across state, region, and world; and delivering coordinated outreach programming as a conduit for the University's service mission.

In order to achieve these three primary missions the University also has other secondary missions.

South Dakota State University is responsible for providing a campus environment that helps students develop leadership skills and personal interests essential for fully appreciating life and for contributing to the common good.

The University must collect, preserve, display and make available artistic, artifactual, documentary, and intellectual materials important to understanding our culture.

One mission is to be pluralistic, welcoming men and women of every race, creed, and background. As a university with a global vision, SDSU encourages enrollment diversity and international exchange opportunities.

South Dakota State University must use a variety of resources and revenues effectively and efficiently. The University seeks accountability, assessment, and evaluation as a means to determine priorities and strengthen performance. As part of that accountability it must be a good caretaker of facilities, fixtures, and funds.

Finally, South Dakota State University is a community of students, faculty, staff, alumni, constituencies, volunteers, and friends that provides generous support. South Dakota State University must invite this community to participate in university governance and serve as an advocate for our land-grant mission.

Purposes

In accepting the provisions of the "Morrill Act" of Congress (1862), the state of South Dakota pledged itself to carry out the purposes of the Land-Grant College Act: to endow, support, and maintain one university where a major emphasis is teaching "agricultural and mechanic arts," including "scientific and classical studies," in order to promote a liberal and practical education in the "several pursuits and professions in life."

Within the spirit of the "Morrill Act" and the early legislative acts of South Dakota, the purposes of SDSU are to develop, maintain, and encourage:

- 1. Learning in the fields of agriculture; engineering; consumer and family sciences; liberal arts; pharmacy; nursing; teacher and counselor education; basic physical, biological, and social sciences; humanities and fine arts at both undergraduate and graduate levels.
- Research and scholarship in agriculture; engineering; consumer and family sciences; liberal arts; nursing; pharmacy; teacher and counselor education; basic physical, biological and social sciences; humanities and fine arts at both the undergraduate and graduate levels.

- 3. Extension/outreach programs in agriculture; engineering; consumer and family sciences; liberal arts; nursing; pharmacy; teacher and counselor education; basic physical, biological and social sciences; humanities and fine arts for adults and youth in South Dakota.
- Citizenship training and general learning essential for understanding and appreciating the American way of life and its relationship to the world community.
- Student self-development in leadership, social, intellectual, recreational, interpersonal, ethical and spiritual attributes.
- 6. Student self-development in international and intercultural understanding consistent with the continually increasing cultural, economic and political interdependence of the modern world.
- 7. Vocational learning and training in selected areas.
- 8. Collection, preservation, display and study of artistic, artifactual and documentary materials which are the cultural base for all future programs.
- 9. Service for the welfare of South Dakota, the region and the nation.

Educational Objectives

The broad educational objective of SDSU is primarily to guide each student in attainment of intellectual and professional competence, growth of personal development, cultivation of a sense of social and civic responsibility, and achievement of a satisfactory adjustment in human relationships. Ideally, upon graduation, SDSU students will have attained the abilities to think, read, speak, and write effectively, both within their practiced disciplines and beyond. In confidently shaping the future, as individuals on their jobs and as people collectively charged with the responsibility of nurturing a humane, rational, and free republic, our graduates should demonstrate an abiding belief in the value of learning. They should possess both historic and aesthetic perspectives and act in accordance with high ethical and spiritual codes of behavior, even in the face of adversity. Above all, they should seek to foster understanding and harmony among their fellow citizens of this diverse nation and world.

Intellectual and professional competence is attained when a graduate:

- 1. Has developed knowledge and skills including those of clear oral and written expression and evaluative listening required for beginning competence in a vocation or profession.
- Has acquired those self-reliant character elements that demonstrate a high personal code of ethics and willingness to pursue vocational or professional objectives within a framework of humanitarian and social goals.
- 3. Has developed the ability to think clearly and speculate imaginatively about both immediate and long-range problems.

Adequate personal development has been achieved when a graduate:

1. Attempts to reach sound, objective decisions after considering the values and practical and theoretical issues involved, and after exploring reliable sources of information, and then accepts responsibility for these decisions.

Has begun to evolve a meaningful personal philosophy of life based upon a growing knowledge of self, a perceptive awareness of the world, and a critical appraisal of his/her relationship to this code.

A satisfactory sense of social and civic responsibilities has been acquired when a graduate:

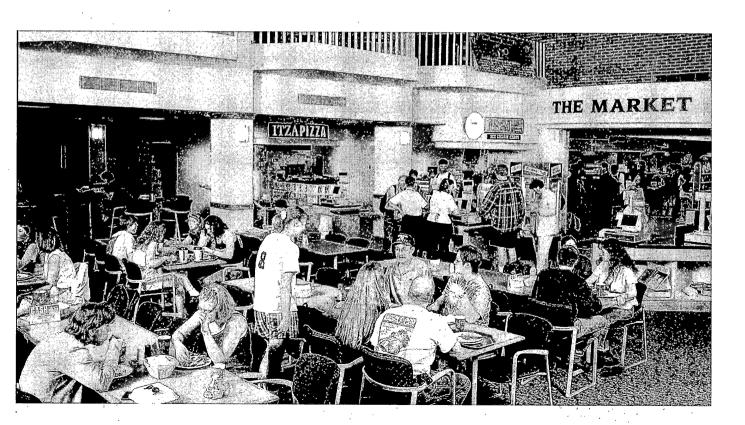
- Has critically examined the ideas of democratic society and their underlying assumptions, which embrace a belief in: the worth of the individual, the preservation of free inquiry, free discussion, equality of opportunity, and respect for law.
- From this examination has applied conclusions to a citizen's role for which he/she keeps informed in attempts to play a constructive role in the dynamics of social change, and the evolving of social and civic values in which he/she believes.

A satisfactory adjustment in human relationships has been achieved when a graduate:

- Respects the fellowship of many by following the principle of doing to others as he/she would have them do to him/her.
- 2. Supports the dignity of fellow human beings in his/her own and other cultures by respecting their social amenities, rights, abilities, and racial, religious and cultural attributes.

As SDSU promotes its concept of "The Lead Forward Land-Grant University," it will emphasize excellence in its graduates through these characteristics:

- 1. Internationally competitive in academic preparation.
- 2. Globally informed and prepared for a diverse world.
- 3. Communication-able in speaking, writing and technology.
- 4. Able to embrace change in positive ways.
- 5. Socially responsible.



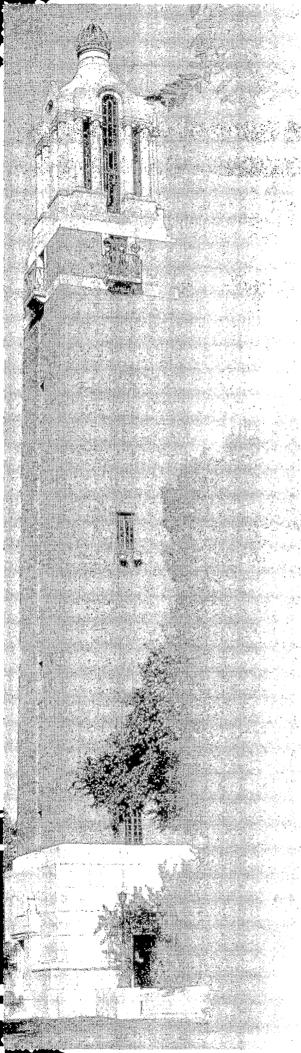
Research Program

The university is committed to excellence in both basic and applied research, as well as other scholarly and creative activities associated with the University's mission. An effort is maintained to discover new ideas, processes, and developments which will expand and strengthen the state's industrial and agricultural economy. Research and scholarly activities are considered to be integral, essential, and traditional parts of university life involving faculty, as well as graduate and undergraduate

students. The research program provides an atmosphere and encouragement for these activities in all segments of the institution. The university seeks and welcomes extramural support for its research

For information, contact the Dean of Research and Sponsored Programs, South Dakota State University, Box 2201, Brookings, South Dakota 57007-1998.





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Application Procedures

The SDSU Admissions Office processes applications on a rolling basis. Students are encouraged to apply well in advance (six to ten months) of the semester they wish to attend in order to arrange housing, apply for financial assistance, and to attend new student orientation/early registration programs.

All applicants must submit the following to be considered for admission:

- · Admission Application
- \$15 Application Fee

If you have previously attended SDSU or another South Dakota public university, you are not required to pay the application fee to SDSU.

- · Official High School Transcript
- · Official Report of ACT

In addition, all transfer applicants must provide:

Official College Transcript(s)

You must request official transcripts from all the schools you previously attended. All transcripts should be sent from the issuing institution directly to the SDSU Admissions Office. If you are currently enrolled at another institution, you may send partial transcripts and be considered for provisional admission until the final transcript arrives.

Upon admission to the University and prior to enrolling for classes, all new applicants are required to provide proof of the Board of Regents required immunizations. This form will be sent to students prior to their enrolling at SDSU.

Applications for admission can be sent to:

South Dakota State University Admissions Office Box 2201 Brookings, SD 57007 (605) 688-4121 1-800-952-3541 (Toll Free) e-mail:sdsu_admissions@sdstate.edu www.sdstate.edu

Undergraduate Admission Requirements

Admission to SDSU is open to all academically qualified students and is granted without regard to age, race, color, religion, sex, handicap, or national origin.

Freshman Admission

To be a candidate for admission to a **baccalaureate degree program**, students must meet requirements A and B:

A. Graduate in the top 60% of their high school graduating class,

OR

Achieve an ACT composite score of 18 or above,

OR

Earn a cumulative GPA of at least a 2.6 on a 4.0 scale.

AND

B. Complete the following required courses with a cumulative grade point average of a "C" or higher (2.0 on a 4.0 scale):

4 years of English

- or ACT English sub-test score of 17 or above
- or AP English score of 2 or above

3 years of Advanced Mathematics 1

- or ACT Math sub-test score of 17 or above
- or AP Calculus score of 2 or above

3 years of Laboratory Science 2

- or ACT Science Reasoning sub-test score of 17 or above
- or AP Science score of 2 or above

3 years of Social Science

- or ACT Social Studies/Reading sub-test score of 17 or above
- or AP Social Studies score of 2 or above

1/2 year of Computer Science

or AP Computer Science score of 2 or above

1/2 year of Fine Arts

or AP Fine Arts score of 2 or above

Applications from students with deficiencies are reviewed on an individual basis.

Admission to associate degree (two-year) programs is granted if you:

Rank in the top 60% of your high school graduating class,

OR

Have an ACT composite score of at least 18.

OR

Earn a cumulative GPA of at least 2.6 on a 4.0 scale.

Students enrolled in the two-year program who have not met the minimum high school course requirements may enter a bachelor's program only after they have satisfactorily completed 3 credits of English or speech, 3 credits of mathematics, 3 credits of natural science, 3 credits of humanities, and 3 credits of social science with a grade point average of 2.0 or higher.

Transfer Students

You are considered a transfer student if you have college credits from an accredited institution and are six or more months beyond high school graduation. If you are currently enrolled at another institution, you can send partial transcripts and be considered for provisional admission until the final, official transcript arrives.

- **A.** Transfer students who have completed 24 or more semester credits are eligible for admission if they meet the following requirements:
 - Have a 2.0 (C) or higher cumulative grade point average. Students
 entering the professional program in Education must have a 2.5
 GPA. Admission to the professional programs in engineering,
 nursing or pharmacy is on a competitive basis.
- Are in good standing with their most recently attended school.
- **B.** Students with less than a cumulative 2.0 grade point average may be admitted on probation, but each applicant is considered on an individual basis.

¹ Advanced math includes algebra or any higher level math.

Laboratory science includes biology, chemistry, physics, or other approved science courses in which there is a weekly lab period scheduled.

C. Transfer students under age 21 who have earned fewer than 24 semester college credits must also meet the Freshman admission requirements as outlined above.

Former Students

Former SDSU students who want to reapply for admission must submit another admission application and official transcripts from all colleges attended since leaving SDSU. Former students will be admitted upon review of all college level course work. Approval of admission is required by the dean of the appropriate college and the director of admissions. A petition process may be required if the student has been placed on probation or refused status.

Non-Traditional Students

Applicants under 21 years of age who did not graduate from high school must complete the GED and obtain an ACT composite score of 18 and ACT English, Mathematics, Social Studies/Reading and Science Reasoning sub-test scores of at least 17.

Applicants who are at least 21 years of age or older and who have not previously attended college will be admitted in good standing if they have graduated from high school or have completed the GED.

Home Schooled Students

Students who have been home schooled must submit a transcript of coursework completed and obtain an ACT composite score of 18 and ACT English, Mathematics, Social Studies/Reading and Science Reasoning sub-test scores of at least 17.

Special Students

Students who are over 21 years of age and who wish to enroll with a partial load or who do not plan to work toward a degree may be classified as Special Students.

Concurrent High School Students

High school juniors and seniors may be permitted to take not more than two courses per semester if they meet the concurrent admission requirements, submit a high school transcript and concurrent admission application, and provide documentation of high school and parental approval.

U.S. Army Concurrent Admission Program (ConAP)

SDSU is a participant in the U.S. Army Concurrent Admissions Program (ConAP). This program allows a qualified applicant to be admitted to SDSU at the time they enlist in the U.S. Army. For more information contact the local U.S. Army recruiter or the SDSU Admissions Office.

Policy for Transfer of Undergraduate Credit

Undergraduate transfer credits are evaluated by the appropriate college dean based on SDSU college and major requirements. Specific questions can be directed to the dean of the college you are entering.

I. A student must submit official transcripts to SDSU of all academic course work taken at other institutions. This course work is then evaluated by the College Dean and recorded on the SDSU transcript by the Registrar. An applicant's signature on the admission application certifies that he or she has complied with this regulation and incorrect or omitted data could be grounds for denial of admission or suspension.

- II. A student who takes courses at another institution after his or her initial enrollment and prior to graduation or leaving SDSU is required to submit an official transcript to the Admissions Office. The transcript will be evaluated by the Dean and recorded on the SDSU transcript. Failure to comply with this regulation could be grounds for suspension.
- III. Undergraduate credits are acceptable for transfer if taken from a regionally accredited institution and are applicable to the student's degree program at SDSU. Credits from colleges or universities which are not accredited by a regional accrediting association* may be accepted for transfer subject to all other provisions of these guidelines and any conditions for validation which may be prescribed by SDSU. Course credits are acceptable for transfer if completed with a passing grade.
- A. Academic courses will be transferred as meeting graduation requirements if the courses parallel the scope and depth requirements for the degree or if the courses meet electives required for the degree. Credit will not be given for duplication of courses.
- B. Remedial courses, orientation, life experience, and high school level courses are not accepted for transfer credit. No transfer credit is granted for General Educational Development Tests. (SDSU Note: Joint high school/college courses are covered in formally signed articulation agreements.)
- C. Courses from regionally accredited technical-vocational institutes may be accepted in transfer, subject to evaluation for equivalency. (Note: At SDSU this includes all general education courses covered in formally signed Board of Regents approval articulation agreements.) As technical-vocational institutions develop and change, transfer policies at SDSU are under review. Therefore, check with the SDSU Admissions Office regarding these.
- D. Credit earned for college level courses by examination, extension, correspondence, CLEP, advanced placement will be evaluated and accepted for transfer if equivalent to courses at and consistent with the policies of SDSU.
- E. When a course has been repeated for credit, the last grade earned will be used in the evaluation of the acceptance of credit.
- F. Total transfer credit for work at a junior or community college (2 year), or two-year technical college/institution may not exceed one-half of the hours required for completion of the baccalaureate degree at SDSU. Students who have completed more than the acceptable semester hours of junior or community college work may apply completed, transferable courses to specific course requirements and thereby not be required to repeat the courses. The semester hours of credit for those additional courses may not be applied toward the minimum credit hours required for the degree.
- IV. Evaluations of courses will be made by the appropriate institutional officials at the time of admission by comparing descriptions of courses completed with those at SDSU.
- V. General educational requirements successfully completed at the sending institution within the South Dakota higher education system will be accepted toward meeting these parallel requirements for SDSU.
- VI. Transfer credits will be accepted with the same grade and credit as was recorded on the transcript from the institution at which the course was completed. Courses accepted in transfer from institutions with a different credit and/or grading system will be equitably converted to the SDSU system and will be transcripted with the SDSU equivalent credit and grade. Each institution may

establish grade-point average requirements for graduation, honors, and academic standing based upon the work of the student at the receiving institution in addition to the cumulative credit and grade requirements. Any transferable grade, whether accepted or not, will be incorporated into the addition of the cumulative grade point average and will be included on the student's transcript.

- VII. The President or his/her designee is responsible for insuring that Regental policy will be followed by those involved in determining what courses will be transferred to meet graduation requirements. Each institution shall develop and maintain a procedure for the appeal of transfer credit decisions.
- * North Central Association of Colleges and Schools, Western Association of Schools and Colleges, New England Association of Schools and Colleges, Northwest Association of Schools and Colleges, Middle States Association of Colleges and Schools, Southern Association of Colleges and Schools.

Transfer between Regental Universities

Transfer between any of the six South Dakota Board of Regents universities has been further facilitated by the recent revision of the common course numbering system. Most general education courses at all six universities now have the same prefix, course number, and title. This will help transferring students understand how their courses will most likely transfer. Please be aware that majors and colleges have specific program requirements that must be met. These can include a minimum grade for transfer, a course sequence, or a more advanced course.

Articulation Agreements

Technical Institute courses are designed to prepare students to enter the workforce for careers requiring less than a baccalaureate degree. Acceptance of these courses for credit at the South Dakota public universities is strictly the function of the receiving institution. Students who wish to transfer credits to a South Dakota public university for programs other than the Bachelor of Applied Technical Science degree should contact the Admissions Office of that desired university for an evaluation of their program objectives and technical institute transcript. An individual evaluation of course credits will be made by the receiving public university in accordance with institutional and Board of Regents policy.

South Dakota State University has established articulation plans with several technical institute programs. Articulation agreements also have been established with tribal colleges, regional community colleges, other colleges and universities, and selected international educational institutions. College deans assist students in determining the status of articulated courses.

Correspondence Credit

SDSU will grant credit for correspondence courses from other colleges under the following circumstances: Limited credit for correspondence work may be applied toward a degree. Such credit will not be approved if the work is done while the student is enrolled in the university, unless arrangements have been made in advance with the dean of your college. Maximum acceptable credit by correspondence may be limited by the dean of the college you are entering. No credit will be given for correspondence courses in Engl 101, 301, or 379 unless such courses are taken from a South Dakota Board of Regents institution.

A person not enrolled at SDSU who wants to earn credits by correspondence and apply them toward a degree at SDSU should consult with the appropriate college dean.

Servicemembers Opportunity College (SOC)

South Dakota State University has been designated as an institutional member of Servicemembers Opportunity Colleges (SOC), a group of more than 400 colleges and universities providing voluntary postsecondary education to members of the military throughout the world. As a SOC member, SDSU recognizes the unique nature of the military lifestyle and has committed itself to easing the transfer of relevant course credits, providing flexible academic residency requirements, and crediting learning from appropriate military training and experiences. Servicemembers Opportunity College has been developed jointly by educational representatives of each of the Armed Services, the Office of the Secretary of Defense, and a consortium of thirteen leading national higher education associations. It is sponsored by the American Association of State Colleges and Universities (AASCU) and the American Association of Community and Junior Colleges (AACJC).

Admission with Advanced Standing

Students may be qualified to enter college at a level above the average freshman. Students may receive this advanced standing and/or credit through a variety of testing programs (see "Examination for University Credit"). The final decision in granting advanced standing and/or credit rests with the head of the department in which the credit is sought.

Admission of International Students on Nonimmigrant Visas

SDSU is dedicated to providing educational opportunities for students from abroad and has traditionally enrolled students from as many as 40 different countries each semester.

To be considered for admission, an international student must submit:

- 1. International Student Application
- 2. Official academic transcripts for all secondary and postsecondary
- 3. Official score report for Test of English as a Foreign Language (TOEFL)
- 4. Financial certification form/supporting financial documentation
- 5. Application fee of US \$15.00

International students generally need to have a secondary or college transfer grade point average of 2.5 for engineering or a 2.25 for other majors. Transfer students from academic programs at other U.S. institutions must have completed at least 25 consecutive semester credits (37.5 quarter credits) at a single institution. A minimum score of 500 on the TOEFL is required for non-native speakers of English (minimum is subject to change). Applicants whose native language is English or those who are from a country where English is the only language are not required to submit results from a TOEFL.

SDSU may grant conditional admission to students who cannot meet the minimum TOEFL requirement. Enrollment would be contingent upon successful completion of a U.S. based intensive English program, including an exit TOEFL of 500 or above.

International students are required to purchase and maintain university approved health insurance for themselves and their dependents for the duration of their enrollment at SDSU.

SDSU regrets that it is unable to offer financial aid such as scholarships or tuition waivers to international students. Applicants must, therefore, show clear evidence of adequate resources for financing their program of study.

SDSU reserves the right to require advance deposits of estimated tuition, fees, and living expenses when warranted by prevailing foreign exchange difficulties.

International Students have a separate application packet. Complete applications must arrive by: June 1 to be considered for fall admission; October 1 for spring admission, for applicants outside the United States. Applications not meeting the deadline requirement for one semester will remain active and when complete will be considered for the next semester. Contact the International Student Affairs Office for the application packet and further information: International Student Affairs, ADM 312, SDSU, Brookings, SD 57007. Phone: (605) 688-4122; e-mail sdsu_intlstud@sdstate.edu or FAX (605) 688-5951.

Policy for Transfer of International Undergraduate Credit

College level and advanced secondary level courses taken at international institutions will be evaluated for transfer consideration by an independent credential evaluation service and/or the appropriate institutional officials. Credit will be considered for transfer only when content is determined to be equivalent to SDSU courses. A syllabus from the international institution is required to determine equivalency. No elective credit will be allowed for courses not equivalent to SDSU courses. No English course will be accepted for credit from a international institution. For those international institutions that have an articulation agreement with SDSU, the agreement determines the courses that transfer full credit.

Transfer credit grades from international institutions will not be entered in the cumulative or semester grade point averages, but will be entered on the SDSU transcript as "P" (passing) grades. There will be a limit of 32 credits which may be transferred from international institutions determined to be vocational/technical level programs.

Non-Native Speakers of English

The Michigan Test of English Proficiency will be administered to non-native speakers of English. Testing may be waived with a score of a 600 or higher on the TOEFL.

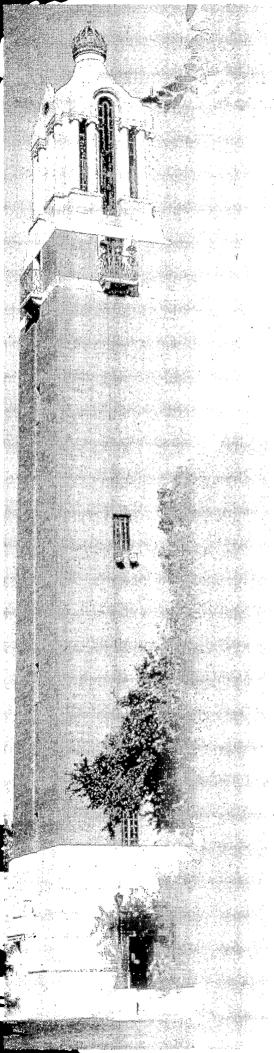
Testing will be conducted prior to enrollment. Results will be used to determine whether a student needs to complete one or more support courses in English as a Second Language in addition to regular academic classes. The courses are designed to better prepare students for their academic program in general as well as for the English core curricula required of all entering students.

Further information regarding admission and English proficiency requirements may be obtained from the International Student Affairs Office, ADM 312, SDSU, Brookings, SD 57007, Phone: (605) 688-4122. E-mail: sdsu_intlstud@sdstate.edu

Residency Requirements

In order to establish residency for tuition purposes you must live in South Dakota for twelve consecutive months immediately preceding the first scheduled day of classes of the semester. Attendance at a college or university controlled by the Board of Regents does not count in determining the twelve month period of residence.

Qualifications for residency for tuition purposes may be obtained by writing the Director of Admissions, SDSU, Box 2201, Brookings, SD



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Introduction

Each student is responsible for satisfying requirements for graduation as listed under overall university, college, and major field requirements. If a student has questions concerning the proper satisfaction of specific requirements, he or she should consult with the dean, major adviser, or the Registrar. To the extent possible, the following sections are arranged alphabetically.

Academic Amnesty

Philosophy

Some students attempted college work previously and were not successful in their efforts. They now wish to resume their college careers but are held back by poor academic records. Through the application of academic amnesty, the prior, poor academic record can be excluded from current work under certain conditions. The goal of this policy is to respond to the academic needs of matured individuals as they develop newly-identified potential.

Criteria

The student must:

- Be seeking an undergraduate degree from SDSU. The student who
 has already graduated may not apply for amnesty.
- Have last attended a formal post-secondary educational institution (including a vocational/technical institute) no less than 5 years prior to the most current SDSU admission.
- 3. Have completed a minimum of 12 newly attempted credits from SDSU with a minimum of 2.0 GPA and meet the program minimum GPA for those programs with a higher GPA entrance requirement. (If more than 12 credits have been completed, all credits must calculate to 2.0 GPA or program GPA.)

Procedure

1. The student must submit a formal Academic Amnesty Petition through the adviser, the department head for the undergraduate

- program into which the student desires entry or is already admitted, and the appropriate college dean.
- 2. The decision of the academic dean is final.
- Academic amnesty may be requested for either (a) all previous
 post-secondary education work, or (b) all previous post-secondary
 education at specific institution(s). Individual courses and/or
 terms may not be petitioned.
- If amnesty is approved, the student's academic amnesty record will not be counted toward completion of the current degree program.
- 5. All previous work, whether SDSU or transfer work, will remain on the student's permanent record. A notation will be entered when/if amnesty is granted and the appropriate calculations (e.g., cumulative grade point average) will be adjusted to reflect the amnesty decision.
- If the student changes college and/or major, the amnesty petition must be resubmitted to the new adviser, department head and appropriate academic dean.
- Academic Amnesty, if granted, will only be applicable at SDSU and does not impose any decision on any other institution(s) which the student may subsequently attend.
- Academic Amnesty cannot be used for federal financial aid satisfactory academic progress purposes. Students need to visit the SDSU Financial Aid Office to complete an appeal form if financial aid eligibility is affected.

Assessment Program

SDSU has a comprehensive Assessment Program to evaluate its educational programs and services. This program is designed to measure the effectiveness of the general education core curriculum, the cognitive knowledge and skills acquired in the major program of study, and students' perceptions of their education.

To effectively evaluate programs the university must assess students at various stages of their educational program. Therefore, you are

required to participate in assessment activities when requested. Assessment information is collected when you enter SDSU and additional assessments occur throughout your academic career. As a senior, you will participate in an assessment for each of your majors as part of your graduation requirements.

Proficiency Examinations

The South Dakota Board of Regents has selected the Collegiate Assessment of Academic Proficiency (CAAP) examination to be administered at all Regental universities. Baccalaureate degree-seeking students will sit for the exam on completion of 48 passed credits at the 100 level or above, and associate degree-seeking students will sit for the exam on completion of 32 passed credits at the 100 level or above. Enrolled students who have already earned a baccalaureate degree are exempt from the requirement. All degree-seeking students are required to take the proficiency examination during the first semester in which they become eligible. A student who chooses not to take the

examination will not be allowed to register for two academic terms (fall, spring, or summer) at any Regental institution.

Students failing to achieve the minimum scores established by the South Dakota Board of Regents on one or more components will be allowed to retest the failed part(s) and must do so within one year. Students who do not score at or above the cutoff will be required to develop a remedial plan in conjunction with their advisers. The proficiency examination will be offered each spring and fall. For further information contact the Director of Academic Evaluation and Assessment at 688-4217.

Information Technology Literacy

A 15-minute Information Technology Literacy Examination is administered to students as a freshman and again as a sophomore. The ability to locate, evaluate and select relevant information from a variety of sources is essential for academic success. This 32 multiple choice exam is designed to determine information literacy. There is no

required score at the freshman level, but the scores are kept and compared with scores on the same exam when it is taken the next year. At that point, students are required to pass with a 70% and will be required to remediate until a passing score is achieved. Successful completion is required for graduation.

Credits

Semester credit hours ("credits") are the numerical values assigned to hours of academic work, according to the amount of time required for lecture or laboratory. One credit is equivalent to 50 minutes of class (lecture, discussion) and two hours of outside preparation per week for one semester.

Three hours of laboratory work, where no outside preparation is required, or two hours of laboratory where outside activity is required is assigned one credit hour.

Independent courses vary in credit according to the nature of the work involved.

Examination for University Credit

If you have studied a subject independently or have done college level coursework for which you are unable to get a transcript acceptable to this institution, you may receive credit through a variety of testing programs.

No more than 34 credits obtained by examination for credit may be applied toward the Bachelor's degree.

Students and former students who were previously in good standing, may acquire credit by examination providing they meet the conditions outlined below.

If credit is accepted by examination, the permanent record will show: course name — credit by examination, with an EX grade for the specified number of credits. Course equivalent credit and two grade points per credit will be allowed toward graduation. No entry will be made on the record if the examination is failed. The examination results will not be included in calculation of either the semester or the cumulative grade point averages.

NOTE: A grade given at, or transferred to, this university may not be raised by examination for university credit. If you have taken an upper level course in a given subject, you cannot receive credit by examination for a lower level course dealing with the same content.

Standardized Tests

Credit may be received in certain subjects through the College Level Examination Program (CLEP), the Regents College Examinations, formerly (PEP), and the Advanced Placement Program (AP). The CLEP exams are administered at SDSU, the other programs are administered only through national testing centers. You are charged a testing fee for each of the testing programs.

In order to have credit earned by examination recorded on your academic transcript, you must complete an "Application for Placement Credit" form at the Academic Evaluation and Assessment Office and pay a recording fee.

Local Challenge Exams

If a standardized exam is not available for a course for which you wish credit, a special examination may be established. This process is initiated by obtaining a "Challenge By Examination" form and completing the prescribed steps:

1. Consult the head of the department in which the course is offered.

This person will conduct a preliminary evaluation of your

- background in the subject area to determine if an examination is warranted.
- 2. Consult the dean of the college in which you expect to receive a degree to determine whether credits earned by examination in the proposed subject will be accepted toward the degree.
- 3. Pay the examination fee **before** taking the examination. Specific details are enumerated on the application form which is available at the Academic Evaluation and Assessment Office.

Policy for Repeating Local Challenge Examinations

If a student does not pass the local challenge examination, he or she may use the SDSU petition procedure to request one more opportunity to take a challenge examination for the **same course**. The guidelines for the retesting process are as follows:

- 1. Only one retest is allowed.
- 2. There will be a waiting period of one academic term before retesting may be done.
- 3. The department will administer a test that is completely different from the original examination used in the original challenge attempt.
- 4. The petition must be approved by the department head, dean, and Director of Academic Evaluation and Assessment.
- 5. If the petition is approved, the student must complete a new "Challenge by Examination" form and pay the examination fee before retesting may be done.

Course Exemption

You may be awarded an exemption from taking a course but not receive college credit. This may result from the SDSU policy related to a specific test or credit received by examination from another institution.

For information about credit through any of these programs contact the Academic Evaluation and Assessment Office in Room 201 in Pugsley Center. South Dakota State University cannot guarantee that credit earned via exam at SDSU will transfer to other institutions. Even though SDSU has made an effort to set cut off scores at appropriate levels, each institution develops its own procedures for accepting credit by exam. In some cases a certain test or score level acceptable at SDSU may not qualify a student for credit at another institution.

Dean's List and Honors Designation

Dean's List (Undergraduate Students Only)

Requires a semester GPA of 3.4 or above and full-time student status (minimum of 12.0 semester credits).

Honors Designation (Undergraduate Students Only)

- 1. To be eligible for honors, a Bachelor's Degree student must have 60 earned semester hours in residence (at SDSU).
- 2. Students who transfer shall receive full value toward honors for grades and credits transferred, provided the institutions are fully accredited.
- Honors shall be awarded on the basis of cumulative grade point average.
- 4. Honors will be based on all grades. The commencement program will include a listing of candidates for honors. However, final determination is made after all grades are included.
 - Honors shall be of three degrees:
 With Highest Honor grade point average 3.80 or above.
 - With High Honor grade point average 3.60 to 3.79.
 - With Honor grade point average 3.4 to 3.59.
- 5. Honor students shall have the appropriate honors included on their diploma.

Modern Language Credit

Students who enter the University with a background in modern language may begin their language study at the level most appropriate to them. Students are encouraged to take the modern language placement test to determine their level of competence. No student will be allowed to enroll in a modern language class beyond 202 without confirmation of competence either by the placement test or the endorsement of a member of the departmental faculty.

Students completing any course beyond the 101 level, with a grade of C or better, may receive credit for the previous course(s). However, a maximum of 16 credit hours can be achieved for courses not taken. In order to receive credit, an "Application for Placement Credit"

form must be completed and the required fee paid in the Academic Evaluation and Assessment Office.

Students who have studied modern language other than those offered by the Department of Modern Languages may petition to have that study satisfy their B.A. modern language requirement. No credit will be given for competency in a modern language if it is the student's native language.



Grading

The grading system is based on achievement in comparison with other members of your class.

A grade report is distributed to each registered student each term and a cumulative record is maintained in the Registrar's Office. Grades may also be accessed via telephone (interactive voice response) by calling 688-5180.

Types of Grades

The quality of work is indicated by the following marks:

	1	
A	Exceptional	4.0 grade points
В	Superior	3.0
C	Average	2.0
D	Passing	1.0
	(lowest passing mark)	
\mathbf{AU}	Audit	

EX Pass-Credit by exam

P Pass

TR Credit received by transfer

CR Credit F Failure

You must repeat the subject in a regular class to get a passing mark. Repeating the course will not remove the failure from your permanent record. When a course is repeated, only the most recent grade is calculated into the cumulative grade point average.

LR Lab grade linked to recitation grade.

R Grade not reported by instructor.

Will not enter into the semester or cumulative grade point average.

W Withdrew

I Incomplete

A report indicating if for reasons beyond the student's control, a student cannot finish the required work in a course, the work completed is of passing grade, and it is deemed practical for the student to complete the subject without repeating it in a regular class, the student may apply to the instructor for an Incomplete grade. If the instructor accepts this application, the student and the instructor must agree on a plan to complete the work of the course. The plan must be in writing and have a completion date of not more than one year from the end of the regular course. At the end of the plan or the one-year period, whichever is sooner, the instructor may assign any academic grade, from "F" to "A". Any incomplete not properly removed within one year will remain on the permanent record as an "I". A grade of "I" is not calculated into the GPA.

IP In Progress

A report indicating that the requirements for the course, as specified on the initial course syllabi by the instructor at the start of the term, extend beyond the current term. The IP grade is an acceptable grade only if the instructor files, through the department head, a request to report an IP grade for the entire course, or in the case of independent study for an individual student, prior to the census date for the course. Requests must be approved by the College Dean and must be on file each term with the Academic Vice President and the Registrar. At the time grades are recorded, the Registrar will audit the reported IP grades against approvals received. (After initial review, courses such as Thesis, Thesis Sustaining, and Research Paper can be maintained on permanent file, rather than be submitted each term.) The grade of "IP" is not calculated into the GPA.

With the exception of a year old "I", any grade reported to the Registrar may be changed by recommendation of the instructor and college dean and approval by the Vice President for Academic Affairs.

Any graduating senior and graduating graduate student who receives an incomplete or in progress grade in the final semester in a course required for graduation, or who has not removed an outstanding incomplete or in progress from a previous semester, in a course required for graduation, by the date grades are due for the semester will not be permitted to graduate that semester but will be required to apply for graduation for a subsequent semester. Emergency situations require the filing of a petition by the student to the Dean for approval prior to the final grading deadline for the final semester.

When the student has graduated and the degree has been recorded, the record is considered officially closed, and an instructor can no longer change a grade, including the "I" and "IP" grades.

Grade Points and GPA. Grade points are related to grades as illustrated in these examples:

			Grade
Course	Credits	Grade	Points
Mil 101	1 -	A	4
Math 113	5	В	15
Chem 112	4	C	8
Fren 101	4	C	8
Engl 101	3	D	3
Total	17		38

GPA - 38 divided by 17 = 2.23

The cumulative grade point average is obtained by dividing grade points by the number of hours attempted. In computing grade point averages all hours attempted (graded A, B, C, D, F) are included. Note: This excludes I, AU, IP, CR, EX, LR, P, NR, TR, W grades.

Repeating a Course to Raise the Grade. All courses taken appear on the student's academic record, but when a course is repeated, only the most recent grade is calculated into the cumulative GPA.

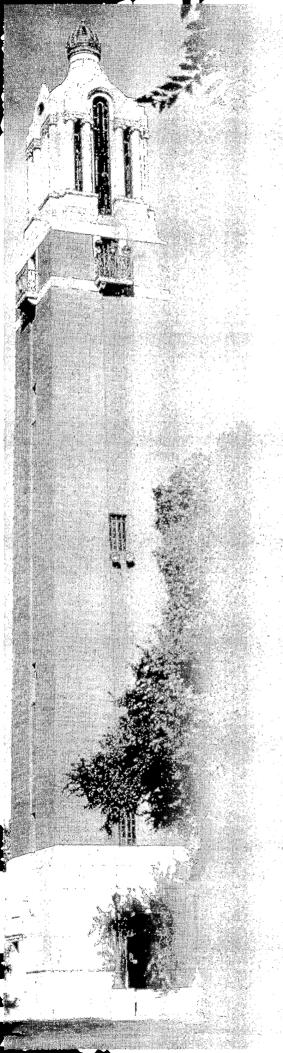
This policy applies only to undergraduate course work. The Graduate School uses both grades in computing the GPA.

You should notify the Registrar's Office, ADM 208, when a course, whether failed or passed, is repeated.

Pass-Fail System. The primary objective of the Pass/Fail System is to encourage students to attempt courses in areas they would normally avoid because of lack of background.

- 1. You may enroll in up to 20 credits.
- 2. These credits must be outside your major and may not serve to satisfy university, college or departmental specific course requirements.
- 3. Colleges may further restrict the Pass/Fail credit option.
- 4. A "D" letter grade or better is considered to be a passing grade in a pass/fail elective.
- Registration for pass-fail electives will be accomplished only after registration day by Audit/Pass-Fail Form to the Registrar's Office. The pass/fail option should be known only to the academic adviser, instructor, the student and the registrar.
- You may change from pass/fail elective to credit or vice versa only during the two week add period.
- 7. The grade (P or F) will be recorded on your permanent record. A grade of "P" will not count in the computation of the semester or the cumulative grade point average. If the course is passed (grade of D or better), the credits will be counted towards graduation. An "F" grade will calculate in the computation of the semester and the cumulative grade point average.

Note: Some courses are taught only on a Pass/Fail basis. Consult the department if you have a question.



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Academic Performance

The normal progress rate toward graduation requires 12-16 semester credits and 24-32 grade points each semester. To be in good scholastic standing you must meet the following Minimum Grade Point Average Standard: Freshman — 1.80; Sophomore — 1.90; Junior — 2.00; Senior — 2.00. To graduate, a student must have a CGPA (Cumulative Grade Point Average) and IGPA (Institutional Grade Point Average) of 2.00. (See Resident Requirements under General Degree Requirements).

If you do not maintain the above average, your scholastic status will be affected as follows:

- 1. **Scholastic status** is reviewed at the end of **each** semester (term). Summer term is treated as a regular term relative to probationary and suspended status.
- 2. Probation. At the end of the first term in which a student's CGPA does not meet the minimum GPA standard, he or she will be placed on "scholastic probation." Consultation with the academic adviser is expected. Actions such as curtailment of participation on faculty-student committees may be appropriate. The dean may require the student to carry a reduced load for the next semester.

- 3. Continued Probation. Students on academic probation, whose SGPA is equal to or above the GPA standard, and whose CGPA is still below the GPA standard are placed on "continued probation" for one more term.
- 4. Suspended. Students on academic probation whose CGPA and SGPA fall below the GPA standard will be suspended. Students on continued probation whose CGPA is below the GPA standard will be suspended. Readmission may be possible on a "continued probation" status, upon application for readmission, and after a minimum of two terms of nonattendance. To appeal a suspended status after two terms of nonattendance, the student must do so to the dean of his or her college. If one has been on a suspended status twice, he or she will not ordinarily be permitted to enroll again.

Academic Honesty

South Dakota State University has taken a strong and clear stand regarding academic dishonesty. The consequence of academic dishonesty ranges from disciplinary probation to expulsion. The full policies are found in Chapter 1 of the Student Code (01:10:23:01 - 1:10:23:04) within the Student Policy Manual. A student charged with

academic dishonesty who wishes to appeal that charge may follow the Appeals Procedure outlined in Chapter 2 of the Student Policy Manual (Academic Appeals and Classroom Standards) or contact the Vice President for Academic Affairs Office, ADM 230, 688-4173.

Attendance

Policy: It is the practice at South Dakota State University that faculty determine the specific attendance policy for courses under their direct supervision and instruction. Attendance procedures must be stated in written form and distributed to students at the beginning of each semester. Any exceptions to the faculty member's written attendance policy such as medical concerns, disabilities, or approved university-related activities must be negotiated between the student and faculty member prior to the absence whenever possible. If arrangements are unable to be negotiated with a faculty member, or at the department or college levels, students may contact the office of the Vice President for Academic Affairs.

Policy Implementation: The faculty and administration will honor officially approved absences where individuals or groups are absent in the interest of the university. Absences for verified medical reasons, death of family member or significant other, or other verified extenuating circumstances judged acceptable by the instructor or the institution will also be honored. Students with excused absences will be given equivalent opportunities for obtaining grades as students who were in attendance. Should excused absences be excessive, the faculty member may recommend withdrawal from the course or a grade of incomplete.

Class Definition

- 1. Sophomore rank requires 32 semester credit hours.
- 2. Junior rank requires 64 semester credit hours.
- 3. Senior rank requires 96 semester credit hours.

Electives

Electives are offered so students may develop special talents or interests. The choice of subjects is left to the student, provided the selections made are consistent with the academic standards of the University. Electives used to meet the general education core degree requirements must be chosen from the approved list.

The dean of the college in which the degree is sought must approve registration in an elective if the subject is counted toward the degree.

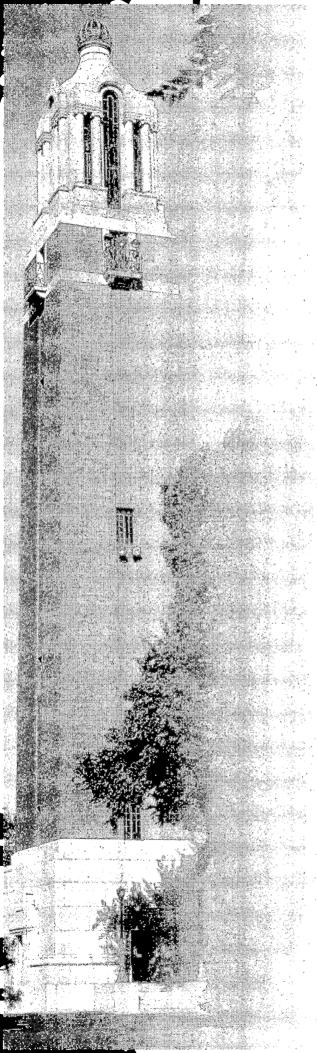
Rate of Progress

Each student is advised by a member of the faculty. Classes consistent with your plan of study and properly adjusted as to the amount of work are arranged by the adviser and subject to approval by

The normal rate of progress for a student classified as an undergraduate is 16 credits each semester. To be a full-time student, all students classified as undergraduates must carry 12 semester credits; all students classified as graduates must carry 9 semester credits. Undergraduates will not be permitted to register in more than 20 semester credits the first term. Registration in more than 20 semester credits in subsequent terms is permitted only when the previous semester's work shows high achievement.

All overloads in excess of 20 credit hours must be approved by the dean of the student's college. In general, courses will not be offered to fewer than 10 students for undergraduate courses or 7 students for graduate courses, unless there is some special reason for doing so. Instructors will cancel courses with low enrollment or for other reasons, only with the approval of the dean of the college concerned.





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Auditing a Course

Registration as an auditor in a course may be permitted. No credit is given. The audit fee is the established tuition and fee rate. Registration for audit may be accomplished only after registration day by presenting an Audit/Pass/Fail form to the Registrar's Office, ADM 208.

Auditing courses by graduate and undergraduate students will be a

matter of record (recorded on their academic transcript). An Au grade is given for Audit. This grade does not calculate into the semester or cumulate grade point average. Audit courses are counted as part of the 20 hour rule for overloads. Audit courses are not counted in calculating undergraduate or graduate full-time student status.

Drop-Add Procedure

- Dropping or adding courses should be discussed with your faculty adviser. See your semester course schedule for drop-add procedures.
- Courses may be added, the pass/fail elective may be chosen, and cross listed course prefixes for that semester may be changed during the first 7 class days each semester for standard semester courses and until 10% of instruction is completed for non-standard semester courses.
- Courses may be dropped without charge during the first 7 class days
 for standard semester courses or until 10% of instruction is
 completed for non-standard semester courses. Drops after that date
 are not entitled to refund.
- 4. You should not discontinue enrollment in a class without processing discontinuance via the official drop procedure. An "F" will be recorded for an unofficial drop.

Grades for dropped courses:

- 1. Students will be allowed to drop courses until 41.7% of instruction is completed (date published in semester course schedule) with nothing recorded on their transcripts.
- Thereafter, until 69.4% of instruction is completed (date published in semester course schedule), a "W" will be recorded on the student's permanent transcript indicating a late drop.
- 3. You may **not** drop an individual course after 69.4% of instruction is completed.
- 4. Similar proportional dates would be established by the Registrar's Office for summer, interim and other courses taught outside of the normal nine-month academic year.
- 5.After 69.4% of instruction is completed, if extenuating circumstances (i.e., illness) have prevented class participation, a petition for an individual drop may be filed through the Dean of the student's college.

Repeated Courses

All courses taken appear on the student's academic record, but when a course is repeated, only the most recent grade is calculated into the cumulative GPA.

This policy applies only to undergraduate course work. The Graduate School uses both grades in computing the GPA.

You should notify the Registrar's Office, ADM 208, when a course, whether failed or passed, is repeated.

Major Changes

There is a process available for changing, adding, or deleting a student's major. See your College Dean's office to begin the process.

When complete, the paperwork must be filed for recording with the Registrar's Office, ADM 208.

Petitions and Appeals

South Dakota State University has an established University Petition Process for students to follow in seeking exceptions to established academic and administrative policies.

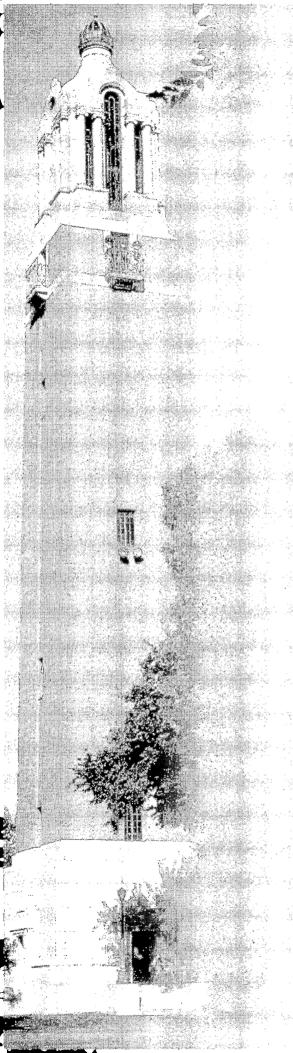
There are four areas of appeal: Drop/Add Appeals, Academic Appeals, Graduation Appeals, and Financial Appeals.

The petition process begins with the student obtaining a University Petition form from the Registrar's Office and then processing it through the appropriate steps as indicated on the petition form.

Withdrawal

Those finding it necessary to withdraw from the University are urged to consult with a faculty adviser to work out the best plan possible. You must then contact the Records Office, ADM 208 to process a withdrawal. Those who leave the university without processing an official withdrawal will be reported as having failed the semester's work. Grades transcripted are based on the date of application for

withdrawal. A student may withdraw from the university until 69.4% of instruction has been completed (See date published in **Semester Course Schedule**). After that date, if extenuating circumstances (i.e., illness) have prevented class participation, a petition for withdrawal may be filed through the Dean of the student's college.



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Academic Advising Role Statements

The overall educational objective at South Dakota State University is to guide each student in the attainment of intellectual and professional competency, growth of personal development, a sense of social and civic responsibility, and satisfactory adjustments in human relationships. Individualized attention to this objective is delivered through academic advising. Each student is assigned an academic adviser and is encouraged to meet with that adviser at least twice each semester to review plans/progress and to schedule classes. Academic advising, formal or informal, is provided by teaching, research, administrative, or service appointed faculty. Academic advising may be included in teaching, may be a part of service, or can be a specified work load assignment.

Purpose of Academic Advising: Academic advising is formal and informal guidance intended to help students investigate, identify, and accomplish individual academic and career plans.

Goals of Academic Advising:

- Inspire students to understand their freedom of choice and accept their responsibility for academic progress and planning.
- Assist students in the exploration and definition of immediate and lifelong goals.
- 3. Encourage students to explore and become involved in beneficial experiences that contribute to a complete University experience.

Role of the Advisee: The advisee role in academic planning is to be involved, responsible, and committed to developing and implementing a future career, academic, and employment plan.

Rights of the the Advisee:

- 1. The right to an adviser who fulfills the SDSU advising goals, role, and responsibilities.
- 2. The right to know and have timely access to an assigned adviser.
- The right to protection and review of academic advising-related files and materials in accordance with the Family Educational Rights and Privacy Act (FERPA).
- 4. The right to receive pertinent and accurate information as needed for career, academic, and employment planning.
- The right to request a change of academic adviser assignment and the right to clear procedures for conveying concerns relative to quality of advising help.

Responsibilities of the Advisee:

- Responsible for initiating and advancing timely career and academic related plans and discussions with adviser.
- 2. Responsible for initiating regular progress appointments and seeking adviser assistance when problems arise.
- Responsible for fulfilling additional requirements as agreed upon during discussions with adviser.
- Responsible for recognizing that the ultimate responsibility for timely completion of academic requirements rests with the advisee.

Role of the Academic Adviser: The academic adviser role is to be a sensitive, knowledgeable, and skilled link that enhances the advisees relationship with the University. The academic adviser assists the student in achieving educational goals.

Responsibilities of the Academic Adviser:

- Maintain Advisee Records. Keep current advisee records and personal information in accordance with confidentiality requirements.
- Furnish Accurate Academic Information. Provide advisees with correct and relevant information about university, college, and departmental graduation requirements.
- Know Advisees. Know assigned advisees and their individual educational and career goals.
- 4. Guide Major Program Planning. Recommend courses which correspond with advisees academic background and educational goals.
- Monitor Academic Decision Making. Inform advisees about relevant alternatives, limitations, and possible consequences of academic decisions, including information on academic standards, appeals, and charges of academic dishonesty.
- Refer to Campus and Community Resources. Encourage and guide advisees to utilize available campus and community student help and student development resources.
- 7. Encourage Timely Progress Toward Degree. Advocate timely planning and progress toward educational goals with prompt attention to problems.
- 8. Advocate Professional Responsibilities. Help advisees recognize relevant institutional and/or professional responsibilities. Make recommendations to appropriate University officials when advisee behavior compromises professional and/or institutional standards to such an extent that professional disclosure is necessary.

Affirmative Action/Equal Employment Opportunity Policy

In recognition of its legal and moral responsibilities, South Dakota State University reaffirms its commitment to provide "equal opportunity" for the education and employment of all persons, without regard for age, race, color, religion, gender, sexual preference, national origin, or disability, through a continuing policy of "Affirmative Action." Positive efforts to further equality of opportunity in education and employment will be: 1) vigorously pursued; 2) conform to current legal requirements; and 3) be consistent with University standards of excellence and quality.

The "affirmative action" required to meet our responsibilities will include the statement and continual review of University policies relating to equal opportunity and non-discrimination, the collection and analysis of data, the formulation and implementation of procedure to ensure compliance with stated policy, and the continual monitoring of all administrative practices relating to these procedures.

It is recognized that the real success of an affirmative action program is measured, more by good faith efforts in achieving compliance, and not solely in the accumulation of data, analyses, and reports. Analyses,

planning, and programming help bring about desired results, identify problem areas, and permit rational scheduling of corrective action. Moreover, these activities give new insights into the dynamics of the university community and help sensitize all of us to the goal of "equal opportunity."

In specific terms, this commitment to provide equal opportunity for all persons requires:

- 1. The eradication of the effects of any past discrimination; and,
- The prevention of any present or future discrimination, including any potential discrimination which may arise as a result of the improper implementation of affirmative action practices.

In the final analysis, "affirmative action" is focusing of the University's creative energies on the task of developing processes that enhance human development and institutional effectiveness.

Affirmative Action questions and concerns can be directed to the Director for Diversity Enhancement, Dr. Marcus Dahn (ADM 217; telephone 605-688-6361; fax 605-688-4443).

Disability Policy Statement

South Dakota State University (SDSU) reaffirms that it is committed to a policy of non-discrimination on the basis of physical or mental disability/impairment in the offering of all benefits, services, educational and employment opportunities. Mr. Eugene T. Butler, Jr. has been designated the SDSU "Responsible Employee" to coordinate institutional compliance with the non-discrimination requirements of the Americans with Disabilities Act (ADA) of 1990. As ADA Coordinator, Mr. Butler will also be responsible for the effective integration of ADA procedures with AA/EEO, Title IX, Sections 503

and 504 of the Rehabilitation Act of 1973, as amended, Diversity and Sexual Harassment programs. Information concerning the provisions of the Americans with Disabilities Act of 1990 and the duties and rights provided therein, are available from the office of the Director of Disability Services (ADM 318C, Telephone (605) 688-4493, Fax (605) 688-5951). Employees, students, and visitors may obtain information concerning the provisions of the ADA and their respective duties and rights provided therein from the office of the Dean of Student Affairs (ADM 318, Telephone (605) 688-4493).

Family Educational Rights and Privacy Act of 1974 (FERPA)

The Family Educational Rights and Privacy Act of 1974 (FERPA) (also known as the Buckley Amendment) is a Federal law designed to protect the privacy of a student's personal education records kept at the University. The law provides that the institution will maintain the confidentiality of each student's education records and covers matters relating to access to student records and the disclosure of such records. For complete information about these policies, please refer to the SDSU Student Policies Manual.



Graduation Policies and Procedures

A. Graduation Application - Date Due in Dean's Office

Check the Fall Semester, Spring Semester, and Summer Course Schedules for dates.

B. Incomplete grades in courses required for graduation.

Graduating Seniors and Graduating Graduate Students (beginning

- 1. Any graduating senior or graduating graduate student
 - a. who receives an incomplete in the final semester in a course required for graduation, or
 - b. who has not removed an outstanding incomplete from a previous semester, in a course required for graduation, by the date grades are due for the semester will not be permitted to graduate that semester but will be required to apply for graduation for a subsequent semester.
- 2. Emergency situations require the filing of a petition by the student to the Dean for approval prior to the final grading deadline for the final semester.

C. Incomplete grades in courses not required for graduation.

- 1. The student's record, up to the date of graduation, for that degree, is considered closed when the Registrar records the verified degree on the student's record (3 weeks after grades are due for the final semester prior to graduation).
- 2. After that date removals of Incompletes for courses not required for the degree are no longer permitted. This policy also applies to grade changes or any other academic change to the student's record.
- 3. This policy has always been in effect but is reinforced in this policy statement.

D. Graduation List

Submission by the Deans of the final verified graduation list to the Registrar's Office.

- 1. Deadline for verification of degrees to the Registrar by the Deans will be 3 weeks after grades are due for the semester.
- 2. Prior to verification of the degree all undergraduate transfer work in progress, or completed by the student, up to the date of graduation (whether required for graduation or not) must be evaluated by the Dean and recorded on the student's academic transcript.
- 3. It is the Dean's responsibility to ensure all requirements are met prior to entering the student's name on the final verified list.

E. Notification to the student of above policies and procedures.

- 1. Every student will receive an information letter and will sign off on these policies and procedures at the time the graduation application is filed with the Dean.
- 2. The Registrar will include this policy and procedures statement with the graduation information sent to all graduating students each semester.

Non-Degree Courses

In addition to courses leading to degrees, the university offers special and short courses in several lines of work. Some of these may be given for academic credit or no academic credit; others may be offered for Continuing Education Units. Consult the department head involved or

the Coordinator of Outreach Programming, ADM 315, South Dakota State University, Box 2201, Brookings, SD 57007; 605-688-4431. E-mail: JoAnn_Sckerl@sdstate.edu

Policy on Sexual Harassment and Other Forms of Harassment

INTRODUCTION

Harassment is a particularly harmful and illegal form of discrimination that breaks down trust within the SDSU community and impedes the ability of students, employees, and others to participate in an environment that allows them to achieve their fullest potential. Furthermore, harassment is a violation of the expectation that every individual at SDSU deserves to be treated fairly, with respect for his or her dignity as a person.

For these reasons, it is this institution's policy that no form of harassment of employees, students, and others associated with SDSU is permitted under any circumstances. All reported incidents will be investigated promptly and acts of prohibited behavior will result in corrective action. including disciplinary action pursuant to the South Dakota Board of Regents Human Rights Complaint Procedures. Sanctions for employees include formal reprimands, suspensions without pay, reductions in responsibilities, and termination. Sanctions for students include probation, suspension, and expulsion.

POLICY STATEMENT: Harassment on any grounds, directed against individuals, is proscribed.

- I. Sexual harassment in either of its recognized forms is proscribed:
 - A. Sexual harassment may be established by showing that an individual has been subjected to unwelcome sexual advances, requests for sexual favors, or other verbal or physical conduct of a sexual nature where:
 - 1. Submission to such conduct is made either explicitly or implicitly a term or a condition of an individual's participation or use of an institutionally sponsored or approved activity, employment, or resource; or
 - 2. Submission to or rejection of such conduct by an individual is used as the basis for educational, employment, or similar decisions affecting an individual's ability to participate in or use an institutionally sponsored or approved activity, employment, or resource.
 - B. Sexual harassment may also be established by showing participation in the creation of an intimidating, hostile, or demeaning environment established under Section II below.
- II. Harassment on the basis of race, color, creed, religion, national origin, ancestry, citizenship, gender, sexual orientation, age, or disability, or harassment on any grounds, directed against individuals, may be established by showing:
 - A. Conduct toward another person that has the purpose of creating an intimidating, hostile, or demeaning environment and that interferes with his or her ability to participate in or to realize the intended benefits of an institutional activity, employment, or resource.
 - B. Conduct toward another person that has the effect of creating an intimidating, hostile, or demeaning environment that adversely interferes with his or her ability to participate in or to realize the intended benefits of an institutional activity, employment, or resource.

- 1. Harassment consists, in most cases, of more than casual or isolated incidents.
- 2. Consideration should be given to the context, nature, scope, frequency, duration, and location of the incidents, whether they are physically threatening or humiliating as opposed to merely offensive utterances, as well as to the identity, number, and relationships of the persons involved.
- 3. Harassment shall be found where, in aggregate, the incidents are sufficiently pervasive or persistent or severe that a reasonable person with the same characteristics of the victim of the harassing conduct would be adversely affected to a degree that interferes with his or her ability to participate in or to realize the intended benefits of an institutional activity, employment, or resource.
 - a. The reasonable person standard includes consideration of the perspective of persons of the alleged victim's race, gender, or other circumstances that relate to the purpose for which he or she has become the object of allegedly harassing conduct.
 - b. If the victim does not subjectively perceive the environment to be hostile, the conduct has not actually altered the conditions of participation and there will be no violation of this policy.
 - It is not necessary to show psychological harm to the victim to establish that the conduct would interfere with the person's ability to participate in or to realize the intended benefits of an institutional activity, employment, or resource.
- C. Other conduct that is extreme and outrageous exceeding all bounds usually tolerated by polite society and that has the purpose or the substantial likelihood of interfering with another person's ability to participate in or to realize the intended benefits of an institutional activity, employment, or resource.

REPORTING COMPLAINTS/GRIEVANCE PROCEDURE

University employees are required to refer all harassment complaints they receive (formal or informal, resolved or not) to Dr. Marcus Dahn, Director for Diversity Enhancement (Phone: 605-688-6361, ADM 217). Confidentiality will be maintained to the maximum extent possible in resolving the problem. If a complainant chooses to exercise his or her right to file a formal complaint, the South Dakota Board of Regents Human Rights Complaint Procedure will be used in the investigation and resolution.

NON-RETALIATION/NON-COERCION

Complainants, witnesses, and other persons who have assisted, testified, or participated in any manner in any phase of an investigation will be protected. This policy and applicable Board of Regents, State, and Federal regulations prohibit retaliation, coercion, interference and/or intimidation, or any other adverse act. Persons committing such adverse actions will be subject to disciplinary actions.

Student Code of Freedom and Responsibility

Academic institutions exist for the transmission of knowledge, the pursuit of truth, the development of students, and the general support for the well-being of society. Free inquiry and expression are indispensable to the attainment of these goals. Freedom to teach and freedom to learn are inseparable facets of academic freedom. The freedom to learn depends upon appropriate opportunities and conditions in the classroom, on campus and in the community. You are expected to exercise this freedom with responsibility.

The Student Code, which appears in the Student Policies Manual, is the basic guideline reflecting university-student relations. The Code defines your behavior, your expectations and related university conduct and judicial procedures.

Complete details concerning disciplinary procedures and regulations pertaining to residence halls, parking and traffic, student organizations and activities will be found in the Student Policies Manual.

Copies of the manual are available at the President's Office, each Dean's office, the Student Union, the Residence Halls, and the Student Affairs Office.

Trip Regulations

A. Students involved in trips related to university-sponsored activities as defined in the catalog under Purposes of the University or university-affiliated activities as scheduled by the Director of Student Activities or the Director of Residential Life must receive clearance for the trip. Permit forms are available from most departmental offices (ordered from Stores). The Application For Trip Permit form must be signed by the faculty sponsor and approved by the dean of the college or his/her designate, or the Director of Student Activities or his/her designate, and must be approved by the Office of the Vice President for Academic Affairs prior to the trip.

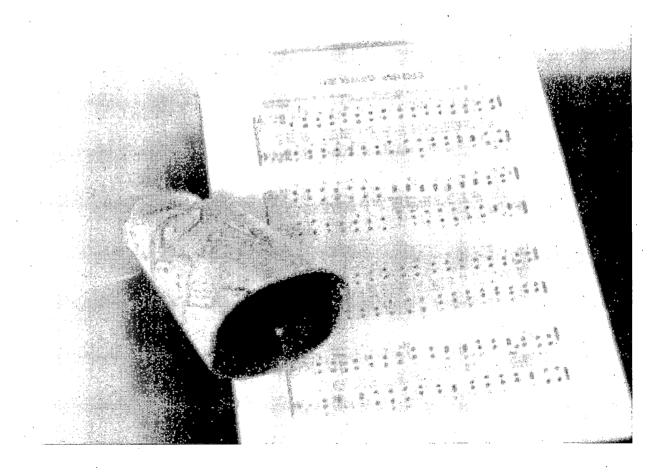
B. Students on university-approved trips are covered by accidentmedical insurance. State-owned vehicles may be utilized if criteria established in the policy regulating use of state-owned vehicles are met. Drivers of personal vehicles should have liability insurance.

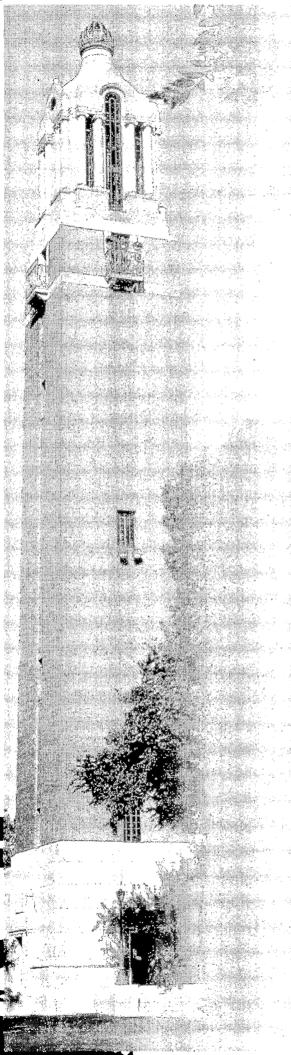
C. Students are eligible for trips if 1) activities of the student have not been curtailed by action of an authorized university judicial body; 2) no single trip shall keep students away from classes more than 5 consecutive class days.

D. The faculty will honor trip absences approved by university officials where individuals or groups are absent in the interest of the University. Differences encountered between student and instructor will be arbitrated by the Vice President for Academic Affairs.

E. A Trip Absence Card for each student involved in the trip will be issued to the faculty sponsor upon approval of the trip. The Trip Absence Card will be signed by the faculty sponsor and given to each student. The student should show the card to his/her instructors in making arrangements to make up any work missed because of a trip, previous to going on the trip. The student should retain the Trip Absence Card until after final grades are received by the student.

F. For insurance purposes, all intradepartmental trips (i.e., laboratory field trips, clinical experiences, etc.) that do not involve the missing of classes by the participating students shall be cleared through the department office or the college dean's office, and a record kept of the number of students going and the dates of the trips. This record shall be summarized by each college dean and reported to the Vice President for Academic Affairs at the end of each academic term.





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General Degree Requirements

The adviser system assists in proper course selection to meet curricular requirements and helps you avoid errors in scheduling. However, you have the final responsibility for satisfying the degree requirements for the curriculum chosen and for the university core curriculum.

The General Degree Requirements

A. Completion of at least 128 semester credit hours for the baccalaureate degree (see individual professional college requirements) and 64 semester credit hours for the associate degree.

B. A Cumulative Grade Point Average (CGPA) and Institutional Grade Point Average (IGPA) of 2.00. The CGPA is based on **all** courses attempted, transfer or at SDSU. The IGPA is based on all course work taken at SDSU. If a course is repeated, F95 or later, only the last grade received will be included in the calculation of the CGPA and IGPA.

C. Resident requirement. A "course in residence" is a course offered by SDSU at any of its approved sites using any approved method of delivery. Courses that are a part of a formal collaborative agreement among Regental institutions are considered to be "in residence." The minimum number of credit hours that must be earned in residence are 32 credits for the baccalaureate degree and 16 credits for the associate degree. The number of the last credit hours earned preceding completion of the degree that must be earned in residence are 16 of the last 32 credits for the baccalaureate degree and 8 of the last 16 credits for the associate degree. The minimum number of credit hours in the discipline that must be completed in residence is 50 percent. Credits earned by examination are not counted as resident credit unless an exception has been made because of special program features. A student must have 20 upper division level credits, 14 of which need to be at SDSU.

- D. Completion of University core requirements as described below.
- E. Completion of all college and major field requirements.

General Education Core

Qualities of mind, approaches to knowledge, and personal commitments to be promoted by the SDSU undergraduate general education core requirements.

- 1. Higher Order Thinking Skills. Our graduates should be able to reason well, to recognize the relationships which exist among ideas, to recognize when reason and evidence are sufficient, to explore the legitimacy of institution, and to subject inert data to the probing analysis of the mind. The graduate will be capable of dealing with all aspects of critical thinking (inquiry, analysis, synthesis, judgment, imagination, creativity, and others).
- Literacy. Our graduates should be able to read, write, and speak effectively in many different environments. They should be able to manage information effectively and be good listeners.
- Numeracy. Our graduates should be able to use concepts involving sophisticated responses to arguments and propositions which depend on mathematics, numbers and statistics. They should understand data and mathematical reasoning.
- 4. Natural Science Understanding. Our graduates should understand the scientific method and fundamental principles of physical and biological sciences. They should understand the intellectual and philosophical context of scientific observation, research, and debate including the implications of science on humans, social structures, and on the political world.
- Social Science Understanding. Our graduates should have a scientific understanding of human characteristics, including the elements of responsibility and freedom, in spatial, temporal, behavioral, cultural, and institutional contexts.
- 6. Humanities Understanding. Our graduates should have an awareness of what it means to be human and acquaintance with approaches of human nature, ethical reasoning, and ultimate meaning as developed in history, literature, philosophy, religion, languages, and the humanities. Graduates should learn to thoughtfully make choices, assume responsibility for decisions, and have a rationale for their decisions.

- 7. Aesthetic Understanding. Our graduates should be aware of, appreciate, and participate in the arts (music, painting, sculpture, architecture, photography, and other forms) as modes of expressing and understanding the human spirit and of expressing beauty. Graduates should be able to use fine arts to see, hear, and appreciate the importance of disciplined creativity on the shared social fabric that holds a culture together.
- 8. International and Multicultural Experience. Our graduates should appreciate ethnic diversity in the United States and throughout the world. Knowledge and appreciation of ethnic diversity by SDSU students means that they be educated to live and work, now and after graduation, with people from a variety of cultures, ethnic groups, places and abilities.
- 9. Commitment to Wellness. Our graduates should recognize the wisdom of a holistic approach to personal wellness. Wellness is developed in physical, spiritual, emotional, interpersonal, intellectual, and vocational dimensions.
- 10. Citizenship. Our graduates should actively acknowledge that no person stands alone. A responsible person in a democratic society volunteers (time and talents) to serve for the betterment of the community, the state, the nation, and all humankind.
- 11. Land Stewardship. Our graduates should have an understanding and appreciation of the fundamental role that land (including soil, water, organisms, and rock) plays in society and our obligations as stewards of the land.

The 40 credit hour general education core at SDSU is composed of 30 credits common to the Regental System and 10 credits of Institutional Graduation Requirements (IGRs) unique to SDSU.

Note: Other than for System General Education Goal #7, no given course may satisfy more than one of these requirements, unless the minimum number of credits is exceeded. Credits in excess of the minimum credits needed may be applied in another area.

SYSTEM GENERAL EDUCATION CORE FOR BACCALAUREATE DEGREE: 30 CREDITS

(Effective for new degree-seeking students Fall 1999 and later)

GOAL #1:

Students will write effectively and responsibly and understand and interpret the written expression of others.

Criteria

Courses meeting this goal will collectively require students to:

- 1) write logically and persuasively;
- 2) use a variety of rhetorical strategies (e.g. expository, argumentative, descriptive);
- 3) read critically the writing of others;
- 4) view writing as a process requiring planning, drafting, and
- 5) write for a variety of audiences, including academic audiences;
- 6) incorporate formal research and documentation into their writing;
- 7) use standard English;
- 8) use computer technology for basic communication-related tasks such as word processing and research.

Credit Hours

Courses

Engl 101 Composition I, 3 credits Engl 201 Composition II, 3 credits Designated writing courses in majors

GOAL #2:

Students will communicate effectively and responsibly through speaking and listening.

Courses satisfying this goal will require students to:

- 1) plan and create speeches for a variety of audiences and settings;
- 2) develop speaking competencies including choice and use of topic, supporting materials, organizational pattern, language, presentational aids, and delivery as appropriate to topic, audience, occasion, purpose, and communicator;
- 3) develop listening competencies including listening with literal and critical comprehension to ideas, perspectives, and emotions in messages.

Credit Hours

Courses

Spcm 101 Fundamentals of Speech, 3 credits Spcm 215 Public Speaking, 3 credits Spcm 222 Argumentation and Debate, 3 credits

GOAL #3:

Students will understand the structures and possibilities of the human community through study of the social sciences.

Criteria

Courses in Anthropology, Economics, Geography, History, Political Science, Psychology, and Sociology meeting this goal will collectively require students to:

- 1) learn and apply the basic concepts, terminology, and theories of the social sciences:
- 2) examine the origin and evolution of human institutions;
- 3) examine human behavior in different spatial, temporal, cultural, and/or institutional contexts;
- 4) examine the allocation of human or natural resources within societies:
- 5) apply social science concepts and theories to contemporary issues in a responsible manner.

Credit Hours 6 (in 2 disciplines)

Courses

- * Anth 210 Cultural Anthropology, 3 credits
- * Anth 220 Physical Anthropology, 3 credits Econ 201 Principles of Microeconomics, 3 credits Econ 202 Principles of Macroeconomics, 3 credits
- * Geog 200 Introduction to Human Geography, 3 credits
- * Geog 210 World Geography, 3 credits Geog 212 Geography of North America, 3 credits Geog 219 Geography of South Dakota, 3 credits HDCF 141 Individual and the Family, 2 credits HDCF 210 Lifespan Human Development, 3 credits Hist 151/152 American History, 3 credits each PolS 100 American Government, 3 credits PolS 102 American Political Issues, 3 credits
- * PolS 165 Political Ideologies, 3 credits PolS 210 State and Local Government, 3 credits
- * PolS 253 Current World Problems, 3 credits Psyc 101 General Psychology, 3 credits Psyc 102 Introduction to Psychology, 4 credits Soc 100 Introduction to Sociology, 3 credits
- * Soc 150 Social Problems, 3 credits
- * Soc 240 Sociology of Rural America, 3 credits Soc 250 Marriage and the Family, 3 credits

GOAL #4:

Students will understand and appreciate the human experience through arts and humanities.

Criteria

Courses in History, Literature, Philosophy, Religion, non-English languages, Art, Music and Theater meeting this goal will require students to:

- develop knowledge of the range of values, beliefs, and ideas embodied in the the human experience;
- understand and interpret basic concepts and theories of the humanities and arts;
- develop creative sensitivity and aesthetic understanding,
 OR
- 4) understand and interpret formal and stylistic elements of the literary or fine arts,

OR

demonstrate foundational competency in reading, writing, and speaking a non-English language.

Credit Hours 6

(in 2 disciplines or in a sequence of modern language courses)

Courses

Art 111/112 Drawing I & II, 3 credits each Art 121 Design I, 3 credits

Art 123 Three Dimensional Design, 3 credits

- * ArtH 100 Art and Design Appreciation, 3 credits
- * ArtH 211/212 Survey of World Art & Architecture/Western Traditions in Art & Architecture, 3 credits each Engl 210 Introduction to Literature, 3 credits
- * Engl 211/212 World Literature I & II, 3 credits each
- * Engl 221/222 English/British Literature I & II, 3 credits each Engl 241/242 American Literature I & II, 3 credits each
- * Engl 248 Women in Literature, 3 credits

- * Engl 250 Literature of Diverse Cultures, 3 credits
- * Engl 256 Literature of the American West, 3 credits Engl 268 Literature, 3 credits
- * Fren 101/102 Introductory French I & II, 4 credits each
- * Germ 101/102 Introductory German I & II, 4 credits each
- * Hist 121/122 History of Western Civilization I & II, 3 credits each
- * Lak 101/102 Introductory Lakota I & II, 4 credits each Mus 100 Music Appreciation, 2 credits
- * Mus 130/131 Music Literature I & II, 2 credits each (*I only)
- * Mus 201 History of Country Music, 3 credits
- * Mus 203 Blues, Jazz, & Rock, 3 credits Mus 230/231 Music Literature and History III & IV, 2 credits each

Phil 100 Introduction to Philosophy, 3 credits

Phil 200 Introduction to Logic, 3 credits

- * Phil 215 Introduction to Social/Political Philosophy, 3 credits
- * Phil 220 Introduction to Ethics, 3 credits
- * Rel 213 Introduction to Religion, 3 credits Rel 224 Old Testament, 3 credits Rel 225 New Testament, 3 credits
- * Rel 237 Religion in American Culture, 3 credits
- * Rel 250 Introduction to World Religion, 3 credits RTVF 160 Introduction to Film, 3 credits
- * Span 101/102 Introductory Spanish I & II, 4 credits each Thea 100 Introduction to Theatre, 3 credits Thea 131 Acting, 3 credits

*Course meets requirement for Goal #7 Cultural Diversity.

GOAL #5:

Students will understand and apply fundamental mathematical processes and reasoning.

Criteria

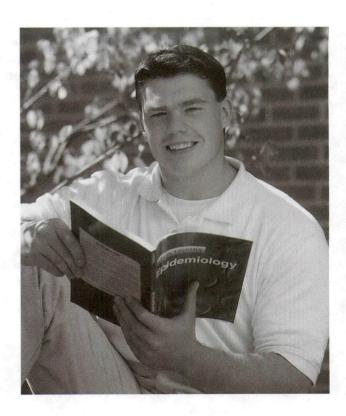
Courses meeting this goal will require students to:

- use mathematical symbolism and mathematical structure to model and solve problems;
- 2) communicate in mathematical terms;
- order and analyze quantitative information to make judgements of real world situations.

Credit Hours 3

Courses

Math 102 College Algebra, 3 credits Math 113 Algebra and Trigonometry, 5 credits Math 143 Finite Math, 3 credits Any math course with 102 as a prerequisite



GOAL #6:

Students will understand the fundamental principles of the natural sciences and apply scientific methods of inquiry to investigate the natural world.

Criteria

Courses in Biology, Chemistry, Physics, Earth Science, and Physical Geography meeting this goal will require students to:

- 1) participate in scientific inquiry in a laboratory experience;
- 2) gather and critically evaluate data;
- demonstrate an understanding of fundamental principles of natural sciences;
- 4) explore the development of ideas through time;
- 5) understand the implications science has for the modern world.

Credit Hours 6

Courses

Bio 101/102 Biology Survey I/Laboratory, 3 credits

Bio 103/104 Biology Survey II/Laboratory, 3 credits

Bio 151/152 General Biology I/Laboratory, 4 credits

Bio 153/154 General Biology II/Laboratory, 4 credits

Bio 200/200A Biological Diversity/Laboratory, 4 credits

Bot 201/202 General Botany/Laboratory, 3 credits

Chem 100/100A World of Chemistry I/Laboratory, 4 credits

Chem 102/102A World of Chemistry II/Laboratory, 4 credits

Chem 106/107 Chemistry Survey/Laboratory, 4 credits

Chem 108/109 Organic and Biochemistry/Laboratory,

5 credits

Chem 112/113 General Chemistry I/Laboratory, 4 credits

Chem 114/115 General Chemistry II/Laboratory, 4 credits

Chem 120/121 Elementary Organic Chemistry/Laboratory,

3-4 credits

Geog 131/131A Physical Geography I/Laboratory, 4 credits

Geog 132/132A Physical Geography II/Laboratory, 4 credits

Phys 101/102 Survey of Physics/Laboratory, 4 credits

Phys 111/112 Introduction to Physics I/Laboratory, 4 credits

Phys 113/114 Introduction to Physics II/Laboratory, 4 credits

Phys 185 Introduction to Astronomy, 3 credits

Phys 211/212 University Physics I/Laboratory, 4 credits

Phys 213/214 University Physics II/Laboratory, 4 credits

PS 213/213A Soils/Laboratory, 3 credits

PS 243/244 Geology/Laboratory, 4 credits

GOAL #7:

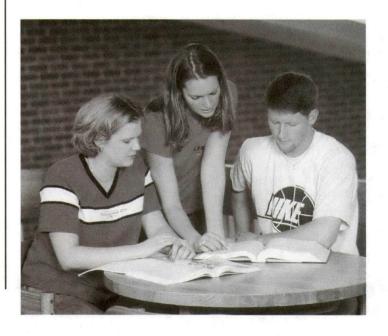
Students will understand and be sensitive to cultural diversity so that they are prepared to live and work in an international and multicultural environment.

Criteria

Courses meeting this goal require students to:

- explore global issues and/or diverse philosophical, ethical, and religious views;
- 2) explore social and aesthetic values of different cultures;
- 3) examine the contributions of different cultures from a historical perspective.

Credit Hours Students are required to select 6 credit hours that provide a global and/or cultural diversity perspective. These 6 credit hours can be chosen from those completed to satisfy the social science and humanities/arts requirements listed above where the courses substantially address cultural diversity and/or global issues. Courses in the social sciences (Goal #3) and humanities/arts (Goal #4) meeting this goal are indicated by an asterisk.



SYSTEM GENERAL EDUCATION CORE FOR ASSOCIATE DEGREE PROGRAMS

1. Associate of Arts Degree

These programs require the same 30 credits of System General Education as required in the Baccalaureate Degree.

2. Associate of Science Degree

The general education component of all Associate of Science programs shall consist of a minimum of 15 credit hours as specified in Board of Regents policy 2:7(3).

Required Courses from the System General Education Core List for Associate of Science degrees:

Composition (Goal #1), 3 credits Social Science (Goal #3), 3 credits Humanities and Fine Arts (Goal #4), 3 credits Mathematics (Goal #5), 3 credits Natural Science (Goal #6), 3 credits (6 recommended)

POLICIES APPLICABLE TO SYSTEM GENERAL EDUCATION CORE

Guidelines for Baccalaureate and Associate Degrees

- The System General Education Requirements will be effective for students entering in Fall 1999.
- Only 100/200 level courses will be included. Exceptions based on student background may be made utilizing the established university academic appeal process.
- Honors courses equivalent to identified System General Education courses will meet the System requirements.
- 4. Transfer: System General Education Requirements successfully completed at the sending South Dakota Regental institution will be accepted towards meeting these requirements at the receiving South Dakota Regental institution.

Additional Guidelines for Baccalaureate Degrees

1. The 15 hours of System General Education Requirements specified below must be completed within the first 48 hours as preparation for the Proficiency Examination:

Course Requirements	Credit Hour
Composition (Goal #1)	3
Social Science (Goal #3)	3
Humanities and Fine Arts (Goal #4)	3
Mathematics (Goal #5)	3
Natural Science (Goal #6)	3
Total	15

- 2. Transfer students with more than 18 credit hours entering from outside the Regental System must complete the above specified 15 credit hours of general education within the first 30 credit hours taken at a Regental institution.
- 3. All System General Education Requirements (30 credits) must be completed within the first 64 hours. A list of program exceptions at SDSU are:

Agricultural and Biosystems Engineering

Civil Engineering

Electrical Engineering

Mechanical Engineering

Engineering Physics-Mechanical Engineering Emphasis and Electrical Engineering Emphasis

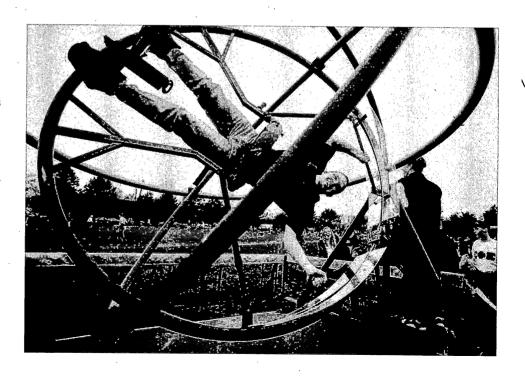
Physics-Professional Physics Emphasis and Science Teaching Emphasis

Nutrition and Food Science-Dietetics Option

Additional Guidelines for Associate Degrees

1. The 15 hours of System General Education Requirements specified below must be completed within the first 32 hours as preparation for the Proficiency Examination:

Course Requirements	Credit Hours
Composition (Goal #1)	3
Social Science (Goal #3)	3
Humanities and Fine Arts (Goal #4)	3
Mathematics (Goal #5)	3
Natural Science (Goal #6)	3
Total	15



SDSU Institutional Graduation REQUIREMENTS (IGRs) FOR BACCALAUREATE DEGREE: 10 CREDITS

(Effective for new degree-seeking students Summer and Fall 2000 and later)

GOAL#1:

Students will recognize the value of a holistic approach to personal wellness.

Criteria:

Courses and/or approved educational experiences will emphasize and require students to:

- 1) articulate and demonstrate knowledge related to a personal wellness in physical, spiritual, and emotional dimensions;
 - 2) articulate and demonstrate knowledge related to personal wellness in social, intellectual, and occupational dimensions.

Credit Hours: Minimum of 2 credit hours

Courses:

GR 143 Mastering Lifetime Learning Skills, 2 credits Wel 100 Skills for Healthy Living, 2 credits

GOAL #2:

Students will broaden their understanding of structures and possibilities of the human community.

Criteria:

Courses and/or approved educational experiences will require students to:

- 1) recognize relationships which exist among ideas;
- 2) understand human characteristics, including the elements of responsibility and freedom, in spatial, temporal, behavior, cultural, and institutional contexts.

Credit Hours: Minimum of 2 credit hours

(credits different from those used for Goal #3 in the system-wide general education requirement)

Courses:

Air 101/102 Foundations of U.S. Air Force, 1 credit Air 201/202 Evolution of U.S. Air and Space Power, 1 credit

AIS 100 Introduction to American Indian Studies, 3 credits

Anth 421 Indians of America, 3 credits

Econ 301 Intermediate Microeconomics, 3 credits

Econ 302 Intermediate Macroeconomics, 3 credits

EurS 301 Topics in European Culture, 3 credits

Hist 467 American Foreign Relations, 3 credits

LAAS 302 Latin American Societies, 3 credits

Mil 101 Introduction to ROTC, 1 credit

Mil 102 Introduction to Leadership, 1 credit

Mil 201 Self/Team Development, 2 credits

Mil 202 Individual/Team Military Tactics, 2 credits

NFSH 111 Food and People, 3 credits

PolS 341 European Democratic Governments, 3 credits

PolS 343 Russian Politics, 3 credits

PolS 345 Canada, 3 credits

PolS 347 Latin American Politics, 3 credits

PolS 352 European Union, 3 credits

PolS 432 The American Presidency, 3 credits

PolS 435 Political Parties and Campaigns, 3 credits

PolS 438 The Legislative Process, 3 credits

Psyc 202 Advanced General Psychology, 3 credits

Psyc 306 Human Learning and Cognitive Behavior, 3 credits

Psyc 324 Psychology of Aging, 3 credits

Psyc 327 Child Psychology, 3 credits

Psyc 362 Theories of Personality, 3 credits

Psyc 366 Psychological Gender Issues, 3 credits

Psyc 441 Social Psychology, 3 credits

Psyc 451 Abnormal Behavior, 3 credits

Soc 340 Urban Sociology, 3 credits

Soc 350 Ethnic and Racial Groups, 3 credits

WL 430/430A Human Dimensions in Wildlife and

Fisheries/Laboratory, 4 credits

Other courses from the System General Education Core that can be used to meet this goal if the credits have not been used to meet a System General Education goal are as follows:

Anth 210 Cultural Anthropology, 3 credits

Anth 220 Physical Anthropology, 3 credits

Econ 201 Microeconomic Principles, 3 credits

Econ 202 Macroeconomic Principles, 3 credits

Geog 200 Introduction to Human Geography, 3 credits

Geog 210 World Regional Geography, 3 credits

Geog 212 Geography of North America, 3 credits

Geog 219 Geography of South Dakota, 3 credits

HDCF 141 Individual and the Family, 2 credits

HDCF 210 Lifespan Development, 3 credits

Hist 151 U.S. History to 1877, 3 credits

Hist 152 U.S. History since 1877, 3 credits

PolS 100 American Government, 3 credits

PolS 102 American Political Issues, 3 credits

PolS 165 Political Ideologies, 3 credits

PolS 210 State and Local Government, 3 credits

PolS 253 Current World Problems, 3 credits

Psyc 101 General Psychology, 3 credits

Psyc 102 Introduction to Psychology, 3 credits

Soc 100 Introduction to Sociology, 3 credits

Soc 150 Social Problems, 3 credits

Soc 240 Sociology of Rural America, 3 credits

Soc 250 Marriage, 3 credits

GOAL #3:

Students will understand what it is to be human and ways of expressing and understanding the human spirit.

Criteria:

Courses and/or approved educational experiences will emphasize understanding and modes of expressing ideas, creative processes, and critical human encounters. These may emphasize either ideas and attitudes expressed in words or thoughts and feelings expressed through the arts. These courses and/or approved educational experiences will require students to:

1) use fine arts to see, hear, and appreciate the importance of a discipline's creativity on the shared social fabric that holds a culture together, and to express their own creativity.

OR

use the humanities to gain an appreciation of the different ways in which people have attempted to understand and express the human condition.

Credit Hours: Minimum of 2 credit hours

(credits different from those used for Goal #4 in the systemwide general education requirement)

Courses:

Art 212 Figure Drawing, 3 credits

Art 231 Painting I, 3 credits

Art 241 Sculpture I, 3 credits

Art 251 Ceramics I, 3 credits

Art 281 Printmaking I, 3 credits

Danc 130 Fundamentals of Dance and Rhythm, 1 credit

Danc 240 Multicultural Dance Experiences, 1 credit

EurS 300 Topics in European Culture, 3 credits

Hist 401/Rel 401 History of Western Religious Thought, 3 credits

LAAS 301 Latin American Cultures, 3 credits

ML 134 Foreign Cultures, 3 credits

MuAp 100 Individual Instruction Voice, 1 credit

MuAp 110 Individual Instruction Keyboard, 1 credit

MuAp 120 Individual Instruction Woodwinds, 1 credit

MuAp 130 Individual Instruction Brass, 1 credit

MuAp 140 Individual Instruction Percussion, 1 credit

MuAp 150 Individual Instruction Strings, 1 credit

MuEn 100 University Women's Choir, 1 credit

MuEn 101 Concert Choir, 1 credit

MuEn 102 University Men's Choir, 1 credit

MuEn 110 Civic-University Orchestra, 1 credit

MuEn 120 Marching Band, 1-2 credits

MuEn 121 Symphonic Band, 1 credit

MuEn 122 Concert Band, 1 credit

MuEn 180 Jazz Ensemble, 1 credit

Phil 423/PolS 461 Political Philosophy, 3 credits

PolS 462/Phil 424 Modern Political Philosophy, 3 credits

Rel 238 Native American Religions, 3 credits

Rel 331 Feminism and Theology, 3 credits

Rel 360 Moral and Ethical Perspectives on Death and Dying, 3 credits

Rel 370 Philosophy of Religion, 3 credits

Rel 401/Hist 401 History of Western Religious Thought,

3 credits

Other courses from the System General Education Core that can be used to meet this goal **if the credits** have not been used to meet a System General Education goal are as follows:

Art 111 Drawing I, 3 credits

Art 112 Drawing II, 3 credits

Art 121 Design I, 3 credits

Art 123 Three Dimensional Design, 3 credits

ArtH 100 Art and Design Appreciation, 3 credits

ArtH 211 Survey of World Art and Architecture, 3 credits

ArtH 212 Western Traditions in Art and Architecture, 3 credits

Engl 210 Introduction to Literature, 3 credits

Engl 211 World Literature I, 3 credits

Engl 212 World Literature II, 3 credits

Engl 221 English Literature I, 3 credits

Engl 222 English Literature II, 3 credits

Engl 241 American Literature I, 3 credits

Engl 242 American Literature II, 3 credits

Engl 248 Women in Literature, 3 credits

Engl 250 Literature of Diverse Cultures, 3 credits

Engl 256 Literature of the American West, 3 credits

Engl 268 Literature; 3 credits

Fren 101 Introductory French I, 4 credits

Fren 102 Introductory French II, 4 credits

Germ 101 Introductory German I, 4 credits

Germ 102 Introductory German II, 4 credits

Hist 121 History of Western Civilization to 1650, 3 credits

Hist 122 History of Western Civilization since 1650, 3 credits

Lak 101 Introductory Lakota I, 4 credits

Lak 102 Introductory Lakota II, 4 credits

Mus 100 Music Appreciation, 2 credits

Mus 130 Music Literature and History I, 2 credits

Mus 131 Music Literature and History II, 2 credits

Mus 201 History of Country Music, 3 credits

Mus 203 Blues, Jazz and Rock, 3 credits

Mus 230 Music Literature and History III, 2 credits

Mus 231 Music Literature and History IV, 2 credits

Phil 100 Introduction to Philosophy, 4 credits

Phil 215 Introduction to Social/Political Philosophy, 3 credits

Phil 220 Introduction to Ethics, 3 credits

Rel 213 Introduction to Religion, 3 credits

Rel 224 Old Testament, 3 credits

Rel 225 New Testament, 3 credits

Rel 237 Religion in American Culture, 3 credits

Rel 250 World Religions, 3 credits

RTVF 160 Introduction to Film, 3 credits

Span 101 Introductory Spanish I, 4 credits

Span 102 Introductory Spanish II, 4 credits

Thea 100 Introduction to Theatre, 3 credits

Thea 131 Acting, 3 credits

GOAL #4:

Students will understand the fundamental principles of the sciences and apply scientific methods to investigate the natural world. Students will gain a more complete understanding of the scientific method and its applications through additional study.

Criteria:

Courses and/or approved educational experiences will require students to:

- 1) participate in scientific inquiry;
- 2) gather and critically evaluate data by current methods;
- 3) demonstrate an understanding of fundamental principles of natural sciences;
- 4) fully explore the development of ideas through time; and
- 5) understand the implication science has for the modern world

Credit Hours: Minimum 2 credit hours

(credits different from those used for Goal #6 in the systemwide general education requirements)

Courses:

Anth 220 Physical Anthropology, 3 credits

Bio 105 Human Biology, 3 credits

Micro 231/232 General Microbiology/Laboratory, 4 credits

NFSH 221 Survey of Nutrition, 3 credits

PS 103/103A Crop Production/Laboratory, 3 credits

Stat 281 Statistical Methods, 3 credits

WL 110 Environmental Conservation, 2 credits

WL 220 Introduction to Wildlife and Fisheries Management, 3 credits

Other courses from the System General Education Core that can be used to meet this goal if the credits have not been used to meet a System General Education goal, are as follows:

Bio 101/102 Biological Survey I/Laboratory, 3 credits

Bio 103/104 Biological Survey II/Laboratory, 3 credits

Bio 151/152 General Biology Laboratory, 4 credits

Bio 153/154 General Biology II/Laboratory, 4 credits

Bio 200/200A Biological Diversity/Laboratory, 4 credits

Bot 201/202 General Botany/Laboratory, 3 credits

Chem 100/100A World of Chemistry I/Laboratory, 4 credits

Chem 102/102A World of Chemistry II/Laboratory, 4 credits

Chem 106/107 Chemistry Survey/Laboratory, 4 credits

Chem 108/109 Organic and Biochemistry/Laboratory, 4 credits

Chem 112/113 General Chemistry I/Laboratory, 4 credits

Chem 114/115 General Chemistry II/Laboratory, 4 credits

Chem 120/121 Elementary Organic Chemistry/Laboratory, 3-4 credits

Geog 131/131A Physical Geography I/Laboratory, 4 credits

Geog 132/132A Physical Geography II/Laboratory, 4 credits

Phys 101/102 Survey of Physics/Laboratory, 4 credits

Phys 111/112 Introduction to Physics I/Laboratory, 4 credits

Phys 113/114 Introduction to Physics II/Laboratory, 4 credits

Phys 185 Introduction to Astronomy, 3 credits

Phys 211/212 University Physics I/Laboratory, 4 credits

Phys 213/214 University Physics II/Laboratory, 4 credits

PS 213/213A Soils/Laboratory, 2-3 credits

PS 243/244 Geology/Laboratory, 3-4 credits

GOAL #5:

Students will understand the fundamental relationship between the environment and society and the land-grant philosophy of stewardship.

Criteria:

Courses and/or approved educational experiences meeting this goal will emphasize characteristics of the Land Grant University mission and the relationship between society and the environment. These courses and/or approved educational experiences will require students to:

- 1) develop an ethic, a set of principles for wise use of the environment;
- 2) develop knowledge and skills to analyze the impact of individuals, families, communities, organizations or societies on their environment;
- 3) develop knowledge or skills related to the stewardship of land, air, water, and organisms.

Credit Hours: Minimum of 2 credit hours

Courses:

AgEc 421 Farming and Food System Economics, 3 credits

AgEc 479 Agricultural Policy, 3 credits

Anth 421 Indians of North America, 3 credits

Bio 311 Principles of Ecology, 3 credits

Bio 383 Bioethics, 4 credits

Eng 256 Literature of the American West, 3 credits

EnvM 275 Introduction to Environmental Science, 3 credits

GE 231 Technology and Society, 3 credits

Hlth/HSc 443 Public Health Science, 3 credits

Phil/Rel 332 Environmental Ethics, 3 credits

Phil 383 Bioethics, 4 credits

PS 362/362A Environmental Soil Management/Laboratory, 2-3 credits

Rang 205 Introduction to Range Management, 3 credits

Rang 215 Introduction to Integrated Ranch Management, 3 credits

Soc 340 Urban Sociology, 3 credits

WL 110 Environmental Conservation, 2 credits

WL 220 Introduction to Wildlife and Fisheries Management, 3 credits

Clarification of "Educational Experiences" Alternative

Educational Experiences (EdEx) are an option for meeting SDSU's IGRs. The Educational Experiences will parallel the guideline for credit which is that 45 hours of experience is needed per credit hour earned. Proposals describing Educational Experiences will be presented by departments and approved by the General Education Core Committee to assure that the criteria of the goals are being accomplished by the Educational Experiences. These Educational Experiences are not to be designed to meet the needs of an individual student, but rather to meet the needs of groups of students of a department/major, throughout the University.

SDSU Institutional Graduation Requirements for Associate Degree Programs

The SDSU Institutional Graduation Requirements (IGRs) do apply to Associate of Arts degree programs, but are not required in Associate of Science degree programs.

Fraction of Credits - Transfer Students

Transfer courses that are in the **core** areas should be met within a fraction of one credit of what is required in order for that core requirement to be considered met. For instance, if a student **transfers** in 5 1/3 credits of Social Science credit towards goal #3, that student will have met the 6 credit minimum for that goal. If only 5 credits or fewer

have been transferred, then the student must take additional credits from the list of Goal #3 courses in the University Catalog to equal the minimum of 6 credits that is required. Total credits toward graduation must include specific College requirements.

Information Technology Literacy (ITL) Requirement

Information technology literacy refers to the ability to locate information from multiple sources, to evaluate and select relevant portions of that information, and to organize, effectively use, and communicate the information in various formats.

SDSU has established the following goals and expectations in ITL for all graduates:

Goal 1:

Understand how information is defined and distributed:

Recognize categories of resources that are most relevant; Distinguish when to use electronic and when to use traditional resources;

Comprehend knowledge generation and publication.

Goal 2:

Locate information from a variety of sources:

Seek a variety of resources, both electronic and traditional; Select appropriate resources;

Appreciate the value of different types of resources.

Goal 3:

Develop skills in using information technologies:

Negotiate information networks effectively;

Apply emerging and traditional resources to academic work;

Communicate via e-mail and other electronic and traditional methods;

Use computers to support:

Problem solving

Data collection

Information management

Communications.

Presentations

Decision making

Goal 4:

Critically analyze and evaluate information:

Analyze and critically evaluate the resources of a search for:

Accuracy

Reliability

Relevance

Timeliness

Authority

Comprehensiveness

Distinguish among facts, viewpoints, interpretations and opinions

Goal 5:

Understand ethical, legal and sociopolitical aspects of information and its technologies:

Respect intellectual property rights and accurately cite references;

Apply principles of honesty in use of information; Use technology ethically and with respect for others.

You should consult your department regarding how these goals and expectations are accomplished within your specific program of study.

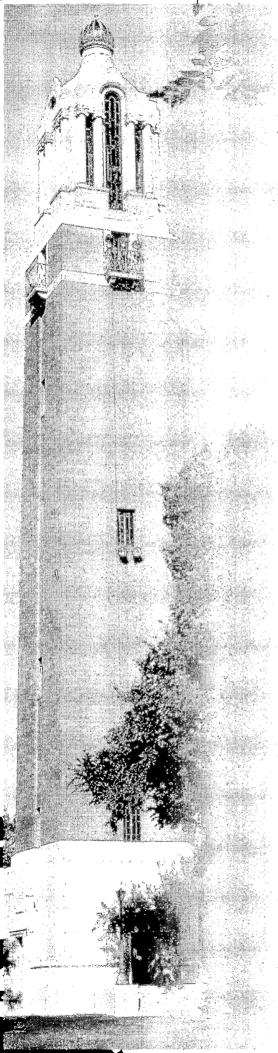
College and Major Field Requirements

Courses outlined under the college and major field curricula must be completed to the satisfaction of the head of the major department and college dean. Students in continuous attendance have the right to graduate under the catalog curriculum in effect at entry or any subsequent catalog until they graduate. However, necessary substitutions

and additional courses may be required to meet the standards of the major field at the time of graduation.

All requirements must be met under the same catalog.

Students who interrupt their college education for more than one year (two regular semesters-fall/spring) re-enter under the new bulletin.



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Degree Definitions

Associate Degree

An associate degree may be a two-year transfer degree that indicates the completion of a student's lower division general education requirements, or it may be a specialized degree designed to prepare a student for entry into a particular occupation upon the completion of the degree.

South Dakota State University provides a two year associate (A.S.) degree program in General Agriculture and (A.A.) in General Studies.

Bachelor's Degree

The bachelor's degree is the academic title conferred on a student by the University for satisfactory completion of a prescribed four to five year course of study. The bachelor's degree enables a student to acquire a certain amount of general learning and to also become proficient in a particular discipline or profession.

At SDSU the credits required for the bachelor's degree range from 128-136. The degrees offered are:

- Bachelor of Arts (B.A.)
- Bachelor of Science (B.S.)
- Bachelor of Science in Education (B.S.E.)
- Bachelor of Music Education (B.M.E.)

Master's Degree

In broad terms, the master's degree indicates that the recipient has mastered a program of advanced, specialized study in a particular field. Master's degrees may be designated as academic degrees designed to provide an introduction to scholarly activities and research, or professional master's degrees. SDSU offers M.Ed., M.A., and M.S. degrees.

Doctoral Degree

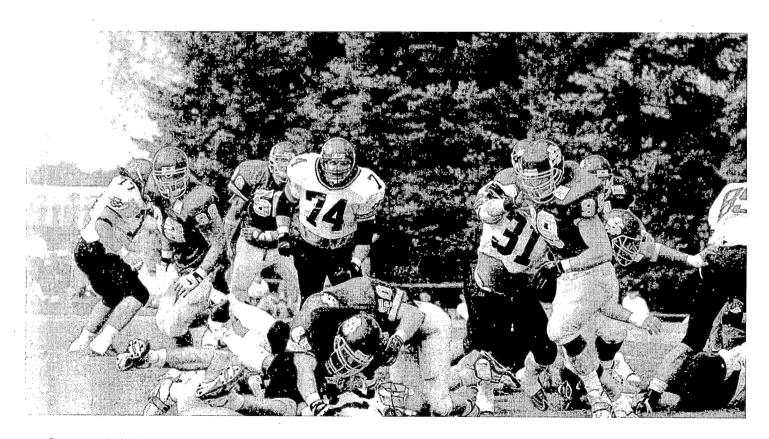
The Doctor of Philosophy (Ph.D.) program is designed to prepare a person to become a scholar, that is, to discover, integrate, and apply knowledge, as well as communicate and disseminate it. A well-prepared doctoral candidate will have developed the ability to understand and evaluate critically the literature of the field and to apply appropriate principles and procedures to the recognition, evaluation, interpretation, and understanding of issues, problems, and ethical questions at the frontiers of knowledge. SDSU offers the Ph.D. degree in these areas: Agricultural Engineering (joint with Iowa State University); Agronomy; Animal Science; Atmospheric, Environmental and Water Resources (joint with South Dakota School of Mines and Technology); Biological Sciences; Chemistry; and Sociology.

Major

An academic major within a degree program enables students to make an in-depth inquiry into a discipline or a professional field of study. It should be organized around a specific set of goals and objectives that are accomplished through an ordered series of courses, whose connections define an internal structure and whose sequence advances levels of knowledge and understanding.

Minor

An academic minor within a degree program enables a student to make an inquiry into a secondary discipline or field of study or to investigate a particular content theme. It too should be organized around a specific set of objectives or questions that are achieved through an ordered series of courses. Minors are intended to provide limited competency in the subject.



Degrees and Associated Majors

SDSU offers the following degrees. Listed below the degrees are the major areas of study.

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ıral Sociology (M.S.)	Grad	101, 191-1
ciology (E)(B.A., B.S., Ph.D., minor)	A&S	101, 191-1
General Sociology		
Human Services		
Human Resources	•	
Social Work		
anish (E)(B.A., minor)	A&S	93, 193-1
aching Minors	EDUC	102, 1
Biological Science General Science		$s = (1 + 1)^{k} + (1 + 1)^{k}$
Language Arts		and the state of the state of the
Physical Science		
	•	
Social Science		
Social Science ildlife & Fisheries Sciences (B.S., M.S.) omen's Studies (minor)		

PRE-PROFESSIONAL AREAS OF STUDY	ADMINISTERED BY	PAGE
Pre-Chiropractic (3-4 years)	GR	64. 75
Pre-Dental (4 years)	GR	64 78
Pre-Law (4 years)	GR	64.89
Pre-Medicine (4 years)	GR	64 91
Pre-Ministerial (4 years)	GR	64.93
Pre-Mortuary (1-2 years)	GR	64. 93-94
Pre-Occupational Therapy (2-4 years)	A&S	97
Pre-Optometry (2-4 years)	GR	64 97
Pre-Physical Therapy (4 years)	A&S	98
Pre-Physician Assistant (2 years)	GR	64. 98
Pre-Veterinary Medicine (2-3 years)	.ABS	102, 194-195

KEY TO UNITS ADMINISTERING INDIVIDUAL CURRICULUMS

A&S College of Arts and Science

ABS/Ag College of Agriculture and Biological Sciences, Agriculture Curriculum

ABS/BS College of Agriculture and Biological Sciences, Biological Science Curriculum

ENGR College of Engineering

EDUC College of Education and Counseling FCS College of Family and Consumer Sciences

GR College of General Registration

NURS College of Nursing
PHARM College of Pharmacy
Grad Graduate School

VPAA Vice President for Academic Affairs

* option (area within a major)

(E) Education curriculum available with these majors





Organizational Structure of South Dakota State University



Agriculture and **Biological** Sciences Agricultural Engineering

Arts and Science

Education and Counseling Engineering

Family and Consumer Sciences

General Registration Nursing

Pharmacy

Graduate Office of Sponsored **Programs**

and Biosystems Animal and Range Sciences ·Biology and

Microbiology Dairy Science Economics

·Horticulture, Forestry, Landscape and Parks

Plant Science

 Rural Sociology Veterinary

Science Wildlife and Fisheries Sciences

Army ROTC Air Force ROTC Chemistry and

Biochemistry Communication Studies and

Theatre •English •Modern

Languages Geography Health, Physical Education and Recreation

History Journalism and Mass Comm.

Music Philosophy and

Religion Political Science

 Psychology Visual Arts

Agricultural and Biosystems

·Counseling and Human Resource Development Educational Leadership •Teacher

Education

Engineering Computer Science Electrical Engineering Engineering Technology and Management • Mathematics

Engineering

Environmental

Civil and

and Statistics Mechanical Engineering Physics

Apparel Merchandising and Interior Design

Human Development, Consumer and

Family Sciences Nutrition, Food Science, & Hospitality

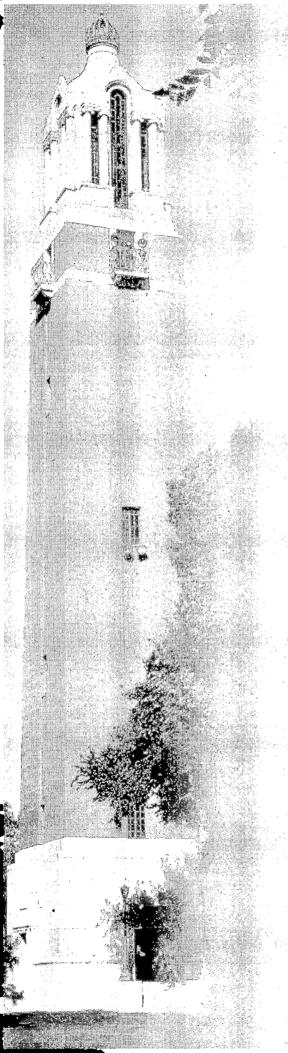
Graduate Nursing Nursing Student Services

Undergraduate Nursing

School and

Clinical Pharmacy Pharmaceutical Sciences





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Agriculture and Biological Sciences

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Introduction

The academic program in the College of Agriculture and Biological Sciences is two-fold: One deals with the fields of agriculture and the other biological sciences. A core curriculum is available in each of these two broad fields of endeavor. Both curricula lead to a Bachelor of Science degree.

Agricultural work is divided into four areas – academic programs, research, extension, and statewide services. Experiments and investigations for the benefit of agriculture are done in connection with problems of livestock, natural resources, field crops, veterinary science, horticultural crops, agricultural economics, dairy, landscape design, and mechanized agriculture. The results of research form the basis for classroom instruction, for extension work, and for a means of answering inquiries coming to the College. The Extension Service takes the work of instruction statewide by bringing results of research to every home.

Agriculture includes technical, professional, and business occupations dealing with producing, processing, and distributing farm products. The agricultural teachers, agricultural researchers, men and women who

assist the farmers with their complex needs, farmers and ranchers themselves, processors of farm products, and retailers are all part of modern day agriculture.

Work in biological sciences is mainly in the departments of Biology/Microbiology and Wildlife/Fisheries Sciences. The biological sciences are also an integral part of all departments that deal with plant and animal sciences. Many future microbiologists, wildlife biologists, plant and animal physiologists and geneticists will find the program in biological sciences a fruitful one to follow.

The biological sciences include all technical and professional occupations dealing with the basic fields of plant and animal life, collectively called biology. Such public agencies as departments of health, colleges and universities, park services, fish and wildlife agencies, etc., are all demanding educated individuals capable of assuming responsible positions in society.

Many graduates also go on to graduate and professional schools in areas such as medicine, veterinary science, dentistry, optometry, etc.

Departments/Units

Agricultural and Biosystems Engineering
(Ag Systems Technology)
Animal and Range Sciences
Biology and Microbiology
Biostress Center of Excellence
Chemistry and Biochemistry
Dairy Science

Economics
Horticulture, Forestry, Landscape and Parks
Plant Science
Rural Sociology
Veterinary Science
Wildlife and Fisheries Sciences

Agricultural Communications
Agricultural Experiment Station
Animal Disease Research & Diagnostic Lab
Cooperative Extension Service
Youth Development/4-H
Water Resources Institute

Biostress Center of Excellence

The **mission** of the Biostress Center of Excellence is to provide a coordinated focus on excellence in education for Agriculture and Biological Science undergraduates by using a series of selected courses, a multicultural or international experience, and a capstone activity. The Biostress Center of Excellence will prepare agriculture and biological science professionals to promote economic vitality and development, sustainable agriculture, environmental stewardship, and an improved quality of life for the people of South Dakota, the region, and beyond.

The Biostress Center will produce graduates possessing a mastery of communication and social skills with the appropriate technologies in the selected disciplines. Graduates of the Center will have developed and enhanced their skills in communication, public relations, team building and dynamics, leadership, technology transfer, critical thinking, and interpersonal relations to meet the demands of the 21st Century work environment.

Degrees Offered

Associate of Science
Bachelor of Science in Agriculture
Bachelor of Science in Biological Science

Master of Science*
Doctor of Philosophy*

* Graduate degrees are offered in collaboration with the Graduate School. For details, see the Graduate Bulletin.

Accreditations/Reviews

American Association of Veterinary Laboratory Diagnosticians (AAVLD) American Society of Agricultural Engineering (ASAE) Cooperative State Research, Education, and Extension Service (CSREES)

Programs

Most students in the College of Agriculture and Biological Sciences will be required to take basic core courses. The greater share of these courses should be taken during the first and second years of college.

Freshmen may enter these curricula without specifying a major. You, however, should make your major and option choice by the last semester of the sophomore year. The purposes, objectives, and requirements of various majors and options are outlined in the discussions under the various departments. If at any time you desire a change in major and/or option, you should report to the Director of Academic Programs for your adviser reassignment.

You must complete a minimum of 25 semester credit hours in courses numbered 300 or above to qualify for the B.S. degree. Math 224-225 Calculus II and III may be counted as five credits toward the total

At the discretion of various departments a minimum of 24 semester credit hours shall constitute a major; 16 credits a minor.

The core curricula which follow include the overall system general education, college, and university requirements. You should make every effort to complete these requirements as early as possible in the four-year program.

Agriculture and Biological Sciences Curricula		
Major Field	Curriculum	Department Administering
Agricultural Business	Agriculture	Economics
Agricultural Economics	Agriculture	Economics
Agricultural Education	Agriculture	Director of Academic Programs
Agricultural Journalism	Agriculture	Director of Academic Programs
Agricultural Systems Technology	Agriculture	Agricultural and Biosystems Engineering
Agronomy	Agriculture	Plant Science
Animal Science	Agriculture	Animal and Range Sciences
Biology	Biological Science	Biology and Microbiology
Dairy Manufacturing	Agriculture	Dairy Science
Dairy Production	Agriculture	Dairy Science
Environmental Management	Biological Science	Biology and Microbiology
General Agriculture	Agriculture	Director of Academic Programs
Horticulture	Agriculture	Horticulture, Forestry, Landscape and Parks
Landscape Design	Agriculture	Horticulture, Forestry, Landscape and Parks
Microbiology	Biological Science	Biology and Microbiology
Park Management	Agriculture	Horticulture, Forestry, Landscape and Parks
Pre-Veterinary Science		Veterinary Science
Range Science	Agriculture	Animal and Range Sciences
Wildlife and Fisheries Sciences	Biological Science	Wildlife and Fisheries Sciences

Agriculture and Biological Sciences Curricula

Core Curriculum in Agriculture

Leading to the Bachelor of Science degree

Course	Credits
SDSU Core: Goal 1**, Wellness, page 39	2
Communications (total 11 cr)	_
Engl 101* & 201*, Composition I and II	6
SpCm 101-101A*, Fundamentals of Speech and Lab	3
Communication elective***	2
Social Science (Total 9 cr.)	
Econ 201*, Microeconomics Principles or	
Econ 202*, Macroeconomics Principles	3
Soc 100*, Introduction to Sociology or	
Soc 150*, Social Problems, (G), or	
Soc 240*, Sociology of Rural America, (G), or	
Anth 210*, Cultural Anthropology, (G)	3
SDSU Core: Goal 2**, Human Community, page 39	3
(also meets Ag-Bio College Social Science requirement)	
Gen Ed Humanities and Fine Arts*, pages 35-37, (G)	6
SDSU Core: Goal 3**, Human Spirit, page 40	2
Science & Mathematics (total 17 cr)	
Chemistry*, excluding Chem 101	4
Math 102*, College Algebra, or	
Math 113*, Algebra & Trigonometry	3-5
Physics*, excluding Phys 185	4
Biological Science	3
Biological Science	1-3
SDSU Core: Goal 5**, Stewardship, page 41	2
Group 1 Courses in Ag (See list following)	11
Departmental and Option Requirements &	
General electives	70
Total Hours for Graduation	128

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- *South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

***Communications elective to be selected from the following:

Engl 379, Technical Communication

MCom 210, Newswriting and Reporting

MCom 313, Publicity Methods

MCom 315, Magazine Writing and Production

MCom 331, Television Production

SpCm 201, Interpersonal Communication

SpCm 215, Public Speaking

SpCm 334, Discussion

**** Most department curricula will have specific requirements in this area, but for those which do not, the courses should be selected from the fields of Biology, Botany, Chemistry, Entomology, Geology, Mathematics, Microbiology, Physics, Plant Pathology, Zoology and Wildlife and Fisheries Sciences (Ornithology, WL 363 and Ichthyology, WL 367). Courses in Group I which are of a basic nature, PS 305, PS 223, cannot be counted toward this requirement unless they are over and above the 11 credit minimum for Group I courses.

Group I Courses in Agriculture

A minimum of 11 credits from at least four courses listed below must be completed. Some departments require all or specific courses, while others leave the selection entirely to the student and the adviser.

Course Credi	ite
AgEc 271, Farm & Ranch Management	
AgEc 354, Agricultural Marketing & Prices	
AS 101, Introduction to Animal Science	
AS 233, Applied Animal Nutrition	
AS 241, Meat: Production to Consumption	. 3
AST 202, Agricultural Mechanics	. 2
AST 213, Agricultural, Industrial & Outdoor Power	. 3
AST 262, Environmental Safety and Society	. 2
AST 333, Soil & Water Mechanics	. 3
AST 342, Electricity for Farm & Home	
DS 130, Introduction to Dairy Science	
DS 231, Dairy Foods	. 3
Ho 111, Introduction to Horticulture	
La 201, Introduction to Landscape Design	. 3
PR 101, Parks and Society	. 3
PS 103, Crop Production	. 3
PS 213, Soils	
PS 223, Principles of Plant Pathology	. 3
PS 307, Insect Pest Management or	. 3
PS 305, General Entomology	
Rang 205, Introduction to Range Management	. 3
WL 110, Environmental Conservation	. 2

Three options are possible under the core in Agriculture. These options are Business, Science, and Production.

Business Option

For students who plan to enter any of the business phases of agriculture, i.e., sales, administration, public relations, technical advances, etc. Those interested in farming or ranching might also consider this option since these activities are becoming significant business enterprises. Students selecting this option will complete the general requirements listed in the College Core for Agriculture plus the following requirements to complete their work for a Bachelor of Science degree. The more specific requirements are listed under the appropriate option in each departmental curriculum.

Course	Credits
Acct 210, Principles of Accounting I	3
BAdm 360, Organization and Management	3
Econ 201, Microeconomics Principles	3
Econ 202, Macroeconomics Principles	3
Business electives*	12

*The business electives must be chosen from the following courses:

Acct 211, Principles of Accounting II

AgEc 354, Agricultural Marketing & Prices

BAdm 310, Business Finance

BAdm 350, Legal Environment of Business and Contracts

BAdm 351, Business Law I

BAdm 380, Personal Finance

Econ 330, Money and Banking Econ 370, Marketing

Econ 476, Marketing Research Stat 281, Statistical Methods I

Science Option

The student who pursues a strong emphasis in the physical and biological sciences will be more able to cope satisfactorily with rapidly occurring scientific advances. This option will also place you in a good position to do graduate work in most agricultural fields. Students majoring in this option will complete the general requirements listed in the College Core in Agriculture plus the following additional requirements. The more specific requirements are listed under the appropriate option for each departmental curriculum.

Mathematics, Chem or Physics	
Biological Science* see approved listing9	

* Courses must be selected from at least 2 of the following areas: Biology, Botany, Entomology, Microbiology, Plant Pathology, Wildlife and Fisheries Sciences, and Zoology.

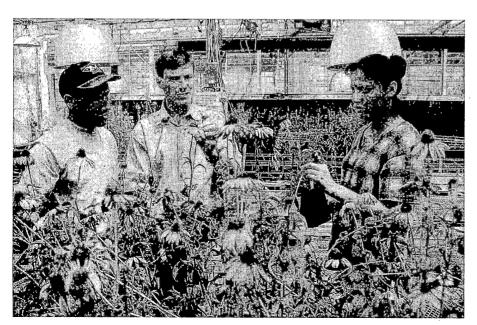
Production or Technical Option

The student who plans to return to the farm, do extension work, or serve as a fieldperson for breed associations and crop improvement associations will find this the logical option. This option also serves the student well who plans to enter any of the areas of production, such as dairy herd supervisor, greenhouse operator or into the various federal and state agencies upon graduation. No further courses beyond the General Core for Agriculture are required by the college. The more specific requirements beyond the core are listed under the appropriate option in each departmental curriculum.

Core Curriculum in Biological Science

Leading to the Bachelor of Science degree

Course SDSU Core: Goal 1**, Wellness, page 39	Credits
Communications (total 11 cr.)	
Engl 101* & 201*, Composition I and II	6
SpCm 101-101A*, Fundamentals of Speech and Lab	3
Communication elective***	_
Social Science (total 9 cr.)	
Econ 201*, Microeconomics Principles or	
Econ 202*, Macroeconomics Principles	3
Soc 100*, Introduction to Sociology or	
Soc 150*, Social Problems, (G) or	
Soc 240*, Sociology of Rural America, (G) or	
Anth 210*, Cultural Anthropology, (G)	3
SDSU Core: Goal 2**, Human Community, page 39	3
(also meets Ag-Bio College Social Science requirement)	
Gen Ed Humanities and Fine Arts*, pages 35-37, (G)	6
SDSU Core: Goal 3**, Human Spirit, page 40)	2



Biological Science (total 12-15 cr)
Required:
Bio 101-102*, Biology Survey I and Lab or
Bio 151-152*, General Biology I and Lab3-4
Bio 103-104*, Biology Survey II and Lab or
Bio 153-154*, General Biology II and Lab3-4
Select two courses from the following:
Bio 311, Principles of Ecology
Bio 343-343A, Cell Biology and Lab3
Bio 371, Genetics
Micr 231-232, General Microbiology and Lab4
Other Science & Mathematics (total 21-22 cr)
Chemistry, excluding Chem 101
Math 113* or Math 102* and Math 120 or
Math 123* or Math 222*5-6
Physics, excluding Phys 1854
Departmental Requirements & General electives59-63
Total Hours for Graduation

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

***Communications Elective to be selected from the following:

Engl 379, Technical Communication

MCom 210, Newswriting and Reporting

MCom 313, Publicity Methods

MCom 315, Magazine Writing and Production

MCom 331, Television Production

SpCm 201, Interpersonal Communication

SpCm 215, Public Speaking SpCm 334, Discussion

Activities

Nationally known agricultural fraternities for men, Alpha Gamma Rho and Farmhouse, and for women, Ceres, are organized on campus and provide living accommodations. During the first semester of the sophomore year, students with outstanding scholarship, leadership, and character may be initiated into Alpha Zeta, Sigma Alpha, and Beta Beta Beta honor societies. Gamma Sigma Delta, an agricultural honor society for seniors with high academic ability, also has an SDSU chapter.

The largest extracurricular activity involving students in the College

of Agriculture and Biological Sciences, with participation open to all university students, is the Little International. A two-day function patterned after the International Livestock Exposition in Chicago, Little I is held each year during late winter or early spring. Much experience is gained by students in planning, producing, and managing this event.

Most departments in the College of Agriculture and Biological Sciences have one or more student organizations. You are encouraged to become involved with at least one of these organizations, especially that which is most closely associated with your major field.

Arts and Science

Herbert Cheever, Dean Allen Branum, Assistant Dean NFA 251, 605-688-4723 Box 2275A, Brookings, SD 57007-0094

Introduction

The College of Arts and Science serves two significant functions within the University. It provides instruction in the university core requirement for a liberal education as well as education in specific disciplines.

A liberal education gives students the means to test ideas, beliefs, and facts. It exposes them to a variety of academic disciplines that will broaden and deepen their perspectives and enable them to continue the learning process as educated citizens. Students study the ways of thinking and expression that are intrinsic to the arts, humanities, social sciences, and natural sciences. Through this, students are educated in

the scientific method, critical thinking, analysis, synthesis, and cogent expression. They are helped to develop intellectual skills, humanistic understanding, and aesthetic appreciation. Such an education increases the usefulness of career planning and specialization by laying a foundation for lifelong values.

The fifteen departments in the College of Arts and Science offer major and/or minor programs leading to one of three undergraduate degrees. In addition, four departments in other colleges offer majors and/or minors in programs administered through the College of Arts and Science.

Departments

Aerospace Studies Chemistry and Biochemistry Communication Studies and Theatre English Geography Health, Physical Education and Recreation History Journalism and Mass Communication Military Science Modern Languages Music Philosophy and Religion Political Science Psychology Visual Arts

Degrees Offered

Associate of Arts Bachelor of Arts Bachelor of Music Education Bachelor of Science Master of Arts* Master of Science* Doctor of Philosophy*

* Graduate degrees are offered in collaboration with the Graduate School. For details, see the Graduate Bulletin.

Accreditations

American Chemical Society (ACS)
Accrediting Council on Education in Journalism and Mass Communication (ACEJMC)
National Athletic Training Association (NATA)
National Association of Schools of Music (NASM)

Programs

Degree Requirements

The Bachelor of Science, Bachelor of Arts, and Bachelor of Music Education degrees are offered by the Arts and Science College. The University General Education requirements, pages 35-37, and SDSU Core requirements, pages 39-41, must be taken by all students. Specific requirements for each degree also include:

 * Bachelor of Science students in the Arts and Science College must complete at least 6 credits from the General Education natural science list, pages 35-37. A total of 14 science credits must be taken with 6 of those credits being biological science (listed courses, pages 39-41 with prefixes of Bio, Bot, PS, Micr, NFSH, or WL) and 8 credits of physical science (listed courses, pages 39-41 with prefixes of Chem, Phys, or Geog). Students may count 4 credits of Math courses (Math prefix, listed pages 35-37) that are in addition to the Board of Regents General Education requirement of 3 credits toward the physical science requirement.

Bachelor of Arts

Modern Language* (include 201, 202 in one language)	(5
Human Spirit (SDSU Core, Goal 3, p. 40) from	A Section 1	
discipline other than a modern language)		5

* International students whose native language is not English may substitute 14 credits in "American Culture" courses for the modern language requirement. These courses in the humanities and social sciences are in addition to the normal B.A. requirements. Students must visit with the Assistant Dean of the College of Arts and Science for permission to follow this option.

Bachelor of Music Education

Hist 368, History of the Ar	nerican Indians	or .			
Anth 421, Indians of No					 3
Soc 150, Social Problems			 	• • • • • •	 3

Secondary Education Courses

Students planning to teach at the high school level should start taking professional education courses during their sophomore year. Students must apply for admission to the supervisor of student teaching before being admitted to the education sequence. (See College of Education and Counseling for further details.)

Additional Requirements

All general university requirements must be met to qualify for the bachelor's degrees in the College of Arts and Science. In addition, the following special requirements and rules have been established for all graduates of the College of Arts and Science:

 The requirements of one of the College of Arts and Science departmental majors must be met. Specific requirements are listed under each department. Courses taken in the major may be used to fulfill university core requirements if the department does not state otherwise.

2. 33 semester credits must be upper division (300 and above).

Activities

A variety of activities, including many extracurricular activities, are administered within the College of Arts and Science.

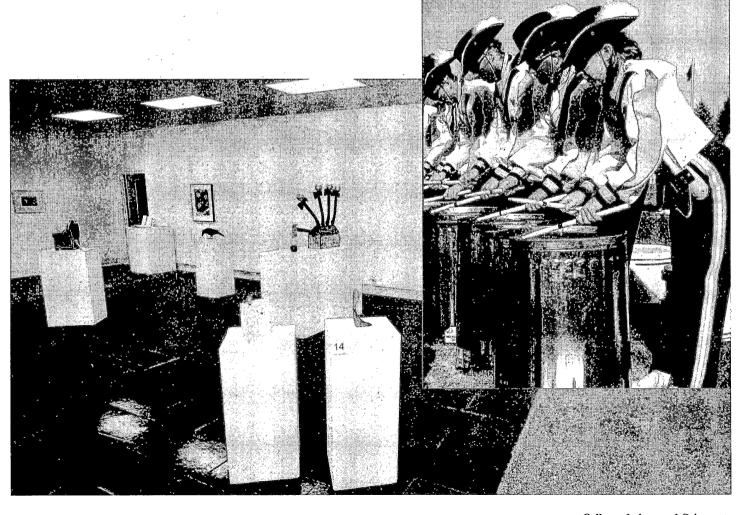
Dramatics and Forensics. The Communication, Studies and Theatre Department supervises a forensics program in debate, extempore speaking, oral interpretation, and oratory. State University Theatre presents a program of major and experimental productions each year. During the summer a season of plays in repertory are given by the Prairie Repertory Theatre in Madison and Brookings.

Music Groups. The Music Department sponsors a variety of vocal and instrumental groups. Membership may be by audition, arranged with the appropriate director, and is open to all University students regardless of major. Credit can be awarded for participation.

Choral: Concert Choir, Statesmen (Men's Chorus), University Women's Choir, Opera Workshop, and Madrigal.

Instrumental: Civic/University Symphony Orchestra, Marching Band (The "Pride of the Dakotas"), Pep Bands, Symphonic Band, Concert Band, Jazz Ensembles and various Percussion, Woodwind & Brass small ensembles.

The Ritz Art Gallery. The Ritz Gallery sponsors an annual program of professional and student exhibitions, including the Juried Student Exhibition which is open to all SDSU students.



Education and Counseling

Dee Hopkins, Dean

Wen 108, 605-688-4321 Box 507, Brookings, SD 57007 e-mail: Dee_Hopkins@sdstate.edu

Introduction

The College of Education and Counseling offers programs leading to initial certification, continuing growth, and professional development for teachers, administrators, and counselors. The College designs and teaches its courses to promote student construction and generation of knowledge that will be useful to them in their lives and in their professional world.

Governance Structure

The College of Education and Counseling is the governance unit within SDSU that is primarily responsible for the preparation of teachers and other professional education personnel. All professional education programs are organized, unified, coordinated, monitored, and governed by the unit. The Dean of the College of Education and Counseling, who also serves as Director of Teacher Education, reports directly to the Vice President for Academic Affairs and is officially recognized as having decision-making responsibility and authority for the overall administration and operation of the unit. In this governance, the Dean is assisted by three departments and the Teacher Education Faculty which consists of SDSU faculty across campus who teach professional education courses.

Mission

The mission of the College of Education and Counseling is to help its students construct knowledge, skills, and attitudes fundamental to becoming competent and developing professionals in a pluralistic and democratic society.

The Constructivist Framework

Faculty of the College of Education and Counseling have established Constructivism as a unifying framework. Constructivism holds that:

- Knowledge is constructed. Individuals and groups construct their understandings of the world about them.
- Learning is an active process of constructing knowledge. A learner's
 past knowledge and experiences strongly influence the construction
 of new knowledge.
- Teaching well demands learner-centered instruction compatible with the learning process. Students need active involvement with ideas so they can construct "generative" knowledge useful throughout life.

Objectives

- 1. Prepare students to teach in middle and secondary schools.
- 2. Provide for the continuing growth of teachers, school administrators, counselors, and other school service personnel through summer school sessions and off-campus courses.
- 3. Provide course work at the graduate level designed for school administrators, counselors, classroom teachers, specialized school workers, and related occupations.
- Cooperate with the South Dakota Department of Education and Cultural Affairs in public school curriculum revision, in-service education, and educational research.
- Cooperate with professional education, administration, and counseling organizations in advancing the welfare of education in the state.
- Organize and conduct conferences and workshops for the improvement of education, administration, and counseling in South Dakota.
- 7. Provide consultant services to schools and agencies of the state.

Preparation for Teaching

Individuals considering a career in education should have personal attributes and interpersonal skills appropriate for working with people. It is also essential that these individuals have an adequate general education background, usually attained in the first two years of college, along with a major in the subject they expect to teach.

In addition, it is recommended that coursework in subjects outside of the major be pursued. Many teachers are required to teach in more than one area of specialization, therefore, additional coursework, along with the major, will enhance their preparation.

Expertise in directing one or several extra-curricular activities may also be beneficial.

Students should see their education advisers early in order to plan the necessary coursework.

Departments

Counseling and Human Resource Development Educational Leadership Teacher Education

Degrees Offered

Bachelor of Science in Education Career and Technical Education Master of Education* Master of Science*

Teacher preparation is also available at the baccalaureate level. The degree is earned in a subject matter discipline with teacher education as second field.

^{*} Graduate degrees are offered in collaboration with the Graduate School. For details, see the Graduate Bulletin.

Accreditations

National Council for the Accreditation of Teacher Education Programs (NCATE) Council for Accreditation of Counseling and Related Educational Programs (CACREP) South Dakota Department of Education and Cultural Affairs

Programs

The College of Education and Counseling's chief undergraduate purpose is teacher education in the following areas: Agricultural Education, Art, Biology, Chemistry, Computer Science, Economics, English, Family and Consumer Sciences Education, Journalism, Modern Language – German and Spanish, Geography, Health and Physical Education, History, Mathematics, Music – Instrumental and Vocal, Physics, Political Science, Psychology, Sociology, Speech, and Career and Technical Education.

The Graduate Programs in Education are designed to provide professional preparation beyond the Bachelor's degree. The programs include the following options:

- 1. M.Ed. Curriculum and Instruction
- 2. M.Ed. Educational Administration
- 3. M.S. Counseling and Human Resource Development

For further information consult the Graduate Bulletin.

For a statement of specific requirements for the different administrator's certificates, the student should write the South Dakota Department of Education and Cultural Affairs or consult with the Dean of the College of Education and Counseling.

Career and Technical Education

The Bachelor of Science in Career and Technical Education prepares students to teach in high school, multi district, or post secondary vocational programs. People who have completed a technical specialty at one of the area's technical schools, or have occupational experience, or plan to complete a technical specialty at SDSU are eligible for this program. To attain certification, students must meet the certification requirement of the State Department of Education and Cultural Affairs. Individuals completing the Aviation specialty must meet FAA requirements.

Many students who enroll in this program currently teach technical education but do not hold a baccalaureate degree. Classes are offered through a combination of delivery methods including on-campus, off-campus, telecommunications and via the Rural Development Telecommunications Network (RDTN). For more information please contact the undergraduate department of teacher education.

Admission to K-12 Teacher Education

(In 22 various subjects)

The coursework for teacher education is divided into three professional semesters. In addition, once one has finished the professional sequence, he or she must be recommended for certification to teach in South Dakota. The requirements for each are as follows:

Admittance into Professional Semester I:

In order to register for the two courses of Professional Semester I, a student must be at least a sophomore either at the beginning or end of the semester in which he or she is taking the Professional Semester I courses.

Admittance into Professional Semester II:

Students admitted into Professional Semester II are considered members of the Teacher Education Program and are classified as "Education Students." In order to achieve this status, a student must have:

- 1. achieved a sophomore status (32 credit hours) at the University,
- 2. completed Professional Semester I with grades of "C" or better and be recommended by PSI faculty,
- 3. hold an overall GPA of 2.5 or higher,
- 4. completed Psyc 101, Soc 100, or Soc 150,
- 5. met competency requirements:

English: a grade of "C" or above in Freshman Composition or credit by examination (or a national percentile ranking of 50 or above on the ACT Assessment "English Usage"),

Math: a grade of "C" or above in Math 102 or a higher level math course or credit by examination (or a national percentile rating of 50 or above on the ACT Assessment "Mathematics Usage"),

Speech: A grade of "C" or above in SpCm 101, Fundamentals of Speech or credit by examination,

- 6. completed an application for Admission to Teacher Education which includes appropriate biographical information, *and*
- 7. have a current transcript on file in the Education Office.

Admittance into Professional Semester III:

Education students will be permitted to register for the courses of Professional Semester III if they have:

- 1. achieved senior standing at the University,
- been admitted to the Teacher Education Program and successfully completed all standard requirements therein (or alternatives decided by the Admissions and Scholastic Standards Committee),
- successfully completed all prerequisite coursework for the professional education program, including one special methods course* in a major field, the South Dakota Indian Studies requirement, and the computer proficiency requirement,
- 4. have the following minimum GPA's:
 - a. Education courses 2.6
 - b. Courses in the major 2.6
 - c. Overall Cumulative 2.5

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completed all competency plans and/or other activities prescribed by the Admissions and Scholastic Standards Committee,

- 5. have recommendations on file in the Education Office from both the major adviser and the content methods instructor (these recommendations must include the student's GPA in their major),
- 6. meet with the Placement Supervisor of the Office of Field Experiences before October 1 (for those student teaching in Spring) or February 1 (for those student teaching in Fall) and complete an Application for Student Teaching (Rather than wait for these deadlines, it is advisable to complete this application at least one semester before Professional Semester III), and
- 7. hold non-probationary status.
- * See major department section for special methods courses.

Recommendation for Certification

In order to be recommended for certification, a student must have:

- 1. an approved bachelor's degree,
- 2. satisfactory student teaching recommendations from both the cooperating teacher(s) and university supervisor,
- 3. the following minimum GPA's:
 - a. Education courses 2.
 - b. Courses in the major 2.6
 - c. Overall cumulative 2.5

or

completed all competency plans and/or other activities prescribed by the Admissions and Scholastic Standards Committee,

- 4. taken the required exit exam(s), and
- 5. applied for certification through the Certifying Officer in the College of Education and Counseling.

Education Curriculum for Teachers of Academic Subjects

Professional Semester I		
(Sophomore or Junior Year) EdFn 375, Human Relations	F	\mathbf{S}
	.3 o	r 3
SeEd 287, Practicum/Professional		
Laboratory Experience	2 o	r 2
*Psyc 101, General Psychology or	2 o	r 2
*Soc 100, Introduction to Sociology	.3 o	r-3 _,
Professional Semester II		
(Junior or Senior Year)	F	S
EdFn 365, Integrating Computers into		_
the Curriculum	.2 oı	: 2
EPsy 302, Educational Psychology	.2 oı	· 2
SeEd 314, Supervised Clinical/Field		
Experience	.1 or	: 1
SeEd 450, The Teaching of Reading	.3 or	. 3
Hist 368, History of the American Indians, or		
Anth 421, Indians of North America	.3 or	3
Special Methods (depending on student's		
major)	.3 or	3
Electives:		
EPsy 303, The Exceptional Child	.3	,
EdFn 338, Foundations of American		
Education	.3 or	3
		Ŧ
Professional Semester III		
(Senior Year)	F	S
SeEd 400, Curriculum & Instruction in		
Secondary Schools	3 or	3
SeEd 410, Social Foundations, Management,		
and Law	2 or	2
SeEd 420, Teaching Special Needs		
Students	1 or	1
SeEd 488, Supervised Teaching		
Internship	10 o	r 10

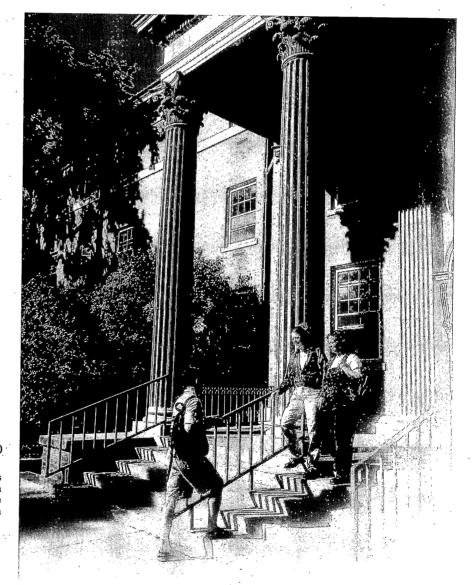
^{*} Psyc 101, Soc 100, or Soc 150 is a prerequisite to education courses but does not count as education credit for the teaching certificate. In order to complete the Education Curriculum as outlined above, the prospective teacher should take Psyc 101 or Soc 100 in the freshman or sophomore year.

Teaching Certificates

Teaching certificates in South Dakota are issued by the South Dakota Department of Education and Cultural Affairs. The secondary certificate qualifies the holder to teach subjects in secondary and middle school/junior high grades. The certificate states the subjects or subject groups in which the individual may teach.

Placement Service

Placement information is available through the Career and Academic Placement (CAP) Center on the SDSU campus.



Engineering

Virgil G. Ellerbruch, Dean CEH 201, 605-688-4161 Box 2219, Brookings, SD 57007-0096

e-mail: Virgil_Ellerbruch@sdstate.edu http://www.engineering.sdstate.edu

Introduction

The College of Engineering offers a variety of courses with a faculty characterized by high academic attainment and significant accomplishments in engineering practice, science, and technology. Undergraduate professional programs are offered leading to baccalaureate degrees in Agricultural and Biosystems Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, Engineering Physics, Physics, Computer Science, Electronics Engineering Technology, Construction Management, and Manufacturing Engineering Technology. In addition to the undergraduate degree programs, course selections are available from the broad offering of undergraduate courses for specializations in each program. Graduate programs are available in engineering, the sciences, mathematics and industrial management.

Goals for Science Engineering and Technology

The college programs endeavor to develop the ability to apply logical thought and practical actions to the identification, description, and solution of problems. If you are a mature student who aspires to contribute to the solution of society's problems, you are invited to consider the wide range of engineering, science, and technology programs.

The Students

Students in the College of Engineering are interested in solving problems through logical and creative design. They possess an interest in devices and systems and enjoy topics in mathematics, technology and the sciences, and they have a strong desire to help improve the standard of living for all people of the world.

Academic Advising

Each student in the College of Engineering works closely with an

academic adviser to develop the proper course of study for a chosen field and corresponding curriculum. The adviser assists in course selection, program plans, choosing elective courses, discussing employment opportunities, evaluation of transfer credits and general student questions regarding the profession. The adviser is a student's most important resource during progression to graduation.

A student interested in Civil Engineering, Electrical Engineering or Mechanical Engineering initially enrolls as a pre-engineering major in the College of Engineering. These three programs have enrollment limits and students apply for admission into Civil Engineering, Electrical Engineering or Mechanical Engineering after completing the 1-year pre-engineering program. Selection for the professional programs in these departments is competitive and the control is based on quality.

A student's acceptance into CE, EE or ME is based on prerequisite preparation, the cumulative grade point average (CGPA) and class standing after completion of the 1-year program. The number of students accepted into these majors will also depend on regional and national needs and the resources of the College of Engineering. Students must contact the department head for the application details.

Graduates of the Engineering College

Engineering college graduates are professionals sought after by firms throughout the state, region, nation, and world. They hold positions in areas of design, manufacturing, technical sales, as well as management at all levels, from project managers to executive officers. Our graduates are also successful in graduate schools and the professions of law and medicine. Many also seek and attain professional registration, certification and other licensure throughout the United States and the world.

Departments/Units

Agricultural and Biosystems Engineering
Civil and Environmental Engineering
Computer Science
Electrical Engineering
Engineering Technology and Management
(Electronics Engineering Technology, Construction Management,
Manufacturing Engineering Technology)

Mathematics and Statistics
Mechanical Engineering
Physics
Engineering Resource Center
Northern Great Plains Water Resources Research Center

Degrees Offered

Bachelor of Science Master of Science* Doctor of Philosophy*

* Graduate degrees are offered in collaboration with the Graduate School. For details, see the Graduate Bulletin.

Accreditations

The programs in Agricultural and Biosystems Engineering, Civil Engineering, Electrical Engineering and Mechanical Engineering are

accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET).

Programs

The College of Engineering offers the following degrees: Bachelor of Science in Agricultural and Biosystems Engineering, Civil Engineering, Computer Science, Electrical Engineering, Mechanical Engineering, Engineering Physics, and Physics; Bachelor of Science in Construction Management, Electronics Engineering Technology, and Manufacturing Engineering Technology; Bachelor of Science in Arts

. Jahren Sancie and Science with a major in Mathematics; Master of Science in Engineering and Master of Science in Industrial Management; the Doctor of Philosophy in Atmospheric, Environmental, and Water Resources (cooperative with South Dakota School of Mines and Technology); and the Doctor of Philosophy in Agricultural Engineering (cooperatively with Iowa State University).

Family and Consumer Sciences

Laurie Stenberg Nichols, Dean NFA 249, 605-688-6181 Box 2275A, Brookings, SD 57007-0097 e-mail: Laurie_Nichols@sdstate.edu

Introduction

The College of Family and Consumer Sciences prepares people for a variety of professional roles which are interdisciplinary in nature. Some majors within the College are directly related to the family and its traditional functions, such as human development and family studies. With this major, graduates are primarily prepared for careers in human services, community or government agencies, or business. Other majors are derived from functions that were traditionally performed by the family but now are often carried out by business and industry. Hotel and food service management, apparel merchandising and interior design are examples of these majors. Several programs in the College of Family and Consumer Sciences prepare graduates for employment in educational settings, including early childhood education and family and consumer sciences education.

The College of Family and Consumer Sciences works within the structure of the University's goals to:

- 1. Prepare professionals to enter the field of Family and Consumer Sciences as generalists or as specialists in areas of food, shelter, clothing and human development.
- Contribute to the general education of all students at South Dakota State University.
- 3. Provide services to families, non-professional and professional groups throughout South Dakota.
- Perform research to benefit families and further the economy of the state.
- Provide a viable graduate program that leads to a Master of Science degree in Family and Consumer Sciences with options in Child and Family Studies, Consumer and Family Sciences, Family Financial Planning, or Nutrition and Food Science.

Departments

Apparel Merchandising and Interior Design Human Development, Consumer and Family Sciences Nutrition, Food Science and Hospitality

Degrees Offered

Bachelor of Science
Master of Science*

* Graduate degrees are offered in collaboration with the Graduate School. For details, see the Graduate Bulletin.

Accreditations

American Dietetic Association (ADA)

American Association of Family and Consumer Sciences (AAFCS)

National Association for Education of Young Children (NAEYC) National Council for Accreditation of Teacher Education (NCATE)

Programs

All programs in Family and Consumer Sciences focus on the interactions of family and their environment: 1) the study of the interrelationships of food, shelter, clothing and interpersonal relations as they affect the individual and the family; and 2) the interaction of the family with other social systems and with the physical environment. All students in family and consumer sciences complete 7 credits of core courses which provide content and experiences for understanding these inter-relationships and interactions.

The College is organized into three departments offering 8 majors and several options.

Family and Consumer Sciences Curricula		
Department	Major Field	Options
Apparel Merchandising and Interior Design	Apparel Merchandising Interior Design	
Human Development, Consumer and Family Sciences	Human Development and Family Studies Family and Consumer Sciences Education Consumer Affairs	
	Early Childhood Education	Cooperative Elementary Education Certification – BHSU, DSU, NSU
Nutrition, Food Science and Hospitality	Nutrition and Food Science Hotel and Foodservice Management	Dietetics Food Science Foodservice Management Hotel and Hospitality Management

Curriculum

Students enrolled in the College of Family and Consumer Sciences must meet the University Core requirements and the College of Family and Consumer Sciences Core requirements to qualify for the Bachelor of Science degree. Students must also successfully complete at least 32 hours at SDSU with a minimum of 20 credit hours of junior and senior (300-400) level courses.

In addition, each major area of study has specific required courses pertinent to the respective major area.

Minor changes occurring in programs are reflected in program guide sheets issued each year. Entering students must meet the program requirements for graduation listed on the guide sheets, which will reflect the curriculum changes subsequent to the printing of this bulletin.

Exploratory courses for those interested in specific majors offered through the College of Family and Consumer Sciences are:

AM 121, Apparel in Popular Culture

CA 130, Coping Skills for Consumers

HDCF 141, Individual and the Family

HDCF 327, Human Development and Personality I: Childhood

ID 150, Introduction to Interior Design I

NFSH 111, Food and People

NFSH 171, Introduction to Hospitality and Tourism

NFSH 221, Survey of Nutrition

Minors

Minors can be earned in each of the three departments in the college. The minors are Nutrition, Interior Design, Consumer Affairs, Apparel Merchandising, and Human Development, Child and Family Studies. Combining one of these minors with a major in one of the other departments in the college or with majors in other colleges at SDSU can strengthen preparation and employment opportunities. Also, an interdisciplinary minor in Gerontology, the study of the elderly, is available.

Experiential Education

All majors in the College of Family and Consumer Sciences provide opportunities to become familiar with the world of work as related to the major. Field experiences, practicums, and internships are available and often required.

Graduate Program in Family and Consumer Sciences

Those pursuing the M.S. degree in Family and Consumer Sciences are enrolled in the Graduate School. The program of work is planned with a faculty adviser from the area of concentration. Specific requirements are outlined in the Graduate School Bulletin obtained from the Dean of the Graduate School, South Dakota State University, Box 2201, Brookings, South Dakota, 57007-1998.



General Registration

Gail Dobbs Tidemann, Dean MeC 123, 605-688-4153

Box 511, Brookings, SD 57007-0298 e-mail: Gail_Tidemann@sdstate.edu

Introduction

Students enrolling in the College of General Registration have elected to explore their abilities, interests and educational alternatives before declaring a major. Through General Registration, a student will receive assistance that helps them make wise major/career choices. Most undeclared major students who enroll in General Registration will

transfer to a degree granting college before they reach sophomore status. Pre-professional General Registration students usually transfer to degree programs in their sophomore year and maintain their pre-professional status as a secondary designation.

Departments/Units

The College of General Registration does not have a departmental administrative structure. Student service programs are organized and

delivered with the following programmatic emphasis: Academic Development, Career Development, and Employment Development.

Degrees Offered

The College of General Registration does not offer a degree program. It serves students in the following categories: undeclared premajors, pre-chiropractic, pre-law, pre-medicine, pre-dentistry, pre-

physicians assistant, pre-ministerial, pre-mortuary science, preoptometry, special non-degree seeking students, and students admitted in the academic success program.

Accreditations

The College of General Registration activities are covered by the institutional accreditation through the North Central Association.

Programs

Undeclared Majors

General Registration allows you to begin college work without declaring a major.

If you enroll under this classification you are assisted in planning a basic college program and are encouraged to explore various fields of study. Academic advisers help you explore your interests, aptitudes and abilities. The College of General Registration offers a one credit course titled "GR 101, Academic and Career Exploration" which assists with career decision making strategies. New undeclared freshmen at SDSU are encouraged to enroll in this course.

A suggested freshman year schedule follows. You would work with your academic adviser to plan a program to meet your own interests and needs. General Registration enrollment is normally for the freshman year. In order to gain acceptance to a degree granting college students should maintain at least a "C" grade average.

Suggested Undeclared Major Program

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or	3
or	2
or	3
	3
	3-4
	3
	or or or

Pre-Professional (http://www.sdstate.edu/preprof)

SDSU credits are generally accepted by all professional schools if satisfactory grades are maintained and courses meet appropriate program requirements.

If you wish to qualify for admission to the professional schools of medicine, dentistry, optometry, law or others that require preprofessional education, you may wish to start in the College of General Registration. While enrolled in General Registration, students are able to consider various majors, either as possibilities for later degree objectives or as a back-up major choice in the event that plans to pursue professional school admission should be altered.

Requirements for admission to professional schools vary. Assistance will be given to assure that students meet the course requirements of the professional school(s) they select. Consult the catalog of the professional institution you plan to attend for adjustments in these programs. Nearly all of the professional school exams are now administered on campus.

Information about pre-professional programs is included in the department and program descriptions and the major and minor requirements section.

Graduate School

David Hilderbrand, Dean

ADM 130, 605-688-4181 Box 2201, Brookings, SD 57007-1998 e-mail: David Hilderbrand@sdstate.edu

Introduction

SDSU granted its first Master's degree in 1891. In 1957 the Graduate School was established. The Graduate Faculty is composed of the President, Vice President for Academic Affairs, Vice President for Administration, Graduate Dean, academic deans, heads of departments in which graduate courses are given and other faculty members chosen on the basis of their background and experience. These faculty members teach graduate level courses and serve as advisers to graduate students or on advisory examining committees.

The Graduate School is committed to providing an atmosphere for qualified students to obtain rigorous advanced education in a variety of fields in preparation for service and leadership in their professions and society. It also promotes scholarly pursuits and scientific research for the advancement of knowledge within a climate of freedom of inquiry.

Graduate Credit for Seniors

A senior within 15 credits of completing the undergraduate curriculum with a grade point average of 2.5 or a junior-senior grade point average of 3.0 may receive credit for graduate courses numbered

500-699 in addition to the courses necessary to complete undergraduate work. Courses in the 700 and 800 series are not open to undergraduate students. Course load may not exceed 18 credits. Courses must be designated for graduate credit at the time of registration. Forms requesting permission to register for these courses are available at the Graduate School office and must be filed prior to taking the course. Permission to take courses for graduate credit while a senior does not constitute admission to the Graduate School. Such courses may be used toward a graduate degree but are not useable toward an undergraduate degree.

Admission to the Graduate School

For information regarding admission to the Graduate School, departments offering graduate instruction, graduate courses available, as well as information on graduate fellowships and assistantships, write the Dean of the Graduate School, South Dakota State University, Box 2201, Brookings, SD 57007-1998, for the latest Graduate Bulletin or call the Graduate School Office 605-688-4181.

Departments

The Graduate School operates as one unit.

Degrees Offered

The Master of Science, Master of Arts, and Master of Education degrees are offered in approximately 30 majors. The Doctor of Philosophy is offered in Agronomy; Animal Science; Atmospheric, Environmental, and Water Resources (cooperative with South Dakota

School of Mines and Technology); Biological Sciences; Chemistry; and Sociology. A cooperative Ph.D. program with Iowa State University is available in Agricultural Engineering.

Accreditations

None specific to the Graduate School. Individual programs may be accredited within their disciplines.

Programs

See the separate Graduate Bulletin. This may be obtained by writing to the Graduate School, South Dakota State University, Box 2201, Brookings, SD 57007-1998, or by calling 605-688-4181, or on the Internet at www.sdstate.edu/grads/

Nursing

Introduction

Roberta K. Olson, Dean NFA 255, 605-688-5178 or 1-888-216-9806 Box 2275, Brookings, SD 57007-0098

e-mail: Roberta_Olson@sdstate.edu

The mission of the College of Nursing is to improve health and quality of life in the state, region and nation through education of nurses and other health care professionals; provision of expertise to consumers, providers and health systems; and research to improve nursing and health care.

Non-majors are encouraged to select courses in the College of Nursing. These courses, contributing to general education, include: Nurs 201, Medical Terminology and all the Health Science courses.

Departments

Graduate Nursing Nursing Student Services Undergraduate Nursing West River Nursing

Degrees Offered

Bachelor of Science Master of Science*

 Graduate degrees are offered in collaboration with the Graduate School. For details, see the Graduate Bulletin.

Accreditations

South Dakota Board of Nursing (approval)
National League for Nursing Accrediting Commission NLNAC
Commission on Collegiate Nursing Education CCNE (pre-approved)

Programs

Through the College of Nursing, students can earn a Bachelor of Science or a Master of Science degree with a major in Nursing. Graduates of the undergraduate program have a broad and basic preparation for professional nursing practice. They are qualified for first level positions in hospitals, community health agencies, industry, Indian Health Service, military, and other institutions where professional nurses are employed. Graduates are prepared to assume professional responsibility for promotion of health and prevention of illness. They assume responsibility for the guidance of nursing personnel and work cooperatively with other health care providers. They have the foundation for advanced study in nursing or specialization at the graduate level.

Both the undergraduate and graduate nursing programs at SDSU are approved by the South Dakota Board of Nursing and are accredited by the National League for Nursing. The College is a member agency in the National League for Nursing Council of Baccalaureate and Higher Degree Programs, and American Association of Colleges of Nursing.

Candidates for graduation in the basic curriculum are eligible to write the National Council Licensure Examination-RN (NCLEX-RN) for licensure as registered nurses. Licensure as a registered nurse (RN) is required by law in every state in order to practice professional nursing.

Bachelor of Science Degree in Nursing

Two types of undergraduate curricula leading to the Bachelor of Science with a major in Nursing are offered – one for basic students and one for RN's who are academically prepared at the associate degree

or diploma level and now seek a bachelor's degree. The program includes university core curriculum, major support courses in communication and the social, physical, and biological sciences, and nursing major courses. Graduates of the basic program in nursing are eligible to write the National Council Licensure Examination to become registered nurses. They are prepared to practice in both hospital and non-hospital settings and have the foundation for advanced study in nursing. Graduates of the RN Upward Mobility program are already registered nurses and are prepared to expand their practice in the areas of community health, health promotion and leadership and also have the foundation for advanced study in nursing.

Master of Science Degree in Nursing

Graduate programs in adult or parent-child nursing lead to a Master of Science degree in Nursing. The graduate program in nursing consists of advanced theoretical and clinical study in nursing and advanced work in selected supportive fields. It also provides role options in teaching of nursing, in patient care management, and in advanced clinical practice (clinical nurse specialist and nurse practitioner). A gerontological emphasis is also offered.

Health Science Minor

The Health Science minor provides experience in health knowledge, health services, and healthful environment to undergraduate students from various disciplines. Students have the option of earning a minor in health science as detailed under Health Science course offerings.

Pharmacy

Danny L. Lattin, Dean
Pha 125, 605-688-6197
Box 2202C, Brookings, SD 57007-0099
e-mail: Danny_Lattin@sdstate.edu

Introduction

The College of Pharmacy offers a six year course of study leading to a Doctor of Pharmacy (Pharm.D.) degree. As one of the health professions, pharmacy is vitally concerned with public health and safety. The goal of the College of Pharmacy is to prepare competent Pharm.D. graduates with effective primary care skills which center around the pharmacist's role in ensuring the rational use of medications and related devices to provide optimal therapeutic outcomes for their patients, and to inspire students to be life-long learners who express a caring professional attitude and seek to be agents of change within the profession. As the needs of society change, the problems of providing pharmaceutical care also change. Therefore, pharmacy students must not only be provided with sound scientific and professional training, but

also be given opportunity to gain as much liberal education as possible to more adequately understand the society they serve.

Graduates with a Doctor of Pharmacy degree are eligible to apply for licensure in any state. Licensure as a pharmacist requires graduation with an entry level professional degree from an accredited pharmacy program, a certified period of supervised internship experience and successful completion of examinations administered by the Board of Pharmacy of the individual state. These requirements vary slightly from state to state. Students interested in practicing in a particular state should contact the board of pharmacy of that state for information concerning requirements.

Departments

Pharmaceutical Sciences Clinical Pharmacy

Degrees Offered

Bachelor's Degree in Pharmaceutical Sciences Doctor of Pharmacy (Pharm.D.)

Accreditations

American Council on Pharmaceutical Education (ACPE)

Programs

Doctor of Pharmacy (Pharm.D.)

The College of Pharmacy offers a six year course of study leading to an entry level Doctor of Pharmacy (Pharm.D.) degree. The Pharm.D. degree is a professional degree which enables our graduates to pursue diverse career opportunities and ensures that their pharmacy education prepares them for future changes in the profession. It is an exciting opportunity for students who want to make a significant contribution to the health care needs of our society.

Preparation for the Major

In high school the student should take an academic curriculum in preparation for entrance to college. A sound basic education in science and mathematics courses is an essential part of preparation for the study of pharmacy. Good written and verbal communication skills are important.

Students planning to transfer from another college or university should consult with the College of Pharmacy early in their academic careers to plan course work that will transfer to the College of Pharmacy.

Curriculum (six year)

The curriculum is divided into a 2-year pre-pharmacy and a 4-year Professional Program phase. The pre-pharmacy courses provide a solid knowledge base and ability to use critical thought processes in the biological and physical sciences.

The four years of the Professional Program incorporate a solid foundation of pharmaceutical science courses as well as a comprehensive sequence of therapeutics and professional practice courses. Students earn a B.S. in Pharmaceutical Sciences degree after successful completion of the first two years of the Professional Program. The application of drug knowledge, basic science, and critical thinking to resolve problems of drug distribution and patient care are emphasized throughout the curriculum. Finally, students have an opportunity to apply knowledge and pharmaceutical care principles to pharmacy practice situations in a 44-week series of clerkships in a variety of patient care settings which include patient care areas of hospitals, nursing homes, community pharmacies, hospital pharmacies, Indian Health Service facilities and clinic pharmacies.

Application Process

All students seeking admission to the 4-year Professional Program leading to the Doctor of Pharmacy degree must submit an application for the Professional Program. Applications are available from the College of Pharmacy. The deadline for applying for admission for the Fall Semester is February 1. Limitations in the size of the physical facilities, the number of faculty and the number of clinical sites make it necessary to limit the class size in the Professional Programs. Selection will be competitive and based upon several factors including prepharmacy course work, ACT scores, written and oral communication skills, letters of recommendation, residency status and other factors. Any student who anticipates successful completion of the pre-pharmacy mathematics, science and communication requirements prior to Fall Semester is eligible to apply. Notification of acceptance into the Professional Program is made during the Spring Semester. Students admitted to the Professional Program must submit a non-refundable Pharmacy Major Fee to secure their position for the Fall Semester.

College of Pharmacy Regulations

Students in the College of Pharmacy are governed by the regulations which apply to all students at SDSU but are also governed by requirements established by the College. These requirements are presented in detail in the Pharmacy Student Handbook and include:

- 1. A student must earn at least two grade points for each credit hour in pharmacy courses to qualify for graduation.
- 2. A student will be placed on pharmacy probation when the student's pharmacy GPA (Pha prefix courses) for a semester falls below 2.0. Each subsequent semester while on pharmacy probation the student must earn a pharmacy GPA of at least 2.0 or the student will be placed on refused status. The student will be on probation for a minimum of one semester while taking pharmacy courses (Pha prefix) and will remain on pharmacy probation until the student's cumulative pharmacy GPA is 2.0 or greater.
- 3. If a student repeats a pharmacy course, both grades will appear on the student's record and be used to calculate the cumulative pharmacy GPA.
- Grades earned in Pha prefix courses taken at other colleges/schools
 of pharmacy cannot be used to calculate pharmacy probation or
 refused status.
- 5. Students enrolled in the professional program may transfer a maximum of six credits of Pha prefix courses.
- 6. Students must receive a grade of "C" or better to meet the requirement of each 700 level course.

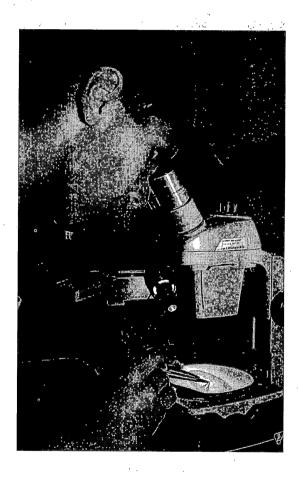
Career Opportunities

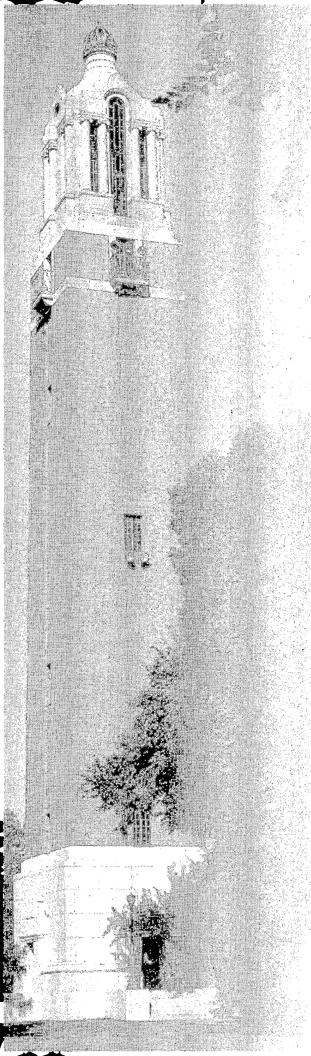
Demand for pharmacists is high, and SDSU students enjoy an excellent placement rate. There is a diverse range of career opportunities in pharmacy. These include community pharmacy,

hospital pharmacy, clinical pharmacy, pharmaceutical sales, military pharmacy, clinical and laboratory research, positions in federal, state, and local government, professional association work, and many other specialized areas. Additional training or advanced degrees are usually necessary to teach or to conduct research. Students interested in these areas should discuss their plans with an academic adviser.

Professional Organizations

Membership in the Academy of Students of Pharmacy is open to all students in the College. Kappa Psi is a pharmacy fraternity for men and women, and Kappa Epsilon is a pharmacy fraternity for women. Rho Chi and Phi Lambda Sigma are scholastic and leadership organizations. The major goals of these organizations are to provide a better appreciation of the scope and aims of the profession and to develop leadership potential.





DEPARTMENT AND
PROGRAM DESCRIPTIONS69

Department and Program Descriptions

Aerospace Studies (Air)

(Air Force ROTC)
Colonel Jeffrey S. Boulware
Department of Aerospace Studies
DePuy Military Hall 004
605-688-6106
e-mail: bonnie_luecke@sdstate.edu

Faculty

Colonel Boulware, Professor of Aerospace Studies, Head; Assistant Professors, Captain Fier, Captain Johnson.

Programs

The Air Force Reserve Officer's Training Corps (AFROTC) program is conducted by the Department of Aerospace Studies. The purpose of this program is to enable qualified undergraduate and graduate students to become commissioned officers in the US Air Force. The learning experiences received will be of long range value in either a military or civilian career. Upon graduation and completion of the AFROTC curriculum the student is commissioned a Second Lieutenant, incurs a four-year active-duty service commitment, and enters the Air Force.

The following programs are open to qualified male and female fulltime students.

Four Year Program

Designed for students completing a four-year college degree; however, it is easily modified to accommodate students with 3 to 5 years of academic studies remaining before graduation. Consists of: four semesters of General Military Courses (freshman and sophomore years), a four week Field Training Unit, and four semesters of Professional Officer Courses (junior and senior years).

Two Year Program

Designed primarily for transfer and graduate students with 2 years of academic studies remaining before graduation. However, other students who did not participate in Air Force ROTC during Freshman and Sophomore years may also participate. The two-year student must contact the Aerospace Studies Department late in the Fall Semester before entering the program to allow time for selection, medical examination and scheduling for Field Training during the summer. Successful completion of the Field Training Unit is mandatory before entering the two-year program. The program consists of a six week Field Training session and four semesters of Professional Officer Courses.

Field Training

Summer Field Training Units (FTUs) are conducted at operational Air Force bases and give the cadets an in-depth look at Air Force life and activities without incurring a commitment. It also gives the Air Force ROTC instructors a look at the students outside the university environment before they are accepted in the Professional Officer Course. Both the 4-week and the 5-week FTU include cadet orientation, junior officer training, survival training indoctrination, physical conditioning, career orientation, small arms familiarization, and a look at the organization and functions of an Air Force base. At the 5-week FTU, the additional one week is used to complete the course material and leadership laboratory training missed by not participating in the General Military Courses on campus. Students are provided transportation. At camp they receive free room, food, medical care, and approximately \$20 pay per day.

Financial Assistance

All Air Force ROTC cadets who are South Dakota residents and who are not on an Air Force scholarship receive a 50% tuition reduction for four semesters of their junior and senior years. All non-scholarship juniors and seniors on contract receive a Professional Officer Corp Incentive (POCI) award of \$3000 per year plus \$450 for books.

Scholarships. Qualified students can compete for 3-year and 2-year scholarships, which cover full tuition, books, laboratory expenses, incidental fees and \$200 per month tax free subsistence allowance. Scholarship competitions are also held at intermediate times to fill vacancies in the nationwide scholarship program. Awards are based upon officer potential. Applicants are nominated on the basis of: Air Force Officer Qualifying Test Scores, ACT or SAT college aptitude scores, academic major, grade point average, and personal evaluation by the Professor of Aerospace Studies.

Final selection is made by Air Force ROTC Headquarters.

NOTE: High school students should contact their high school counselor, any Air Force Recruiter, or the Department of Aerospace Studies for a 4-year AFROTC Scholarship Application, to be completed following the junior year or early in the fall of the senior year.

- · Air Force ROTC courses are tuition free.
- Military uniforms, textbooks and equipment are furnished for all Air Force ROTC classes.
- Cadets enrolled in the Professional Officer Course and have contracted with the Air Force receive the same \$200 per month tax free subsistence allowance that scholarship students receive.

Agricultural Business

(See Economics)

Agricultural and Resource Economics

(See Economics)

Agricultural and Biosystems Engineering (ABE)

Van Kelley, Acting
Department of Agricultural and Biosystems Engineering
Agricultural Engineering 107
605-688-5141
http://www.abs.sdstate.edu/ae/

Faculty

Professor DeBoer, Acting Head; Professors Anderson, Hellickson, Ullery, Werner; Professors Emeriti Chu, Durland, Wiersma; Associate Professors Adelaine, Humburg, Julson; Associate Professor Emeriti Lytle; Assistant Professors Bender, Campbell, Kelley, Muthukumarappan, Pohl, Schipull, Stange; Assistant Professor Emeriti Pahl.

Programs

Agricultural and Biosystems Engineering is the science of engineering applied to the facilities and processes of agriculture and related industries. You are given foundation courses in mathematics, physics, and chemistry with engineering emphasis in a wide variety of technical areas: natural resource management, irrigation and drainage, water resources development, machine dynamics and design, machine vision, agricultural power, electrical power utilization, properties and processing of biological materials, environmental control for livestock, control and disposal of agricultural wastes, agricultural structures, computers, and instrumentation. Courses are also offered in the fields of meteorology, climatology, and micro-climatology to interested engineers and students in other colleges.

Bachelor of Science graduates from the Agricultural and Biosystems Engineering major should possess the following attributes at the time of their graduation:

- 1. Understanding of engineering concepts associated with three (3) of the four (4) following areas of study: food and biological materials engineering, power and machinery engineering, water and natural resources engineering, and structures and environment engineering.
- 2. Ability to apply engineering design principles and practices to solve problems associated with three (3) of the four (4) following areas of study: food and biological materials engineering, power and machinery engineering, water and natural resources engineering, and structures and environment engineering.
- Strong background in mathematics, natural sciences and engineering design.
- Excellent critical thinking and problem solving skills.
- 5. Competency in computer technologies and instrumentation.
- 6. Excellent communication skills.
- 7. Capability to be effective and productive team members.
- 8. Ability to perform "hands-on" tasks.
- Appreciation for the benefits of professional (including ethical)
- 10. Appreciation for the arts and humanities.

Engineering design is taught throughout the academic program beginning with the freshman AE 122 course and culminating in a two semester, senior capstone design experience via the AE 411 and AE 422 courses. Senior students are members of design teams which design, build, test and demonstrate engineered products. Design projects solicited from industry provide students with relevant "real world" design experience.

To earn the Bachelor of Science Degree in Agricultural and Biosystems Engineering, a student must have an average grade of C or better in courses taken and required in the Agricultural and Biosystems Engineering Curriculum.

Experiential Education Programs are available in the department. Students are encouraged to supplement their formal instruction with internships (can receive graduation credit) and extra curricula activities.

For Ag Systems Technology courses and curriculum, as offered by the Agricultural and Biosystems Engineering Department, see Agricultural Systems Technology for full description. For Master of Science and Ph.D. work, see the Graduate Bulletin. Graduate level courses will be taught as listed and on demand.

Agricultural Extension (AgEx)

Extension Program Coordinator Agricultural Hall 130 605-688-5132

Programs

The Cooperative Extension Service is the off-campus educational function of the College of Agriculture and Biological Sciences. The Service extends the SDSU campus to every community and the advantages of higher education to all people. Through its Extension Educators, and supporting statewide Specialists, the Cooperative Extension Service disseminates the findings of research and encourages the application of knowledge to solution of problems encountered in everyday living.

SDSU does not offer a major in Agricultural Extension; however, students can prepare for a career in Agricultural Extension by completing any major in the B.S. in Agriculture degree with appropriate selection of courses from electives.

Agricultural Journalism

(See Journalism and Mass Communication)

Agricultural Systems Technology

(AST)

Van Kelley, Acting **Department of Agricultural and Biosystems Engineering Agricultural Engineering 107** 605-688-5141 http://www.abs.sdstate.edu/ae

Faculty

Professor DeBoer, Acting Head; Professors Anderson, Hellickson, Ullery, Werner; Professors Emeriti Chu, Durland, Wiersma; Associate Professors Adelaine, Humburg, Julson; Associate Professor Emeriti Lytle; Assistant Professors Bender, Campbell, Kelley, Muthukumarappan, Pohl, Schipull, Stange; Assistant Professor Emeriti Pahl.

Programs

Agricultural Systems Technology is a four-year major developed around the General Agriculture core curriculum. It is designed to give broad training in the agricultural sciences and the technologies appropriate to agriculture and its associated industries. This major prepares you for careers in industries that support agriculture, such as technical sales, technical service, electric utilities in rural areas, distribution of commodities, work with federal agencies such as the Natural Resources Conservation Service, agricultural loan officers, food processing, farming and ranching, and vocational agriculture teaching. Cooperative Education and Industry Cooperative Programs are available in the department. Students are encouraged to supplement their formal instruction with internships (can receive graduation credit) and extracurricular activities.

Agronomy

(See Plant Science)

Air Force ROTC

(See Aerospace Studies)

American Indian Studies Program (AIS)

Donna Hess Department of Rural Sociology Scobey Hall 216 605-688-4892

e-mail: rur.soc@abs.sdstate.edu

An inter-college program of American Indian culture studies. Course work in various departments of the University provides a broad base for understanding the past, present, and possible futures of American Indian people. The program recognizes the historical and contemporary significance of American Indian experiences. Study of these experiences promotes understanding of the pluralist nature of the U.S. and responds to the growing need for multicultural sensitivity and awareness.

Students desiring more information or interested in minoring in the program should consult with the coordinator no later than the beginning of the junior year.

Animal and Range Sciences (AS, Rang)

Don Boggs Department of Animal and Range Sciences Animal Science Complex 103A 605-688-5166

Faculty

Distinguished Professors Emeriti Briggs, Costello, Wahlstrom; Professors Boggs, J. Johnson, P. Johnson, Larson, McFarland, Marshall, Pritchard, Pruitt, Slyter, Thaler; Professors Emeriti Bailey, Carlson, Dearborn, Dinkel, Gartner, Kohler, Kortan, Lewis, Luther, Minyard, Morgan, O'Connell, Plumart, Romans; Associate Professors Held, Insley, Kronberg, Miller; Associate Professors Emeriti Bonzer, Bush, McCarty, McCone; Assistant Professors Clapper, B. Johnson, Maddock, Stein, Walker, Wright, Wulf; Instructor Bruns; Adjunct Professor Britzman, Head, Sieg.

Programs

The department offers instruction leading to the Bachelor of Science degree with majors in Animal Science or Range Science. The curricula are designed to prepare students for careers in livestock production, related agriculture business enterprises, farming and ranching, natural resource management on both private and public lands, or graduate study. Students are encouraged to supplement their class and laboratory instruction with internships and extracurricular activities.

Animal Science Major. Majors receive instruction in animal breeding, feeding and nutrition, management, selection and evaluation, marketing, meats, and wool. Courses pertain to beef cattle, horses, sheep, and swine. Students choose one of two emphases: (a) Business and Production, or

(b) Science. The applications of various disciplines to the breeding, feeding, management, and marketing of livestock and livestock products are stressed. Emphasis is placed on developing an understanding of the basic principles of genetics, nutrition, physiology, range, and meats as they affect production and management of livestock. Students interested in veterinary medicine should consider a dual major in Pre-Veterinary Medicine and Animal Science/Science emphasis.

Range Science Major. The Range Science program offers a diverse curriculum which prepares students for careers in the management of rangelands, the nation's largest natural resource. Both the practical and theoretical aspects of rangeland management are stressed, with emphasis placed on livestock grazing, forage production, ecology, soil conservation, wildlife habitat, watershed values, and outdoor recreation. Each student selects one of three emphases which allows specialization in a major area of the field: (a) Rangeland Resource Conservation, (b) Range Livestock Production, or (c) Rangeland Ecology and Habitat Management.

Apparel Merchandising and Interior Design (AM, ID)

Department of Apparel Merchandising and Interior Design NFA 229 605-688-5196

Faculty

Professors Emeriti Kamstra, Semeniuk, Stoflet, Associate Professor Emeriti Yost; Assistant Professors Isham, Lyons, Strickler, Nussbaumer; Lecturer Saari.

Programs

The department offers instruction leading to a Bachelor of Science degree with majors in Apparel Merchandising (AM) and Interior Design (ID).

Some courses are offered alternate years while others are offered once a year. Work experience is recommended before the Professional Practicum. To enroll in the Professional Practicum (AM 497 and ID 497) a student must have 90 semester credits and a 2.2 GPA. Consult your adviser for assistance and current information.

Apparel Merchandising (AM)

Courses in apparel merchandising provide knowledge applicable to careers in the fashion industry including production, wholesaling and retailing, and for consumer acquisition and use of apparel and household textiles. The cultural and scientific aspects of apparel and textiles are examined with emphasis on aesthetic, economic, historical, sociological, and psychological factors.

Fashion Institute of Technology

The Apparel Merchandising and Interior Design Department is affiliated with the Fashion Institute of Technology (FIT) in New York City. Students may enroll in a 1-2 semester "visiting scholar" program at FIT. The emphasis can be in Fashion Design, Fashion Buying and Merchandising, or several others. FIT courses transfer into SDSU and substitute for program requirements if approved prior to taking them. Upon graduation from SDSU the student receives the associate degree from FIT. Upper division status and a minimum 2.5 GPA (on 4.0 scale) is required for FIT consideration. Planning should begin in the sophomore year. See Dr. Susan Strickler for further information.

Minor in Apparel Merchandising

Sixteen credit hours are required for a minor in Apparel Merchandising. Plan your minor with an AM adviser early in your program.

Interior Design (ID)

The curriculum in interior design prepares students to enter the profession of residential and commercial design through course work in technical, material, historical, cultural and aesthetic aspects of design with studios emphasizing the design problem-solving process. A 280 hour practicum is a program requirement.

Minor in Interior Design

Seventeen credit hours are required for a minor in Interior Design. Plan your minor with an ID adviser early in your program.

Army ROTC (MIL)

(See Military Science)

Art (Art)

(See Visual Arts)

Athletic Coaching Certification

Department of Health, Physical Education and Recreation **Physical Education Center 273** 605-688-5026 e-mail: Jason Liles@sdstate.edu

Some states, including South Dakota, Iowa, and Minnesota, have specific requirements for athletic coaching certification in public schools. Students interested in seeking certification for coaching should consult with the Coaching Certification Coordinator in the Department of HPER to verify the specific requirements for each state. SDSU does require an American Sports Education Program Workshop for those interested in obtaining coaching certification.

Athletic Training (AT)

Jim Booher Department of Health, Physical Education and Recreation **Physical Education Center 265** 605-688-5824 e-mail: James Booher@sdstate.edu

Athletic Training Major

The athletic training major is accredited by the Commission of Accreditation of Allied Health Education Programs. It is designed to prepare students to become athletic trainers and take the national certifying examination.

Courses required for completion of this major are listed in the Requirements section of this bulletin. In addition to these courses, students must complete a minimum of 800 hours of clinical experience under the supervision of clinical instructors.

Application for admittance into the athletic training major can begin during a students sophomore year and upon completion of AT 164 and Zool 221. The number of students accepted into the program each year is based upon the availability of clinical opportunities. Students are encouraged to supplement their education with an additional area of study to become more marketable.

Aviation Education (Avia)

Dee Hopkins, Dean College of Education and Counseling Wenona Hall 108A 605-688-5743

Program

Aviation Education at South Dakota State University is a specialty of Career and Technical Education. It is also available as a minor. Traditional classroom instruction is coupled with individual flight training courses provided by general aviation instructors. The aviation courses work leads individuals to the professional Flight Instructor certification. Departmental consent is required for registration in flight courses, and special fees are assessed for the cost of aircraft operations.

Biology (Bio)

Gary Peterson **Department of Biology and Microbiology Agricultural Hall 304** 605-688-6141 e-mail: biomicro@abs.sdstate.edu http://www.abs.sdstate.edu/bio

Faculty

Professor Peterson, Acting Head; Professors Gibbons, Granholm, Hildreth, Hutcheson, Kayongo-Male, Larson, McMullen, Reese, Ruffolo, Westby, Whalen; Professors Emeriti Baker, Chen, Hugghins, Morgan, Myers, Pengra, Taylor, Associate Professors Bleakley, Cheesbrough, Erickson, Gibson, Hurley, Rowland, Sutton, Troelstrup; Associate Professor Emeritus Morrill; Assistant Professors Dieter, Gilmanov, Pedersen, Yen; Instructors Willgohs, McCutcheon; Adjunct/Joint faculty Benfield (Vet.Sci.), Chase (Vet.Sci.), Diggins (Augustana), Evenson (Chem.), Fennell (HFLP), Francis (Vet.Sci.), German (WRI), Henning (DS), Johnson (PS), Majerle (Chem.), McFarland (ARS), Nelson (Vet.Sci.), Reidel (NGIRL-USDA), Rietz (Brookings Medical Clinic), Specker (FFS), West (Chem.).

Programs

The Biology and Microbiology Department offers curricula leading to the Bachelor's degree with a major in Biology. The undergraduate Biology major has two different programs from which to choose: The curriculum in Biological Sciences, College of Agriculture and Biological Sciences; or the curriculum in Arts and Science. The two programs are identical except for the individual college's requirements. Students majoring in Biology will select among four areas of emphasis depending upon their particular interest and needs: (1) Biology, (2) Botany, (3) Zoology, and (4) Pre-professional. A minimum GPA of 2.0 must be maintained in the major and chemistry courses.

The Biology emphasis prepares a student to work in a large variety of areas of the biological sciences.

The Botany emphasis concentrates on the scientific study of plants. The graduate with an emphasis in Botany is qualified for professions in plant research and industry.

The **Zoology emphasis** highlights the scientific study of animal life. Zoology provides the basis for many related disciplines such as medicine and health sciences, veterinary science, and oceanography.

The Pre-professional emphasis is designed for students planning on admission into professional, health science programs.

Biostress Center of Excellence

Douglas Malo
Biostress Center of Excellence
Northern Plains Biostress Laboratory, 247C
605-688-4586

e-mail: Douglas_Malo@sdstate.edu

Faculty

Distinguished Professor Malo, Director; Professors S. Clay, Janssen, Marshall, Pruitt, Rickerl, Thaler; Associate Professors Cumber, Kronberg; Assistant Professor VanDer Sluis.

Program

The Biostress Center of Excellence Program provides a coordinated focus on excellence to continue developing students' lifelong learning skills and undergraduate education in the College of Agricultural and Biological Sciences. Courses addressing global food systems, multicultural and international experiences, as well as traditional courses, are utilized as part of the developmental process that culminates with a capstone experience. A plan/project is developed during the capstone experience that requires students to apply acquired skills to address issues or concerns confronting agriculture and the rural community. The Biostress Center of Excellence aids in the preparation of professionals to promote economic vitality and development, sustainable agriculture, environmental stewardship, and an improved quality of life for the people of South Dakota, the region, and beyond. Graduates have conceptual and experiential abilities within their major. Areas of emphasis include leadership, agricultural ethics, communication, and group dynamics with the goal of becoming active community, civic, and industry leaders.

The educational outcomes for the Biostress Center of Excellence are illustrated in its goals.

Goals

- Graduates will be technically and academically competent in their major.
- Graduates will have enhanced skills in interpersonal relationships, team dynamics, diversity (multicultural/global) understanding, and group processes needed to become community and industry leaders.
- 3. Graduates will have enhanced communication, public relations, and computer technology skills.
- Graduates will have skills for lifelong learning and technology transfer.
- 5. Graduates will use appropriate analytical and problem-solving skills to analyze agricultural and rural community concerns and to develop economically and environmentally viable solutions through a collaborative, multidisciplinary team approach. Graduates will have advanced skills in use of technology to access and interpret relevant information. Graduates will have the ability to integrate course and technical materials to develop an economically feasible and culturally sensitive plan for a given set of resources, issues, and concerns.

Program Admission

Students accepted into the Biostress Center of Excellence must have completed a minimum of 96 credit hours, have a cumulative GPA of 3.0, completed a formal application, and have taken the required building courses (see listing of courses in the Requirements section of this bulletin).

Botany (Bot)

Gary Peterson
Department of Biology and Microbiology
Agricultural Hall 304
605-688-6141
e-mail: biomicro@abs.sdstate.edu
http://www.abs.sdstate.edu/bio

The Department of Biology and Microbiology offers a Biology major with an emphasis in Botany. The Botany emphasis concentrates on the scientific study of plants. The graduate with an emphasis in Botany is qualified for professions in plant research and industry. Graduates wishing to pursue a career in a specialized area of Botany are encouraged to consider an advanced degree program. Above all, the Botany emphasis is designed to provide the student with a thorough understanding and appreciation of the Green World around us. See Biology Requirements section for curriculum.

Business Area Studies

Richard Shane
Department of Economics
Scobey Hall 136
605-688-4141
e-mail: janet_wilson@sdstate.edu

e-mail: janet_wilson@sdstate.edu http://econnet.sdstate.edu/dept/index.asp

There are numerous courses particularly useful as adjuncts to majors such as agribusiness; agricultural and resource economics; agricultural systems technology; agronomy; animal science; apparel merchandising; computer science; construction management; consumer affairs; dairy manufacturing; dairy production; economics; horticulture; hotel and foodservice management; industrial management; interior design; music management; park management; printing management; pharmacy; range science; and engineering majors. See the listing of courses in Requirements section of this bulletin.

Chemistry/Biochemistry (Chem)

James A. Rice Department of Chemistry and Biochemistry Shepard Hall 121 605-688-5151

Including the areas of Biochemistry and Clinical Laboratory Technology (MedT) also known as Medical Technology

Faculty

Professor Rice, Head; Professors Evenson, Fitzgerald, Grove, Hilderbrand, Jensen, Matthees, Sellers, Utecht, West; Professors Emeriti Emerick, Gehrke, Hecht, Olson, Palmer, Rue, Spinar, Wadsworth; Associate Professors, Majerle, Shore, Thiex; Assistant Professors Elbert, Halaweish, Sergeev; Instructor Pravecek.

Programs

The Chemistry department is approved by the American Chemical Society for training professional chemists. Graduates are certified to the American Chemical Society as being eligible for full membership following two years of graduate work or other experience in chemistry.

Department courses serve three general purposes. First, since chemistry is so closely related to other fields of study, a number of courses are offered to provide sufficient chemical background to meet professional needs. Second, a minor can be obtained by students wanting a more extensive chemistry background without majoring in chemistry. Third, you can major in chemistry by choosing one of the following curricula. Note: No grade below "C" in chemistry courses will be accepted toward a major in chemistry or biochemistry.

Chemistry .

The American Chemical Society approved curriculum is intended for students planning to pursue graduate work in chemistry or for positions in research, industrial or governmental laboratories. The department also offers a B.S. degree program for persons wishing to emphasize applications of chemistry to agriculture, business, quality control, environmental regulation, education or preparation for professional schools of medicine, dentistry or optometry. Those considering teaching should consult with the College of Education and Counseling by their sophomore year. SeEd 416, Strategies in Science Teaching, is a requirement to be certified to teach high school chemistry.

Minor in Chemistry

A minor in chemistry is offered for students wanting extensive chemistry course work without majoring in chemistry. A GPA of 2.0 in chemistry courses is required. At least 50% of chemistry courses applied toward a minor must be completed at SDSU.

Graduate Study

The Department of Chemistry and Biochemistry offers instruction leading to the Master of Science and Doctor of Philosophy degrees in Chemistry. See Graduate Catalog or contact the Department for details.

Clinical Laboratory Technology (MedT) also known as Medical **Technology**

Professor J. A. Grove, Coordinator

Medical Directors of Affiliated Schools of Medical Technology: Askae Oalbani, M.D., Mercy Medical Center, Sioux City, IA; John Barlow, M.D., Rapid City Regional Hospital, Rapid City, SD; David W. Ohrt, M.D., Sioux Valley Hospital, Sioux Falls, SD; Gene N. Herbek, M.D., St. Luke's Medical Center, Sioux City, IA.

Program Directors/Education Coordinators of Affiliated Schools of Medical Technology: Marilyn Barnett, MT(ASCP), Sioux Valley Hospital, Sioux Falls, SD; Sharon Collier, MT(ASCP), St. Luke's Medical Center, Sioux City, IA; Pam Keiffer, MT(ASCP), Rapid City Regional Hospital, Rapid City, SD; Amy Kapanka, MT(ASCP), Mercy Medical Center, Sioux City, IA.; Sr. Rose V. Brown, MT (ASCP) Penrose - St. Francis Health Services, Colorado Springs, CO.

The medical technologist is an indispensable member of the modern health team. He or she makes use of hundreds of scientific procedures devised to disclose the subtle changes that diseases produce in the body. By studying cells under the microscope, analyzing the chemical composition of body fluids and secretions, he or she can pinpoint clues to illness that might not be detected any other way. Conclusive evidence for the presence of disease as well as monitoring the success of treatment depends on laboratory findings. The medical technologist also needs to be competent in areas such as personnel and resource management, administration, teaching and research.

Clinical Laboratory Technology at SDSU

The University offers the first three years of an educational experience that provides scientific background in the chemistry and the biological sciences required for entrance into the clinical training program. The professional internship program, usually 12 months long, at an approved hospital laboratory school, qualifies a student for the Bachelor of Science degree. The clinical training can be obtained at the affiliated hospitals listed above or at other approved schools. Internships

are awarded on the basis of academic performance, recommendations and interviews. A minimum 2.50 GPA is recommended by most hospitals. SDSU cannot guarantee every student an intern position. The university has affiliation agreements with the hospitals listed above to assist you in finding an internship.

(Pre-) Chiropractic

Kathie Erdman College of General Registration **Medary Commons** 605-688-4153

E-mail: kathie_erdman@sdstate.edu

Program

Candidates for admission to chiropractic colleges accredited by the Council on Chiropractic Education are required to have a thorough grounding in the basic sciences-biology, chemistry, physics-as well as a general education in the humanities and social sciences.

Students must complete at least 90 undergraduate credits to be considered for admission to chiropractic college. Approximately half of those accepted have baccalaureate degrees. Pre-professional training and academic standing of the applicants must meet the standards of the school selected.

Civil and Environmental Engineering (CEE)

Vernon Schaefer, Acting Department of Civil and Environmental Engineering **Crothers Engineering Hall 118** 605-688-5427

Faculty

Professor Schaefer, Acting Head; Professors DeBoer, Schaefer, Selim, Sigl; Professors Emeriti Dornbush, Hassoun, Koepsell, Larson, Rollag; Associate Professors Johnson (adjunct), Reid, Tiltrum, Ting; Assistant Professors Burckhard, Schmit, Wehbe.

Programs

Civil Engineering includes the location, design, construction, operation and maintenance of highways, airports, buildings, bridges, dams, water supply and distribution systems, waste water collection systems and treatment plants, irrigation and drainage systems, river and harbor improvements and many other facilities essential in modern life.

The civil engineering program at South Dakota State University is accredited by the Engineering Accreditation Commission/Accreditation Board for Engineering and Technology (EAC/ABET).

A student's acceptance into civil engineering is based on prerequisite preparation, the cumulative grade point average (CGPA) and class standing after completion of the 1-year pre-engineering program in the College of Engineering. The number of students accepted into these majors will also depend on regional and national needs and the resources of the College of Engineering. You must contact the department head for the application details.

The overall goal of this program is to develop competent professionals capable of applying the current principles of science and engineering to the solution of problems related to civil engineering. This goal is accomplished by providing undergraduate students with an educational program that will develop their abilities to:

1. make engineering measurements and evaluate the accuracy and reliability of these measurements;

- use sketches and diagrams in the presentation of data, problems and solutions to problems;
- 3. define and solve practical engineering problems;
- 4. solve engineering problems through the use of
 - a) the principles of mathematics, physics, chemistry and the engineering sciences,
 - b) good judgment and common sense,
 - c) independent, creative and critical thinking, and
 - d) computer assistance;
- 5. recognize the engineer's obligations to
 - a) protect public health and safety, and
 - b) evaluate the social-humanistic impacts of their projects on society:
- write engineering reports and make oral presentations of technical data effectively;
- 7. work cooperatively with others in a group or team; and
- 8. use equipment and resources available to practicing engineers.

A second goal of the program is to assist students in developing a commitment to high standards of professional conduct by:

- including discussions of job expectations in terms of professional development and ethics in all upper level engineering courses;
- 2. maintaining a strong, active ASCE Student Chapter Program;
- encouraging seniors to take the Fundamentals of Engineering (FE) exam and strive toward becoming a licensed professional engineer;
- 4. promoting summer and coop employment experiences in civil engineering; and
- 5. stressing the importance of continued up-dating of engineering skills and knowledge after graduation.

First year engineering students are introduced to engineering design in GE 101, Introduction to Engineering, where they learn about the creative process through exposure to real world examples illustrating each step of the design process. Through the sophomore and junior courses, exposure to design experiences is gradually increased to demonstrate how knowledge gained in the engineering sciences can be used to solve engineering problems, promote original thought, illustrate that such work is expected of engineers and stimulate interest and enthusiasm for design. As the students enter the senior year, the design experiences in the core courses become more complex and open-ended. Design experience culminates in CEE 464/465, Senior Design Project I and II where design teams work on comprehensive, open-ended projects involving scope definition, evaluation of alternatives on the basis of economics, safety, ethical implications, and other factors, and preparation of a functional design, plans, specifications and final cost estimates.

Certain electives are provided to broaden knowledge in the social-humanistic area and to provide some technical specialization. The non-technical, and technical electives must be approved by the department head. Humanistic and social science electives must be chosen to satisfy the University Core and the more rigorous EAC/ABET requirements. To gain "in-depth" exposure in the socio-humanistic area, students must take at least two courses in the same subject area. The Civil and Environmental Engineering Department office will provide you with several social science-humanities plans of study from which you may select or you may prepare your own plan. The plan you adopt must be approved by your adviser.

To earn the B.S. degree in Civil Engineering you must have an average grade of C or better in courses taken in engineering mechanics (EM) and civil and environmental engineering (CEE).

The department will assist those interested to arrange cooperative work-study programs, after the freshman year, with consulting and testing firms, governmental agencies and industry. Credit may be obtained for the work experiences by registering for CEE 494 Cooperative Education, CEE 495 Internship or CEE 496 Field Experience. These credits will not apply toward the B.S. degree in civil

engineering but will be part of your academic records. Students are encouraged to purchase their own microcomputer by the time they achieve junior standing.

Clinical Laboratory Technology

(See Chemistry)

Clinical Pharmacy

Brian Kaatz Department of Clinical Pharmacy Pharmacy 125 605-688-6197

Faculty

Professor Kaatz, Head; Professors Fiechtner, Fischer, Mort; Associate Professors Clem, Farver, Hedge, Heins, Menke; Assistant Professors Creekmore, Dvorak, Jensen Bender, Johnson, Leicht, Lemon, Messerschmidt; Instructors Hendricks, Pulscher.

Programs

The Department provides classroom and clerkship instruction for the last two years of the Doctor of Pharmacy (Pharm.D.) degree program and also contributes classroom instruction for the pharmaceutical sciences phase of the Pharm.D. degree. Faculty are located at various practice sites which provides students the opportunity for diverse learning experiences. See the College of Pharmacy section of this catalog for admission requirements to the Pharm.D. Professional Program.

Communication Studies and Theatre (CST)

Michael Schliessmann
Department of Communication Studies and Theatre
Pugsley Center 115
605-688-6131
Michael Schliessmann@sdstate.edu

Faculty

Professor Schliessmann, Head; Professors Emeriti Denton, Hoogestraat, Meyer, Stine, Widvey; Professors Ferguson, Johnson; Associate Professors Ackman, Haleta, Tallmon; Assistant Professors Bareiss, Hefling, Lampson, Peterson, Roybal, Wheeler.

Programs

A student may major or minor in Communication Studies and Theatre, elect courses for self improvement, take courses to meet humanities requirements, or participate in speech activities. The major may choose any of the following options; Radio, Television, and Film (RTVF); Speech Communication (SpCm); Speech Education (SpEd); or Theatre (Thea).

Advanced Placement in Speech

All students are required to take Speech (SpCm) 101 for graduation; however, those with previous training and experience in speech may apply to the department to take an advanced course in Speech and earn credit for 101 concurrently. The disposition of the application for advanced placement rests with the departmental administrator. Application must be made by the end of the third semester or prior to the fourth semester of residence.

Co-curricular Activities

Theatre

Professor Johnson, Director of Theatre

Several major, experimental and student productions each year. You may be cast in or assist with a production. University credit may be earned. Summer theatre also offers graduate and undergraduate credit through Prairie Repertory Theatre.

Forensics

Professor Hefling, Director of Forensics

Opportunities are provided for participation in SDSU's nationally recognized intercollegiate Forensics program. Local, regional, and national participation is sponsored. Activities include debate, public speaking, and oral interpretation in contests, workshops, and public performances. Any regularly enrolled undergraduate student is eligible to participate. University credit may be earned regardless of major.

Radio, Television, and Film

Opportunities are provided to perform and assist in production in broadcast facilities. University credit may be earned.

Speech-Language-Hearing Clinic

Professor Lampson, Supervisor

Clinical speech, language, and hearing services are available under the supervision of American Speech-Language-Hearing Association certified personnel.

Computer Science (CSc)

Gerald Bergum Department of Computer Science Administration Building 133C 605-688-5719

Faculty

Professor Bergum, Head; Professor Salehnia; Associate Professor Emeritus Lundberg; Associate Professor Shin; Assistant Professor Hamer, Krebsbach.

Programs

The Department is structured to serve the students in three ways:

- 1. To provide educational opportunities so that all students on campus can receive educational literacy in computers.
- 2. The department offers a Bachelor of Science degree in Computer Science as well as a degree for Secondary Computer Science teachers. A Certificate Program in Microcomputer Applications sponsored by the department can be obtained through Capital University Center, Pierre, Students interested in the Computer Science degree will be accepted into the Department as pre-computer science majors. Only those students who have a 2.75 GPA following 30 credits of acceptable coursework will be considered for acceptance into the degree program.

Formal application is required for acceptance into the major. Application forms for admission into the program can be picked up at the Department. Failure to meet the application deadline of November 1, or March 1, may disqualify you from enrollment in Computer Science degree courses.

Computer Science majors must earn at least a "C" in all computer courses. Applied electives should be chosen so as to provide the student with a strong background for students planning on graduate study or careers in business, industry or teaching at the Secondary level. The choice of such courses should be discussed with the major adviser.

Fulfillment of the GPA requirement for admission into Computer Science does not assure admission. Applicants, when necessary, will be selected competitively. Enrollment will depend on availability of faculty and funding with the selection made from among those students best qualified for a career in computer science. Students interested in the Certificate Program in Microcomputer Applications should visit with the Director of Academic Affairs Outreach on the SDSU campus or with the Director of the Certificate Program in Microcomputer Applications at Capital University Center in Pierre.

3. For those students who need more support courses, a Computer Science minor is offered. The minor requires three programming courses which permit the students to match their Computer Science education with their major area. A grade of "C" or better is required in all minor coursework and a formal application for a Computer Science minor must be filed with the Computer Science Department 2 semesters before graduation. Failure to meet the deadline may disqualify you from getting a minor.

Construction Management (CM)

(See Engineering Technology & Management)

Counseling and Human Resource Development (CHRD)

Francis A. Martin **Department of Counseling and Human Resource Development** Wenona Hall 113 605-688-4190

e-mail: Francis_Martin@sdstate.edu

Faculty

Professor Martin, Head; Professor Muxen; Associate Professors Harper, Wilson, Britzman; Assistant Professors Hopponen, Jones, Trenhaile; WRGC Assistant Professor Knox.

Programs

The department offers a M.S. in Counseling and Human Resource Development. Four programs are available to earn the M.S. degree in CHRD Three of these require a minimum of 48 credit hours and one requires 36 credit hours. All require both written and oral comprehensive examinations. See the Graduate Bulletin for descriptions of available options.

Emphasis

Three programs in CHRD are clinical, each with a different emphasis, including School Counseling, Community Counseling, and counseling in a Student Affairs setting. These programs share a core set of courses. The fourth program is the Student Personnel Track. It prepares students to administer student personnel programs.

Criminal Justice (CJus)

Donna Hess Department of Rural Sociology Scobey Hall 224 605-688-4132 e-mail: rur.soc@abs.sdstate.edu

This inter-college program administered by the Department of Sociology is available to students majoring in any field at SDSU. The purposes of this program are 1) to provide qualified personnel for all segments of the Criminal Justice system; and 2) to help improve the competence and professional status of existing Criminal Justice personnel.

To enter the minor in CJus a student must have a cumulative GPA of at least 2.2 and take a total of 18 credit hours from courses offered in CJus and selected courses available in Sociology and Political Science. Six of these 18 hours consist of 2 required courses (CJus 201 and Soc 351). The remaining 12 hours may be selected from the list of CJus electives. An internship (Soc 495) is strongly recommended as an addition to these hours (See Sociology Internship Coordinator one semester in advance of field placement).

Students desiring more information or interested in minoring in Criminal Justice should consult with the coordinator of the program no later than the beginning of their junior year.

Dairy Manufacturing

(See Dairy Science)

Dairy Production

(See Dairy Science)

Dairy Science (DS)

John Parsons
Department of Dairy Science
Dairy-Microbiology 109A
605-688-4116
e-mail: dairy_science@abs.sdstate.edu
fax: 605-688-6276

Faculty

Professor Parsons, Head; Professors Baer, Cassel, Mistry, Schingoethe; Professors Emeriti Baker; Associate Professors Henning, Assistant Professors Dave, Hippen; Instructors Bonnemann, Stegeman.

Programs

Dairy Science students may choose a major in Dairy Manufacturing or Dairy Production. Under the curriculum in agriculture, each of the majors offers a general technical program, with several electives. In addition, an option in Science, Business or Ag Education is available with either of the majors. Faculty welcome the opportunity to discuss these options and job opportunities with students.

A well-equipped dairy processing plant and sales room make it possible for you to obtain practical experience while learning the principles of dairy processing. Several students work part-time in the processing plant and earn part of their university expenses. The dairy research and production unit houses a herd of 400 Holstein and Brown Swiss cattle and is a research center in feeding, breeding, and managing

a dairy herd. Equally important, it is the site for basic student training in dairy cattle evaluation and other aspects of dairy farming. The milk produced is processed as milk, ice cream, butter or cheese and used in campus eating facilities. Like the processing plant, the research and production unit offers opportunities for students to work part-time and gain practical experience while earning money for expenses. Leadership opportunities are available through participation in the Dairy Science Club, Dairy Cattle Judging, and Dairy Products Evaluation Teams.

(Pre-) Dental

Dr. Nels Granholm Department of Biology and Microbiology Northern Plains Biostress Lab, 214 605-688-4554

e-mail: nels-granholm@sdstate.edu

Program

Candidates for admission to dental schools usually have a rigorous undergraduate preparation. Subjects developing scientific curiosity and knowledge, such as chemistry, physics, biology and mathematics, should be taken, as well as those that develop understanding of human relations and general social awareness.

Dental schools in the U.S. require three years of college education, and most prefer baccalaureate degree candidates. The Council on Dental Education supports the trend in admission policies which encourages the acquisition of a baccalaureate degree prior to dental school enrollment.

There are basic pre-dental education subjects that must be completed prior to gaining admission to a dental school. Since dental schools vary as to the required pre-dental education subjects, it is recommended that the pre-dental student consult two or three dental college catalogs to determine specific entrance requirements. Many dental school catalogs are available in The Career and Academic Planning Center. If you specify a pre-dental program choice you will be assigned to a pre-dental adviser who will help secure additional information on the requirements for admission to a dental school of your choice.

Admission to dental college is selective. You should prepare to meet the requirements of two or three colleges of your choice. Above average grades are required in pre-dental courses. Students who fail to maintain a B average should be prepared to make alternate career choices.

Requirements for admission to all accredited schools of dentistry include credit for one full year of English, biology, physics, general chemistry, and organic chemistry. These are minimum basic requirements.

The outlined program for pre-dental students is intended to serve as a guideline to meet the requirements of most of the dental colleges in the U.S. Variations in the program may be arranged with the pre-dental adviser to meet the requirements of a particular school of the student's choice.

Dietetics

(See Nutrition, Food Science and Hospitality)

Economics (Econ) and Business

Richard Shane Department of Economics Scobey Hall 136 605-688-4141 e-mail: janet_wilson@sdstate.edu http://econnet.sdstate.edu/dept/index.asp

Faculty

Professor Shane, Head; Professors Beutler, Dobbs, Gilbert, Janssen, Kim, Lamberton, Lyons, O'Brien, Peterson, Pflueger, Professors Emeriti Aanderud, Allen, Anderson, Greenbaum, Hsia, Kamps, Lundeen, Murra, Taylor, Thompson; Associate Professors Adamson, Cumber, Fausti. Franklin, Sondey; Associate Professors Emeriti Kelsey, Sogn; Assistant Professors Diersen, Fredrickson, Klein, Qasmi, Santos, VanderSluis, Zimmerman; Instructors Ellingson, Gustafson, Rasmussen; Marketing Specialist May.

Programs

The Economics Department teaching objectives are to:

- 1. present the general economic principles necessary to understand the complexities of the economic and business world;
- 2. train the student to apply economic concepts and techniques for decision-making in fields such as agricultural business, agricultural and resource economics, economics, and business; and,
- 3. provide a foundation for graduate work in economics, agricultural and resource economics, business administration, management, finance, law and other related areas of study.

The Department of Economics offers majors leading to a Bachelor of Science or Bachelor of Arts Degree in either Agricultural Business or Agricultural and Resource Economics from the College of Agriculture and Biological Sciences. The Department also offers a major in Economics leading to a Bachelor of Science Degree from the College of Arts and Science. Within the Economics Major, a student can choose an option in Business.

Accelerated Master's Program

An accelerated program is offered that allows exceptional students to start Master's degree studies while completing their undergraduate degree. The combined degree program can be completed in five years.

The following minors are available through the Department of Economics: Accounting, Agricultural Business, Agricultural Marketing, Economics, and Business.

The programs provide students with a background to pursue careers in farm and ranch management, agricultural finance, agribusiness, banking, business finance, business management, sales and marketing, public service, research, and related fields.

Entry Requirement

Formal application is required for admission into one of the departmental programs. To be admitted, the student must have completed at least 64 semester credits toward graduation, have a cumulative grade point average of at least 2.1 for all courses taken, and have earned at least a 2.1 grade point average for the following courses: Econ 201, Econ 202, Acet 210, Engl 101, and Math 222 (or Math 123).

Students interested in the accelerated program should contact the Economics Department graduate coordinator to obtain application requirements.

Courses in the Department of Economics are offered in the following areas: Accounting (Acct), Agricultural and Resource Economics (AgEc), Business Administration (BAdm), and Economics (Econ). See the Course Descriptions section of this bulletin.

Educational Leadership

Larry H. Brown Department of Educational Leadership Wenona Hall 112 605-688-6365 e-mail: Larry Brown@sdstate.edu

Faculty

Associate Professor Brown, Head; Professors Edeburn, Erion, Romerein-Holmes, Steinley; Associate Professor Amiotte; Assistant Professor Peterson; WRGC Professor Marshall.

Programs

The department provides a Masters of Education (M.Ed.) in Curriculum and Instruction and in Educational Administration. Requirements for Masters programs can be completed at either the campus in Brookings or at the West River Graduate Center in Rapid City. Many of the courses are also offered through the SDSU Sioux Falls program.

Curriculum and Instruction (C&I)

This major is appropriate for K-12 classroom teachers, recreation program staff, adult and community educators, Cooperative Extension Service personnel, and junior/community college instructors.

Within the major, the following emphases are available: Career and Technical Education, Adult and Higher Education, Computer Education, Content Areas (English, mathematics, social studies, etc.), Diversity in the Classroom, Gifted Education, Middle School Education, and Reading Education. The department also offers an M.Ed. in Curriculum and Instruction in Sioux Falls in cooperation with the University of South Dakota, Dakota State University, and Black Hills State University. Much of the Career and Technical Education emphasis is available through distance education.

Educational Administration (EdAd)

This major is designed to provide the basic professional preparation for those who expect to become qualified administrators in schools where certification is required, and for other institutions, businesses, industries and service-oriented agencies where an administrative program is of value. The South Dakota Board of Education requires four years of teaching experience for administrator certification.

Within the Educational Administration major, the following emphases are presently available: Elementary Administration, Secondary Administration, and Adult and Higher Education.

Electrical Engineering (EE)

Lewis Brown
Department of Electrical Engineering
Harding Hall 201
605-688-4526
www.engineering.sdstate.edu/~eeweb/

Faculty

Associate Professor Brown, Head; Professors Ellerbruch, Finch, Helder; Professors Emeriti Dracy, Knabach, Sander, Storry; Associate Professors A. Andrawis, M. Andrawis, Galipeau, Hietpas; Associate Professor Emeritus Moore; Assistant Professor Ropp.

Programs

Electrical engineers play key roles in solving technical problems in many areas including biomedical engineering, communications, computers and digital hardware, electronic materials and sensor devices, image processing, and power and control systems.

The mission of the Department of Electrical Engineering, in support of the mission of the College of Engineering, is to provide a highly respected, rigorous and practical education in electrical engineering so that our graduates may assume engineering positions of responsibility and leadership; to conduct meaningful research and scholarly activities, with regional emphasis, which broadens the base of engineering and scientific knowledge; and to provide technical assistance in the field of electrical engineering to existing and emerging industries and businesses in South Dakota and to our regional and global communities.

Specific program objectives for the Department of Electrical Engineering include:

- 1. To integrate engineering computer tools throughout the EE curriculum.
- 2. To provide students with real-world team design experience.
- To provide students with enhanced experience in both written and oral communications.
- To assist those students who wish to secure technical employment while completing their degrees.
- 5. To assist graduating students in their employment placement.

A 2-semester sequence taken in the senior year, Senior Design I-II, places every student on a design team that designs, builds, tests, and demonstrates a significant design project. The design projects are often solicited from industry and provide students with valuable real world team design experience.

Academic and Graduation Requirements

Realizing that each student is an individual, the degree program is arranged to include 31 credits of elective course work. This elective flexibility allows a student to pick a technical and non-technical course program that best suits his/her needs and interests.

A student's acceptance into the Electrical Engineering program is based on prerequisite preparation, the cumulative grade point average (CGPA) and class standing after completion of the one-year preengineering major in the College of Engineering program. The number of students accepted in this major depends on regional and national needs and the resources of the College of Engineering. The department head should be contacted for application details.

Students will be admitted into junior level EE courses only after they have completed EE 220, 221, 222, and 223 with minimum grades of "C." Students will not be permitted to enroll in subsequent courses for which either EE 220 or EE 221 is a prerequisite until the above requirement has been met. In addition to the graduation requirements and academic performance specified in this catalog, to earn the Bachelor of Science degree in Electrical Engineering a student must earn a CGPA of 2.0 or higher for all his/her Electrical Engineering courses combined. All graduating seniors are also strongly encouraged to take the

Fundamentals of Engineering examination which leads to professional registration.

The non-technical (18), technical (13), and required (105) credits comprise the 136 credit degree.

Graduation requires a minimum of six approved credits in the Humanities/Fine Arts and a minimum of nine (9) approved credits in the Social Sciences, plus two (2) approved credits in either area, for a total of 17 credits. The Humanities/Fine Arts and Social Science nontechnical elective courses must be chosen to satisfy the institution's General Education Core requirements and must include in-depth course work to meet the rigorous EAC/ABET requirements. The Department of Electrical Engineering can provide the student with a list of approved courses showing how the depth requirement can be met.

The 13 required technical electives must satisfy the following requirements:

- Three credits must be taken from 300 level or higher math or basic science courses and must 1) be selected from an approved Electrical Engineering Department course list, 2) support a coherent technical program, and 3) be approved by the Electrical Engineering Department.
- At least 10 credits must be from Electrical Engineering courses, including at least 6 credits from 400 level.

Many students benefit from the department's Cooperative Education program which allows students to receive limited technical elective credit for working in industry while they complete their degree in Electrical Engineering. Many such students gain valuable work experience in industry during the summer months without extending the time required to complete the BS degree. The Department of Electrical Engineering provides assistance to these students desiring this practical experience. The department also provides assistance in resume preparation and job placement.

Electronics Engineering Technology (ET)

(See Engineering Technology and Management)

Engineering Mechanics (EM)

(See Mechanical Engineering and Civil & Environmental Engineering)

Don Froehlich Department of Mechanical Engineering Crothers Engineering Hall 210 605-688-5426

Vernon Schaefer Department of Civil & Environmental Engineering Crothers Engineering Hall 118 605-688-5427

Course objectives in Engineering Mechanics are to develop an educational background by a thorough understanding of basic subjects common to various branches of engineering. Courses are designed to emphasize basic theory and to present applications in different areas of engineering.

Engineering Physics

(See Physics)

Engineering Technology and Management (ETM)

Reza Maleki Department of Engineering Technology and Management Wenona Hall 308 605-688-6417 e-mail: Reza Maleki@sdstate.edu fax: 605-688-5041

Faculty

Professor Maleki, Head; Professors Emeriti Heusinkveld, Skubic; Professor Sorensen; Associate Professor Lu, Reposa; Assistant Professors J. Froehlich, Garry, Kreyger; Instructors Haug, Mattson, Sternhagen, H. Svec, R. Svec, M. Tolle.

Programs

The Department of Engineering Technology and Management offers three Bachelor of Science programs which include Construction Management (CM), Electronics Engineering Technology (EET), and Manufacturing Engineering Technology (MNET). Each program provides practical, hands-on experiences many employers look for when hiring new graduates of such programs. These programs are developed and continuously updated to enhance the employability of the students enrolled in these programs. The Department also offers and coordinates a Masters program in Industrial Management (MSIM). For more information about MSIM, please see the Graduate Bulletin.

Construction Management (CM) Program Coordinator: John Reposa, 605-688-6112 e-mail: John Reposa@sdstate.edu

Construction, the largest industry in the United States, plays a significant role in the nation's economic life, and continues to grow in size and scope. Employment opportunities are excellent in this highly competitive, exciting and diversified business. Properly educated people can expect exceptional job opportunities.

The Construction Management program prepares graduates for employment in the construction industry to effectively manage various construction projects. The program integrates courses and topics from business management, construction engineering, and construction management. This unique combination of various disciplines provides the graduates of this program to perform effectively as construction managers in the construction industry. Graduates from this program find jobs in many construction management related areas including, but not limited to, cost estimators, project managers, and project superintendents. The CM curriculum has been developed using the guidelines provided by the Associated Schools of Construction (ASC) and the Associated General Contractors (AGC). The CM curriculum meets the requirements of the American Council for Construction Education (ACCE) which is the accreditation agency for construction management programs. Updated program information is available from the Department.

Electronics Engineering Technology (EET) Program Coordinator: Jerry Sorensen, 605-688-6239 e-mail: Jerry_Sorensen @sdstate.edu

In today's complex world, electronics and computers permeate every facet of our lives, and will do so more in the future. This growth can provide exciting, challenging, and rewarding career opportunities for forward-looking students in Electronics Engineering Technology. Engineering technology is that part of the technological field that requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities. The engineering technologist is often a member of an engineering team, consisting of an engineer, engineering technologist, and engineering technician.

Graduates use their technical and practical proficiency to implement and extend current technology, and may develop prototype products, optimize designs, manage system operations, or provide technical customer support. These electronics professionals take a hands-on approach to applying engineering methods and principles. Their broad range of knowledge prepares them to engage in lifelong learning as new technologies emerge and to progress in their professional responsibilities.

To meet industry's need for this type of worker, the EET program blends theoretical concepts with practical lab work, resulting in graduates who are well-grounded in current technology and in electronics principles and applications. Coursework integrates interpersonal and communication skills and relates electronics theory and applications to the real world. In addition, the student will gain a background in production management skills. After learning electronics basics in the lower-level coursework, in the last 2 years the student chooses an emphasis and takes specific coursework in one of three areas: business, computer networking, or industrial electronics. Updated program information sheet is available from the Department.

General Engineering (GE)

Through academic advising, the Department provides the students who are undecided in their choice of a specific engineering or engineering technology and management discipline, an opportunity to consider many options while taking the fundamental courses required in most programs offered through the College of Engineering. Guidance is also provided for those students who are not pursuing professional engineering or engineering technology and management degree programs but wish to establish a fundamental understanding in a technical area.

General Engineering (GE) Service Courses

The Department offers a number of General Engineering (GE) courses in support of many programs offered through the College of Engineering. These include a number of courses in the areas of engineering graphics, computer aided drafting, computer aided design, and manufacturing processes.

Manufacturing Engineering Technology (MNET) **Program Coordinator:** Carrie Mattson, 605-688-6583 e-mail: Carrie_Mattson@sdstate.edu

This program provides the students with the opportunity to learn about the basic and advanced manufacturing technologies, industrial automation, and management techniques for improving the way manufacturing companies operate. Integral to this program are courses and concepts in math, science, communications, social studies, and teamwork, enhancing the employability of the graduates of this program. The graduates of this program are prepared to perform effectively at the entry level as manufacturing engineers in many related ares such as quality, supervision, production planning, product and process design, work design, plant layout, and plant management. The Manufacturing Engineering Technology curriculum at South Dakota State University has been developed using many guidelines provided by the National Center of Excellence for Advanced Manufacturing Education, the Society for Manufacturing Engineers, and input from many of the regional manufacturing businesses. Updated program information sheet is available from the Department.

English (Engl)

Kathleen Donovan **Department of English Scobey Hall 014** 605-688-5191

Faculty

Distinguished Professor Woodard; Professors Brandt, Duggan, Evans, Kildahl, Ryder, Taylor, Williams; Professors Emeriti Alexander, Brown, Foreman, Marken, Witherington, Yarbrough; Associate Professors Danker, Donovan, Flynn, Keller, O'Connor; Assistant Professor Haug; Instructor Brown.

Programs

Courses in the English Department are divided into two areas: English (Engl) and Linguistics (Ling); see the Course Descriptions section of this bulletin. The English Department offers instruction in clear thinking and expression; in the history and use of language; in literature (British, American, World, Native American, Women's, Ethnic, etc.); in literary criticism; and in technical communications. An English major prepares students for teaching careers; for writing and editorial work; for professional schools of law, business, theology, library science, and social work; and for any endeavor in which facility in the use of language is essential.

Students may major or minor in English. The English Major leads to a Bachelor of Arts (B.A.) degree in one of two programs: Option A: English major, 39 credits in courses prefixed Engl and Ling (not counting Engl 101, 201, and non "Honors" 210); Option B: English Education major, 36 credits in courses prefixed Engl and Ling (not counting Engl 101, 201, and non "Honors" 210) together with the courses required by the College of Education. Option B students must register with the College of Education and Counseling before beginning Education courses, usually in the sophomore year.

English majors in both options must take Hist 121 and 122, as well as foreign language courses required for the B.A. Minimum college and university requirements are given in the appropriate sections of this bulletin and are incorporated in the curriculum plans listed in the Requirements Section. Advisers assist students to ensure that all department, college, and university requirements are met.

The English Minor. The English minor requires 20 credits in English (not counting Engl 101 and 201), of which 9 hours must be in British literature, and 6 hours in American literature. Minors must also take one of the following courses: Engl 379, 383, Ling 203, 425, 420, 443, 452.

The Master of Arts (M.A.) Degree. The Department offers the Master of Arts in English. For details consult the Graduate Bulletin.

Entomology (Ent)

(See Plant Science)

Environmental Management (EnvM)

Gary Peterson Department of Biology and Microbiology Agricultural Hall 304 605-688-6141 e-mail: biomicro@abs.sdstate.edu http://www.abs.sdstate.edu/bio

Faculty

Professor Peterson, Acting Head; Professors Gibbons, Granholm, Hildreth, Hutcheson, Kayongo-Male, Larson, McMullen, Reese, Ruffolo, Westby, Whalen; Professors Emeriti Baker, Chen, Hugghins, Morgan, Myers, Pengra; Associate Professors Bleakley, Cheesbrough, Erickson, Gibson, Hurley, Rowland, Sutton, Troelstrup; Associate Professor Emeritus Morrill; Assistant Professors Dieter, Gilmanov, Pedersen, Yen; Instructors Willgohs, McCutcheon; Adjunct/Joint faculty Benfield (Vet.Sci.), Chase (Vet.Sci.), Diggins (Augustana), Evenson (Chem.), Fennell (HFLP), Francis (Vet.Sci.), German (WRI), Henning (DS), Johnson (PS), Majerle (Chem.), McFarland (ARS), Nelson (Vet. Sci.), Reidel (NGIRL-USDA), Rietz (Brookings Medical Clinic), Specker (FFS), West (Chem.).

Program

The Environmental Management Major is designed to prepare students for careers in government, industry, consulting and graduate study in environmental science or management. Students receive a strong background of core courses in biology, chemistry, environmental science, geology, mathematics, physics, soils, and statistics. During the sophomore year, students participate in discussions with working professionals. These discussions serve to guide students toward a particular area of environmental science. Students work closely with their adviser to design a program of study leading toward a particular career objective. A broad selection of elective courses provides flexibility for development of specialization within a particular focus area. A senior seminar and capstone course in integrated natural resource management provide work related experience for graduating senior students. Students are strongly encouraged to cultivate working relationships with prospective employers throughout their program. A minimum GPA of 2.0 must be maintained in the major and chemistry courses.

European Studies Program (EurS)

Gordon Tolle Department of Political Science Scobey Hall 304 605-688-4912

e-mail: Gordon_Tolle@sdstate.edu

A faculty committee appointed from many related disciplines advises the Coordinator.

European studies combines the insights of many disciplines as they are focused on Europe. These disciplines include language and literature, history, art history, philosophy, music, sociology, economics, political science, geography, health science, education, family studies, business and public administration. The topics for the two core courses, Topics in European Culture and Topics in European Society, will vary.

The benefits of this interdisciplinary program are as follows. Cultural Understanding: European Studies provides students with an opportunity to develop greater understanding of the European cultures which have had a great influence on American culture and on the entire world. Social Awareness: Appreciation of the character of various European countries as well as insight into alternative social arrangements comes through examination of the social institutions and policies of other "developed" or "first world" countries. Careers: Students whose career interests focus on Europe through jobs such as trade and commerce, tourism, primary and secondary teaching, positions in multi-national firms and various international agencies will find the European Studies Program provides an introduction to many cultural and social facets of countries where they may later work, tour, live, or study. Travel: Background information about European countries, their languages, history, and people, prepares students for travel on the continent.

Students are required to take courses in both humanities and social sciences. Many of the courses in the program can be used to satisfy the university core requirements (e.g., French 101 fulfills part of a language requirement. EurS 301 fulfills part of the social science requirement.). In addition, students may use up to a maximum of eight credits from their majors. The students must take the interdisciplinary topics courses: EurS 300, Topics in European Culture, and/or EurS 301, Topics in European Society (6 credits).

While it is not a requirement, living and studying in Europe may also be used to earn some credits.

To enroll in this program, contact the coordinator, Dr. Gordon Tolle, Political Science, phone 605-688-4912. Upon completion of the program and graduation, a notation will be entered on your transcript.

Family and Consumer Sciences (FCS)

(See Human Development, Consumer and Family Sciences)

Family and Consumer Sciences Education (FCSE)

(See Human Development, Consumer and Family Sciences)

Food and Biological Materials Engineering (FBME)

Van Kelley, Acting Department of Agricultural and Biosystems Engineering **Agricultural Engineering 107** 605-688-5141 http://www.abs.sdstate.edu/ae/

Faculty

Professor DeBoer, Acting Head; Professors Anderson, Hellickson, Ullery, Werner; Professors Emeriti Chu, Durland, Wiersma; Associate Professors Adelaine, Humburg, Julson; Associate Professor Emeriti Lytle; Assistant Professors Bender, Campbell, Kelley, Muthukumarappan, Pohl, Schipull, Stange; Assistant Professor Emeriti Pahl.

Programs

Food and Biological Materials Engineering is a unique educational option in Agricultural and Biosystems Engineering that provides students with an exceptional opportunity to serve the food and fiber processing industry. The processing of biological materials adds value to agricultural commodities and provides additional capacity for economic growth in the region. Graduates will have the capability to design, install and maintain new technologies that are used in the food and fiber industry.

Students are given foundation courses in mathematics, physics, chemistry and microbiology. Additional course work stresses communication skills, engineering mechanics, food science, food safety, and engineering design. This program of study will prepare you for entry-level positions with fruit and vegetable processors, grain millers and bakers, beverage companies, oil processors, chemical companies, pharmaceutical companies and meat processors. Food and Biological Materials Engineering offers an outstanding career opportunity to the student who has an interest in the biological and physical sciences.

Bachelor of Science graduates from the Food and Biological Materials option in the Agricultural and Biosystems Engineering major should possess the following attributes at the time of their graduation:

- 1. Understanding of engineering concepts associated with food and biological materials engineering and food processing.
- 2. Ability to apply engineering design principles and practices to solve problems associated with food and biological materials engineering and food processing.
- 3. Strong background in mathematics, natural sciences and engineering design.
- 4. Excellent critical thinking and problem solving skills.
- 5. Competency in computer technologies and instrumentation.
- 6. Excellent communication skills.
- Capability to be effective and productive team members.
- Ability to perform "hands-on" tasks.
- Appreciation for the benefits of professional (including ethical) behavior.
- 10. Appreciation for the arts and humanities.

Engineering design is taught throughout the academic program beginning with the freshman ABE 122 course and culminating in a two semester, senior capstone design experience via the ABE 411 and ABE 422 courses. Senior students are members of design teams which design. build, test and demonstrate engineered products. Design projects solicited from industry provide students with relevant "real world" design experience.

See Agricultural and Biosystems Engineering for courses and curriculum.

French (Fren)

(See Modern Languages)

General Agriculture

Charles McMullen
College of Agriculture and Biological Sciences
Agricultural Hall 156
605-688-5133
e-mail: academic.programs@abs.sdstate.edu

Programs

The General Agriculture curriculum is designed for the student undecided as to a major field of study within the area of agriculture, or for the individual who may want to combine multiple fields of study within agriculture, or planning to return to the farm or ranch after college. A large number of free electives are available allowing you to search for a major or take courses in the different disciplines needed for a diversified career or to manage a production unit. Two options are included in this curriculum: a two-year Associate of Science degree and a four-year Bachelor of Science degree.

The **two-year program** is designed for the student who does not find it advisable or possible to enter a regular four-year college program. A typical student in this situation could be one who desires some education but not necessarily four years before returning to the farm or ranch.

All major field of concentration courses must be from departments within the College of Agriculture and Biological Sciences and be related to agriculture. All courses in the major field of concentration need not be in one department, although this may be a possibility. Consult your adviser when selecting major field of concentration courses. These courses should relate to your career interests.

General electives may be selected from any area. Electives are offered so students may develop special talents or interests in General Agriculture. The choices of courses are left to the student, providing the selections made are consistent with the academic standards of the University and of the College of Agriculture and Biological Sciences.

The **B.S. program** consists of approximately one-fourth agriculture; one-fourth basic science; one-fourth social science, communications, and humanities; and one-fourth elective subjects. When qualifying for a Bachelor of Science degree a student may, through a choice of electives, complete courses in business, prepare for graduate study, or enroll in special areas of study such as plant and/or animal science.

General Engineering (GE)

(See Engineering Technology and Management)

General Studies (Associate of Arts)

Allen Branum College of Arts and Science NFA 251 605-688-6619

Programs

The Associate of Arts degree in general studies provides a foundational general education at the university level supporting bachelor's degree programs, lifelong learning, leadership, service, and careers requiring general education course work.

Students completing this Associate of Arts degree will have fulfilled the Board of Regents general education core requirements for a bachelor's degree at any of the Regental universities in South Dakota. Further departmental and specific university requirements must be fulfilled for a bachelor's degree.

Genetics

Charles McMullen
College of Agriculture and Biological Sciences
Agricultural Hall 156
605-688-5133
e-mail: academic.programs@abs.sdstate.edu

Though there is no separate instructional department, a student wishing to specialize in Genetics can obtain an excellent program by selecting the following courses:

AS 332, Principles of Animal Breeding	4
Bio 343, Cell Biology	3
Bio 371, Genetics	3
Bio 372, Genetics Laboratory	1
Bio 453-553, Advanced Genetics	3
Bio 462-562, Molecular Biology I	2
Bio 464-564, Molecular Biology II	2
Bio 465-565, Molecular Biology II Lab	2
Micr 436, Molecular & Microbial Genetics	4
Micr 438, Molecular Microbial Genetics Lab	2
PS 383, Principles of Crop Improvement	

Geographic Information Systems

(See Geography)

Geography (Geog)

Roger Sandness Department of Geography Scobey Hall 232 605-688-4511

Faculty

Professor Sandness, Head; Distinguished Professor C. Gritzner; Professors, J. Gritzner, Hogan, Napton; Associate Professor Berg; Assistant Professors Gab, Samuelson; Adjunct Faculty Bliss, Loveland, Reed, Yang.

Programs

Geography is the science that studies the distribution of both physical and human features of the Earth's surface. Geographers seek to describe, relate and explain the natural and cultural phenomena that distinguish places around the world. Geographers focus upon "where" and "why" questions concerning the global environment. The process of change and an examination of how humans modify the Earth is a continual emphasis.

The Department of Geography provides coursework leading to the Bachelor of Science degree. The major requires 35 credit hours which includes Geog 131, 132, 200, 210, and 382, with 18 credits of upper division credit. In addition to the standard degree programs, there are two options available in the Geography Major: Technical Geography—Science and Environmental Planning and Management. The Technical Geography—Science Option stresses research techniques and is oriented toward future employment in governmental, industrial, military, or planning positions. The Environmental Planning and Management Option is designed to prepare students for careers in governmental, industrial, managerial, recreational areas, and commercial corporations. Minors in Geography and Geographic Information Systems are also offered by the Department.

German (Germ)

(See Modern Languages)

Gerontology (Gero)

Renee Oscarson

Department of Human Development, Consumer and Family Sciences

NFA 369

605-688-6418

e-mail: Renee_Oscarson@sdstate.edu

Interdisciplinary minors in Gerontology are available at the undergraduate and graduate levels. Contact the Coordinator of Gerontology, College of Family and Consumer Sciences, for further information on these minors.

Health, Physical Education and Recreation (HPER)

Patty Hacker Department of Health, Physical Education and Recreation Physical Education Center 269 605-688-5218

e-mail: Patricia Hacker@sdstate.edu

Faculty

Professor Oien, Head; Professor Booher; Professors Emeriti Forsyth, Huether, Williamson; Associate Professor Hacker; Assistant Professors Clapp, Erickson, Haensel, Vukovich; Instructors Barrios, Bohn, Danger, Ekeland, Etter, Hauschild-Mork, Johnson, Kirby, Liles, Margenthaler, Nagy, Neiber, Olson, Roiger, Russow, Stiegelmeier, Lecturers Bayer, Byrne, Eidsness, Johnston, Skatrud; Adjunct Professors Ramsay, Reynen, Warren.

Programs

Professional Preparation in Health, Physical Education and Recreation

Four undergraduate majors are offered within the department. These include Athletic Training, Health Promotion, HPER, and Public Recreation. Three undergraduate minors are offered including Health Education, Physical Education, and Public Recreation. Additional programs include Physical Education Teacher Education, Pre-Physical Therapy and Pre-Occupational Therapy.

The Department of Health, Physical Education and Recreation offers courses leading to a Master of Science in HPER. See Graduate School Bulletin for details.

WEL 100 - Skills for Healthy Living

WEL 100 is a university core requirement. This two credit requirement consists of one hour of lecture and two hours of lab each week. WEL 100 is an interdisciplinary survey of topics pertaining to health and wellness. Lecture topics cover a wide variety of health-oriented information. Laboratories are activity oriented and include several self-assessment surveys. Students must register for a WEL 101-119 section when registering for WEL 100.

PE 100 - Fitness and Lifetime Activities

Two credits of fitness and lifetime activities may be taken as electives. The courses are designed to develop intellectual inquiry as to

the need of physical activity and to present the opportunity to learn skills in carry-over activities promoting physical, social and emotional well being. No activities may be repeated. Examples include: Aerobics, Archery, Camping Skills, Dance, Golf, Racquetball, Swimming, Tennis, Volleyball, and Weight Training.

Course Cross Referencing

The department cross references some courses with other consenting departments within the university. Students may use the prefix they desire.

Health Promotion

September Kirby Department of HPER PEC 119 605-688-5387

e-mail: September_Kirby@sdstate.edu

Faculty

Assistant Professors Clapp, Vukovich; Instructor Kirby.

Program

Students interested in exercise science, adult fitness, cardiac rehabilitation, and wellness programming are candidates for this major. Individuals will graduate with a Bachelor of Science degree in Health Promotion. This degree prepares the student to enhance awareness, modify behavior, and create environments that promote positive health practices/behaviors. Admission requirements include: sophomore standing with a 2.5 GPA or higher, completion of HPER 180 and Wel 100, and a "C" or better in all courses taken within the major requirements. Students are required to choose classes from one of seven career orientation emphasis areas to complete course work for the major.

Health Science (HSc)

Judith A. Vinson

College of Nursing, Undergraduate Nursing Department NFA 327

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A Health Science minor is an interdisciplinary concentration offered to any undergraduate student at South Dakota State University by completing a minimum of 24 semester hours across disciplines with a **required core** of course offerings across several disciplines. The purpose of the Health Science Minor is a) to provide an opportunity for students to learn more about health and health care while pursuing other majors in the University, and b) to provide a health science minor for those individuals who wish to obtain competence in health knowledge, public health and healthful environments. The outcomes for graduates of the Health Science Minor are:

- 1. Apply public health principles, including administration and organizations, to selected disciplines.
- 2. Implement public health methods and strategies in working with individuals and groups, incorporating principles from the fields of sociology, psychology, and human growth and development.
- 3. Apply basic human health concepts gained from selected disciplines, biology, physiology, and behavioral, mental health.
- 4. Advocate for needs of people served by public health systems that demonstrate an understanding of how environment and ecology effects aggregates and communities.

The required core courses are:

- a. Biological Science courses (6 credits). These courses do not need to be sequence courses but must include science courses with the following prefixes: Bio, Micr, Zool.
- b. Required Health Science Core Courses (12 credits).
- c. Electives from set of selected courses (6 credits).

See Major and Minor Requirements section.

History (Hist)

Jerry Sweeney **Department of History Scobey Hall 322** 605-688-4311

Faculty

Professors Crain, Funchion, Miller, Sweeney; Professor Emerita Volstorff; Associate Professors Berg, Brooks.

Programs

The goals and objectives of the history program are to:

- 1. preserve, communicate, and interpret the human past;
- 2. prepare students for careers in history and related fields;
- 3. promote historical knowledge through research and other scholarly endeavors:
- 4. provide courses in history that meet the general education needs of the University community;
- 5. encourage the social, intellectual, and ethical growth of students;
- 6. foster multi-cultural awareness among students; and
- 7. serve the university and society through various history activities.

The courses offered by the Department of History are intended to prepare majors for careers in teaching, government, and other professional occupations, and to provide a necessary background for graduate work or other specialized training.

Degrees

Majors may choose either the Bachelor of Arts or the Bachelor of Science degree. The requirements in either program are 36 credits of Hist prefixed courses, which must include 121, 122, 151, 152, and 380.

The Department also offers a History Minor. See the Major and Minor Requirements section of this bulletin.

Core Curriculum

In addition to departmental requirements, a student must complete the University and College of Arts and Science core curriculum appropriate to his or her degree. See separate sections of this bulletin for these requirements.

Teaching Option

Majors who intend to teach in the secondary schools must enroll in the teacher education program; for details, contact the College of Education and Counseling.

Honors College (HON)

Robert Burns Director of Honors College Scobey Hall 308 605-688-4909

Faculty

Robert Burns, Director; Honors College Committee Members: Christopher Chase, Chandradhar, Dwivedi, Micky Flynn, Dan Kemp, Patricia Smyer, Harriet Swedlund, Barry Thompson, Joseph White.

Program

Graduation with "Honors College Distinction" is earned by completing the requirements listed in the curriculum plan given below. The Honors College is dedicated to supporting the highest quality academic and enrichment opportunities for motivated and academically suited students who seek a high level of rigor, challenge and personalized focus in a program featuring a carefully designed, yet flexible, curriculum and attention to growth experiences outside the classroom. Qualified students are encouraged to enroll in Honors designated sections of general education courses whether or not full completion of the program is an objective.

Enrollment Requirements for Honors Courses

Qualified students may enroll in sections designated as Honors (Departmental Honors Courses or Honors Colloquia) without making formal application to the Honors College Committee. To qualify for enrollment in an Honors section, a student must have a cumulative GPA of 3.0 or higher. Students entering as freshmen must rank in the upper 10% of their graduating class or have a score of 27 or higher on the composite ACT or combined SAT at the 90th percentile.

Honors College Continuing Enrollment

Students who wish to progress toward graduation with Honors College Distinction must apply for continued enrollment, generally at the end of the freshman or beginning of the sophomore year. An application form is available from the Honors College Director. Students who are accepted continue to enroll regularly in Honors College sections of lower division courses. They can apply for Honors contract credit for regularly offered courses in which they complete additional assignments to gain Honors credit. These students will enroll in an Honors Colloquium, preferably during the junior year, and will submit and gain approval from the University Honors Committee for a directed study during the senior year.

Graduation with Honors College Distinction

To graduate with Honors College Distinction, a student must have a cumulative GPA of 3.4 or higher as of the beginning of the semester of graduation. A minimum of 27 Honors credit hours is required including 15 credit hours of Honors general education courses, 3-6 hours of Honors Colloquium, 3-6 credit hours of Honors Directed Studies, and 3-6 hours of Honors upper division contract courses. Credit hours earned in Honors Colloquium and Honors Directed Studies beyond the minimum of 3 credit hours can be applied toward Honors College requirements in lieu of Honors upper division contract course credits.

Honors Courses

1. Departmental Honors Courses. Departmental Honors courses are departmental courses or special sections of departmental courses that have received approval for the Honors course designation. Most will fulfill general education core requirements.

- 2. Honors Colloquia. The Honors Colloquia are semester-long interdisciplinary seminars with reading lists, lectures, discussions, examinations, and/or papers. The colloquia may be used to satisfy core requirement electives for the bachelor's degree and may be taken in any sequence. Each colloquium may be repeated once as the topic and reading lists change. Honors College students are encouraged to take more than the one required colloquium.
- Honors Directed Study. In the junior year, Honors College students should propose their directed study projects. The Honors College administrator will supply a set of instructions. The proposed study must be approved by the University Honors College committee. The proposal includes an education plan, career plan, objectives, theory base, methodology, bibliography, time schedule, list of planned outcomes (products), and a plan for reporting the results to an appropriate audience.

Horticulture, Forestry, **Landscape and Parks** (Ho, La, PR)

Peter Schaefer

Department of Horticulture, Forestry, Landscape and Parks Northern Plains Biostress Laboratory 201A

605-688-5136

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e-mail: SDSU HFLP@sdstate.edu

Faculty

Professor Schaefer, Head; Professors Johnson, Stubbles; Professors Emeriti Collins, Peterson, Prashar; Associate Professors Ball, Fennell, Graper, Maca; Associate Professors Emeriti Johnson, Martin; Assistant Professor Schleicher; Instructor Evers.

Programs

The department offers instruction leading to the Bachelor of Science in Agriculture degree with majors in Horticulture, Landscape Design, and Park Management. Courses are offered in Horticulture (Ho). Landscape Design (La), and Park Management (PR). See the Course Descriptions section of this bulletin.

Horticulture (Ho)

The Horticulture major is designed to prepare students for careers in nursery production, landscape and turf maintenance, garden center operation or greenhouse production, or for entry into research and graduate study in horticulture. Greenhouse facilities and extensive field plots in woody and herbaceous ornamentals, fruit, and vegetables provide students with the opportunity to experience all aspects of plant production and management.

Students interested in crop management and production technologies of greenhouse, nursery, turf, fruit, or vegetable crops can tailor their program of studies using the Production Emphasis curriculum. Students interested in pursuing careers in managing nurseries, landscape maintenance, garden center, or greenhouse businesses should follow the Business Option curriculum. Students interested in graduate study should follow the Science Option curriculum.

Landscape Design (La)

Landscape Design is the art of design, planning, and management of outdoor spaces for human use and habitation. Cultural and scientific knowledge are applied to the use and arrangement of natural and manmade elements with concern for resource conservation, stewardship,

and the environment. Graduates work in a wide variety of areas in the landscape industry, as designers and planners in public and private practice, and as environmental designers and managers.

Park Management (PR)

The curriculum in Park Management is designed to prepare students for professional positions in parks and outdoor recreation. Employment opportunities exist with federal, state, county, and municipal parks and recreation agencies and with private recreation and tourism enterprises. A 2.0 GPA or better is required to transfer into the curriculum and to graduate in park management.

Hotel and Foodservice Management (HFM)

(See Nutrition, Food Science and Hospitality)

Human Development and Family Studies (HDFS)

(See Human Development, Consumer and Family Sciences)

Human Development, Consumer and Family Sciences (CA, HDCF, FCS, FCSE)

Mary Kay Helling Department of Human Development, Consumer and Family **Sciences NFA 371** 605-688-6418

Faculty

Associate Professor Helling, Head; Professors Aamot, Nichols; Professors Emeriti Gilbert, Kranzler, Richardson; Associate Professors Enevoldsen, Gilkerson, Good, Tidemann; Assistant Professors Bell, Branum, Ceglian, Cutler, DeBates, Farris, Gardner, Godfrey, Oscarson, White.

Programs

The Department offers majors in Consumer Affairs, Early Childhood Education, Family and Consumer Sciences Education, and Human Development and Family Studies. Early Childhood Education students may also enroll in the Cooperative Program in Elementary Education with Black Hills State University or Dakota State University. Minimum college and university requirements are given in the appropriate sections of this bulletin and are incorporated into curriculum plans for each major. Advisers assist students in personalizing their curriculum plans and ensuring all requirements are met.

Consumer Affairs Major

Students develop abilities in management, planning, organizing, problem solving, and communication. Graduates work for business, government, and nonprofit organizations. Students develop a program focus in both Family and Consumer Sciences and business and/or media. Students participate in an internship experience in a business or organization compatible with their career goals.

Early Childhood Education Major

The ECE major is designed for students interested in working with young children and their families in early childhood education settings such as child care, preschool, public schools, Head Start and related programs. Students may also elect to participate in the Cooperative Elementary Program. This area of study requires a major in Early Childhood Education at SDSU and an additional 2-3 semesters of Elementary Education certification course work at BHSU or DSU.

Family and Consumer Sciences Education Major

Graduates meet certification requirements to teach Vocational Family and Consumer Sciences. They develop abilities in management, planning, communication and organization, leading to careers in education, teaching, Cooperative Extension, business, government and community services.

Human Development and Family Studies Major

The major focuses on human development, behavior, and relationships throughout the lifespan. Course work, observation, and practical experience offer students the knowledge, skills, and experiences necessary for careers in individual and family service settings, child focused human services, and/or continued course work in graduate school.

Minors

Minors are available in Gerontology, Consumer Affairs, and Human Development, Child and Family Studies.

Interior Design (ID)

(See Apparel Merchandising and Interior Design)

Journalism and Mass Communication (MCom)

Richard Lee
Department of Journalism and Mass Communication
Printing and Journalism 209
605-688-4171

 $e\text{-}mail: Richard_Lee@sdstate.edu$

Faculty

Professor Lee, Head; Professor Olson; Professor Emeritus Markland; Associate Professors Getz, Giago, Lucchesi, Perpich; Associate Professors Emeriti Cline, Laird; Assistant Professors Hinde, Paulson; Instructor Klock.

Programs

The four-year journalism program awards either a bachelor of arts or bachelor of science degree. Students select one of the following sequences within journalism: advertising, broadcast journalism, or news-editorial.

The department cooperates with the College of Agriculture and Biological Sciences to offer a four-year bachelor of science degree in agricultural journalism.

Journalism (MCom)

The department is accredited by the national accrediting body of journalism and mass communication, the Accrediting Council on Education in Journalism and Mass Communications. It is one of 105 schools of journalism so accredited. The department has been accredited

continuously since accrediting began in 1948. The department subscribes to the accrediting body's philosophy of one-quarter of the student's work in journalism and three-quarters of the student's work in liberal arts courses. Journalism students take a minimum of 30 credit hours in journalism, but may take no more than 36 credit hours without extending the 128-hour requirement for graduation. Journalism students must have a "C" or better in Freshman Composition; must have a graduation average of 2.5 in journalism courses; and must have grades of "C" or better in all major courses.

News-Editorial Sequence. Students who want to be reporters or editors for newspapers, magazines, wire services or who want to work in public relations or government information agencies usually take this sequence.

Broadcast Journalism Sequence. Students who want to work in news in radio and television take this sequence.

Advertising Sequence. Students who want to work in newspaper, broadcast, or magazine advertising sales or production or who want to work in advertising agencies or with advertising departments take this sequence.

Agricultural Journalism. Students may major in both agriculture and journalism thus preparing themselves for careers in many areas that draw upon mass communication skills and a knowledge of agriculture. Those careers include reporting and editing for agriculture magazines and newspapers, for agriculture sections of general newspapers, for public relations or advertising in agribusiness, and for farm broadcast.

Minor in Journalism. Available for students majoring in other fields. Courses required are newswriting and reporting, and other journalism courses to total 16 credits.

Graduate Work in Journalism. An M.S. degree is offered. (See the Graduate School Bulletin for details.)

Facilities. The department will move in June of 2000 into expanded and renovated facilities that cost \$2.4 million. There will be four computer laboratories-for newswriting; for news editing and typography; for broadcasting and advertising; and for photojournalism. All will have state-of-the-art equipment. Broadcast and advertising courses will be in the Joe L. Floyd New Media Laboratory. It will be equipped with high-end Macintosh computers and connected to digital video and audio production suites. There will be two conference rooms, a reading room, a student lounge, and individual offices for the department's nine faculty members. The journalism building has been renamed Yeager Hall in recognition of the contributions of Anson and Ada May Yeager. Mr. Yeager was the long-time editor of the Argus Leader in Sioux Falls.

Lakota (Lak)

(See Modern Languages)

Landscape Design (La)

(See Horticulture, Forestry, Landscape and Parks)

Latin American Area Studies Program (LAAS)

Deanna Dykstra Rev. Coordinator College of Arts and Science **NFA 117** 605-688-4273

Program

The student may cross college and department lines to pursue, with the study of Spanish, a coordinated study of the geographical, cultural, socio-economic and political life of Latin American countries. The program is primarily vocational. The curriculum is tailored for those desiring a Latin American background in conjunction with a disciplinary specialization in fields such as history, economics, political science, geography, anthropology, Spanish American literature and sociology, or in one of the professional colleges. As a result the student will normally carry a major in a particular discipline such as Food and Nutrition or Agronomy together with the LAAS program. This program provides preparation for additional vocational opportunities in Agriculture, Family and Consumer Sciences, Nursing, Foreign Service, Peace Corps, international business and numerous positions with government, the United Nations and private corporations involved with or in Latin America. The program should also facilitate improved communication and understanding between the peoples of these countries and the U.S. Courses should be integrated with the student's vocational major. The student should see a faculty adviser and the coordinator of LAAS.

(Pre-) Law

Robert Burns **Department of Political Science** Scobev Hall 308 605-688-4909

E-mail: Robert Burns@sdstate.edu

Program

The formal academic training for law includes, with few exceptions, four years as an undergraduate leading to a bachelor's degree and three years in law school. Entering students who are undecided as to major choice and desire to prepare for law school may enroll in the College of General Registration. However, you will be required to declare an academic major during your freshman or sophomore year. If you enroll under this classification you are assisted by a Pre-Law adviser in planning your courses of study. Entering students who have chosen a major and desire also to prepare for law school enroll in the college at SDSU that offers this particular major. They may request pre-law as an emphasis and be assigned to a pre-law adviser who will assist them in planning course schedules.

The pre-law student should be involved in an undergraduate program which is intellectually challenging and which requires rigorous academic discipline. No specific subjects are prescribed for law school admission. You may select any undergraduate major available at SDSU. Law schools welcome and encourage a variety of educational backgrounds among their students. Breadth and intellectual maturity are more important than particular subject matter. However, law schools do recommend that the pre-law curriculum be carefully selected.

A reasonable exposure to such subjects as political science, history, literature, English composition, economics, sociology, and philosophy will provide a good background for the full appreciation of the law. An important skill in law school is writing ability so undergraduate courses that develop this skill should be stressed. Electives such as drama and

theatre arts, debate, creative writing, and speech can help in sharpening those skills needed by a member of the legal profession. Finally, the discipline used in the study of science will help prepare the student for the rigors of the law curriculum. Moreover, a basic knowledge of the physical and biological sciences will often help in the cases the lawyer pleads. Many law schools expect the student to have completed at least one accounting course.

The attorney must be a well-rounded individual with knowledge in more than law. Understanding the basic psychology of people and the philosophy behind the law, and to use the logic necessary to present a case are important.

All law schools require the Law School Admissions Test, and most pre-law students take it in June between the junior and senior year or during the undergraduate senior year. It is a nationwide, half-day test of general aptitude for undertaking law studies and for writing ability. The Pre-Law adviser has application forms and sample tests. The adviser also has general information on law schools and an extensive file of law school catalogs is available in the Career and Academic Planning Center.

Liberal Studies

Allen Branum College of Arts and Science **NFA 251** 605-688-6619

Programs

The Liberal Studies major is designed for students who have a personal and/or a professional goal that cannot be met by an established major on campus. In addition to completing the core requirements of the College of Arts and Science, the student must complete 40 credits of courses which accomplish the attainment of the uniquely defined goal. These 40 credits should be from two or more disciplines and should include both lower and upper division courses. A Plan of Study form must be prepared upon entering the program identifying the personal and/or professional goals, the courses to be taken, and an explanation of how the courses contribute to the goals. This form must be approved by the student's adviser and the Assistant Dean of the College of Arts and Science. The Liberal Studies major can be obtained with a Bachelor of Science degree.

Mathematics and Statistics (Math, Stat)

Kenneth Yocom
Department of Mathematics and Statistics
Harding Hall 101
605-688-6196
e-mail: Kenneth_Yocom@sdstate.edu

Faculty

Mathematics: Professor Yocom, Head; Professors Ayers, Kemp, Kindermann, Lacher, Nielsen, Schmidt, Vandever; Professors Emeriti Kranzler, Monahan; Associate Professor Clever; Associate Professor Emeritus Broschat, Nelson; Assistant Professors Abraham, Cogswell, Flint, Kosek, C. Larson, Roe, Schaal, Struck; Assistant Professor Emeritus Trapp; Instructors Ahrendsen, Brost, Farwell, Werner; Lecturer B. Larson.

Statistics: Professors Gilbert, Kim, Kindermann, Lacher, Nielsen, Vandever, Wicks; Associate Professor Adamson, Fausti; Assistant Professors Roe, Struck, Wittig; Instructors Brost, Ellingson.

Programs

Mathematics Major (B.S.)

The department offers the Bachelor of Science in Mathematics through the College of Arts and Science. These major programs provide rigorous preparation for the technically oriented student, the prospective mathematics teacher, or the student preparing for graduate school.

Beginning with Math 123, the B.S. program requires 39 of the 128 total credits required for graduation. Mathematics majors must earn at least a "C" in Math 123 and all succeeding mathematics courses.

To complete a degree in mathematics, the student must complete the requirements of the Department, the College, and the University. Most of these requirements are incorporated into the curriculum plans found in the section on Major and Minor Requirements, but students should read the Arts and Science requirements for the B.S. degree and consult with their adviser who will assist in planning a curriculum and help ensure that all graduation requirements are met.

Teacher Education in Mathematics

Students interested in teaching mathematics at the secondary/middle school level should contact the College of Education and Counseling prior to their junior year to obtain the teacher education requirements. The mathematics requirements for teacher certification are given in the section on Major and Minor Requirements.

Minor

The minor in mathematics consists of 23 credits as outlined in the section on Major and Minor Requirements.

Statistics

Statistics courses are offered at the undergraduate and graduate levels to provide SDSU students with the knowledge of statistics necessary in their various fields of study.

Math Placement

All entering students, except for those with transfer credit in a college mathematics course, must take the mathematics placement test. Credit may be earned in Math 102 or 113 through sufficiently high scores on the placement tests.

Mechanical Engineering (ME)

Don Froehlich
Department of Mechanical Engineering
Crothers Engineering Hall 210
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http://www.sdstate.edu/^me20/http/mecheng.htm

Faculty

Professor Froehlich, Head; Professors Ghazi, Hamidzadeh, Moutsoglou, Remund; Associate Professors Bassett, Delfanian; Assistant Professor Welsh; Instructor Twedt.

Programs

Mechanical Engineering is a profession in which knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgment to develop ways to utilize, economically, the materials and forces of nature for the benefit of mankind.

Included are the development of:

- 1) a capability to delineate and solve in a practical way the problems of society that are susceptible to engineering treatment;
- 2) a sensitivity to the socially-related technical problems;
- 3) an understanding of the ethical characteristics of the engineering professions and practice;
- 4) an understanding of the engineer's responsibility to protect both occupational and public health and safety; and
- 5) an ability to maintain professional competence through life-long learning.

These goals are introduced through a curriculum of course work progression where fundamental scientific and other training of the earlier years is applied in later engineering courses.

Mechanical Engineers have a remarkable range of career directions from which to choose. Work is in research, development, design, testing, manufacturing, operations and maintenance, marketing and sales, or in management and administration. ME's can work in industry, business, government or in educational institutions. They can also work with other professions such as law and medicine. Mechanical Engineers are employed in almost all industries including automotive, chemical, aircraft/aerospace, power, petroleum, computer, machinery (industrial, farm, office), plastics, electronic, textile, pharmaceutical, paper products, utilities, and many others. Their work takes them to many parts of the world; they can probe the depths of the oceans or explore outer space as astronauts. Mechanical Engineering is an exciting profession which offers breadth, flexibility and individuality to those who want challenge and satisfaction rather than just a job.

The curriculum is made up of courses in: Basic Sciences, Engineering Sciences, Design, Communications, Humanities and Social Sciences. The Basic Sciences of mathematics, physics and chemistry provide the foundation for all engineering and technical courses. The Engineering Sciences are: solid mechanics, fluid mechanics, thermodynamics, heat transfer, systems and controls, materials. electrical fields and others. In the Design category, which is integrated throughout the curriculum, the student deals with the systems approach of solving problems where ideas, imagination, modeling and analysis are joined together to create a new component or a new product. Communications courses include English, speech, graphics and computer languages. Courses from the Socio-Humanistic areas are also required in our curriculum. Some of these are: sociology, history, psychology, economics, religion and others. These courses provide a rounded education which will enable Mechanical Engineers to understand their culture and society.

In the senior year, opportunity is given for specialization in various technical-option areas according to the student's interest and abilities. These include aerospace engineering, thermal engineering, industrial engineering, machine design, nuclear engineering, and environmental engineering. Elective courses are provided to allow this flexibility in the curriculum. Technical electives must be approved by the department head, and must total at least 11 credits, including one elective design course.

A minimum 16 credits of Humanities and Social Sciences are required. Of the 16, a minimum of 6 credits have to be Humanities where credits are from at least two different disciplines or departments. Of the 16, a minimum of 9 credits have to be Social Sciences. Within the group of courses taken toward the Humanities and Social Sciences requirement, at least 2 courses, where one is an advanced course, need to be from the same discipline to insure in-depth study. The approved courses and restrictions are listed in the Humanities and Social Sciences sections under the Graduation Requirements in this catalog. The laboratory program supports and supplements the classroom lectures with experimental work. Here, students learn to perform tests, collect and analyze data, compare with theory and arrive at conclusions. Also students develop a report writing capability which will be very valuable to them in their future careers.

The department helps students arrange cooperative or work/study programs with industry. Credits may be obtained for these work experiences, by prior arrangement with the appropriate faculty member and department head, and by registering for ME 494, 495, or 496. These credits, upon approval, will fulfill part of the technical-elective requirements.

A student interested in Mechanical Engineering initially enrolls as a pre-engineering major in the College of Engineering. A student's acceptance into ME is based on prerequisite preparation, the cumulative grade point average (CGPA) and class standing after completion of the one-year program. The number of students accepted into ME depends on regional and national needs and the resources of the College of Engineering. You should contact the department for the application details. In addition to the Graduation Requirements and Academic Performance Requirements specified in this catalog, the following grade requirements must be met to earn a Bachelor of Science Degree in Mechanical Engineering: a combined average of "C" or better in the Mechanical Engineering courses; a combined average of "C" or better in the Mathematics courses; a minimum grade of "C" in each of the following courses: Math 123, Math 224, Phys 211, ME 311, ME 312 and all EM designated courses. Students will not be permitted to enroll in ME 312 or EM 331 unless they have earned a minimum grade of "C" in ME 311. Students must follow course prerequisite requirements.

To make the transition easier for high school students interested in a career in Mechanical Engineering, the following guidelines are suggested: study as much mathematics as available, including calculus (if possible), one year of physics, one year of chemistry and four years of English.

Medical Technology (MedT)

(See Chemistry)

(Pre-) Medicine

Dr. John Grove Department of Chemistry and Biochemistry Shepard Hall 215 605-688-4266

E-mail: John_Grove@sdstate.edu

Advisors

Dr. John Grove, Dr. Michael Hildreth, Ms. JoAnn Willgohs, Dr. Charles McMullen

Program

Students preparing for medical careers should recognize the desirability of broad education and the need for a basic understanding of the natural sciences, including mathematics, chemistry, biology, and physics. Prospective students seeking admission to a school of medicine should recognize that highly developed communication skills as well as a basic understanding of the social sciences and the humanities is necessary.

No particular major is required of students desiring to apply to medical school. No area of study is given preference in the selection process. The college or university selected for undergraduate study should be based on the strength of the undergraduate program and the advising system.

The pre-medicine program is coordinated by the College of General Registration. The curriculum is designed to be compatible with many different majors at South Dakota State University. It includes the following typical medical school minimum admission requirements: one year each of biology and physics with laboratory; mathematics, preferably including a course in calculus; two years of chemistry with laboratory including one year of general chemistry and one year of organic chemistry or a combination of organic and biochemistry; communications (English, literature, speech); social sciences and humanities as needed to complete the baccalaureate degree.

Your adviser will have knowledge of requirements for all medical schools in the U.S. Pre-medicine students are encouraged to prepare to meet the entrance requirement for several medical schools of their choice.

The pre-med advisers can assist you in course selection, choosing a major, preparing for the Medical College Admission Test (MCAT), and in the application process as handled by the American Medical College Application Service (AMCAS).

Microbiology (Micr)

Gary Peterson
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http://www.abs.sdstate.edu/bio

Faculty

Professor Peterson, Acting Head; Professors Gibbons, Granholm, Hildreth, Hutcheson, Kayongo-Male, Larson, McMullen, Reese, Ruffolo, Westby, Whalen; Professors Emeriti Baker, Chen, Hugghins, Morgan, Myers, Pengra; Associate Professors Bleakley, Cheesbrough, Erickson, Gibson, Hurley, Rowland, Sutton, Troelstrup; Associate Professor Emeritus Morrill; Assistant Professors Dieter, Gilmanov, Pedersen, Yen; Instructors Willgohs, McCutcheon; Adjunct/Joint faculty Benfield (Vet.Sci.), Chase (Vet.Sci.), Diggins (Augustana), Evenson (Chem.), Fennell (HFLP), Francis (Vet.Sci.), German (WRI), Henning (DS), Johnson (PS), Majerle (Chem.), McFarland (ARS), Nelson (Vet. Sci.), Reidel (NGIRL-USDA), Rietz (Brookings Medical Clinic), Specker (FFS), West (Chem.).

Program

The Biology and Microbiology Department offers curricula leading to the Bachelor's degree with a major in Microbiology. A Bachelor of Science in Biological Science, major in Microbiology is offered in the College of Agriculture and Biological Sciences. A Bachelor of Science with a major in Microbiology is also available in the College of Arts and Science. Students majoring in Microbiology will select among four areas of emphasis depending upon their particular interest and needs: (1) Microbiology, (2) Molecular Biology, (3) Infectious Disease, and (4) Environmental and Applied Microbiology.

The **Microbiology emphasis** provides the student with a broad background in all facets of microbiology, thereby preparing students to pursue careers in the breath of areas related to microbiology.

The Molecular Biology emphasis enables students to specialize in an area that has become one of the principal tools for the modern biologist plus an expanding career area in its own right.

The **Infectious Disease** emphasis focuses on the basic science of animal, human and plant diseases caused by microorganisms. Students will be prepared for careers in communicable disease control, developing antimicrobial agents, and health care professions.

The Environmental and Applied Microbiology emphasis concentrates on the more applied aspects of microbiology, ranging from the role of microorganisms in the environment to utilization of microbes in agriculture, food science, and industry. Students will find a broad range of career opportunities available.

A microbiology major is often taken along with the preprofessional programs of Medicine, Dentistry and Veterinary Science. Graduates in Microbiology are equipped for a variety of jobs such as in diagnostic and research laboratories, public health, agriculture, food industry, pharmaceutical companies, academia, governmental agencies, and the private sector. With the recommended electives the graduate is prepared to enter graduate school to pursue a Master's or Doctor's degree. The goal is to provide a sound but varied educational experience with a specialty in Microbiology.

A minimum GPA of 2.0 must be maintained for the required credits in microbiology and the required credits in chemistry.

Military Science (Mil) (Army ROTC)

LTC Keith Corbett
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605-688-6151

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Faculty

Lieutenant Colonel Corbett, Professor of Military Science, Head; Professor Emeritus Adams; Assistant Professor of Military Science Captain Fleckenstein, Captain Morrison; Master Sargeant Carpenter; Sergeant First Class Chavez.

Programs

The Department of Military Science offers instruction and practical experience in leadership and management, the development of selected military skills and problem solving techniques, the role of the Army in modern society, the customs and traditions of the Army, marksmanship, military law, administration and professional ethics. Military Science training prepares qualified students seeking a baccalaureate and masters degree to serve as commissioned officers in the active Army, the Army National Guard or the Army Reserve.

The department has three on-campus training programs: 1) the fouryear program consisting of the basic course for freshmen and sophomores followed by the advanced course for juniors and seniors; 2) a three-year program where the basic course is compressed into the sophomore year followed by the advanced course; and 3) a two-year program. The first entry point is where placement credit is allowed for the basic course to qualified veterans and members of the Army National Guard and the Army Reserve. A second entry point is available to students who desire to be paid for the equivalent of the basic course by attending the ROTC Basic Camp in the summer prior to their junior year. By enrolling in the basic course or its equivalent substitute, students do not make any commitment to the U.S. Army unless they are scholarship recipients. Tuition is not charged for ROTC courses. All necessary ROTC textbooks, uniforms and other essential materials are furnished to the student at no cost. Fifty percent tuition credit for Advanced Course Non-scholarship cadets is available.

To be eligible for commissioning, all cadets must have completed courses in the following areas: Computer Literacy, Written and Oral Communications and a Military History class. Contact the department for a list of approved courses.

Requirements for Advanced Course

All those enrolling in the Advanced Course must:

- 1. Have completed the Basic Course or its equivalent.
- 2. Be a U.S. citizen.
- 3. Be physically qualified under standards prescribed by the Department of the Army.
- 4. Have an academic cumulative grade point average of 2.0 or higher.
- 5. Complete a University offered Military History course prior to graduation.
- 6. Have two years of academic work remaining for a degree.
- 7. Sign a written agreement.

Army ROTC Scholarships

Qualified students can compete for 4-year, 3-year, and 2 year scholarships which cover full tuition, laboratory and instructional fees, university student fees, transcript, cap and gown, diploma, and selected graduation fees. A flat book rate and supplies payment and \$200 a month subsistence allowance are provided each semester. Scholarship competition (4-year scholarship) is conducted by the Department of the Army in the fall semester for University bound high school students.

Applications are available from high school guidance counselors or directly from SDSU Army ROTC by contacting the Department of Military Science, Box 2236, University Station, Brookings, SD 57007-1597 or call 605-688-6151, or e-mail Garnet_Wosje@sdstate.edu.

Optional Army Schooling Available to Qualified Cadets

- 1. Airborne training at Fort Benning, Georgia for 3 weeks
- 2. Air Assault training for 10 days
- Cadet Troop Leader Training at selected Army posts with an active Army or Reserve component unit for 2 to 3 weeks
- Northern Warfare training at Fort Greely, Alaska for 3 weeks
- 5. Nursing Summer Training Program at selected Army hospitals.

Minor in Military Science

A minor in Military Science is available for those who complete 12 credits offered and who enroll and complete Mil 494 Internship. This minor is compatible to fields of major studies.

(Pre-) Ministerial

Mark Binkley **College of General Registration Medary Commons** 605-688-4153 E-mail: Mark Binkley@sdstate.edu

Program

Almost all theological seminaries require some undergraduate education. Most require a college degree. A broad general education is desirable. A satisfactory pre-ministerial program could be: a Liberal Studies degree in Arts and Science or selection of a major in any humanities or social science area, focusing electives around a core of religion and philosophy courses as selected from the more than 30 hours available in these areas.

Modern Language Business-Economics Specialization

Philip Baker **Department of Modern Languages NFA 121** 605-688-5101 e-mail: Philip Baker@sdstate.edu

This specialization is designed for language majors or minors who plan careers in international business. Students who wish to pursue this specialization are encouraged to indicate this fact to their adviser as early as possible. They are required to submit a letter of intent to the Departments of Economics and Modern Languages no less than three months prior to the date of graduation.

Modern Languages (ML)

Philip Baker **Department of Modern Languages NFA 121** 605-688-5101 e-mail: Philip_Baker@sdstate.edu

Faculty

Professor Baker, Head; Faculty Emeritus Bates, Iden Redhead; Professors Beattie, Cardenas, Richter, Sunde; Assistant Professors Baggett, Ramos; Instructors Rey, Santos; Adjunct Instructor Green.

Programs

The Department of Modern Languages provides proficiency-oriented instruction in second languages, literatures, civilizations and cultures. The department offers the Bachelor of Arts degree with majors in French, German and Spanish. It also offers minors in French, German, and Spanish. Students seeking to fulfill the 14-hour Bachelor of Arts requirement in modern languages (101, 102, 201, 201) may do so in any one of four languages: French, German, Lakota, or Spanish.

Students entering the university with a background in modern languages are strongly encouraged to request a copy of the department's placement policy. Students who are prepared to take courses beyond 101 (up to 310 or 311) may apply to receive credit for all previous courses. Even if the student's career goals do not center on a modern language, a strong background in a language may make a second major or a minor feasible.

The faculty of the Department of Modern Languages works with students to determine the program of study which will best prepare them for the career they have chosen. The department encourages students to investigate programs in other academic areas which will complete or enhance their preparation for a specific career. Such programs include, but are not limited to: Economics (see the requirements for the Modern Language Business-Economics Specialization), Education (see "Education Curriculum for Teachers of Academic Subjects"), European Studies (see European Studies), and Latin American Area Studies (see Latin American Area Studies). Students are also encouraged to plan a summer/semester experience travelling and/or studying abroad.

Additional information on the department's programs is found elsewhere in this Bulletin. The department also has placement information as well as specific information on all of its programs available in the main office of the Department of Modern Languages.

(Pre-) Mortuary

Mark Binkley College of General Registration **Medary Commons** 605-688-4153

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Program

To meet the requirements as a mortician, funeral directors need specialized training. All states require those who embalm to be licensed. This field may require from one to four years of study with students earning a diploma, Associate of Applied Science (AAS) or Bachelors of Science (BS) degree at one of 50 accredited schools which offer programs in mortuary science. One or possibly two years of study may be taken at SDSU. Certification includes passing required board exams and an apprenticeship in an approved funeral home. Leaders of the funeral service field are rapidly recognizing the need for education of the total person. Because the funeral director's work is diverse, he or she must draw upon knowledge of the social and economic fields as well as the scientific and artistic areas which the technical needs of the profession require.

The curriculum listed below is a GUIDE ONLY and may be altered to meet the licensing requirements of the mortuary science school the student plans to attend. Students interested in completing a bachelor's degree should work closely with the pre-mortuary adviser and will need additional courses to meet university core requirements.

Freshman Year

Bio 101, Biology Survey I or	
Bio 105, Human Biology	3
Math 102, College Algebra or	
Math 143, Finite Mathematics	3
Engl 101, Composition I	3
Psyc 101, General Psychology	·3
Social Science Elective	
Zool 221, Anatomy	3
Chem 106, Survey of Chemistry	3
SpCm 101-101A, Fundamentals of Speech and Lab	3
Soc 100, Introduction to Sociology	3
Acct 210, Principles of Accounting I	3
Sophomore Year	
Nurs 201, Medical Terminology	1
Hlth 212, Contemporary Health Problems	
Micro 231, General Microbiology	
SpCm 201, Interpersonal Communication	
Rel 360, Death and Dying	
Social Science Elective	3
BAdm 334, Small Business Management	3
BAdm 350, Legal Environment of Business and Contracts	3
Electives* 9 credits (to meet mortuary school or state requirem	ente

suggest Rel 213 Intro to Religion, Engl 201 Composition II)

Music Education

(See Music)

Music Merchandising

(See Music)

Music (Mus)

Corliss Johnson
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Faculty

Professor Johnson, Head; Professors Emeriti Hatfield, Royer, Walker; Professors Canaan, Colson, Lis, McKinney; Associate Professors Lis, Crowe, Spencer, Vensand; Assistant Professors Brawand, Crawley, Peterson, Instructors Coull, Vogele.

Programs

The Music Department offers three degree options: Bachelor of Arts, Music Major; Bachelor of Science, Music Merchandising Major; and Bachelor of Music Education.

Bachelor of Arts - Music Major (B.A.)

This program is recommended for those whose intellectual temperament is suited to the study of music within a liberal arts framework, irrespective of specific career aspirations.

Bachelor of Science - Music Merchandising (B.S.)

This program is recommended for those with a strong background in music who wish to pursue careers in one or more of the many aspects of the music industry. The B.S.-M.M. degree enables students to continue developing their musical skills along with in-depth study in Economics, Communications, Advertising, and Computer Science. The course work for this degree culminates in an on-site internship in a music business setting.

Bachelor of Music Education (B.M.E.)

This program is recommended for students wishing to become certified to teach elementary and secondary school music. An emphasis in choral or instrumental teaching may be elected, or, by adding appropriate hours, students may prepare in both areas. Those preparing in both areas must complete both choral and instrumental music education sequences, including both sets of pedagogies.

Music Minor

The Music Minor is for students wishing to undertake an in-depth study of music without majoring in it. The program requires twenty-two hours of specialized course work plus major ensemble participation.

General Student Information

Students not wishing to major or minor in music are welcome to participate in music ensembles, applied lessons, music appreciation classes, and in some music literature and history offerings. See course listings for details, requirements, and prerequisites.

Music Requirements: (All music majors)

- Admission as a music major in any of the music degree programs requires the successful completion of an audition in the student's major area of applied instruction.
- 2. Music majors in all degree programs must choose one area of applied instruction in which to specialize. Further, students must meet the applied proficiency standards of the department in that area. To that end, students must:
 - a. successfully complete a jury examination each semester.
 - b. apply for and be granted approval to advance to upper level applied study (300-400 levels).
 - c. complete a minimum of 6 hours of upper level (300-400) applied study.
- Piano proficiency is required of all majors. Several approaches to meeting the requirements are available. See the Student Handbook for more specifics.
- 4. Fretted instrument proficiency is required of Music Education students. Proficiency may be met by successfully passing the guitar proficiency examination or by completing all requirements of the guitar class. Note: Piano and fretted instrument proficiencies must be passed before the senior recital may be scheduled.
- Voice or instrumental proficiency is required of all keyboard majors.
- 6. Ensemble Requirements:
 - a. All music majors must participate in at least one major ensemble each semester they are enrolled as a regular university student (Internship and Student Teaching semesters excepted). See the *Student Handbook* for more details.
 - Participation in small ensembles is strongly encouraged for all majors and minors.
- A minimum of four pedagogy courses is required for students in the B.M.E. program. Students may wish to take six pedagogy courses

- to achieve a stronger preparation for teaching. See the Student Handbook for options.
- Recommendations for enrolling in student teaching will be issued by the Music Education Coordinator following an interview with the student and his or her adviser.
- 9. Recommendations for music merchandising students wishing to enroll for the Internship experience must be issued by the Music Merchandising Coordinator.
- 10. A senior recital is required of all music majors.
- 11. Majors and minors must enroll for Recital Attendance (Mus 195) each semester they are enrolled for applied music lessons. Specifics for this and all other music requirements are delineated in the Student Handbook. Music majors should refer to it regularly.

Natural Resource Studies

Charles McMullen College of Agriculture and Biological Sciences **Agricultural Hall 156** 605-688-5133

e-mail: academic.programs@abs.sdstate.edu

The earth's ability to support life is possible through efficient utilization of natural resources such as soil, water and air. Likewise, the earth's ability to sustain these resources will depend on specialists who protect and conserve these resources. If you have an interest in natural resource management, the outdoors, and the environment, you may want to consider a career in the natural resources.

South Dakota State University offers eight majors related to the broad area of natural resources. A major in any one of these areas provides the science background needed to plan and implement natural resource management practices essential to maintain and enhance South Dakota's, the nation's, and the world's natural resources.

The programs in the natural resources area include: Agricultural and Biosystems Engineering, Agricultural Systems Technology, Agronomy, Environmental Management, Landscape Design, Park Management, Range Science, and Wildlife and Fisheries Sciences. These programs are based on a combination of sciences, so that students have a broad perspective of natural resource management in addition to other specializations employers require. SDSU also offers courses in other areas that support the natural resource programs. The Economics Department, for example, offers courses in resource economics.

Nursing (Nurs)

Roberta Olson, Dean College of Nursing **NFA 255** 605-688-5178 or 1-888-216-9806 e-mail: Roberta Olson@sdstate.edu

Faculty

Distinguished Professor Hegge; Professors Olson, C. Peterson; Professors Emeriti Blazey, Hofland, G. Johnson, E. Peterson; Associate Professors Carson, Foland, Hendrickx, Mylant, Powers, Smyer, Sorenson, Wey; Associate Professors Emeritus Hanson, Holter; Assistant Professors R. Chappell, Craig, Iken, Joffer, Vinson, S. Williams; Instructors Andersen, Bassett, Becker, Birch, Bouffard, Boysen, Burggraff, Calhoon, Dieter, Elverson, Fahrenwald, Fischer, Fjelland, Gibbons, Goddard, Hesson, Hobbs, Jones, Laird, Maurer, McGauvran, Niemeyer, Pickard, Potts, Randall, Roddy, Shaver, Stevens, Talley, Tschetter, Voss, Weber, White, C. Williams, Winterboer; Instructor Emeritus J. Nelson.

Pre-Nursing and Nursing Major

Any student eligible for regular admission to SDSU and who desires to enroll in the College of Nursing and Department of Undergraduate Nursing is accepted into pre-nursing and has an adviser from the College of Nursing. During the semester in which students are completing their final pre-nursing required courses, they apply for admission to the nursing major.

The College of Nursing offers two types of programs for students wishing to complete a nursing major. The basic program is designed to meet the educational needs of persons who are not registered nurses, and the RN Upward Mobility program is designed as a degree completion program for registered nurses who have completed academic diploma or associate degree nursing programs.

Admission to the Nursing Major

Basic students are admitted to the nursing major both fall and spring semesters on the Brookings campus, and the spring semester only on the Rapid City campus. Students wishing to enter the nursing major are required to submit an application for admission to the major. Prior application and acceptance to SDSU is required in order to apply to the nursing major.

Students may apply to only one program site at a time. Total enrollment in the major may vary, depending upon available clinical facilities, qualified faculty and funds, with the selection made from among those best qualified for the study and practice of nursing.

Applications to the major are available through Nursing Student Services at the site for which the student is applying. Deadline for applications for the basic program for spring is the third Friday of October, or the third Friday of February to enter fall semester. The deadlines for applications for the RN Upward Mobility program may vary. Students should contact the RN Upward Mobility office on the Brookings campus for individual advising. RN Upward Mobility students must complete all support courses, except 7 credits, prior to admission to the nursing courses. Speaking with an advisor is extremely important to progress through the program on a timely basis. Failure to submit a completed application by the deadline may automatically disqualify the applicant from being considered for enrollment in the nursing major courses for the coming semester.

To be considered for admission, students must have a 2.5 GPA or above and a grade of "C" or higher in all completed required nursing major support courses. Fulfillment of course requirements does not ensure admission. Students are selected competitively based on the total applicant pool. Specific information on criteria for selection may be obtained from the Department of Nursing Student Services on the Brookings campus or the Nursing Student Services Coordinator, West River Nursing on the Rapid City campus.

Students preparing for or seeking additional education in the field of professional nursing must demonstrate a stable personality and the ability to meet the demands of the professional nurse role. For admission to and progression in the nursing major courses, the student must meet Technical Standards for the nursing major. These standards are in the areas of general abilities, observational ability, communication, motor ability, intellectual-conceptual ability, and behavioral/social attributes. The Technical Standards document is available through the Department of Nursing Student Services, Nursing Student Services Coordinator, West River Nursing, and outlined in the Pre-Nursing Student Handbook. The Pre-Nursing Student Handbook is available in the Department of Nursing Student Services.

Transfer students who have begun and not completed a nursing program in another college or university must submit a letter indicating the reason for transfer; make application to SDSU and to the College of Nursing. Three letters of recommendation must also be submitted; one from the dean/director of the program and two from faculty members.

Requirements for Continuation in the Nursing Major

Satisfactory completion of all nursing major and required support courses must be accomplished for entrance into the second and subsequent semesters of the major courses. If students drop out of a course or fail to progress as planned in the major for any reason, there is no guarantee that there will be a place for them in another semester due to the necessity to limit size of clinical classes.

Students failing to obtain a grade of "C" or above in any course meeting graduation requirements must repeat the course or a similar course. Required nursing support courses and nursing major courses may be repeated only once to raise an unsatisfactory grade. Therefore, all 128 credits toward the College of Nursing program must be a "C" or better. This applies to both the students in the basic program and the RN Upward Mobility program. If a student does not satisfactorily complete the course the second time, he or she will not be allowed to continue in the College.

All undergraduate and graduate nursing students are expected to adhere to the principles of the *Code for Nurses with Interpretive Statements* (American Nurses Association, 1985). The *Code for Nurses* communicates a standard of professional behavior expected throughout the total program and in each individual nursing course. Therefore, in addition to dismissal for academic failure, the faculty and administration of the Departments of Undergraduate Nursing and of Graduate Nursing reserve the right to dismiss any student enrolled in either the undergraduate or graduate program for unethical, dishonest, illegal, or other conduct that is inconsistent with the Code for Professional Nurses.

Nutrition, Food Science and Hospitality (NFSH)

Marilyn A. Swanson
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Faculty

Professor Swanson, Head; Professors M. Crews, Specker; Professors Emeriti Colburn, Deethardt, Wills; Associate Professors Chipman, Krishnan, Wang; Associate Professors Emeriti Guild, Shank; Assistant Professors G. Crews, Jones, Kattelmann, Krause; Instructors Davies, Pitts.

Programs

The Department offers the Bachelor of Science degree with majors in Hotel and Foodservice Management (Foodservice Management option and Hotel and Hospitality Management option) and Nutrition and Food Science (Dietetics option and Food Science option), and a minor in Nutrition.

Hotel and Foodservice Management

The Hotel and Foodservice Management program provides a firm foundation in both lodging and foodservice operational management supported by a strong background in business and economics. On-the-job work experience for credit strengthens the academic program. Students with up to two years general education credits will usually find that most of their credits will transfer into this program.

Hotel and Foodservice Management – Foodservice Management Option

Foodservice management provides students with a focused experience in food preparation and service, with emphases on leadership and management. Practical hands on experiences, both in the classroom

and in the field, broaden students knowledge and increase their employability. Students obtain sanitation certification as part of the Foodservice Management option. Career opportunities range from quick service and fine dining to purchasing, food brokering, sales and catering. Students are well prepared for leadership and management opportunities in the rapidly expanding food-related hospitality industry.

Hotel and Foodservice Management - Hotel and Hospitality Option

Hotel and hospitality management emphasizes the rapidly expanding hospitality industry ranging from convention sales to conference coordinator, from travel and tourism director to hotel general manager. Students receive a firm foundation in business, economics and accounting in order to be competitive in the highly challenging and rapidly changing corporate world of the hospitality industry. From entrepreneurs who want to own and operate their own business to international opportunities in the expanding hospitality industry, students can pursue a variety of different career options.

Nutrition and Food Science - Dietetics Option

Dietetics offers a wide variety of jobs in hospitals, health promotion programs, nursing homes, public health agencies, industries, schools, universities, the armed services, and state, national and international organizations. Governmental regulations require the services of dietitians in federally supported programs. The consulting services of a dietitian are often sought by architects and hospital administrators in planning and equipping food preparation and services facilities.

A dietician must have a good background in the basic and behavioral sciences to apply the science of nutrition for the promotion of health and the prevention of disease.

The dietitian is essential to the total care of the patient in a healthcare facility, giving nutritional guidance and instruction. Dietitians also work in clinical research units. The role of the dietitian is changing with changes in health care and has become more involved in preventive health care and in community nutrition programs.

Through the program in dietetics, students develop understanding and competency in food, nutrition, and management of a dietary department. The curriculum is approved by the American Dietetic Association (ADA). Completion of an internship at one of approximately 155 sites in the U.S. or other ADA approved experience qualifies the student to take the registration exam. The program has also been granted approval status by the Commission on Accreditation/Approval for Dietetics Education of The American Dietetics Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995, 312-899-4876.

Students interested in earning a degree in the Nutrition and Food Science major (Dietetics Option) will be accepted into the Nutrition, Food Science, and Hospitality Department as pre-majors and assigned a departmental adviser. Formal application is required for admission into the dietetic program. Application forms are available from the Nutrition, Food Science, and Hospitality Department. To be admitted into the dietetic program, the student must have completed and received grades for at least 45 semester credits toward graduation, have a cumulative grade point average of at least 2.5 for all courses taken, and have earned at least a 2.0 grade point average in two required chemistry courses.

Nutrition and Food Science - Food Science Option

Food Science prepares students for professional positions in the food industry or for graduate study in Food Science. The program of study is firmly based in the biological, chemical and physical sciences.

Food Science is the discipline in which the biological and physical sciences and engineering are used to study the nature of foods, the causes of food deterioration, and principles food preservation. Creative approaches are employed to develop new food products for the rapidly changing consumer who desires good taste and good nutrition at a good price. Food scientists apply science to the selection, preservation, processing, packaging, and distribution of food. Students with a strong

background in the basic sciences during the first two years in college may transfer into the program with minimal credit loss.

Numerous high-paying employment opportunities exist for food science graduates who are searching for fulfilling careers in the national and international food industry. The food industry is searching for individuals interested in product development, technical sales, quality control and research and development coordination. The current recognition of and emphasis on value-added agriculture is conducive to employment opportunities for the highly skilled food science professional. Additional career experiences exist in both government and regulatory agencies.

(Pre-) Occupational Therapy

Jim Booher
Department of Health, Physical Education and Recreation
Physical Education Center 265
605-688-5824
e-mail: James Booher@sdstate.edu

The occupational therapy program is a pre-professional curriculum whereby all the necessary prerequisites can be completed in preparation for applying to a school of occupational therapy. The department provides counseling service to assist each student. A strong undergraduate academic record is important.

Most schools of occupational therapy offer a bachelor's degree while some offer a master's degree. Students must complete a certain number of required courses before applying to a professional occupational therapy program.

(Pre-) Optometry

Bob Rowland Department of Biology and Microbiology Northern Plains Biostress Laboratory, 214 605-688-5982

E-mail: Raymond_Rowland@sdstate.edu

Program

There are 12 American colleges of optometry accredited by the Council of Optometric Education of the American Optometric Association. Students graduating from SDSU with above average grades and optometry test scores have been very competitive in the Admissions process. Students usually have completed three years of college work, and about 60 percent of all students entering professional schools of optometry have completed their work for the bachelor's degree. You are encouraged to do this if at all possible.

The prospective optometric student should begin as early as possible to acquire an education in the fundamental sciences with the proper selection of pre-professional courses. The average GPA for successful applicants is now 3.0 (B average) or above for most colleges of optometry. Required courses include physics, mathematics, English, biological science, comparative anatomy, chemistry and psychology. The program outlined below will meet the general requirements of most professional schools of optometry and provide a good background for the Optometry College Admissions Test. Certain optometry colleges may also require more credits in the humanities and social sciences.

It is strongly recommended that pre-optometry students contact the pre-optometry advisor as soon as possible after declaring an interest in optometry.

Most of the accredited colleges of optometry, now require an Optometry College Admission Test, prepared and given by the Psychological Corporation at least three times each year.

Park Management

(See Horticulture, Forestry, Landscape and Parks)

Pest Management

(See Plant Science)

Pharmacy (Pha)

(See College of Pharmacy)

Pharmaceutical Sciences

Department of Pharmaceutical Sciences Shepard Hall 309 605-688-6198

e-mail: Kathryn_Loban@sdstate.edu

Faculty

Professors Billow, Dwivedi, Houglum, Lattin, Singh; Assistant Professors Aparasu, Guan, Helgeland, Mukherjee, VanRiper.

Programs

The Department provides a firm foundation in the pharmaceutical sciences leading to the Doctor of Pharmacy (Pharm.D.) degree. Satisfactory completion of the pharmaceutical sciences portion of the Pharm.D. curriculum is confirmed through the awarding of a B.S. in Pharmaceutical Sciences degree. See the College of Pharmacy section of this catalog for admission requirements for the Pharm.D. Professional Program.

Philosophy and Religion (Phil, Rel)

Robert Burns Department of Philosophy and Religion Scobey Hall 308 605-688-4909

Faculty

Distinguished Professor Burns, Head; Professors Nelson, Bahr; Associate Professors Glass, Bielfeldt.

Programs

Brown and

Philosophy may be characterized as one's attempt to find a meaningful perspective from which to view oneself, one's world and one's place in that world. Students from any major may profit from philosophy.

The academic study of religion involves the use of critical and interpretative skills in examining the vast range of ideas, practices, and writings that are reflected in religion. Present course work is designed to enrich the student's perspectives and introduce some of the important features of philosophy and religion.

A minor in Philosophy is available in either the B.A. or B.S. program. The minor requires 16 credit hours of philosophy, including Phil 100. Of these 16 hours, 6 must be in upper division courses.

A minor in Religion may be pursued in either the B.A. or the B.S. program. Completion of the minor requires 15 credit hours of religion.

Pre-ministerial students are advised to explore the pre-professional offerings. Contact the department. Students enrolled in the professional colleges may benefit from the Department's professional ethics course offering.

(Pre-) Physical Therapy

Jim Booher Department of Health, Physical Education and Recreation Physical Education Center 265 605-688-5824

e-mail: James_Booher@sdstate.edu

The physical therapy program is a pre-professional curriculum whereby all the necessary prerequisites can be completed in preparation for applying to a school of physical therapy. The department provides counseling service to assist each student in developing a plan best suited to his or her needs. Acceptance by physical therapy schools is on a competitive basis, therefore, a strong undergraduate academic record is essential.

Most schools of physical therapy now offer a master's degree program. Students must have a basic science background and complete a certain number of required courses before applying to a professional physical therapy program.

(Pre-) Physician Assistant

JoAnn Willgohs
Department of Biology and Microbiology
Dairy-Microbiology 210A
605-688-5496
e-mail: Jo_Willgohs@sdstate.edu

Program

Students interested in pursuing a Physician Assistant (PA) program may complete their first two years of study at SDSU. P.A's work wherever physicians and health care organizations employ them in every conceivable specialty and practice setting. In South Dakota, most P.A's provide primary medical care and many practice in small, rural communities.

Required prerequisites to a PA program include 64 semester hours of academic work at ah accredited college or university with a minimum cumulative GPA of 2.0. Programs are competitive and higher GPA's are usually necessary for admission.

Recommended courses:

General Biology: 8 credits
General Chemistry: 10 credits
Human Anatomy: 3 credits
Human Physiology: 3 credits

General psychology, organic chemistry, and biochemistry are additional courses students are encouraged to complete.

Physics (Phys)

Oren Quist
Department of Physics
Crothers Engineering Hall 310A
605-688-5428
e-mail: Oren_Quist@sdstate.edu
www.engineering.sdstate.edu/~physics/physics.htm

Faculty

Professor O. Quist, Head; Professors Leisure, Rauber, Schiller; Professors Emeriti Duffey, Graetzer, Miller, Williams; Associate Professors Browning, Kitterman; Assistant Professor Aaron.

Programs

The Physics Department has three main objectives in its program offerings: (1) to serve students interested in engineering as a profession; (2) to serve students from various colleges within the university who need a basic understanding of physics; and (3) to serve students with an interest in a professional future in physics. The department is composed of appropriate professional staff, facilities, and equipment to support these objectives.

The curriculum in Engineering Physics is built around a strong core of physics courses complemented by courses from engineering departments. Students can earn an Engineering Physics degree with an emphasis in either mechanical or electrical engineering by selecting appropriate courses from one of these two areas. This major is designed to give students the ability to apply new research developments to pressing problems of society and is most attractive for those students interested in industrial employment. Graduates with an engineering physics degree typically enter employment as an engineer or continue graduate work in a field such as nuclear engineering, electrical engineering, mechanical engineering or aerospace engineering.

The curriculum in Physics is an option similar to the Engineering Physics curriculum that is not necessarily directed toward engineering. Not requiring the depth of engineering courses allows the Physics curriculum more flexibility to accommodate a wide range of student interests. Students interested in a professional physics career, graduate school, medical school, secondary physics education, meteorology, or a multitude of related areas can choose this option. This flexibility is achieved by building a curriculum around a core of 28 required semester credits in physics. Listings of elective courses for various technical careers are available in the Physics Department office.

A student must have a Cumulative Grade Point Average (CGPA) of 2.0 or above for all physics courses to be eligible for graduation with a major in physics. A GPA of 2.0 or above must also be obtained for the three courses Phys 211-213 (or Phys 111-113) and Phys 331. Any deviations from departmental requirements must be approved by the Head of the Physics Department. A physics minor can be earned by completing 17 credits in physics from an approved course list.

Planning (Plan)

Roger Sandness Department of Geography Scobey Hall 232 605-688-4511

Planning is an essential part of most private and public activities. It is a process that can be learned and applied to increase effectiveness in decision making and operations.

The Minor in Planning (Master's Degree Level) and teaching Planning courses are governed by a Coordinating Committee appointed by and responsible to the Vice President for Academic Affairs.

Plant Pathology

(See Plant Science)

Plant Science (PS)

Dale Gallenberg Department of Plant Science Agricultural Hall 219 605-688-5123

e-mail: Dale_Gallenberg@sdstate.edu

Faculty

Professor Gallenberg, Head; Distinguished Professors Malo, Wrage; Professors Arnold, Beck, Boe, Carlson, Cholick, Hall, Kohl, Reeves, Rickerl, Schumacher, Smolik, Wicks; Professors Emeriti Brage, Buchenau, Carson, Derscheid, Dybing, Fine, Gardner, Horton, Kantack, Kenefick, Kinch, Mankin, McDaniel, Moore, Shank, Shubeck, Walstrom, Wells, Westin, White; Associate Professors Bleakley, Carter, Chase, D. Clay, S. Clay, Doolittle, Fuller, Gelderman, Gerwing, Haley, Johnson, Kephart, Langham, Pollmann, Rudd, Scott, Stymiest, Sutton, Turnipseed, Woodard; Associate Professors Emeriti Colburn, Williamson; Assistant Professors Berg, Draper, Grady, Jin, Owens; Assistant Professor Emeriti Bonnemann.

Courtesy Appointments. The following staff members are employed outside the Plant Science Department but work cooperatively with Department staff and carry an adjunct professor appointment in the department: (Biology/Microbiology) Reese; (Chemistry) D. Evenson; (HFLP) Schaefer; (Biogenetics Inc.) Kahler; (GAEA, Inc.) Butler; (North Central Soil and Water Conservation Research Laboratory, Morris, MN-USDA/ARS) Lindstrom, Olness, Westgate; (Northern Grain Insect Research Laboratory-USDA/ARS) Chandler, Ellsbury, Hammack, Jackson, Kieckhefer, Riedell, Woodson; (P.P.I.) Fixen; (USDA/ARS, Soil & Water Cons. Soc.) Moldenhauer.

Programs

The primary goal of the department is to prepare people for leadership in business, government, and farming enterprises related to crop production, insect control, plant disease control, pest management, and soil management. In addition, you can prepare for graduate study leading to a career in research, teaching, or extension.

Graduates with training in plant science are sought by agri-business, private foundations, and federal and state agencies for employment in domestic and international agriculture. Plant Science, with its variety of disciplines, provides an excellent background for independent pursuits in farming or ranching.

The Department offers instruction leading to the Bachelor of Science Degree with a major in Agronomy. Three areas of emphasis are offered in the major: 1) Business, 2) Production, and 3) Science.

The choice of an area of emphasis need not be made until the sophomore or junior year. This enables you to become familiar with the broad field of plant science and, through consultation with faculty and advisers, to develop a program that can satisfy your needs.

The Department is equipped with modern classroom, laboratory, greenhouse, and field plot facilities. Numerous opportunities are available for part-time employment, scholarships, and work-study programs. The Agronomy and Conservation Club offers opportunities for fellowship, leadership, and career planning. The Department has three nationally recognized judging teams in crops, soils, and weeds.

Graduate study opportunities may lead to Master of Science or Doctor of Philosophy degrees.

Agronomy Major

Provides broad training in the plant sciences and in crop production technology. The integrated program is designed to provide the students with an understanding and knowledge base in crops, soils, weeds, entomology, plant pathology, and the interaction of production systems. This major is recommended for students interested in either agricultural

production or the agribusiness areas of crops and soils. Individuals can prepare for careers in farming or ranching; for work with private industry producing agricultural products, such as pesticides and fertilizers; for processing grain or hybrid seed; and for work with government agencies, such as the Cooperative Extension Service, Farmers Home Administration, and Natural Resources Conservation Service.

Political Science (PolS)

Robert Burns Department of Political Science Scobey Hall 308 605-688-4909

Faculty

Distinguished Professor Burns, Head; Professors Cheever, Tolle; Professor Emeritus Hendrickson; Associate Professor Emerita Schwab; Associate Professor Lonowski; Assistant Professor Aguiar.

Programs

Political science courses are designed to achieve the following objectives: convey the values and traditions of our democratic governmental institutions and processes and encourage students to assert their talents in preserving and nurturing those values and traditions through participation in the body politic; promote global awareness and understanding; engender critical thinking and a high proficiency in communication skills; serve the other social sciences as a cognate field; provide the student majoring in political science with foundation and advanced courses in the many sub-disciplines of political science which, in turn, will contribute to the student's intellectual growth and occupational pursuits.

Political Science Major

Political science majors may work toward either a Bachelor of Arts or a Bachelor of Science degree. All are required to take 36 hours in political science including PolS 100 or 101 and at least 21 upper division credits (300 level and above). PolS 210 is required for all majors who take the education block (see below). Finally, 6 hours in Political Science comparative government and/or international courses, either upper division or lower division, are required. Students who complete Math 123 or Math 222 may apply a total of 6 credits from CSc 312, Stat 281, Soc 309, and Soc 310 toward the 36 credit hours required for the political science major. You are encouraged to select at least one upper division course in each of the following fields within the major: American Government and Politics, Public Administration, Public Law, Comparative Government, International Relations, and Political Philosophy. Students must meet the University and College of Arts and Science requirements. Finite Math (Math 143) may be used to satisfy BA and BS requirements in Political Science.

Teaching Emphasis

If you are preparing to teach secondary school, take education block prerequisite courses in the sophomore and junior years. You must consult with the Dean of the College of Education and Counseling prior to your junior year. Set aside one semester for the education block and off-campus teaching assignment during your senior year.

Pre-law Emphasis

Law schools require a bachelor's degree for entrance. Although a particular major is not specified, Political Science is a common choice because of its flexibility.

Public Administration Emphasis

Students interested in working in government at the local, state, or national level should plan to take several courses related to public administration and American politics. Students are encouraged to take the practicum or an internship with a government agency.

Criminal Justice Emphasis

Consult advisers for minor requirements.

General Political Science Emphasis

You may choose to take a very flexible program in Political Science. Such a program might be designed to lead to graduate work in Political Science, or employment in business, journalism, planning, or the international area.

Research/Graduate School Emphasis

Students wishing to pursue graduate studies in political science or careers in political opinion research should consider the research oriented alternative courses which may be applied toward the major.

Psychology (Psyc)

Virginia Norris Department of Psychology Scobey Hall 338 605-688-4322 e-mail: Psycmain@sdstate.edu

Faculty

Professors Hillner, Acting Head; Professors Branum, Burke; Associate Professors Norris, Phelps; Assistant Professors King, Spear, Woldt.

Programs

The Department offers a Bachelor of Science degree with a major in Psychology. Within the Psychology major, students may pursue a preprofessional curriculum, an applied curriculum, a teaching option (preparation for secondary school teaching), or a psychological services option.

The minimum departmental requirement for a psychology degree (applied curriculum) is 30 credits prefixed Psyc which include 101 or 102, 302 or 315, and 490. Minimum college and university requirements are given in the appropriate sections of this bulletin and are incorporated in the curriculum plans listed later. Advisers assist students to personalize curriculum plans and ensure that all requirements are met.

Psychology Major, Preprofessional Curriculum

The preprofessional curriculum is for those students who intend to become fully qualified psychologists. It is designed to provide preparation for continued training in psychology at the graduate level. It establishes a strong foundation in principles of psychology, techniques for analyzing behavior, historical findings, and theoretical approaches.

Psychology Major, Applied Curriculum

The applied curriculum is intended for those to whom an education in psychology will provide a foundation of knowledge of the principles of behavior that may be applied to any career or occupation that requires working with people. Flexibility is maximized to meet individual student needs.

Psychology Major, Teaching Option

The teaching option in psychology prepares students to qualify for certification to teach in secondary schools. Students pursuing this option should contact the College of Education and Counseling and the Department Teaching Coordinator before their junior year to obtain complete teacher education information and guidance.

Psychology Major, Psychological Services Option

The Psychological Services option is designed for those persons interested in working as diagnostic and therapeutic aides in clinical facilities. The program for this option includes familiarization with standard tests and techniques of therapy, as well as a supervised senior internship at a treatment facility.

Minor

The minor in Psychology consists of the following courses: Psyc 101 or 102, 202, 409, and 6 or 7 additional credits of 300-400 level courses for a total of 16 credits.

Public Recreation

Greg Place

Department of Health, Physical Education and Recreation Physical Education Center 267 605-688-6163

e-mail: Gregory_Place@sdstate.edu

Programs

The HPER Department offers a Bachelor of Science degree with a major in Public Recreation. The Public Recreation major is excellent for those seeking to work in agencies such as YMCA/YWCAs, municipal recreation, business, and therapeutic recreation in clinical as well as community settings. A minor in Public Recreation is also offered.

Public Recreation Major

The requirements for the major include courses in the freshman and sophomore years which help students learn introductory information in a broad spectrum of courses and to gain a background in several areas of recreation such as dance, music, sport, and aquatics. During the junior and senior years the focus changes to administration and management courses.

Minor

Students earning a minor in Public Recreation take seven required courses and an additional seven credits from a selected list of courses.

Range Science (Rang)

(See Animal and Range Sciences)

Religion (Rel)

(See Philosophy and Religion)

Reserve Officer Training Corps Program (ROTC)

(See Aerospace Studies, Military Science)

Restaurant and Institution Management (HFM, NFSH)

(See Nutrition, Food Science and Hospitality)

100 Department and Program Descriptions

Rural Sociology (Soc, Anth)

Donna Hess Department of Rural Sociology Scobey Hall 224 605-688-4132 e-mail: rur.soc@abs.sdstate.edu

Faculty

Distinguished Professor Hess, Acting Head; Professors Arwood, Faltemier, Kayongo-Male, Mendelsohn, Stover, Professor Emeritus Satterlee, Sauer, R. Wagner; Associate Professor Grant; Assistant Professor DuBois; Assistant Professor Emeritus M. Wagner.

Programs

The courses offered by the department have been organized with three objectives in mind: a sequence for those who may wish to earn an undergraduate major or minor in sociology; basic service courses that will be of interest and practical help to students in any college; and courses to fulfill requirements of a Master's degree or Doctor of Philosophy degree in Sociology. (Students interested in Graduate Program – see University Graduate Bulletin and department graduate guide.)

The department offers the B.A. and B.S. degrees in Arts and Science with a major in Sociology. An undergraduate may select from any of the following options in the Arts and Science curriculum. Each student is assigned to an adviser based on choice of option. Majors will be furnished with a department undergraduate handbook outlining specific requirements and recommended courses in each option.

General Sociology Option. Incoming freshmen and transfer student majors will be assigned to this option. After taking courses in specialized areas, accomplishing a cumulative grade point average of at least 2.2, and working with General Sociology Option Advisers, students may select any of the following options. Those desiring to gain a broad orientation to all areas of Sociology with anticipation of other career interests or graduate school may remain in this option.

Teaching Option. Prepares for entrance into junior or senior high level teaching. These students in consultation with departmental Teaching Option Adviser and the College of Education and Counseling plan their program to accomplish other teaching minors to maximize employment opportunities. One semester is set aside for a teaching-block and off-campus teaching assignment. (Minimum GPA of 2.2)

Social Work Option. The department cooperates with the Department of Social Behavior at USD, to offer an accredited degree in Social Work for those seeking a specialized career in private or public social welfare. Students need to work closely with the Coordinator of Social Work. They need to select this option early in their sophomore year to complete all requirements. The final portion of the program is completed at USD. Students seeking more general social service type careers should select the Human Services Option. (Minimum GPA of 2.2)

Human Services Option. Designed for those interested in "working with people" in a variety of social service type agencies. Students are encouraged to take social work, criminal justice, and child development type courses and complete an internship placement in a social service agency. This option differs from the Social Work Option in that students are working toward a B.A. or B.S. degree in Sociology; whereas those in the Social Work Option are seeking a B.A. or B.S. in Social Work. (Minimum GPA of 2.2)

Criminal Justice Option. Students seeking careers in probation, parole, court services, pre-law, private security, or general law enforcement should select this option. Those selecting this option will be

working toward a B.A. or B.S. in General Sociology with a minor in Criminal Justice. Both are offered by the Department of Sociology. Students will be expected to work closely with their adviser within the department to fulfill the necessary requirements of the program. (See CJus for Minor requirements.) (Minimum GPA of 2.2)

Human Resources Option. Those students seeking careers in business, related to human resources in public and private agencies and businesses, are encouraged to select this option. Academic programs are individually tailored with the Personnel Option Coordinator in areas such as employee relations, conflict management, labor relations, aptitude testing, and Affirmative Action. Supportive coursework in economics, guidance, accounting and psychology are incorporated in this option. (Minimum GPA of 2.2)

Minor

Includes Soc 100, and 15 additional (Soc or Anth) credits. Six credits must be numbered 300 or above. (Recommended that students declare minor prior to junior year. Register with department.)

Students should plan their schedules to take lower level courses (100-200) in their freshman and sophomore years and upper level (300-400) during their junior and senior years. Students anticipating graduate school should enroll in Stat 281, Statistical Methods I; Phil 331, Philosophy of Science; and Engl 379, Technical Communications, as a part of their general electives.

Students must accomplish a total of 30 hours of upper level courses (300 or above).

Sociology (Soc)

(See Rural Sociology)

Soils

(See Plant Science)

Spanish (Span)

(See Modern Languages)

Speech (SpCm)

(See Communication Studies and Theatre)

Statistics (Stat)

(See Mathematics and Statistics)

Teacher Education

Thomas E. Deering
Department of Teacher Education
Wenona Hall 112
605-688-4376
e-mail: Tom Deering@sdstate.edu

Faculty

Professor Deering, Head; Professors Hanson, Moeller; Associate Professors Husmann, Rogers, Maldonado, Penrod, Thompson; Instructors Rogness, Russow.

Programs

Teacher education at SDSU is a certification program. Students choose a major and seek a B.S. or B.A. degree first in the academic subject or subjects of their choice. Once accepted into the teacher education program, they progress through a sequence of professional courses to acquire knowledge and skills necessary for teaching. Students need to inform their major adviser of their interest in teaching and follow guidelines which are outlined for a teaching emphasis. Advisers in teacher education also work with admitted students.

Many students complete their majors and professional training simultaneously; others earn their degree before beginning the professional sequence. In either case, those who successfully complete all requirements will be qualified to earn a certificate in: secondary teaching in one (or more) of 18 different subject areas or K-12 teaching in art, world languages, music, or physical education (the general elementary education program is a cooperative program with Black Hills State University and/or Dakota State University).

Admission to the teacher education sequence of courses requires an overall GPA of 2.5 and a major GPA of 2.6. Additional prerequisites are required and students seeking admission must demonstrate the personal characteristics desirable for an educator. The professional education/certification program requires professional credits which include student teaching.

The undergraduate teacher education program is NCATE accredited. For more information regarding teacher education please see the section on the College of Education and Counseling in this bulletin.

Career and Technical Education

The Bachelor of Science in Career and Technical Education prepares students to teach in high school, multi district, or post secondary vocational programs. People who have completed a technical specialty at one of the area's technical schools, have occupational experience, or complete a technical specialty at SDSU are eligible for this program. To attain certification, students must meet the certification requirement of the State Department of Education and Cultural Affairs or, in the case of Aviation, must complete FAA requirements.

Many students who enroll in this program are currently teaching technical education but do not hold a baccalaureate degree. Classes are offered through a combination of delivery methods including oncampus, off-campus, telecommunications and the Rural Development Telecommunications Network (RDTN).

Agricultural Education (AgEd)

The Undergraduate Teacher Education Department provides professional education for the agricultural education major offered through the College of Agriculture and Biological Sciences. Students preparing to teach agriculture in public schools will complete all of the required core courses in that college. The students' total program is designed so that he/she receives supportive instruction in technical agriculture, basic science, and communication skills.

Students must file an application to be admitted to this program.

Endorsement Programs

The middle level endorsement is offered by the department. Many states and formally organized middle schools require that teachers are endorsed to teach at 5-8 grade levels. The department has an eight credit sequence which is an approved endorsement program. Coaching endorsements can also be added to a teacher's certificate. For more information contact the secretary of the Undergraduate Teacher Education Department at 688-4376.

Textiles, Clothing and Interior Design (AM, ID)

(See Apparel Merchandising and Interior Design)

(Pre-) Veterinary Science (Vet)

David Zeman Department of Veterinary Science Animal Disease Research 105 605-688-5172 www.vetsci.sdstate.edu

Faculty

Professor Zeman, Head; Professors Benfield, Francis, Hildreth, Hurley, Johnson, Neiger, D. Nelson, Associate Professors Chase, Epperson, Erickson, Hamilton, Holler, Miskimins, E. Nelson; Assistant Professors Christopher-Hennings, Leslie-Steen.

Programs

The Veterinary Science Department provides advising services for students in the pre-veterinary medicine curriculum and offers courses in the biomedical sciences for undergraduate and graduate majors in related sciences. The department also offers several graduate research assistantship positions in microbiology, virology, and molecular biology for students majoring in other departments. Graduate training is supported by active research programs in diseases of food-producing animals.

South Dakota does not have a professional College of Veterinary Medicine. A pre-veterinary medicine curriculum is offered which allows students to obtain prerequisites for application to Colleges of Veterinary Medicine in other states. Students may meet requirements in two or three years of pre-veterinary study. Many students complete a major for the Bachelor of Science Degree before entering the professional curriculum of Veterinary Medicine. Many degree options are available to students in the pre-veterinary medicine curriculum, but popular choices include Animal Science, Biology, Microbiology, Dairy Science, or others. Students typically select a BS option late in their freshman year or during their sophomore year.

Entrance into the professional curriculum in a College of Veterinary Medicine rests with the individual applicant, and is based upon many factors including their academic record and experience. The applicant should be aware of the difficulties involved in being accepted to a College of Veterinary Medicine. Keen competition should be anticipated.

Visual Arts (Art)

Norman Gambill Department of Visual Arts Grove Hall 101 605-688-4103 fax: 605-688-6769

e-mail: SDSU ARTDEPT@sdstate.edu

http://www.sdstate.edu/~wvar/http/webpgbeg.html>

Faculty

Professor Gambill, Head; Professors French, Morgan, Spinar, Steele; Professor Emeritus Edie: Associate Professors Kruse, Wallace.

Programs

Art Department courses offer art and design studio and lecture experiences to all SDSU students, regardless of their major. Students in the Visual Arts pursue careers as artists, graphic designers, or art educators. Our program aims to give the breadth for careers in reality-based worlds of the visual arts after graduation, or, for further advanced or specialized study of art, education, or design.

Our Visual Arts degree paths include five concentrations: Art Education, Graphic Design, Fine Arts-Painting/Printmaking, Fine Arts-Ceramics/Sculpture, and Fine Arts-General Art. To complete a concentration, the Art Major must meet SDSU and College of Arts and Science Core requirements, our own 30-hour Visual Arts Core, and 18 to 24 or more additional hours in their concentration. To graduate, the Art Major also presents his or her work to a faculty jury who will assess their development in two reviews: the Progress Review and the Senior Review. The Senior Review involves a public exhibition of their art or design work.

The 30-hour Visual Arts Core

Basic studio courses of 18 hours should be completed during the freshman and sophomore years: Art 111, 112, 121, 123, 212 or ArtD 255, and Art 222. The Visual Arts Core also includes art history courses: ArtH 100, 211, 212, plus 3 hours of art history electives.

Art Education (B.A. or B.S.)

Prepares the student to be certified to teach art programs in the public schools of South Dakota (K-12). Our Department cooperates with the College of Education's Undergraduate Teacher Education program to provide the degree requirements.

Graphic Design (B.A. or B.S.)

Emphasizes the applied study of art and technology. Students develop a portfolio in preparing for professional experience in graphic design or further graduate study. Areas of design study may include but are not limited to logo design, computer graphics, publication and web page design, illustration, advertising design, poster design, and multi media.

Fine Arts - Painting/Printmaking (B.A. or B.S.)

Introduces both painting and printmaking through a variety of traditional and contemporary approaches. Students choose to complete one of the advanced four-semester sequences, including either Painting or Printmaking IV, and at least two semesters of the complementary area. Students are prepared for future careers as artists, educators, and for graduate studies.

Fine Arts - Ceramics/Sculpture (B.A. or B.S.)

Introduces both ceramics and sculpture through a variety of traditional and contemporary approaches. Students choose to complete one of the advanced four-semester sequences, including either Ceramics or Sculpture IV, and at least two semesters of the complementary area. Students are prepared for future careers as artists, educators, and for graduate studies.

Fine Arts – General Art (B.A. or B.S.)

Designed for the student who desires a double major or a major-withminors in other departments in the university. General Art also accommodates the student who wishes to develop a self-directed program in various emphasis-areas in the Department as well as the option of additional elective credits.

Requirements for Art Minor: 24 cr

To include 6 credits in art history.

The Ritz in Grove Hall

Art and design works by students, faculty, and visiting artists/designers are exhibited throughout the year in The Ritz Gallery.

Water Management

(See Plant Science)

Weed Science

(See Plant Science)

Wildlife and Fisheries Sciences

(WL)

Charles Scalet

Department of Wildlife and Fisheries Sciences Northern Plains Biostress Laboratory 138C 605-688-6121

e-mail: wildlifefish@abs.sdstate.edu http://wfs.sdstate.edu

Faculty

Professor Scalet, Head; Professors Berry, Flake, Higgins, Linder (Emeritus), Rockwell (Adjunct) Willis; Associate Professors Brown, Euliss; (Adjunct), Hamilton (Adjunct), Hubbard, Jenks, Uresk (Adjunct); Assistant Professors Austin (Adjunct), Brundige (Adjunct), Chipps, Gigliotti (Adjunct), Holland (Adjunct), Naugle (Adjunct), Rumble (Adjunct).

Programs

The Department offers the Bachelor of Science, Master of Science, and Doctor of Philosophy degrees. No minors are offered. A student who plans on a career in research should complete an advanced degree. Each student is assigned an academic adviser in the Department to assist with curriculum planning. Students can, with our undergraduate curriculum, meet the academic requirements for certification by both the American Fisheries Society and The Wildlife Society. Requirements for the undergraduate degree are provided in the appropriate section of this bulletin

Wildlife and Fisheries Sciences Major (B.S.)

This degree is intended to educate students in preparation for entry-level positions with state and federal agencies, private companies, and for the pursuit of higher academic degrees. It is our goal to prepare students pursuing this degree with basic technical expertise concerning the biota, habitat, and human dimensions aspects of wildlife and fisheries resources. In addition, because this degree is one that is also directed at producing well-rounded citizens, subjects such as communications, social sciences, humanities, mathematics and statistics, chemistry, physics, and wellness are also addressed.

Wildlife and Fisheries Sciences Major (M.S.)

This degree is intended to educate students for management-level positions with state and federal agencies, private companies, and for the pursuit of higher academic degrees. It is our goal to build on the foundation that students obtain during their undergraduate education, primarily directing them into some more specific area of wildlife or fisheries. By using specifically identified coursework areas and mentoring we strive to assist students in developing their intellectual capabilities in working with natural resources and people. In addition, each student must propose and conduct an original scientific investigation.

Biological Sciences (Wildlife and Fisheries Sciences) (Ph.D.)

This degree is intended to educate students for upper-level management and administrative positions with state and federal agencies, and private companies. It is also intended to prepare students in the teaching, research, and service component responsibilities needed for faculty positions with universities and colleges. By building on the educational foundation that students obtained from bachelors and masters degree work, we endeavor to raise them to a higher intellectual plateau. While coursework is involved, this is primarily a research and mentoring educational experience. This degree requires original thought and research contributions, synthesis and development of information, and contributions to the world and its resources. We strive to help these students become more operationally and conceptually creative.

Women's Studies (WmSt)

Virginia Norris Department of Psychology Scobey Hall 325 605-688-4915 e-mail: Virginia_Norris@sdstate.edu

Program

An interdisciplinary program enabling the student to select courses dealing directly or indirectly with women, including the development of feminism, women's changing roles in the family, religion, the labor force, and politics. The minor is particularly useful for students expecting to work with women in social work, counseling, nursing, business, or education. 18 hours with a "C" or better in each course are required for the minor. The Women's Studies Coordinator assists students to personalize their curriculum plans.

Zoology (Zool)

http://www.abs.sdstate.edu/bio

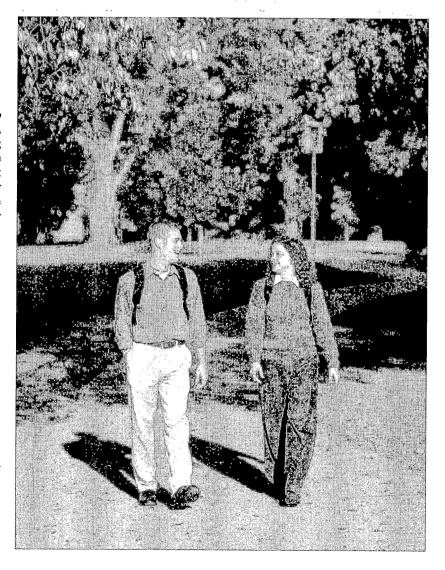
Gary Peterson
Department of Biology and Microbiology
Agricultural Hall 304
605-688-6141
e-mail: biomicro@abs.sdstate.edu

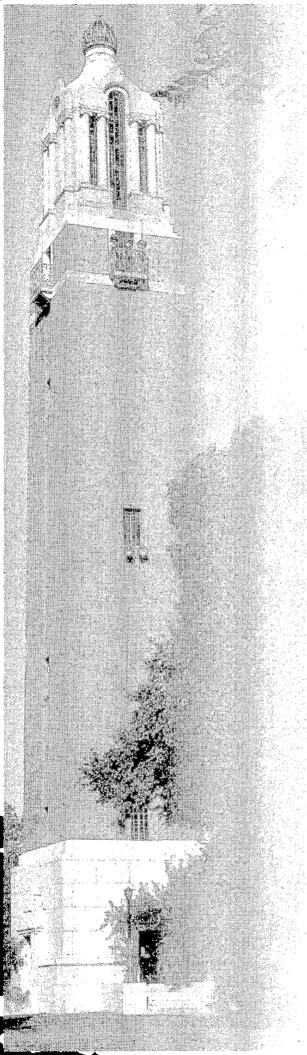
Faculty

Professor Peterson, Acting Head; Professors Gibbons, Granholm, Hildreth, Hutcheson, Kayongo-Male, Larson, McMullen, Reese, Ruffolo, Westby, Whalen; Professors Emeriti Baker, Chen, Hugghins, Morgan, Myers, Pengra; Associate Professors Bleakley, Cheesbrough, Erickson, Gibson, Hurley, Rowland, Sutton, Troelstrup; Associate Professor Emeritus Morrill; Assistant Professors Dieter, Gilmanov, Pedersen, Yen; Instructors Willgohs, McCutcheon; Adjunct/Joint Faculty Benfield (Vet. Sci.), Chase (Vet. Sci.), Diggins (Augustana), Evenson (Chem.), Fennell (HFLP), Francis (Vet. Sci.), German (WRI), Henning (DS), Johnson (PS), Majerle (Chem.), McFarland (ARS), Nelson (Vet. Sci.), Reidel (NGIRL-USDA), Rietz (Brookings Medical Clinic), Specker (FFS), West (Chem.).

Requirements for Zoology Minor: 16 cr

The minor in Zoology consists of Bio 101 or 151, and additional courses with a Zool prefix for a total of at least 16 credits. Two courses must be at the 300 level or above.





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Summer Term

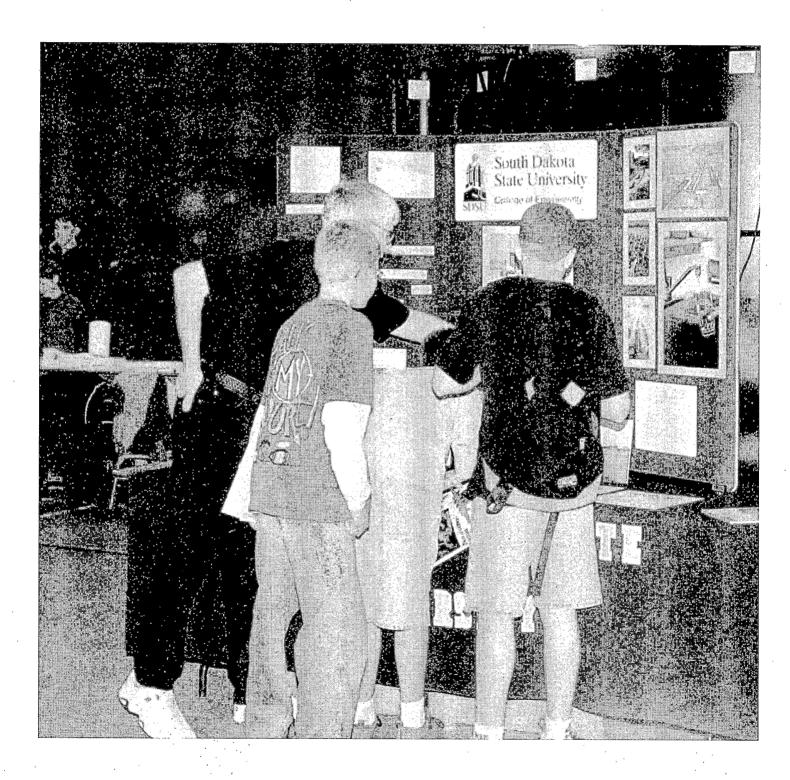
Edward P. Hogan Associate Vice President for Academic Affairs and Chief Information Technology Officer Box 2201, Brookings, SD 57007-2098

e-mail: Edward_Hogan@sdstate.edu

SDSU offers a wide range of courses and degree programs during the summer months as well as numerous special workshops, short courses, distance education classes, evening offerings, and non-credit programs. Summer programming is offered May through August and is characterized by innovation and responsiveness to your needs. Classes are comfortably sized and time is available for individual attention from

the faculty member. Participants need not be regularly matriculated at SDSU but may be admitted as special students through completion of one short form.

For further information and to receive the schedule of offerings, contact the Academic Affairs Office, ADM 230, 605-688-5193.



Outreach Programming

Gail Dobbs Tidemann, Dean College of General Registration Box 511, Brookings, SD 57007-2098 e-mail: Gail_Tidemann@sdstate.edu

South Dakota State University has a long tradition of, and responsibility for, delivering a variety of outreach efforts to locations across the state, region, and world. These include educational services to the Sioux Falls Center for Public Higher Education, the West River Graduate Center in Rapid City, the Capital University Center in Pierre (CUC), Nursing Upward Mobility, and numerous other distance education classes, workshops, and services.

Outreach Programming provides coordinative support for offcampus educational programs and as such serves as a conduit for the University's service mission to citizens of South Dakota, the region and world. Outreach Programming is designed to deliver both state and self support education through on site or distance education credit courses, non-credit conferences, short courses, and workshops.

Credit Programs. Academic standards and policies governing offcampus and technology communicated courses are identical to the oncampus instructional program. Hence, credit course offerings, instruction and academic standards are the responsibilities of the Vice President for Academic Affairs, deans of the colleges, and department heads. There are outreach locations throughout South Dakota where credit courses are presented each semester. Additional locations are added as need and enrollment indicate. Ask for a copy of the current Showcase for details and locations.

Sioux Falls Center for Public Higher Education, see SDSU Sioux Falls Programs on page 108.

Capital University Center in Pierre was established by the people of Central South Dakota in 1982 to provide opportunities in higher education for the people of the region. In 1983, CUC and South Dakota State University entered into an agreement to enhance educational opportunities for residents of Central South Dakota through the offering of courses designed to transfer to degree-granting institutions of higher education. SDSU now offers at CUC the Associate of Arts degree in General Studies, the Bachelor of Science degree with majors in General Studies and Nursing, and the Master of Science degrees in Industrial Management and Nursing.

The West River Graduate Center in Rapid City provides graduate level opportunities through the College of Education and Counseling. The College offers Master of Education and Master of Science programs in Education and Counseling in Rapid City. These programs serve the military personnel, teachers, administrators, and counselors in Western South Dakota.

The Nursing Upward Mobility Program deepens, enhances, and enriches the knowledge and capabilities of registered nurses across the state and region who are already licensed. This program is designed to enable the registered nurse to provide more comprehensive nursing care, assist in the prevention of disease, promote health care practices, and expand knowledge and skills necessary for leadership roles in nursing.

The Nursing Upward Mobility program leading to the Bachelor of Science degree is offered for registered nurses desiring to upgrade their associate degrees or diplomas. The program is offered at Brookings and Sioux Falls and alternates at various other sites across the state including Aberdeen, Huron, Mitchell, Pierre, Rapid City, and Sioux Falls. The RN Upward Mobility Mountain Plains Program is delivered by satellite to South Dakota and several regional states. The Master of Science in Nursing is also offered cyclically to various off-campus sites as programming allows. Please contact the Dean of Nursing at 605-688-5178 for information on nursing programs.

Distance Education offerings include an array of classes and programs directed to specific educational needs of SDSU's off-campus students. These offerings include classes and degree work offered via the Rural Development Telecommunications Network, ISDN, Cable TV, dual credit satellite courses to high schools, videotape, Internet, and a variety of internship, clinical and related experiences. Special credit and non-credit classes are also offered to assist agriculture and industry with the upgrading of skill levels. The Cattleman's Satellite Course is a good example. This non-credit program was offered to over 2,500 participants in the United States and Canada. Special offerings in cooperation with the missions of the Tribal Colleges also occur.

Conferences and Institutes. The University encourages involvement of its faculty and professional staff with groups sharing common interests and expertise. Individuals and groups interested in holding conferences or meetings at the University should contact Outreach Programming. This office provides services ranging from simple logistics either on campus or at other locations throughout South Dakota, to program planning, staffing, financing, and evaluation.

Outreach Programming assistance to organizations is another contribution of the University to the social and economic development of the state. Outreach Programming will be happy to assist in matching needs with expertise within the University upon request.

For further information and copies of publications, either for credit programming or conferences and institutes, please contact the Outreach Programming Office, ADM 315, South Dakota State University, Box 2201, Brookings, SD 57007-2098, 605-688-4431.

Evening College

Gail Dobbs Tidemann, Dean College of General Registration Box 511, Brookings, SD 57007-2098 e-mail: Gail_Tidemann@sdstate.edu

South Dakota State University established Evening College for parttime, non-traditional students. Evening College offers college credit courses and programs that are provided at times that are convenient for working adults. All courses taught in the Evening College are the same with regard to course number and content as those taught in the regular day courses. More information on Evening College may be obtained through the College of General Registration, MeC 123, South Dakota State University, Box 511, Brookings, SD 57007-2098, 605-688-4153.

SDSU Sioux Falls Programs

Allen R. Branum Director, SDSU Sioux Falls Programs 132 S. Dakota Avenue Sioux Falls, SD 57104

South Dakota State University, through the South Dakota Board of Regents Center for Public Higher Education, provides college course work and degree programs in Sioux Falls. The Center for Public Higher Education is designed to serve the needs of non-traditional students in the Sioux Falls area. Most courses taught through the Center are taught after 5:00 p.m. or on weekends. The course content, number and contact hours are the same as the identical course taught on campus in the regular day program. However, a typical three credit course will meet for three hours one night per week rather than one hour three days per week. Course work is offered during the fall, spring, and summer terms.

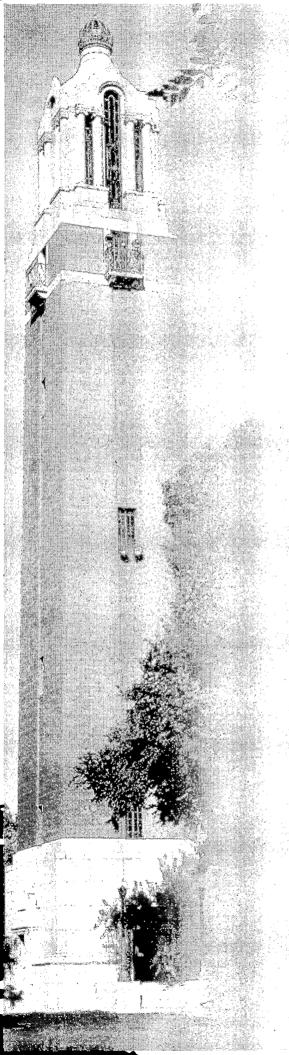
The majors offered in Sioux Falls include aviation education, engineering, family and consumer sciences, liberal studies, nursing, and

electronics engineering technology at the undergraduate level. Master's degrees are offered in industrial management, education, geography, and nursing. In addition, approximately one-half of the credits required for the master's degree in counseling may be taken in Sioux Falls.

Students in all majors may complete their general education core in Sioux Falls.

For more information about these programs contact: SDSU Sioux Falls Programs, 132 S. Dakota Avenue, Sioux Falls, SD 57104, or call 605-367-5641.





MAJOR AND
MINOR REQUIREMENTS109

Major and Minor Requirements

All authorized majors and minors are listed here in alphabetical order. A contact person, his or her campus address, and phone number is included with each major or minor. The curriculum plans shown are examples only. A student should work out a personalized plan with his or her adviser.

Accounting (Acct) Minor		Freshman Year ABE 122, Introduction to Agricultural and Biological	S
Richard Shane		Engineering2	
Department of Economics		Chem 112-113*, General Chemistry I and Lab4	
Scobey Hall 136		Chem 114*, General Chemistry II or	
605-688-4141		Chem 120*, Elementary Organic Chemistry	3
e-mail: janet_wilson@sdstate.edu		Engl 101*, Composition I3	_
http://econnet.sdstate.edu/dept/index.asp		GE 101, Introduction to Engineering and Technology	- 1
		GE 121, Engineering Design Graphics I	1
Requirements for Accounting Minor: 21 cr		Math 123*, Calculus I and	-
Acct 210, Principles of Accounting I	3	Math 224, Calculus II5	4
Acct 211, Principles of Accounting II	3	SpCm 101-101A*, Fundamentals of Speech and Lab	3
Acct 310, Intermediate Accounting I	3	Gen Ed Humanities and Fine Arts*, pp. 35-37	3
Acct 311, Intermediate Accounting II	3	Gen Ed Social Science*, pp. 35-373	3 .
Acct 320, Cost Accounting	3	,	
Acct 430, Income Tax Accounting	3	Sophomore Year F	S
Econ 201, Microeconomics Principles or		ABE 343-343A, Engineering Properties of Biological	
Econ 202, Macroeconomics Principles	3	Materials and Lab3	
	-	Bio 101-102, Biology Survey I and Lab or	
		Micr 231-232, General Microbiology and Lab or	
Agrachago Studios (Air) Minor	•	PS 213-213A Soils and Lab	3-4
Aerospace Studies (Air) Minor		EM 221, Statics3	
(Air Force ROTC)		EM 222, Dynamics	3
Colonel Jeffrey Boulware	^	GE 122, Engineering Design Graphics II and	
Department of Aerospace Studies	•	GE 123, Computer Aided Design and Graphics1	1
DePuy Military Hall 004		Math 225, Calculus III	
605-688-6106		Math 321, Differential Equations	3
		Phys 211-212**, University Physics I and Lab and	
Requirements for Aerospace Studies Minor: 16 cr		Phys 213-214, University Physics II and Lab4	. 4
A minor in Aerospace Studies requires 16 semester hours, includi	na all	Gen Ed Humanities and Fine Arts*, pp. 35-37	3
Air Force ROTC courses.	ng an	Gen Ed Social Science*, pp. 35-373	
A' 101 101 A A G. 11 100 17 1		Junior Year F	\mathbf{S}
Air 101-101A, Aerospace Studies 100 and Lab	1	ABE 314-314A***, Ag Power & Machines and Lab4	
Air 102-102A, Aerospace Studies 100 and Lab	1	ABE 324-324A***, Ag Structures and Indoor	
Air 201-201A, Aerospace Studies 200 and Lab	1	Environment and Lab	4
Air 202-202A, Aerospace Studies 200 and Lab	1	ABE 372-372A, Microcomputer Applications in	
Air 301-301A, Aerospace Studies 300 and Lab	3	Agricultural Engineering and Lab	2
Air 302-302A, Aerospace Studies 300 and Lab	3	CSc 218, Introduction to C/C++/UNIX for Engineers3	
Air 401-401A, Aerospace Studies 400 and Lab	3	EE 300-301, Basic Electrical Engineering I and Lab3	
Air 402-402A, Aerospace Studies 400 and Lab	3	EM 321, Mechanics of Materials3	
		EM 331, Fluid Mechanics	3
A		Engl 379*, Technical Communications+	3
Agricultural and Biosystems		ME 314, Thermodynamics3	J
		Technical Elective++	3
Engineering (ABE) Major			3
- , ·		Senior Year F	S
Van Kelley, Acting		ABE 411, Design Project III2	
Department of Agricultural and Biosystems Engineering		ABE 422, Design Project IV	2
Agricultural Engineering 107	•	ABE 434-434A***, Natural Resources Engineering	
605-688-5141		and Lab4	
e-mail: abe.dept@abs.sdstate.edu		ABE 444-444A***, Unit Operations of Biological	
http://www.abs.sdstate.edu/ae		Materials Processing and Lab	4
		ABE 463-463A, Applied Instrumentation and Lab3	
Requirements for Agricultural and Biosystems Engineering M	lajor	ABE 490, Seminar & Inspection Trip	
Bachelor of Science in Agricultural and Biosystems Engineerin	ng	Math 373, Introduction to Numerical Analysis or	
(Accredited by the Engineering Accreditation Commission of t		Math 331, Advanced Engineering Math or	
		Math 381, Mathematical Statistics or	
Accreditation Board for Engineering and Technology)		Stat 281, Statistical Methods I	3-4

SDSU Core: Goal 1**, Wellness, p. 39	2	ME 362, Industrial Engineering	3
SDSU Core: Goal 2**, Human Community, p. 39	2	ME 412, Internal Combustion Engines	3
SDSU Core: Goal 3**, Human Spirit, p. 40	2	ME 415, Heat Transfer	3
SDSU Core: Goal 5**, Stewardship, p. 412		ME 421, Design of Machine Elements	3
Technical Electives++4	•	ME 428-428A, Machine Design-Case Studies and Lab	3
ATTLE 20 and to December Company Edwardian recoveryments (Con F.	d) must be	PS 362-362A, Environmental Soil Management and Lab.	3
*The 30 credit Board of Regents General Education requirements (Gen E completed as part of a students first 64 credits. See pages 35-37 for details.	Courses that	Water Resources Engineering	
are part of these credits are indicated by an asterisk (*).		CEE 106-106A, Elementary Surveying and Lab	3
(G) The BOR General Education requirements include an International/Globa	al Diversity	CEE 327-327A, Water Supply Engineering and Lab	4
requirement of 6 credits. Courses may count toward both the Internati	onal/Global	CEE 333-333A, Hydrology and Lab	3
Diversity requirement and the social science and/or humanities and fine arts re See pages 35-37 for details.	quirements.	CEE 433, Hydraulic Engineering	3
See pages 33-37 for details.		CEE 446-446A, Géotechnical Engineering and Lab	4
**South Dakota State University has a 10 credit SDSU Institutional Graduation R		PS 213-213A Soils and Lab	3
(SDSU Core). See pages 39-41 for details. These requirements are indicated asterisk (**).	by a double	PS 362-362A, Environmental Soil Management and Lab.	3
		PS 483, Irrigation-Crop & Soil Practices	3
Students must take the proficiency examination after completing 48 credits. Engli a course in each of the General Education areas of social science, mathema		Requirements for Agricultural and Biosystems Engineering	
science, and humanities and fine arts must be taken prior to taking this exam.		Major – Food and Biological Materials Engineering Option	
***You must take at least three of these courses.		Bachelor of Science in Agricultural and Biosystems Engineer	ing
Tou must take at least timee of mese courses.		Freshman Year F	S
+You must receive a "C" or better in Engl 379.		ABE 122, Introduction to Agricultural and Biosystems	
++Technical Electives permit you to concentrate on your applied technical area	of interest.	Engineering2	
		Chem 112-113*, General Chemistry I and Lab and	_
Accordingly, the elective program for each student must be approve adviser. This will include 7 credit hours of technical electives of which		Chem 120*, Elementary Organic Chemistry4	3
credits are 300 or above level courses in the College of Engineering. In		Engl 101*, Composition I	1
your program must include at least 16 social science/ humanities ca	redits (see	GE 101, Introduction to Engineering and Technology	1
approved course listings). At least one social science/humanities course	se must be	GE 121, Engineering Design Graphics I	1
taken at the advanced level.	,	Math 124, Calculus II5	4
Technical Electives		Micr 231-232, General Microbiology and Lab	4
Electives in all options:		SpCm 101-101A*, Fundamentals of Speech and Lab	3
ABE 353, Physical Climatology & Meteorology	3	Gen Ed Social Science*, pp. 35-373	· .
ABE 492, Special Problems in AE	1-3		C
ABE 493, Special Topics	1-4	Sophomore Year A DE 242 242 A Engineering Properties of Rielegies!	S
ABE 494, 495, 496, Cooperative Education/ Internship/Field Experience	1.6	ABE 343-343A, Engineering Properties of Biological Materials and Lab	
	1-6	EM 221, Statics	
All 500 level courses listed in Agricultural & Biosystems Engi Bio 103-104, Biology Survey II and Lab	nieering 3	EM 222, Dynamics	3
CSc 314, Assembly Language	3	GE 122, Engineering Design Graphics II and	3
CSc 316, PL/1 Programming	3	GE 123, Computer Aided Design and Graphics1	1
CSc 426, Computer Architecture & Organization	3	Math 225, Calculus III	
CSc 493, Special Topics in Computer Science	1-3	Math 321, Differential Equations	3
EE 422, Engineering Economy*	2	Phys 211-212**, University Physics I and Lab and	
Math 331, Advanced Engineering Math	. 3	Phys 213-214, University Physics II and Lab4	4
PS 213-213A Soils and Lab or	3	Gen Ed Humanities and Fine Arts*, pp. 35-373	3
CEE 446, Geotechnical Engineering	4	Gen Ed Social Science*, pp. 35-37	3
Stat 281, Statistical Methods I or	3	Junior Year F	S
Math 381, Mathematical Statistics	4	U	~
Man 361, Manemancar Staustics	4	ABE 372-372A. Microcomputer Applications in	
Maii 301, Maiiemaicai Staustics	.4	ABE 372-372A, Microcomputer Applications in Agriculture Engineering and Lab	2
Structures & Environment	.4	Agriculture Engineering and Lab	2 4
Structures & Environment CEE 353, Structural Theory	3		
Structures & Environment CEE 353, Structural Theory CEE 446-446A, Geotechnical Engineering and Lab	3 4	Agriculture Engineering and Lab	
Structures & Environment CEE 353, Structural Theory CEE 446-446A, Geotechnical Engineering and Lab CEE 455-455A, Steel Design and Lab	3 4 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3	
Structures & Environment CEE 353, Structural Theory CEE 446-446A, Geotechnical Engineering and Lab CEE 455-455A, Steel Design and Lab CEE 456-456A, Concrete Theory & Design and Lab	3 4 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3 EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics	
Structures & Environment CEE 353, Structural Theory CEE 446-446A, Geotechnical Engineering and Lab CEE 455-455A, Steel Design and Lab CEE 456-456A, Concrete Theory & Design and Lab CEE 475, Engineering Administration*	3 4 3 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3 EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics Engl 379*, Technical Communications***	4
Structures & Environment CEE 353, Structural Theory	3 4 3 3 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3 EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics Engl 379*, Technical Communications*** ME 314, Thermodynamics3	3
Structures & Environment CEE 353, Structural Theory	3 4 3 3 3 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3. EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics Engl 379*, Technical Communications*** ME 314, Thermodynamics3 Micr 311-311A, Food Microbiology and Lab4	3
Structures & Environment CEE 353, Structural Theory	3 4 3 3 3 3 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3. EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics Engl 379*, Technical Communications*** ME 314, Thermodynamics3 Micr 311-311A, Food Microbiology and Lab4 NFSH 351-351A, Principles of Food Processing and Lab	3 3
Structures & Environment CEE 353, Structural Theory	3 4 3 3 3 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3. EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics Engl 379*, Technical Communications*** ME 314, Thermodynamics3 Micr 311-311A, Food Microbiology and Lab4	3 3
Structures & Environment CEE 353, Structural Theory	3 4 3 3 3 3 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3. EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics Engl 379*, Technical Communications*** ME 314, Thermodynamics3 Micr 311-311A, Food Microbiology and Lab4 NFSH 351-351A, Principles of Food Processing and Lab	3 3
Structures & Environment CEE 353, Structural Theory	3 4 3 3 3 3 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3 EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics Engl 379*, Technical Communications*** ME 314, Thermodynamics3 Micr 311-311A, Food Microbiology and Lab4 NFSH 351-351A, Principles of Food Processing and Lab Technical Electives+	3 3 3 3
Structures & Environment CEE 353, Structural Theory	3 4 3 3 3 3 3 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3 EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics Engl 379*, Technical Communications*** ME 314, Thermodynamics3 Micr 311-311A, Food Microbiology and Lab4 NFSH 351-351A, Principles of Food Processing and Lab Technical Electives+ Senior Year F	3 3 3 3
Structures & Environment CEE 353, Structural Theory	3 4 3 3 3 3 3 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3. EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics Engl 379*, Technical Communications*** ME 314, Thermodynamics3 Micr 311-311A, Food Microbiology and Lab4 NFSH 351-351A, Principles of Food Processing and Lab Technical Electives+ Senior Year F ABE 411, Design Project III2 ABE 422, Design Project IV ABE 444-444A, Unit Operations of Biological Materials	3 3 3 8
Structures & Environment CEE 353, Structural Theory	3 4 3 3 3 3 3 3 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3. EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics Engl 379*, Technical Communications*** ME 314, Thermodynamics3 Micr 311-311A, Food Microbiology and Lab4 NFSH 351-351A, Principles of Food Processing and Lab Technical Electives+ Senior Year F ABE 411, Design Project III2 ABE 422, Design Project IV ABE 444-444A, Unit Operations of Biological Materials Processing and Lab	3 3 3 8
Structures & Environment CEE 353, Structural Theory	3 4 3 3 3 3 3 3 3	Agriculture Engineering and Lab Chem 361-361A, Biochemistry and Lab CSc 218, Introduction to C/C++/UNIX for Engineers3. EE 300-301, Basic Electrical Engineering I and Lab3 EM 321, Mechanics of Materials3 EM 331, Fluid Mechanics Engl 379*, Technical Communications*** ME 314, Thermodynamics3 Micr 311-311A, Food Microbiology and Lab4 NFSH 351-351A, Principles of Food Processing and Lab Technical Electives+ Senior Year F ABE 411, Design Project III2 ABE 422, Design Project IV ABE 444-444A, Unit Operations of Biological Materials	3 3 3 8 8

ABE 490, Seminar and Inspection Trip1	
Math 331, Advanced Engineering Math or	
Math 373, Introduction to Numerical Analysis or	
Math 381, Mathematical Statistics or	
Stat 281, Statistical Methods I	3-4
NFSH 360-360A, Food Chemistry and Lab	4
SDSU Core: Goal 1**, Wellness, p. 39	
SDSU Core: Goal 2**, Human Community, p. 39	2
SDSU Core: Goal 3**, Human Spirit, p. 40	2
SDSU Core: Goal 5**, Stewardship, p. 412	
Technical Electives+7	

The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk ().

(G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk ().

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

***You must receive a "C" or better in Engl 379.

+Technical electives permit you to concentrate on your applied technical area of interest.

Accordingly, the elective program must be approved by your adviser. This will include 10 credit hours of technical electives of which at least 6 credits are 300 or above level courses in the College of Engineering and 4 additional credits are from the suggested Technical Elective Courses. In addition, your program must include at least 16 social science/ humanities credits (see approved course listings). At least one social science/humanities course must be taken at the advanced level.

Suggested Technical Elective Courses

ABE 314-314A, Ag Power & Machines and Lab	4
ABE 324-324A, Ag Structures and Indoor Environment	
and Lab	4
ABE 353-353A, Physical Climatology & Meteorology	
and Lab	3
ABE 434-434A, Soil & Water Engineering and Lab	4
AS 341, Fresh Meat Operations	3
AS 345-345A, Processed Meat Technology and Lab	3
AST 443-443A, Food Process and Engineering	
Fundamentals and Lab	3
AST 463, Agricultural Waste Management	3
BAdm 360, Organization and Management	3
Bio 101-102, Biology Survey I and Lab	3
Bio 103-104, Biology Survey II and Lab	3
CEE 423-423A, Waste Water Engineering and Lab	3
CEE 424, Industrial Waste Treatment	2
Chem 380, Environmental Chemistry	4
DS 313, Technical Control of Dairy Products I	3
DS 321-321A, Dairy Product Processing I and Lab	5
DS 322-322A, Dairy Product Processing II and Lab	5
Math 381, Mathematical Statistics	3
ME 421, Design of Machine Elements	3
Micr 310-310A, Environmental Microbiology and Lab	4
NFSH 341-341A, Advanced Food Science and Lab	4
PS 312, Grain & Seed Production and Processing	2
Stat 281, Statistical Methods I	3
,	_

Natural Resources and Environmental Management

Environmental systems engineering focuses on environmentally compatible design and management practices for natural resource systems. Design concepts that have application to all rural environmental settings and "open spaces" in the urban environment are emphasized. Additionally, students obtain an understanding of environmental, biological, and engineering sciences and a proficiency in computer and instrumentation technologies. Graduates will have the qualifications to make contributions to the management of natural resource systems. Contact the Agricultural and Biosystems Engineering Department for course listing.

Agricultural Business Major and Minor

Richard Shane
Department of Economics
Scobey Hall 136
605-688-4141
a-moil: input_wilcon@cdctc

e-mail: janet_wilson@sdstate.edu http://econnet.sdstate.edu/dept/index.asp

Requirements for Agricultural Business Major Bachelor of Science in Agriculture		
		a
		S
Chem 106-107*, Chemistry Survey and Lab		4
Engl 101*, Composition I	or	3
Math 102*, College Algebra		
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Social Science* (Choose one of the following)		
Soc 100, Introduction to Sociology or		
Soc 150, Social Problems, (G) or		
Soc 240, Sociology of Rural America, (G) or		
Anth 210, Cultural Anthropology, (G)3		
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Biological Science Elective*, pp. 35-37		3
Group I Elective***		3
General Electives4		4
Sophomore Year F		S
Acct 210, Principles of Accounting I		
Acct 211, Principles of Accounting II		3
AgEc 271-271A, Farm and Ranch Management and Lab.4		•
Econ 201**, Microeconomics Principles	*	3
Econ 202*, Macroeconomics Principles		
Engl 201*, Composition II		
Math 222, Calculus for Non-Math Majors or		
Math 123, Calculus I		5
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3		3
Group I Elective***		2.
Oloup I Elective		2
Junior Year F		S
AgEc 354, Agricultural Marketing and Prices		3
AgEc 478-478A, Agricultural Finance and Lab3	or	3
BAdm 350, Legal Environment of Business & Contracts 3		2
	or	3
CSc 312, Advanced Microcomputer Applications3		
Econ 301, Intermediate Microeconomics		_
Econ 302, Intermediate Macroeconomics		3
Econ 330, Money and Banking	or	3
Engl 379, Technical Communications		3
Stat 281**, Statistical Methods I		3
SDSU Core: Goal 3**, Human Spirit, p. 402		
One of the following:		
SpCm 201, Interpersonal Communication		
SpCm 215, Public Speaking		
SpCm 334, Discussion3		

Senior Year F S	A anion	Itural and Dagauraa		
AgEc 479**, Agricultural Policy3 or 3	Agricu	ltural and Resource		
BAdm 324, Operations Research4	Fconor	nics (AgEc) Major		
BAdm 360, Organization and Management3 or 3	LCOHOL	ines (Agree) Major		
Two additional courses prefixed AgEc3	Richard Shan	e		
Electives prefixed Acct, AgEc, BAdm, or Econ3	Department of			
General Electives6	Scobey Hall 1	36		
	605-688-4141			
Accelerated Masters Track		wilson@sdstate.edu		
Outstanding students majoring in Agricultural Economics, Agricult		.sdstate.edu/dept/index.asp		
Business or Economics may complete their baccalaureate degree		for A suisvitural and Describe From suiss	7 .7.2	:
Master of Science in Economics combined in five years. Students at for admission to the combined program the fall semester of their ju		for Agricultural and Resource Economics cience in Agriculture	waj	or
year. Those admitted are graduate students that take 400/500 1				S
courses at the graduate level (500) their fourth (senior) year (see below		*, Chemistry Survey and Lab		4
See the SDSU Graduate Bulletin for complete details for the fifth ye		mposition I	or	3
· · · · · · · · · · · · · · · · · · ·		bllege Algebra	-	·
Adjustments to baccalaureate course requirements are as follows:		A*, Fundamentals of Speech and Lab3	or	3
Fourth Year (Replaces Senior Year Above) F S		oal 1**, Wellness, p. 39	or	2
AgEc 479**, Agricultural Policy	Gen Ed Social	Science* (Choose one of the following)		
BAdm 324, Operations Research4	Soc 100, In	troduction to Sociology		
BAdm 360, Organization and Management	Soc 150, So	ocial Problems, (G)		
Econ 423, Statistics II3		ociology of Rural America, (G)		
Econ 428, Mathematical Economics3		Cultural Anthropology, (G)3		
Four of the following:		nities and Fine Arts*, pp. 35-37, (G) 3		2
AgEc 521, Farming and Food Systems Economics		ence Elective*, pp. 35-373		
AgEc 571, Advanced Farm and Ranch Management		ve***		3
Econ 504, History of Economic Thought	General Electiv	ves		3
Econ 520, Economics of the Public Sector	G1			a
Econ 531, Managerial Economics Econ 540, Economics of the International Sector	Sophomore Ye			S
Econ 550, Industrial Organization		ciples of Accounting I3		3
Econ 560, Economic Development		A, Farm and Ranch Management & Lab4		<i>.</i>
Econ 572, Resource and Environmental Economics6		licroeconomics Principles		3
General Electives 4		acroeconomics Principles3		,
		mposition II3		
*The 30 credit Board of Regents General Education requirements (Gen Ed) mu	e Math 222, Calc	culus for Non-Math Majors or		
completed as part of a students first 64 credits. See pages 35-37 for details. Courses are part of these credits are indicated by an asterisk (*).	AT .	Calculus I		5
at part of these steams are maleured by an asterior ().	Gen Ed Humar	nities and Fine Arts*, pp. 35-373		
(G) The BOR General Education requirements include an International/Global Dive requirement of 6 credits. Courses may count toward both the International/G	y Group I Electiv	/e***		2
Diversity requirement and the social science and/or humanities and fine arts requirem	u a 151 d	/es		3
See pages 35-37 for details.	•	•		
**South Dakota State University has a 10 credit SDSU Institutional Graduation Require	Junior Year	\mathbf{F}		\mathbf{S}
(SDSU Core). See pages 39-41 for details. These requirements are indicated by a do	_e AgEc 354, Agr	icultural Marketing & Prices3	or	: 3
asterisk (**).		A, Agricultural Finance and Lab3		
Students must take the proficiency examination after completing 48 credits. English 101	u 17 201 T.	nced Microcomputer Applications3		
a course in each of the General Education areas of social science, mathematics, na science, and humanities and fine arts must be taken prior to taking this exam.		rmediate Microeconomics3		2
		rmediate Macroeconomics		3
***Group 1 Courses are listed on p. 54.		ney and Banking		3
Requirements for Agricultural Business Minor: 21-22 cr		tistical Methods I	OI	3
Econ 201, Microeconomics Principles	One of the follo			<i>J</i> .
Econ 202, Macroeconomics Principles		Interpersonal Communication or		
Two of the following: 6-7	-	Public Speaking or		
Acct 210, Principles of Accounting I (3)		Discussion3		
AgEc 271-271A, Farm and Ranch Management and Lab (4)		/es		5
AgEc 354, Agricultural Marketing and Prices (3)	Senior Year	F		S
BAdm 310, Business Finance (3)		arming and Food Systems Economics		3
BAdm 350, Legal Environment of Business & Contracts (3)		icultural Policy3	٥r	. 3
BAdm 360, Organization and Management (3)	One of the follo		Οı	
Econ 370, Marketing (3)		History of Economic Thought; or		
Nine additional credit hours of courses prefixed AgEc,		Comparative Economic Systems; or		
numbered 300 or above9		Economics of the International Sector; or		
		Economic Development; or		
	Hist 377, Ed	conomic History of the U.S3	or	3

Econ 423, Statistics II	Agricultu
Econ 472, Resource and Environmental Economics	Major
	Clark Hanson
Environmental Economics Emphasis	Supervisor of Agric
PS 213-213A, Soils and Lab3	Department of Und
WL 110, Environmental Conservation2 (These are Group I Elective Courses)	Wenona Hall 101 605-688-4379
One of the following:	,
Phil 100, Introduction to Philosophy4	Requirements for A
Phil/Rel 332, Environmental Ethics3	Bachelor of Science
Phil/Bio 383, Bioethics4	Freshman Year
Two of the following:	AST 202, Construct
ABS 475-475A Integrated Natural Resource	Bio 101-102*, Biolo Bio 103-104, Bio
Management and Lab3	Geog 131-131A*
PS 362-362A, Environmental Soil Management	0eog 131-131A
and Lab	Bio-101-102*, B
AS 446, Agroecology3	Geog 131-131A*
PS/Bio 475, Water Quality in Agriculture3 One of these courses may be substituted for Econ 428, Mathematical	Geog 132-131A Geog 132-132A,
One of these courses may be substituted for Econ 428, Mathematical Economics.	and Lab (11 cr
Leonomies.	Engl 101*, Composi
Accelerated Masters Track	Math 102*, College
Outstanding students majoring in Agricultural Economics, Agricultural	PS 103-103A**, Cro
Business, or Economics may complete their baccalaureate degree and	Soc 100*, Introducti
Master of Science in Economics combined in five years. Students apply	SpCm 101-101A*, I
for admission to the combined program in the fall semester of their	SDSU Core: Goal 1
junior year. Those admitted are graduate students that take 400/500 level	GR 143**, Maste
courses at the graduate level (500) their fourth (senior) year (see below).	Humanities Elective
See the SDSU Graduate Bulleting for complete details for the fifth year.	
	Sophomore Year
Fourth Year (Replaces Senior Year Above) F S	AS 101, Introduction
AgEc 479**, Agricultural Policy	AS 285-285A, Lives
Econ 423, Statistics II3	and Lab
Econ 428, Mathematical Economics3	Chem 106-107 Cher CTE 287, Practicum
Econ 472, Resource and Environmental Economics	Semester I)
Four of the following:	CTE 405, Philosoph
AgEc 521, Farming and Food Systems Economics	(Professional Ser
AgEc 571, Advanced Farm and Ranch Management	Econ 202*, Macroed
Econ 504, History of Economic Thought Econ 520, Economics of the Public Sector	Econ 201, Micro
Econ 531, Managerial Economics	EdFn 375, Human F
Econ 540, Economics of the International Sector	Engl 201*, Compos
Econ 550, Industrial Organization	Ho 111-111A, Gene
Econ 560, Economic Development	WL 110**, Environ
Econ 572, Resource and Environmental Economics6 6	WL 220**, Intro
General Electives	Management
	Humanities Elective
*The 30 credit Board of Regents General Education requirements (Gen Ed) must be	Junior Year
completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).	AgEd 404, Program
	Semester II)
(G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global	Anth 421**, Indians
Diversity requirement and the social science and/or humanities and fine arts requirements.	AS 241, Meat Produ
See pages 35-37 for details.	AST 342-342A, Ap
**South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement	EdFn 365, Integration
(SDSU Core). See pages 39-41 for details. These requirements are indicated by a double	EPsy 302, Education
asterisk (**).	Semester II)
Students must take the proficiency examination after completing 48 credits. English 101, and	ES 131, Welding
a course in each of the General Education areas of social science, mathematics, natural	Phys 101-102, Surv
science, and humanities and fine arts must be taken prior to taking this exam.	PS 213-213A, Soils
***Group 1 Courses are listed on p. 54.	SeEd 314, Supervise
	(Professional Sea
•	SeEd 450, Teaching

Agricultural Education (AgEd) Major

Clark Hanson
Supervisor of Agriculture Education
Department of Undergraduate Teacher Education
Wenona Hall 101
605-688-4379

605-688-4379		
Requirements for Agricultural Education Major Bachelor of Science in Agriculture		•
Freshman Year F		S
		3
AST 202, Construction Techniques and Materials2		
Bio 101-102*, Biology Survey I and Lab and		
Bio 103-104, Biology Survey II and Lab and		
Geog 131-131A*, Physical Geography I and Lab; (10 cr)		
or		
Bio-101-102*, Biology Survey I and Lab and		
Geog 131-131A*, Physical Geography I and Lab and		
Geog 132-132A, Physical Geography II		
and Lab (11 cr)3-7	3-	7
Engl 101*, Composition I3		
Math 102*, College Algebra3		
PS 103-103A**, Crop Production and Lab		3
Soc 100*, Introduction to Sociology		5
		2
SpCm 101-101A*, Fundamentals of Speech and Lab		3
SDSU Core: Goal 1**, Wellness, p. 39 or		_
GR 143**, Mastering Lifetime Learning Skills2	or	2
Humanities Elective*, pp. 35-37		3
·		
Sophomore Year F		S
AS 101, Introduction to Animal Science3		
AS 285-285A, Livestock Evaluation & Marketing		
and Lab		4
Chem 106-107 Chemistry Survey and Lab		4
CTE 287, Practicum in Vocational Education (Professional		•
Semester I)		
CTE 405, Philosophy of Career and Technical Education		
(Professional Semester I)2		
Econ 202*, Macroeconomics Principles or		
Econ 201, Microeconomics Principles		3
EdFn 375, Human Relations (Professional Semester I)3		
Engl 201*, Composition II3		
Ho 111-111A, General Horticulture and Lab		3
WL 110**, Environmental Conservation or		
WL 220**, Introduction to Wildlife & Fisheries		
Management2		
Humanities Elective*, pp. 35-37		3
· PPI DE D'I		•
Junior Year F		\mathbf{S}
AgEd 404, Program Planning in AgEd (Professional		
Semester II)		4
Anth 421**, Indians of North America3		
AS 241, Meat Production to Consumption		3
AST 342-342A, Applied Electricity and Lab		3
EdFn 365, Integrating Computers into the Curriculum		2
		_
EPsy 302, Educational Psychology (Professional		_
Semester II)		2
ES 131, Welding3		
Phys 101-102, Survey of Physics and Lab4		
PS 213-213A, Soils and Lab3		
SeEd 314, Supervised Clinical/Field Experience		
(Professional Semester II)		1
SeEd 450, Teaching of Reading (Professional		
Semester II)		2
Agricultural Systems Technology (AST) Elective3		

Senior Year F		S	
AgEc 271-271A, Farm and Ranch Management and Lab		4	
AgEd 434, Special Methods in AgEd (Professional			
Semester III)3			
AgEd 454, Teaching Agricultural Systems Technology			
Labs (Professional Semester III)2			
AgEd 475, Supervised Teaching Internship (Professional			
Semester III)10			
AgEd 495/496, Internship/Field Experience		2	
Communication Electives (see College of ABS approved			
list)		2	
Elective** (ideas, creative processes, critical human			
encounters, see AgEd list)		2	
Approved Agricultural Electives or		7	
Approved Agricultural Electives and		4	
Agricultural Systems Technology (AST) Elective		3	
*The 30 credit Board of Regents General Education requirements (Gen	Ed) 1	must	be

The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk ().

(G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk ().

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Agricultural Extension (AgEx)

Ralph Matz Extension Program Coordinator Agricultural Hall 130 605-688-5132

Requirements for Agricultural Extension Major Bachelor of Science in Agriculture

This program will not accept new students after July 1, 1996. Students enrolled in this program prior to July 1, 1996, will follow the plan of study outlined in the 1994-96 catalog.

Agricultural Journalism Major

Richard Lee

Department of Journalism and Mass Communication Printing and Journalism 209 605-688-4171

Richard_Lee@sdstate.edu

Requirements for Agricultural Journalism Major		
Bachelor of Science in Agriculture		
Freshman Year F	•	\mathbf{S}
Bio 101-102*, Biology Survey I and Lab and		
Bio 103-104*, Biology Survey II and Lab3		3
Chem 106-107*, Chemistry Survey and Lab		4
Engl 101*, Composition I3	or	3
Math 102*, College Algebra3		
SpCm 101-101A*, Fundamentals of Speech & Lab3	or	3
Soc 100*, Introduction to Sociology or		
Soc 150*, Social Problems, (G), or		
Soc 240*, Sociology of Rural America, (G) or		
Anth 210*, Cultural Anthropology, (G)3		
Gen Ed Humanities and Fine Arts*, (G), pp. 35-37		3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Group I Courses (See College of ABS listing, p. 54)3		3

Econ 202*, Macroeconomics Principles
MCom 160-160A, Basic Photography and Studio 2 or 2 MCom 210-210A, Newswriting and Reporting and Studio 3 or 3 MCom 213-213A, Journalism Typography and Studio 2 or 2 Phys 101-102, Survey of Physics and Lab 3 or 3-4 Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) 3 3 SDSU Core: Goal 2**, Human Community, p. 39 2-3 or 2-3 Also meet ABS College Social Science requirement 3 3 Group I Courses (See College of ABS listing, p. 54) 3 3 Junior Year F S MCom 310, Newspaper Editing 2 or 2 MCom 311, Editing Lab (concurrent with 310) 1 or 1 MCom 332-332A, Radio News Reporting and Studio 3 MCom 315, Magazine Writing and Editing and/or 3
MCom 210-210A, Newswriting and Reporting and Studio
MCom 213-213A, Journalism Typography and Studio 2 Phys 101-102, Survey of Physics and Lab 3 Second in Sequence of physics, chemistry or bio 3-4 Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) 3 SDSU Core: Goal 2**, Human Community, p. 39 2-3 Also meet ABS College Social Science requirement 3 Group I Courses (See College of ABS listing, p. 54) 3 Junior Year F MCom 310, Newspaper Editing 2 MCom 311, Editing Lab (concurrent with 310) 1 MCom 332-332A, Radio News Reporting and Studio and/or 3 MCom 315, Magazine Writing and Editing and/or 3
Phys 101-102, Survey of Physics and Lab 3 Second in Sequence of physics, chemistry or bio 3-4 Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) 3 SDSU Core: Goal 2**, Human Community, p. 39 2-3 or 2-3 Also meet ABS College Social Science requirement 3 or 3 Group I Courses (See College of ABS listing, p. 54) 3 Junior Year F S MCom 310, Newspaper Editing 2 or 2 MCom 311, Editing Lab (concurrent with 310) 1 or 1 MCom 332-332A, Radio News Reporting and Studio and/or 3 MCom 315, Magazine Writing and Editing and/or
Second in Sequence of physics, chemistry or bio
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)
SDSU Core: Goal 2**, Human Community, p. 39 2-3 or 2-3 Also meet ABS College Social Science requirement 3 or 3 Group I Courses (See College of ABS listing, p. 54) 3 Junior Year F S MCom 310, Newspaper Editing 2 or 2 MCom 311, Editing Lab (concurrent with 310) 1 or 1 MCom 332-332A, Radio News Reporting and Studio 3 and/or 3 MCom 315, Magazine Writing and Editing and/or 3
Also meet ABS College Social Science requirement
Group I Courses (See College of ABS listing, p. 54) 3 Junior Year F MCom 310, Newspaper Editing 2 or 2 MCom 311, Editing Lab (concurrent with 310) 1 or 1 MCom 332-332A, Radio News Reporting and Studio 3 3 MCom 315, Magazine Writing and Editing and/or 3
Junior YearFSMCom 310, Newspaper Editing2or2MCom 311, Editing Lab (concurrent with 310)1or1MCom 332-332A, Radio News Reporting and Studio33and/or33MCom 315, Magazine Writing and Editing and/or3
MCom 310, Newspaper Editing 2 or 2 MCom 311, Editing Lab (concurrent with 310) 1 or 1 MCom 332-332A, Radio News Reporting and Studio 3 MCom 315, Magazine Writing and Editing and/or 3
MCom 311, Editing Lab (concurrent with 310)
MCom 311, Editing Lab (concurrent with 310)
MCom 332-332A, Radio News Reporting and Studio and/or
and/or3 MCom 315, Magazine Writing and Editing and/or3
MCom 315, Magazine Writing and Editing and/or3
VIC.om 410. Advanced Reporting
MCom 370, Principles of Advertising3
SDSU Core: Goal 3**, Human Spirit, p. 40
SDSU Core: Goal 5**, Stewardship, p. 412-3 or 2-3
Agriculture Electives 3 3
MCom Electives
Senior Year F S
MCom 414, Mass Communication Law
MCom 495, Internship (summer)
Agriculture Electives
MCom Electives
Electives 6
*The 30 credit Roard of Pegents Coneral Education requirements (Gen Ed) must

The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk ().

(G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk ().

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Agricultural Marketing Minor

Richard Shane Department of Economics Scobey Hall 136 605-688-4141 e-mail: janet_wilson@sdstate.edu http://econnet.sdstate.edu/dept/index.asp Requirements for Agricultural Marketing Minor: 21 cr AgEc 354, Agricultural Marketing & Prices..... AgEc 454, Economics of Grain & Livestock Marketing.... Econ 201, Microeconomics Principles..... Econ 370, Marketing Three (3) of the following:.... AgEc 479, Agricultural Policy (3) AS 285, Livestock Evaluation and Marketing (3) BAdm 474, Principles of Selling (3) Econ 476, Marketing Research (3)

Econ 440, Economics of the International Sector (3)

Agricultural Systems Technology
(AST) Major and Minor

(1101) Major and Minor	
Van Kelley, Acting Department of Agricultural Engineering Agricultural Engineering 107 605-688-5141	
e-mail: abe.dept@abs.sdstate.edu http://www.abs.sdstate.edu/ae	,
Requirements for Agricultural Systems Technology Major Bachelor of Science in Agriculture	
Freshman Year AST 202-202A, Construction Techniques and Materials	S
and Lab	3
Engl 101*, Composition I	
MET 231, Manufacturing Processes	3
Soc 240*, Sociology of Rural America, (G) or Anth 210*, Cultural Anthropology, (G)	3
SpCm 101-101A*, Fundamentals of Speech and Lab Group I Elective*** Governmentals of Speech and Lab	3
Gen Ed Humanities and Fine Arts*, pp. 35-37SDSU Core: Goal 1**, Wellness, p. 39	3 2
Sophomore Year Acct 210, Principles of Accounting I AST 213-213A, Agricultural, Industrial, & Outdoor Power and Lab or	S 3
AST 313-313A, Farm Machinery Systems Management and Lab	3
GE 120, Engineering Drawing/CAD	4 3
Junior Year F AST 333-333A, Soil & Water Mechanics and Lab3	S
AST 342-342A, Applied Electricity and Lab	3
BAdm 350, Legal Environment of Business & Contracts. Group I Elective***	3
Option Courses	6
Technical Elective+++	2
Senior Year F ABE 353-353A, Physical Climatology & Meteorology and Lab	S
AST 303, Design Management Experience or AST 494-495-496, Cooperative Education/Internship/	
Field Experience	3

AST 423-423A, Rural Structures and Lab	
SDSU Core: Goal 2**, Human Community, p. 39	2
SDSU Core: Goal 3**, Human Spirit, p. 40	2
SDSU Core: Goal 5**, Stewardship, p. 41	6
Option Courses2	3
The 30 credit Board of Regents General Education requirements (Gen E completed as part of a students first 64 credits. See pages 35-37 for details. of are part of these credits are indicated by an asterisk ().	Courses that
(G) The BOR General Education requirements include an International/Globs requirement of 6 credits. Courses may count toward both the Internati Diversity requirement and the social science and/or humanities and fine arts re See pages 35-37 for details.	onal/Global
South Dakota State University has a 10 credit SDSU Institutional Graduation F (SDSU Core). See pages 39-41 for details. These requirements are indicated asterisk ().	dequirement by a double
Students must take the proficiency examination after completing 48 credits. Engli a course in each of the General Education areas of social science, mathema science, and humanities and fine arts must be taken prior to taking this exam.	sh 101, and tics, natural
*** Students majoring in Agricultural Systems Technology may not use Agricultur Technology courses to satisfy the Group I requirements. Group I requirements Plant Science 213 plus 9 additional credits from Group I. +See College of Agriculture and Biological Sciences Core Curriculum Require	nts include
grade required in Engl 301. ++Courses must be selected from the following areas: Botany, Biology, E. Zoology, Plant Science, Microbiology. +++Technical electives must be selected from the approved list provided.	
The AST major requires a minimum of 14 semester credits from o following options: Business, Processing, Production, or Environmental The option and technical elective program must be planned with the acapproved by the department head.	Systems
Business Option	-
AgEc 271-271A, Farm & Ranch Management and Lab	4
AST 303, Design Management Experience	4 3
BAdm 360, Organization and Management	3
Econ 201, Microeconomics Principles	3
Econ 330, Money and Banking	.3
Stat 281, Statistical Methods I, or equivalent	3
Business Elective	3
Processing Option	
AS 241, Meat: Production to Consumption	3
AS 341, Fresh Meat Operations	3
DS 321-321A, Dairy Product Processing I and Lab	5
DS 421, Dairy Plant Management	3.
Micr 231-232, General Microbiology and Lab	4
Micr 311-311A, Food Microbiology and Lab	4
NFSH 341-341A, Food Science and Lab	4
PS 312, Grain & Seed Production & Processing	
Processing Elective	2 3
Production Option	J
Ag Production Electives	
Animal Science Electives	3
Horticulture Electives	9
Plant Science Electives	-
- Anna Deletico Elicottyco	6
Environmental Systems Option	-
Environmental Systems Option Bio 311, Principles of Ecology	6

Chem 380, Environmental Chemistry.... Micr 231, General Microbiology..... PS 243-244, Geology and Lab.... PS 475, Water Quality in Agriculture

WL 110, Environmental Conservation..... Environmental Systems Technology Elective..... 3

Technical Electives		Sophomore Year F		\mathbf{S}
ABE 372-372A, Microcomputer Applications in Agricultural		Chem 120-121, Elementary Organic Chemistry and Lab		4
Engineering and Lab	2	Econ 201*, Microeconomics Principles or		
AST 213, Agricultural, Industrial & Outdoor Power	3	Econ 202*, Macroeconomics Principles3		
AST 262, Environmental Safety and Society	2	Engl 201*, Composition II		
AST 313, Farm Machinery Systems Management	3	PS 213-213A, Soils and Lab		3
AST 492, Special Problems	1-3	PS 223-223A, Principles of Plant Pathology and Lab3		
AST 494 or 495 or 496, Cooperative Education/		Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3		3
Internship/Field Experience	1-3	Emphasis and Elective Courses***4		6
BAdm 380, Personal Finance	3			-
MET 131, Machining Technology	3	Junior Year F		\mathbf{S}
MET 132, Welding Technology	3	Bot 327-327A, Plant Physiology and Lab4		_
	3	Micr 231-232, General Microbiology and Lab or		
MET 251, Electricity and Electronics I	_	PS 421-421A, Soil Microbiology and Lab		3-4
MET 252, Electricity and Electronics II	3	PS 243, Geology		3
MET 260/BAdm 260, Production/Operations Management	3			5
MET 350, Fluid Power Technology	3	PS 305-305A, General Entomology and Lab or		2
Any 300 or higher level course in Animal and Range		PS 307-307A, Insect Pest Management and Lab3	or	3
Sciences, Plant Science, Agricultural Business,		PS 323, Soil Fertility and Fertilizers		3
Agricultural Economics, and Economics	3	PS 494, Cooperative Education/Internship in		
,		Plant Science		1
Requirements for Agricultural Systems Technology Minor	:: 17 cr	Soc 100**, Introduction to Sociology or		
AST 202-202A, Construction Techniques and Materials		Soc 150**, Social Problems, (G) or		
and Lab.	2	Soc 240**, Sociology of Rural America, (G) or		
AST 213-213A, Agricultural, Industrial & Outdoor		Anth 210**, Cultural Anthropology, (G)3		
Power and Lab		SDSU Core: Goal 3**, Human Spirit, p. 402	or	2
AST 333-333A, Soil & Water Mechanics and Lab	3	Emphasis and Elective Courses***0-10		0-6
		Emphasis and Electric courses		•
AST 342, Applied Electricity	3	Senior Year F		S
				3
plus 6 hours from the following:	_	Engl 379, Technical Communications	or	3
AST 262, Environmental Safety & Society	2	PS 343-343A, Weed Science and Lab		
AST 273-273A, Microcomputer Applications in		PS 475, Water Quality in Agriculture or		
Agriculture and Lab	3	PS 446, Agroecology		3
AST 313-313A, Farm Machinery Systems Management		PS 490, Undergraduate Seminar1	or	1
and Lab	3	Stat 281, Statistical Methods I3		
AST 423-423A, Rural Structures and Lab	3	SDSU Core: Goal 5**, Stewardship, p. 412	or	2
AST 443-443A, Food Process and Engineering		Emphasis and Elective Courses***4-10	7	7-13
Fundamentals and Lab	3	*The 30 credit Board of Regents General Education requirements (Gen	Ed) n	nust be
AST 463, Agricultural Waste Management	3	completed as part of a students first 64 credits. See pages 35-37 for details		
AST 492, Special Problems	1-3	are part of these credits are indicated by an asterisk (*).		
7.51 472, Special Frobenis	1-3	(G) The BOR General Education requirements include an International/Glo	hal Di	ivorcity
		requirement of 6 credits. Courses may count toward both the Intern		
A 3.6 13.6		Diversity requirement and the social science and/or humanities and fine arts		
Agronomy Major and Minor	1	See pages 35-37 for details.		
• •		**South Dakota State University has a 10 credit SDSU Institutional Graduation	n Regni	irement
Dale Gallenberg		(SDSU Core). See pages 39-41 for details. These requirements are indicate		
Department of Plant Science		asterisk (**).	•	
Agricultural Hall 219		Students must take the modisionary eveningtion often completing 40 and disc. The	aliah 1	01
605-688-4600		Students must take the proficiency examination after completing 48 credits. Er a course in each of the General Education areas of social science, mather		
Dale_Gallenberg@sdstate.edu		science, and humanities and fine arts must be taken prior to taking this exa		
No.		***See selected emphasis.		
Requirements for Agronomy Major		See selected emphasis.		
Bachelor of Science in Agriculture		Duginoga Emphagia		
Freshman Year F	S	Business Emphasis		
Bio 151-152*, General Biology I and Lab4		ABS 475-475A, Integrated Natural Resource Management		_
Bio 153-154,* General Biology II and Lab or		and Lab		3
Bot 201-202*, General Botany and Lab	3-4	Acct 210, Principles of Accounting I		3
Engl 101*, Composition I	٠,	AgEc 354, Agricultural Marketing and Prices or		
Math 102*, College Algebra or		AS 285-285A, Livestock Evaluation and Marketing		
		and Lab	3 (or 4
Math 113*, College Algebra and Trigonometry or	2.5	BAdm 360, Organization and Management		3
Math 120*, Trigonometry3-5	or 3-5	Chem 106-107 Chemistry Survey and Lab or		
PS 101, Opportunities in Plant Science		Chem 112-113, General Chemistry I and Lab		4
PS 103-103A**, Crop Production and Lab		Math 102, College Algebra or		
SpCm 101-101A*, Fundamentals of Speech and Lab	3	Math 113, College Algebra & Trigonometry or		
Gen Ed Social Science*, pp. 35-37, (G)	3	Math 120, Trigonometry	3.	or 5
SDSU Core: Goal 1**, Wellness, p. 392	or 2	Phys 101-102, Survey of Physics and Lab or	5 (JI J
Emphasis and Elective Courses***0-5	0-6			4
=		Phys 111-112, Introduction to Physics I and Lab		4

PS 383-383 A Princi	nles of Cron Improvement	1 T -1		W
Bio 371. Genetics	ples of Crop Improvement	and Lab or	2	Plant Science Electives (at least one course from
Business Electives (s	ee list below)	•••••	3 6	each of 3 areas listed+)
Plant Science Electiv	es (at least one course from	m	U	Unrestricted Electives
each of 3 areas or	ı list+)	•••	10	Science Emphasis
Unrestricted Elective	s		1-5	Pio 271 Constitut
	sis for list of approved courses in c			Chem 112-113, General Chemistry I and Lab and
areas.	as for list of approved courses in c	rops, plant protection,	and soils	Cham 114 115 Carra 1 Cl
TD ' 1731 (4				Chem 232-233, Analytical Chemistry I and Lab
Business Electives				Cham 261 261 A Disabassista 1 T 1
Acct 211, Principles of	of Accounting II	3		Math 123, Calculus I or
Acct 320, Cost Accou	nting	3		Moth 222 Colombra for N. A. d. 25
AgEc 2/1, Farm & Ra	anch Management	4		Phys 111-112, Introduction to Physics I and Lab and
Agricultur	al Law	3		Phys 113-114, Introduction to Physics II and Lab
+AgFc/PS 373-373 A	ral Marketing and Prices Rural Real Estate Appraisa	.1 % T -1 2		Area of Specialization (Crop Science, Entomology, Plant
AgEc 421 Production	Economics	u & Lab3		Pathology, Soil Science, or Weed Science)++
AgEc 454, Economics	of Grain and Livestock M	arketing 2		Unrestricted Electives
AgEc 478-478A, Agri	cultural Finance & Lab	3		++Courses are to have PS prefix or ABS 475 and are not to include courses used to fulfill
AgEc 479, Agricultura	al Policy	3		Biological Science core of the major. Maximum of 3 credits from PS 492.
+AS 285, Livestock E	valuation & Marketing			Dogwinson and Com A. 250
BAdm 310, Business 1	Finance	3		Requirements for Agronomy Minor: 16 cr
BAdm 350, Legal Env	rironment of Business & Co	ontracts 3		PS 103-103A, Crop Production and Lab
BAdm 351, Business I	Law I	3		PS 213-213A, Soils and Lab
BAdm 380, Personal F	Finance	3		PS 223-223A Principles of Plant Pathology and Lab
BAdm 474, Principles	of Selling	3		PS 490, Undergraduate Seminar
+Econ 201, Microecon	nomics Principles	3		Plant Science Electives (must have PS prefix)6
+Econ 202, Macroecon	nomics Principles	3	-	Soil Science Certification: 21 cr
Econ 330, Money and	Banking	3		The following courses are atranely recommended to the following
Econ 476, Marketing I	Research	3		The following courses are strongly recommended for students seeking
	tives cannot be used to meet other			certification or licensure as a professional soil scientist:
emphasis requirements.		rigionomy major or		PS 213-213A, Soils and Lab
Production Emphasis	0			PS 323, Soil Fertility and Fertilizers
	rated Natural Resource Ma		2	PS 362-362A Environmental Soil Management and Lab
AgEc 354 Agriculture	al Marketing and Prices or	inagement & Lab	3	PS 412 Environmental Soil Chemistry
AS 285-285 A Live	estock Evaluation and Mar	ulsation = 0 T -1	,	PS 421-421A Soil Microbiology and Lab 3
Chem 106-107 Chemi	stry Survey and Lab or	rketing & Lab	4	PS 475 Water Quality in Agriculture
Chem 112-113 Ge	neral Chemistry I and Lab		4	10 170 White Quanty in right culture
Phys 101-102 Survey	of Physics and Lab or		4	
Phys 111-112 Intro	oduction to Physics I and I	ah	4	American Indian Studies Minor
PS 383-383A Principl	les of Crop Improvement a	ad I ah am	4	American mulan Studies lylinor
Bio 371. Genetics		iid Lab or	2	Donna Hess
			3	Department of Rural Sociology
	+ Plant Science Electives	3		Scobey Hall 216
Crops Courses	Plant Protection Courses	Soils/Environmental	I	605-688-4892
PS 303-303A, Seed	+PS 305-305A, General	Protection Courses		•
Technology and Lab PS 308-308A, Grain	Entomology and Lab	PS 244, Geology Lab		Requirements for American Indian Studies Minor: 20 cr
Grading and Lab	+PS 307-307A, Insect Pest Management and Lab	PS 310-310A, Soil Geography &		Required courses for the minor
PS 312, Grain & Seed	PS 333-333A, Diseases of	Land Use Interpreta	ation	Anth 421*, Indians of North America or
Production & Processing	Field Crops and Lab	and Studio		Hist 368*, History of the American Indians
PS 313-313A, Forage Crops & Pasture	PS 334-334A Diseases of Horticultural Crops and	PS 362-362A, Environmental Soil		Engl 351*, American Indian Literature of the Past
Management and Lab	Lab	Management and L		Lak 101*, Introductory Lakota I4
+PS 383-383A, Principles	PS 415-415A, Mycology	PS 373-373A, Rural I		10 14 1 2 2
of Crop Improvement & Lab	and Lab	Estate Appraisal and		10 credits chosen from the following elective courses
PS 440-440A, Crop	PS 420-420A, Biological Control of Arthropods	+PS 475, Water Quali Agriculture	ty in	AIS 100, Introduction to American Indian Studies
Management with	and Lab	PS 412, Environmenta	al Soil	Anth 310, Cultural Anthropology
Precision Farming & Lab PS 453, Advanced Genetics	PS 431-431A, Applied	Chemistry		Anth 410*, North American Ethnology
PS 462, Molecular	Insect Ecology and Lab PS 450-450A Field Studies	PS 421-421A, Soil Microbiology and L	ah	Anth 421*, Indians of North America
Biology I		+PS 446, Agroecology		Engl 256, Literature of the American West
PS 464-465, Molecular		PS 483, Irrigation-Cro		Engl 352*, American Indian Literature of the Present
Biology II and Lab		Soil Practices		Geog 219, Geography of South Dakota
+ Courses in Plant Science	electives cannot be used to meet o	ther Agronomy major	or	Geog 467*, Geography of the American Indians
emphasis requirements.	I assu to most o	r *Pronomy major	O1	Hist 362, History of the American West
				Hist 368*, History of the American Indians
				Lak 102*, Introductory Lakota II
	4			Lak 201*, Intermediate Lakota I
				•

Lak 202*, Intermediate Lakota II	Senior Year
Phil 100, Introduction to Philosophy4	AS 433-433A,
PolS 310*, Tribal Government and Politics	AS 490, Anim
Rel 238*, Native American Religions3	AS Production
Soc 350, Ethnic and Racial Groups3	SDSU Core: C
	Emphasis and
*Courses crosslisted as AIS. Other courses will be added as they are approved by the American Indian Studies Committee.	*The 30 credit B completed as p are part of these
Animal Science (AS)	(G) The BOR Ger requirement of Diversity requir See pages 35-3
Major and Minor	**********

Major and Minor

Department of Animal and Range Sciences Animal Science Complex 103A 605-688-5166

Requirements for Animal Science Major		
Bachelor of Science in Agriculture		
Freshman Year F		S
AS 100, Opportunities in Animal Science		
AS 101-101A, Introduction to Animal Science and Lab 3		
Bio 101-102*, Biology Survey I and Lab and		
Bio 103-104*, Biology Survey II and Lab3		3
or		_
Bio 151-152*, General Biology I and Lab and		
Bio 153-154*, General Biology II and Lab4		4
Engl 101*, Composition I3	or	3
Math 102*, College Algebra or	OI	5
		3-5
Math 113*, College Algebra and Trigonometry3-5	or	3-3
Soc 100*, Introduction to Sociology or		
Soc 150*, Social Problems, (G) or		
Soc 240*, Sociology of Rural America, (G) or		
Anth 210*, Cultural Anthropology, (G)3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Humanities and Fine Arts*, (G), pp. 35-373	or	3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Emphasis and elective courses3-4		3-4
	,	
Sophomore Year F		S
AS 233-233A, Applied Animal Nutrition and Lab4	or	4
AS 241, Meat: Production to Consumption	or	3
Bio 371, Genetics	or	3
Chem 120-121**, Elementary Organic Chemistry		
and Lab4	or	4
Econ 202*, Macroeconomics Principles	or	3
Engl 201*, Composition II	01	3
Emphasis and elective courses0-7		0-7
Gen Ed Humanities and Fine Arts*, (G), pp. 35-373	or	3
SDSU Core: Goal 2**, Human Community, p. 392		2
SDSO Cole. Goal 2.1, Human Community, p. 392	or	2
Junior Year F		S
AS 323, Advanced Animal Nutrition	01	-
	OI	
AS 332-332A, Principles of Animal Breeding and Lab 4	. ــ	. 1
AS 390, Animal Science Junior Seminar	01	
SDSU Core: Goal 3**, Human Spirit, p. 40	or	2
Communications Elective***	or	2-3
Emphasis and elective courses		3-12

Senior Year F AS 433-433A, Livestock Reproduction and Lab 3		\mathbf{S}
AS 490, Animal Science Senior Seminar Current Issues .1	or	1
AS Production Courses	or	3-6
SDSU Core: Goal 5**, Stewardship, p. 412	or	2
Emphasis and elective courses	, .	6-12

Board of Regents General Education requirements (Gen Ed) must be part of a students first 64 credits. See pages 35-37 for details. Courses that ese credits are indicated by an asterisk (*).

- eneral Education requirements include an International/Global Diversity of 6 credits. Courses may count toward both the International/Global aircrement and the social science and/or humanities and fine arts requirements. 37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

***Choose one from Engl 379, MCom 313.

	•
Business and Production Emphasis	•
AS 285, Livestock Evaluation and Marketing	4
Chem 106-107, Chemistry Survey and Lab	4
Phys 101-102, Survey of Physics and Lab or	
Phys 111-112, Introduction to Physics I and Lab or	
Phys 211-212, University Physics I and Lab	4
Vet 223-223A, Anatomy and Physiology of Livestock	
and Lab	4
Animal Science Production Courses. Select two from:	
AS 365, 474, 477, or 478	6
Acct 210, Principles of Accounting I	3
Econ 201, Microeconomics Principles	3
Group I Electives	6
Business Electives	12
Select from the following:	
Acct 211, Principles of Accounting II	3
AgEc 271-271A, Farm and Ranch Management	
and Lab	4
AgEc 352, Agricultural Law	3
AgEc 354, Agricultural Marketing and Prices	. 3
AgEc 421**, Production Economics	3
AgEc 454, Economics of Grain and Livestock	
Marketing	3
AgEc 478-478A, Ag Finance and Lab	3
AgEc 479**, Agricultural Policy	3
BAdm 310, Business Finance	3
BAdm 334, Small Business Management	3
BAdm 350, Legal Environment of Business and	
Contracts	3
BAdm 351, Business Law I	3
BAdm 360, Organization and Management	3.
BAdm 380, Personal Finance	3
Econ 330, Money and Banking	. 3
Econ 370, Marketing	3
Stat 281, Statistical Methods I	3
General Electives	7-12
Science Emphasis	
Chem 112-113-114-115, General Chemistry I-II and Labs	8
Chem 361-361A, Biochemistry and Lab	4
Math 222, Calculus for Non-Math Majors	5
Micr 231-232, General Microbiology and Lab	4

74					
Phys 111-112-113-114, Introduction to Physics I-II			AM 331, Apparel Manufacturing		3
and Labs or			AM 342-342A, Textiles I and Lab		
Phys 211-212-213-214, University Physics I-II			CSc 105, Introduction to Computers3	or	3
and Labs		8	Econ 202**, Macroeconomic Principles, pp. 39-413	or	3
Zool 221-222, Anatomy and Lab and Zool 325-325A,			Engl 201*, Composition II	or	3
Mammalian Physiology and Lab			Hist 121*, History of Western Civilization to 1650 or	OI	3
or			Hist 122*, History of Western Civilization		
Vet 223-223A, Anatomy and Physiology of Livestock			since 1650, (G)	~	2
and Labs		4-7	SDSU Core: Goal 1**, Wellness, p. 39	~ or	•
AS Production Courses. Select two from:			Elective	or	2
AS 365-365A, 474-474A, 477-477A, 478-478A		6	Bleedaye	or	3
Group I Electives		6	Junior Year		_
General Electives	5	5-13	-		S
	5	, 13	AM 315-315A, Apparel Design and Lab.		3
Requirements for Animal Science Minor: 19 cr			AM 352, History of Dress in Western World		3
AS 101-101A, Introduction to Animal Science and Lab		2	AM 372, International Trade in Textiles and Apparel		3
AS 233-233A, Applied Animal Nutrition and Lab		3 4	HDCF 241, Family Relations	or	3
AS 285-285A, Livestock Evaluation and Marketing		4	Studio Elective	or	3
and Lab			BAdm Electives	or	9
one of the following courses:		4	Soc 340**, Urban Sociology, pp. 39-41		3
		_	Electives6	or	6
AS 323, Advanced Animal Nutrition		3			
AS 332-332A, Principles of Animal Breeding and Lab		4	Soc 340 is recommended to complete SDSU Goal #5. However, th	e stude	nt may
AS 433-433A, Livestock Reproduction and Lab		3	choose from any course on the Goal #5 list.		,
two of the following courses:			Senior Year F		S
(one must be 474-474A, 477-477A or 478-478A)			AM 453, Socio-Psychological Aspects of Clothing		
AS 241, Meat: Production to Consumption	•	3	AM 472, Retailing3		3
AS 365-365A, Horse Production and Lab		3	AM 473, Merchandise Planning & Control		•
AS 474-474A, Beef Cattle Production and Lab		3	AM 487, Pre-Practicum		3
AS 477-477A, Sheep and Wool Production			AM 402 Current Tonics		
AS 478-478A, Swine Production and Lab		3	AM 405 Poot Prostings		
135 176 47611, 5 wine I founderfold and Lab		3	AM 495, Post-Practicum		3
			AM 497, Practicum		
Ammoral Manala 11 (ABA	T \		BAdm/Soc Electives		3
Apparel Merchandising (AM	l)		Electives		4
Major and Minor			*The 30 credit Board of Regents General Education requirements (Get completed as part of a students first 64 credits. See pages 35-37 for detail	n Ed) n ls. Cour	nust be ses that
Department of Apparel Merchandising and Interior Desig	gn		are part of these credits are indicated by an asterisk (*).		
NFA 229			(G) The BOR General Education requirements include an International/Gl	obal Di	versity
605-688-5196			requirement of 6 credits. Courses may count toward both the Intern Diversity requirement and the social science and/or humanities and fine art	national	'Global
•			See pages 35-37 for details.	s require	ements.
Requirements for Apparel Merchandising Major			**C D. L., C., Y.		
Bachelor of Science in Family and Consumer Sciences			**South Dakota State University has a 10 credit SDSU Institutional Graduatio (SDSU Core). See pages 39-41 for details. These requirements are indicated the control of the	n Requi	rement
Freshman Year F	5	3	asterisk (**).	ed by a	double
AM 121-121A, Apparel in Popular Culture and Lab3	_				
AM 172, Introduction to Apparel Merchandising	3	2	Students must take the proficiency examination after completing 48 credits. En	nglish 10	01, and
Art 121*, Design I	3		a course in each of the General Education areas of social science, mathe science, and humanities and fine arts must be taken prior to taking this exa	matics,	natural
Engl 101* Commodition I	_			un.	
FCS 101, Professional Foundations	or 3	•	Requirements for Apparel Merchandising Minor: 16 cr		
Moth 100* College Alester	_		AM 121-121A, Apparel in Popular Culture and Lab or		
Perc 101* Concret Perch 1	or 3		AM 342-342A, Textiles I and Lab		3
Psyc 101*, General Psychology	or 3		AM 372, International Trade in Textiles/Apparel		3
Soc 100*, Introduction to Sociology	or 3		Apparel Merchandising Electives	1	
SpCm 101-101A*, Fundamentals of Speech and Lab3 Gen Ed Natural Science*, pp. 35-37, pp. 39-414	or 3		-		•
4	4	t	A 4 (A A) B /F		
If a student chooses to take two, 3 credit natural science courses, then	n he o	r she	Art (Art) Major and Minor		
will need to take an additional course from the SD Goal #4 list.			Norman Gambill		
Sophomore Year F		Ī	Department of Visual Arts		
ArtH 100**, Art & Design Appreciation, (G),	S)	Grove Hall 101		
nn 30 41	_		605-688-4103		
AM 272, Fashion Forecasting	or 3	•			
x x x x z z z z z z z z z z z z z z z z					

3

the B.A.

Art history courses can be used for the Core's humanities sequence,

but Visual Arts students are required to take at least three hours in

humanities outside the Department. Modern Languages are required for

AM 274-274A, Fashion Promotion and Visual

AM 272, Fashion Forecasting2

AM 231-231A, Ready-to-Wear Analysis and Lab......3

Merchandising and Lab

Requirements for Art Major – Art Education		
Bachelor of Arts in Arts and Science		
Freshman Year F		S
ArtH 100*, Art and Design Appreciation, (G)		3
Engl 101*, Composition I3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Natural Science*, pp. 35-374		4
Gen Ed Mathematics*, pp. 35-373	or	3
Visual Arts Studio Core6		6
Sophomore Year F		S
Art 251, Ceramics I	or	3
ArtH 211*, World Art, (G)3		
ArtH 212*, Western Traditions, (G)		3
Engl 201*, Composition II3	or	3
Modern Language4		4
Professional Semester I5	or	5
Gen Ed Social Science*, pp. 35-373		3
Visual Arts Studio Core3	or	3
Tibula I all billion of the control		
Junior Year F		S
Art 241, Sculpture I		3
ArtE 415, Methods of Teaching Art in Public Schools3	or	3
Modern Language		3
Professional Semester II	or	6
Visual Arts Core		3
Art History Elective	or	3
Art Studio Electives		3.
SDSU Core: Goal 1**, Wellness, p. 39	or	2
SDSU Core: Goal 2**, Human Community, p. 393	or	3
bbbc colo. Gold 2 , Haman community, pro-		_
Senior Year F		\mathbf{S}
EdFn 365, Integrating Computers into the Curriculum2	or	2
Hist 368 History of American Indians or		
Anth 421, Indians of North America	or	3 •
Professional Semester III	or	16
Art Elective3	or	3
SDSU Core: Goal 5**, Stewardship, p. 412-3		2-3
Electives (complete 300-400 level rule, can be Art/ArtD/	01.	
ArtH courses)	or	3
Auti courses)	O1	·

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Art Major – Art Education

Bachelor of Science in Arts and Science		
Freshman Year	?	\mathbf{S}
ArtH 100*, Art and Design Appreciation, (G)		3
Engl 101*, Composition I	3 or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	3 or	3
Gen Ed Natural Science*, pp. 35-37	1	4
Gen Ed Mathematics*, pp. 35-37	3 or	3
Visual Arts Studio Core	5.	6
SDSU Core: Goal 1**, Wellness, p. 39	2 or	2

Sophomore Year F Art 251, Ceramics I .3 ArtH 211*, World Art, (G) .3	or	S 3
ArtH 212*, Western Traditions, (G)		3
Engl 201*, Composition II	or	3
Professional Semester I5	or	5
Gen Ed Humanities and Fine Arts*, pp. 35-373	or	3
Gen Ed Social Science*, pp. 35-37		3
Visual Arts Studio Core		3
General Elective1	or	1
•		
Junior Year F		S
Art 241, Sculpture I		3
ArtE 415, Methods of Teaching Art in Public Schools3		3
Professional Semester II6	or	6
Visual Arts Core		3
Art History Elective3		
Art Studio Electives3		3
SDSU Core: Goal 2**, Human Community, p. 393		3
SDSU Core: Goal 4**, Physical Science, p. 414		4
Electives (complete the 300-400 level rule, can be Art/		
ArtD/ArtH courses)		
Senior Year F	ı	S
EdFn 365, Integrating Computers into the Curriculum2		2
	OI	2
Hist 368, History of American Indians or		3
Anth 421, Indians of North America		16
Professional Semester III		~ 0
Art Elective		3
SDSU Core: Goal 5**, Stewardship, p. 412-3	or	2-3
Electives (complete 300-400 level rule, can be Art/ArtD/ ArtH courses)		
Aiui couises)		

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Art Major – Graphic Design

Bachelor of Science in Arts and Science		
Freshman Year F		S
ArtH 100*, Art and Design Appreciation, (G)		3
Engl 101*, Composition I3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Natural Science, pp. 35-37, Biological3		3.
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Visual Arts Studio Core6		3.
•		
Sophomore Year F		$\cdot \mathbf{S}$
Sophomore reur	or	. S
ArtD 251, Graphic Design I3	or or	
	or	3
ArtD 251, Graphic Design I 3 ArtD 255, Computer Graphics I 3 ArtH 211*, World Art, (G) 3	or	3
ArtD 251, Graphic Design I 3 ArtD 255, Computer Graphics I 3 ArtH 211*, World Art, (G) 3 ArtH 212*, Western Traditions, (G) 3	or	3
ArtD 251, Graphic Design I 3 ArtD 255, Computer Graphics I 3 ArtH 211*, World Art, (G) 3 ArtH 212*, Western Traditions, (G) 5 Engl 201*, Composition II 3	or	3 3
ArtD 251, Graphic Design I 3 ArtD 255, Computer Graphics I 3 ArtH 211*, World Art, (G) 3 ArtH 212*, Western Traditions, (G) 3	or	3 3 3

Visual Arts Studio Core	or	3
Electives	or	2
Junior Year F		S
ArtD 350, Graphic Design II3		
ArtD 351, Graphic Design III		3
ArtD 352, Design Media I		3
ArtD 355, Computer Graphics II3		
SDSU Core: Goal 2**, Human Community, p. 39		3
SDSU Core: Goal 4**, Physical Science, p. 414		4
Art History Elective3		
Visual Arts Core (finish it)3	or	3
Electives (complete 300-400 level rule, can be Art/ArtD/		
ArtH courses)		
Senior Year F		S
ArtD 450, Graphic Design IV3		J
ArtD 452, Design Media II		
SDSU Core: Goal 5**, Stewardship, p. 412-3	or 2	2
Art Electives	01 2	د-ع 4
Electives (complete 300-400 level rule, can be Art/ArtD/		4
ArtH courses)		
Auti couiscs)		

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Art Major – Graphic Design Bachelor of Arts in Arts and Science

Dachelor of Arts in Arts and Science		
Freshman Year F	,	S
ArtH 100*, Art and Design Appreciation, (G)		3
Engl 101*, Composition I3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Natural Science, pp. 35-37, Biological4		4
Visual Arts Studio Core		6
Sophomore Year F		S
ArtD 251, Graphic Design I3	or	3
ArtD 255, Computer Graphics I	or	3
ArtH 211*, World Art, (G)3		
ArtH 212*, Western Traditions, (G)		3
Engl 201*, Composition II3	or	3
MCom 160-160A, Basic Photography and Studio2	or	2
Modern Language4		4
Gen Ed Social Science*, pp. 35-37		3
SDSU Core: Goal 1**, Wellness, p. 39	or	2
Junior Year F		S
ArtD 350, Graphic Design II3		
ArtD 351, Graphic Design III		3
ArtD 352, Design Media I		3
ArtD 355, Computer Graphics II3		
Modern Language3		3
SDSU Core: Goal 2**, Human Community, p. 39		3
Art History Elective3		
Visual Arts Core (finish it)6	or	6

Electives (complete 300-400 level rule, can be Art/ArtD/ArtH courses)

S
or 2-3
4

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Art Major – Painting/Printmaking Bachelor of Arts in Arts and Science

Bachelor of Arts in Arts and Science		
Freshman Year	7	S
ArtH 100*, Art and Design Appreciation, (G)		3
Engl 101*, Composition I		3
SpCm 101-101A*, Fundamentals of Speech and Lab3	3 or	3
Gen Ed Mathematics*, pp. 35-37	3 or	3
Gen Ed Natural Science*, pp. 35-37	1	4
Visual Arts Studio Core	í	6
Sophomore Year	יז	S
Art 231, Painting I	3 or	3
Art 281, Printmaking I	3 or	3
ArtH 211*, World Art, (G)	}	
ArtH 212*, Western Traditions, (G)		3
Engl 201*, Composition II	or or	3
Modern Language4	ļ	4
Gen Ed Social Science*, pp. 35-37		3
SDSU Core: Goal 1**, Wellness, p. 392	e or	2
Visual Arts Studio Core	;	
Junior Year	•	S
Art 331, Painting II3	or	3
Art 381; Printmaking II	or	3
Art 332, Painting III or		
Art 382, Printmaking III3	or	3
Modern Language3		3
SDSU Core: Goal 2**, Human Community, p. 393		3
Visual Arts Studio Core (finish it)3	,	
Art History Elective3	į	
Art Studio Electives3	i	3
Electives (complete 300-400 level rule, can be Art/ArtD/		
ArtH courses)		
Senior Year F	ı	S
Art 431, Painting IV or		
Art 481, Printmaking IV3	or	3
SDSU Core: Goal 5**, Stewardship, p. 412-3	or	2-3
Art Electives		3
Electives (complete 300-400 level rule, can be Art/ArtD/Ar	tH cou	rses)

- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Science, and numerico and this are made of many	•	
Requirements for Art Major - Painting/Printmaking		
Bachelor of Science in Arts and Science		
Freshman Year F		S
ArtH 100*, Art and Design Appreciation, (G)		3
Engl 101*, Composition I	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Natural Science*, pp. 35-37, Biological3		3
SDSU Core: Goal 1**, Wellness, p. 39	or	2
Visual Árts Studio Core6		6
•		
Sophomore Year F		S
Art 231, Painting I	or	3
Art 281, Printmaking I3	or	3
ArtH 211*, World Art, (G)3		
ArtH 212*, Western Traditions, (G)		3
		_

Engl 201*, Composition II3	or	3
Gen Ed Social Science*, pp. 35-373		3
Gen Ed Humanities and Fine Arts*, pp. 35-373		3
Visual Arts Studio Core3		3
General Elective2	or	2
Junior Year F		S
Art 331, Painting II	or	3
Art 381, Printmaking II3	or	3
Art 332, Painting III or		
Art 382, Printmaking III3	or	3
SDSU Core: Goal 2**, Human Community, p. 39		3
SDSU Core: Goal 4**, Physical Science, p. 414		4
Art History Elective3		

Semon rear	S
Art 431, Painting IV or	
Art 481, Printmaking IV3	or 3
SDSU Core: Goal 5**, Stewardship, p. 412-3	or 2-3
Art Electives3	3
Electives (complete 300-400 level rule, can be Art/ArtD/Art	tH courses)

Electives (complete 300-400 level rule, can be Art/ArtD/ArtH courses)

Art Electives3

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

1-12-15-15

Requirements for Art Major – Ceramics/Sculpture Bachelor of Arts in Arts and Science			
	\mathbf{F}		S
Art 241, Sculpture I			3
ArtH 100*, Art and Design Appreciation, (G)			3
Engl 101*, Composition I		or	3
SpCm 101-101A*, Fundamentals of Speech and Lab	.3	or	3
Gen Ed Mathematics*, pp. 35-37	.3	or	3
Gen Ed Natural Science*, pp. 35-37	.4		4
Visual Arts Studio Core	.6		3
Sophomore Year	F		S
Art 251, Ceramics I	.3	or	3
Art 341, Sculpture II			3
ArtH 211*, World Art, (G)	.3		
ArtH 212*, Western Traditions, (G)			3
Engl 201*, Composition II		or	3
Modern Language			4
Gen Ed Social Science*, pp. 35-37			3
SDSU Core: Goal 1**, Wellness, p. 39		or	2 .
Visual Arts Studio Core			
T	F		S
Junior Year Art 351, Ceramics II	2		В
	.5		
Art 352, Ceramics III or			3
Art 342, Sculpture III			3
Modern Language			3
SDSU Core: Goal 2**, Human Community, p. 39	3	or	3
Visual Arts Studio Core (finish it)	3		_
Art History Elective			3
Art Studio Electives			-
Electives (complete 300-400 level rule, can be Art/ArtD/.	ArtH	cour	ses)
Senior Year	\mathbf{F}		S
Art 451, Ceramics IV or			
A : 441 C : 1:4 TV			2

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Art Major – Ceramics/Sculpture Bachelor of Science in Arts and Science

Buchelot of Science milates make Science			
Freshman Year	F		S
Art 241, Sculpture I			3
ArtH 100*, Art and Design Appreciation, (G)			3
Engl 101*, Composition I	3	or .	3
SpCm 101-101A*, Fundamentals of Speech and Lab	3	or	3
Gen Ed Mathematics*, pp. 35-37	3	or	3
Gen Ed Natural Science*, pp. 35-37, Biological	3		3
SDSU Core: Goal 1**, Wellness, p. 39	2	or	2
Visual Arts Studio Core	6		3
Sophomore Year	F		S
Art 251, Ceramics I	3	or	3

Art 341, Sculpture II		3
ArtH 211*, World Art, (G) ArtH 212*, Western Traditions, (G)	3	2
Engl 201*, Composition II	3 of	3
Gen Ed Social Science*, pp. 35-37	3	3
Gen Ed Humanities and Fine Arts*, pp. 35-37	3 or	
Visual Arts Studio Core General Elective	3 2 or	3 2
Junior Year	7	S
Art 351, Ceramics II	3	Б
Art 342, Sculpture III	or or	3
SDSU Core: Goal 4**, Physical Science, p. 41	or L	3 4
Visual Arts Studio Core (finish it)	or	3
Art History Elective	1	
Art Electives	tH cor	3 irses)
Conion Vasa		
Art 451, Ceramics IV or	1	S
Art 441, Sculpture IV		3
SDSU Core: Goal 5**, Stewardship, p. 41	or	2-3
Art Electives		3
*The 30 credit Board of Regents General Education requirements (Ge	iH cou	rses)
are part of these credits are indicated by an asterisk (*).	ls. Cour	ses that
(G) The BOR General Education requirements include an International/Gl requirement of 6 credits. Courses may count toward both the Inter- Diversity requirement and the social science and/or humanities and fine art See pages 35-37 for details.	notional	Clabal
South Dakota State University has a 10 credit SDSU Institutional Graduatic (SDSU Core). See pages 39-41 for details. These requirements are indicat asterisk ().	n Requi	rement double
Students must take the proficiency examination after completing 48 credits. E. a course in each of the General Education areas of social science, mathe science, and humanities and fine arts must be taken prior to taking this example.	motion	01, and natural
Requirements for Art Major – General Art		
Bachelor of Science in Arts and Science Freshman Year		•
ArtH 100*, Art and Design Appreciation, (G)		S
Engl 101*, Composition I	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-37	or	3
SDSU Core: Goal 1**, Wellness, p. 392	or	3 2
Visual Arts Core6	01	6
Sophomore Year F		S
ArtH 211*, World Art, (G)		
ArtH 212*, Western Traditions, (G)		3
Engl 201*, Composition II	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-373	or	3
Art Elective3	0.	3
Visual Arts Studio Core	or	3 2
Junior Year F		S
SDSU Core: Goal 2**, Human Community, p. 39		3
SDSU Core: Goal 4**, Physical Science, p. 41		4
Art Studio Electives3	or	3
ArtD/Art-Area of Emphasis +3		3
General Electives (complete 300-400 level rule)10-11	or10	-11

Art 341, Sculpture II

Senior Year F	S
SDSU Core: Goal 5**, Stewardship, p. 412-3	Or 2 2
Art Elective	01 2-3
ArtD/Art-Area of Emphasis +	or 3
Electives (complete 300-400 level rule, can be Art/ArtD/	01 3
ArtH courses)6-7	6-7

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- + You need to take three courses in one of the five studio concentrations: Painting, printing, ceramics, sculpture or graphic design. Two courses should be taken during the Junior Year and one course taken during the Senior Year.

Requirements for Art Major – General Art Bachelor of Arts in Arts and Science

bachelor of Arts in Arts and Science		
Freshman Year F		S
ArtH 100*, Art and Design Appreciation, (G)		3
Engl 101*, Composition I	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Natural Science*, pp. 35-374	OI	4
Visual Arts Studio Core		
		6
Sophomore Year F		S
ArtH 211*, World Art, (G)		Б
ArtH 212*, Western Traditions, (G)		3
Engl 201*, Composition II	or	3
Modern Language	OI	4
Gen Ed Social Science*, pp. 35-37		•
Art Elective		3
Visual Arts Studio Core	or	3
3		3
Junior Year F		S
Modern Language		3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
SDSU Core: Goal 2**, Human Community, p. 39	OI	3
Art History Elective3	or	3
Art Studio Elective	or	3
ArtD/Art-Area of Emphasis +	OI	3
Electives		3
Senior Year F		S
SDSU Core: Goal 5**, Stewardship, p. 412-3	or 2	~
Art Elective	Or 2	_
Λ+D/Λ+ Λ		3

Electives (complete 300-400 level rule, can be Art/ArtDArtH courses)

The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk ().

ArtD/Art-Area of Emphasis +3

- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- + You need to take three courses in one of the five studio concentrations: Painting, printing, ceramics, sculpture or graphic design. Two courses should be taken during the Junior Year and one course taken during the Senior Year.

Requirements for Art Minor: 24 cr

To include 6 credits in art history.

Athletic Training (AT) Major

Jim Booher

Department of Health, Physical Education and Recreation **Physical Education Center 265**

605-688-5824

e-mail: James_Booher@sdstate.edu

Freshman Year F S AT 164, Introduction to Athletic Training 2 or 2 Bio-101-102*, Biology Survey I and Lab and 3 3 Bio 103-104*, Biology Survey II and Lab 3 3 Engl 101*, Composition I 3 or 3 Hith 120, Community Health or 4 4 Hith 212, Contemporary Health Problems 2 or 2 Math 102*, College Algebra 3 or 3 Psyc 101*, General Psychology 3 or 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 or 3 Gen Ed Social Science*, pp. 35-37 3 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Sophomore Year F S Chemistry and/or Physics 4 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 2-3
Bio-101-102*, Biology Survey II and Lab 3 Bio 103-104*, Biology Survey II and Lab 3 Engl 101*, Composition I 3 Hlth 120, Community Health or 3 Hlth 212, Contemporary Health Problems 2 or Ath 102*, College Algebra 3 or A Psyc 101*, General Psychology 3 or 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 or 3 Gen Ed Social Science*, pp. 35-37 3 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Sophomore Year F S Chemistry and/or Physics 4 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3
Bio-101-102*, Biology Survey II and Lab 3 Bio 103-104*, Biology Survey II and Lab 3 Engl 101*, Composition I 3 Hlth 120, Community Health or 3 Hlth 212, Contemporary Health Problems 2 or Ath 102*, College Algebra 3 or A Psyc 101*, General Psychology 3 or 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 or 3 Gen Ed Social Science*, pp. 35-37 3 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Sophomore Year F S Chemistry and/or Physics 4 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3
Bio 103-104*, Biology Survey II and Lab 3 Engl 101*, Composition I 3 HIth 120, Community Health or 7 HIth 212, Contemporary Health Problems 2 or Math 102*, College Algebra 3 or 3 Psyc 101*, General Psychology 3 or 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 or 3 Gen Ed Social Science*, pp. 35-37 3 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Sophomore Year F S Chemistry and/or Physics 4 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 5**, Stewardship, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 </td
Engl 101*, Composition I 3 or 3 Hith 120, Community Health or 2 or 2 Math 102*, College Algebra 3 or 3 Psyc 101*, General Psychology 3 or 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 or 3 Gen Ed Social Science*, pp. 35-37 3 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Sophomore Year F S Chemistry and/or Physics 4 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 5**, Stewardship, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 Junior Year F S AT 361, Athletic Training Techniques II 3 AT 364, Athletic Training Techniques IV 3
Hith 120, Community Health or Hith 212, Contemporary Health Problems 2 or 2 Math 102*, College Algebra 3 or 3 Psyc 101*, General Psychology 3 or 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 or 3 Gen Ed Social Science*, pp. 35-37 3 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Sophomore Year F S Chemistry and/or Physics 4 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 5**, Stewardship, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 AT 361, Athletic Training Techniques II 3 A
Hlth 212, Contemporary Health Problems 2 or 2 Math 102*, College Algebra 3 or 3 Psyc 101*, General Psychology 3 or 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 or 3 Gen Ed Social Science*, pp. 35-37 3 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Sophomore Year F S Chemistry and/or Physics 4 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 5**, Stewardship, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 AT 361, Athletic Training Techniques II 3 AT 364, Athletic Training Techniques IV 3 <tri< td=""></tri<>
Math 102*, College Algebra 3 or 3 Psyc 101*, General Psychology 3 or 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 or 3 Gen Ed Social Science*, pp. 35-37 3 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Sophomore Year F S Chemistry and/or Physics 4 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 3**, Human Spirit, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 3 3 AT 361, Athletic Training Techniques I 3 3 AT 362, Athletic Training Techniques II 3 3 AT 364, Athletic Training Techniques IV 3
Psyc 101*, General Psychology 3 or 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 or 3 Gen Ed Social Science*, pp. 35-37 3 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Sophomore Year F S Chemistry and/or Physics 4 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 3**, Human Spirit, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 Junior Year F S AT 361, Athletic Training Techniques I 3 AT 362, Athletic Training Techniques II 3 AT 364, Athletic Training Techniques IV 3
SpCm 101-101A*, Fundamentals of Speech and Lab .3 or 3 Gen Ed Social Science*, pp. 35-37 .3 3 SDSU Core: Goal 1**, Wellness, p. 39 .2 or 2 Sophomore Year F S Chemistry and/or Physics .4 .4 Engl 201*, Composition II .3 or 3 NFSH 221**, Survey of Nutrition .3 or 3 Zool 221, Anatomy .3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 .3 3 SDSU Core: Goal 2**, Human Community, p. 39 .3 or 3 SDSU Core: Goal 5**, Stewardship, p. 40 .2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 .2-3 or 2-3 Junior Year F S AT 361, Athletic Training Techniques I .3 AT 362, Athletic Training Techniques II .3 AT 364, Athletic Training Techniques IV .3
Gen Ed Social Science*, pp. 35-37 3 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Sophomore Year F S Chemistry and/or Physics 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 3**, Human Spirit, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 Junior Year F S AT 361, Athletic Training Techniques I 3 AT 362, Athletic Training Techniques II 3 AT 364, Athletic Training Techniques IV 3
SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Sophomore Year F S Chemistry and/or Physics 4 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 3**, Human Spirit, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 Junior Year F S AT 361, Athletic Training Techniques I 3 AT 362, Athletic Training Techniques II 3 AT 364, Athletic Training Techniques IV 3
Sophomore Year F S Chemistry and/or Physics 4 Engl 201*, Composition II 3 or 3 NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 3**, Human Spirit, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 Junior Year F S AT 361, Athletic Training Techniques I 3 AT 362, Athletic Training Techniques II 3 AT 364, Athletic Training Techniques IV 3
Chemistry and/or Physics
Chemistry and/or Physics
Engl 201*, Composition II
NFSH 221**, Survey of Nutrition 3 or 3 Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 3**, Human Spirit, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 Junior Year F S AT 361, Athletic Training Techniques I 3 AT 362, Athletic Training Techniques II 3 AT 364, Athletic Training Techniques IV 3
Zool 221, Anatomy 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 3 SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 3**, Human Spirit, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 Junior Year F S AT 361, Athletic Training Techniques I 3 AT 362, Athletic Training Techniques II 3 AT 364, Athletic Training Techniques IV 3
Gen Ed Humanities and Fine Arts*, pp. 35-37 3 SDSU Core: Goal 2**, Human Community, p. 39 3 SDSU Core: Goal 3**, Human Spirit, p. 40 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 Junior Year F AT 361, Athletic Training Techniques I 3 AT 362, Athletic Training Techniques II 3 AT 364, Athletic Training Techniques IV 3
SDSU Core: Goal 2**, Human Community, p. 39 3 or 3 SDSU Core: Goal 3**, Human Spirit, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 or 2-3 Junior Year F S AT 361, Athletic Training Techniques I 3 AT 362, Athletic Training Techniques II 3 AT 364, Athletic Training Techniques IV 3
SDSU Core: Goal 3**, Human Spirit, p. 40
SDSU Core: Goal 5**, Stewardship, p. 41
Junior YearFSAT 361, Athletic Training Techniques IAT 362, Athletic Training Techniques IIAT 364, Athletic Training Techniques IV
AT 361, Athletic Training Techniques I
AT 361, Athletic Training Techniques I
AT 362, Athletic Training Techniques II
AT 364, Athletic Training Techniques IV
AT 504, Auneue Training Techniques IV
AT 371, Athletic Training Clinical Experience I2
AT 371, Athletic Training Clinical Experience II
AT 374, Athletic Training Clinical Experience IV
AT 454, Athletic Injury Assessment
112 10 1, 1110 mg - 1111 m
1 2 500, 2 nerese 1 m 5251585
PE 301, Biomechanics
Summer School
AT 471, Fall Football Clinical Experience
Al 4/1, Fall Poolball Cliffical Experience
Senior Year F S
AT 363, Athletic Training Techniques III3
AT 373, Athletic Training Clinical Experience III2
AT 474, Rehabilitation of Athletic Injuries2
AT 490, Senior Seminar in Athletic Training
Zool 325-325A, Mammalian Physiology and Lab4 or 4

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- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Aviation (Avia) Minor

Dee Hopkins College of Education and Counseling Wenona Hall 108 605-688-5743

Contact the College of Education and Counseling for further information.

Biology (Bio) Major and Minor

Gary Peterson Department of Biology and Microbiology Agricultural Hall 304 605-688-6141 biomicro@abs.sdstate.edu

Requirements for Biology Major	
Bachelor of Science in Arts and Science	
Freshman Year	F S
Anth 210*, Cultural Anthropology, (G) or	
Soc 150*, Social Problems, (G) or	
Soc 240*, Sociology of Rural America, (G)	3
Bio 151-152, General Biology I and Lab and	
Bio 153-154, General Biology II and Lab	
Bio 290, Undergraduate Seminar	. 1
Chem 112-113*, General Chemistry I and Lab** and	
Chem 114-115*, General Chemistry II and Lab**	4 4
Engl 101*, Composition I	3
Math 113*, Algebra & Trigonometry or	
Math 102*, College Algebra and	
Math 120, Trigonometry	
SpCm 101-101A*, Fundamentals of Speech and Lab	. 3
Departmental Emphasis and Elective Courses***	1
Sophomore Year	F S
Anth 210*, Cultural Anthropology or	
Geog 210*, World Regional Geography or	
PolS 253*, Current World Problems or.	
Soc 100*, Introduction to Sociology or	
Soc 150*, Social Problems or	
Soc 240*, Sociology of Rural America (different area	
than above)	.3

A 4TT 100% A 4 0 TO 1 A 4 4 4		Math 113*, Algebra & Trigonometry or	
ArtH 100*, Art & Design Appreciation or		Math 102*, College Algebra and	
Engl 250*, Literature of Diverse Cultures or		Math 120, Trigonometry	5-6
Hist 121*, History of Western Civilization to 1650 or		SpCm 101-101A*, Fundamentals of Speech and Lab	3
Hist 122*, History of Western Civilization since 1650 or		Departmental Emphasis and Elective Courses***1	
Phil 215*, Introduction to Social/Political Philosophy or			
Phil 220*, Introduction to Ethics or		Sophomore Year F	S
Rel 213*, Introduction to Religion or		Anth 210*, Cultural Anthropology or	٥
Modern Language*3	3	Geog 210*, World Regional Geography or	
Bio 371, Genetics3		PolS 253*, Current World Problems or	
Chem 326-327 & 328-329 Organic Chemistry and Labs		Soc 100*, Introduction to Sociology or	
or		Soc 150*, Social Problems or	
Chem 120-121, Elementary Organic Chemistry and Lab		Soc 240*, Sociology of Rural America (different area	
and		than charal	
Chemistry elective (Recommend Chem 361-361A) 4	4	than above)	
Engl 201*, Composition II	4	Select 2 of the following courses, (G):	
Micr 231-232, General Microbiology and Lab		ArtH 100*, Art & Design Appreciation or	
Departmental Emphasia and Election 1888	4	Engl 250*, Literature of Diverse Cultures or	
Departmental Emphasis and Electives***1	4	Hist 121*, History of Western Civilization to 1650 or	
T X7	_	Hist 122*, History of Western Civilization since 1650 or	
Junior Year F	S	Phil 215*, Introduction to Social/Political Philosophy or	
Bio 311**, Principles of Ecology or		Phil 220*, Introduction to Ethics or	
Bio 383**, Bioethics or		Rel 213*, Introduction to Religion or	
EnvM 275**, Introduction to Environmental Science3-4		Modern Language*3	3
Phys 111-112, Introduction to Physics I and Lab and		Bio 371, Genetics3	
Phys 113-114, Introduction to Physics II and Lab4	4	Chem 326-327 & 328-329, Organic Chemistry & Labs	
SDSU Core: Goal 2**, Human Community, p. 39	3	or Chem 120-121, Elementary Organic Chemistry & Lab	
SDSU Core: Goal 3**, Human Spirit, p. 40	2	and Chem elective (recommend Chem 361-361A)4	1
Departmental Emphasis and Elective Courses***8-9	7	Engl 201*, Composition II	4
	•	Micr 231-232, General Microbiology and Lab4	3
Senior Year	S	Departmental Emphasis and Elective Courses***1	4
Bio 490, Senior Seminar1	Б	Departmental Emphasis and Elective Courses	4
SDSU Core: Goal 1**, Wellness, p. 392		Junior Year F	~
Communications Elective (recommend Engl 379)3			S
Social Science Elective, pp. 39-41	2	Bio 311**, Principles of Ecology or	
7	3	Bio 383**, Bioethics or	
Departmental Emphasis and Elective Courses10	13	EnvM 275**, Introduction to Environmental Science3-4	
*The 30 credit Board of Regents General Education requirements (Gen Ed) m	.a. b.	Econ 202**, Macroeconomic Principles3	
completed as part of a students first 64 credits. See pages 35-37 for details. Course	es that	Phys 111-112, Introduction to Physics I and Lab and	
are part of these credits are indicated by an asterisk (*).		Phys 113-114, Introduction to Physics II and Lab4	4
(G) The BOR General Education requirements include an International/Global Div	•.	SDSU Core: Goal 3**, Human Spirit, p. 40	2
requirement of 6 credits. Courses may count toward both the International/C	ersity	Departmental Emphasis and Elective Courses***5-6	
			10
Diversity requirement and the social science and/or humanities and fine arts requirer	nents.	The second of th	10
Diversity requirement and the social science and/or humanities and fine arts requirer See pages 35-37 for details.	nents.	Senior Year F	
Diversity requirement and the social science and/or humanities and fine arts requirer. See pages 35-37 for details.	nents.	Senior Year F	10 S
Diversity requirement and the social science and/or humanities and fine arts requirer See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirements.	nents.	Senior Year F Bio 490, Senior Seminar 1	
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Diversity requirement and the social science and/or humanities and fine arts requirer See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation Require (SDSU Core). See pages 39-41 for details. These requirements are indicated by a dasterisk (**).	nents. ement louble	Senior YearFBio 490, Senior Seminar1SDSU Core: Goal 1**, Wellness, p. 392Communications Elective (recommend Engl 379)3	S
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Biology Emphasis At least two (2) courses from the following list are required; additional courses from this list may be taken as electives:
Bio 200-200A, Biological Diversity and Lab .4 Bot 201-202, General Botany and Lab .3 Bot 301-301A, Plant Systematics and Lab .4 Bot 305-305A, Agrostology and Lab .3 Bot 415-415A, Plant Ecology and Lab .4 Bot 421-421A, Plant Anatomy and Lab .3
At least two (2) courses from the following list are required; additional courses from this list may be taken as electives:
Bio 445-445A, Histological Techniques and Lab 3 Zool 221-222, Anatomy and Lab 3 Zool 355-355A, Mammalogy and Lab 3 Zool 357-358, Invertebrate Zoology and Lab 4 Zool 365-365A, Vertebrate Zoology and Lab 4 Zool 441-441A, Vertebrate Histology and Lab 4 Zool 467-467A, General Parasitology and Lab 3
At least four (4) courses from the following list are required; additional courses from this list may be taken as electives:
Bio 311, Principles of Ecology 3 Bio 343-343A, Cell Biology and Lab 3 Bio 353, Introduction to Oceanography 3 Bio 373, Evolution 3 Bot 327-327A, Plant Physiology and Lab 4 EnvM 275, Intro to Environmental Science 3 EnvM 425-425A, Disturbance Ecology and Lab 4 Micr 422-422A, Immunology and Lab 4 Micr 436, Molecular and Microbial Genetics 4 Micr 438, Molecular Microbial Genetics Lab 2 Zool 301, Animal Behavior 3 Zool 325-325A, Mammalian Physiology and Lab 4 Zool 383-383A, Embryology and Lab 4
Biological Science Electives: Additional courses needed to total 28 hours can be any Bio, Bot, Zool, WL, or Micr prefixed courses (with the exception of Seminars)
Botany Emphasis At least four (4) courses from the following list are required; additional courses from this list may be taken as electives: Bio 200-200A, Biological Diversity and Lab
At least two (2) courses from the following list are required; additional courses from this list may be taken as electives: Bio 445-445A, Histological Techniques and Lab Zool 221-222, Anatomy and Lab Zool 355-355A, Mammalogy and Lab Zool 357-358, Invertebrate Zoology and Lab Zool 365-365A, Vertebrate Zoology and Lab Zool 441-441A, Vertebrate Histology and Lab Zool 467-467A, General Parasitology and Lab

At least two (2) courses from the following list are required; additional
courses from this list may be taken as electives:
Bio 311, Principles of Ecology3
Bio 343-343A, Cell Biology and Lab3
Bio 353, Introduction to Oceanography3
Bio 373, Evolution3
EnvM 275, Intro to Environmental Science3
EnvM 425-425A, Disturbance Ecology and Lab4
Micr 422-422A, Immunology and Lab4
Micr 436, Molecular and Microbial Genetics4
Micr 438, Molecular Microbial Genetics Lab
Zool 301, Animal Behavior3
Zool 325-325A, Mammalian Physiology and Lab
Zool 383-383A, Embryology and Lab
Z001 363-363A, Elitoryology and Lao
Biological Science Electives: Any Bio, Bot, PS, Zool, WL, or Micr
prefixed courses (with the exception of Seminars)
Zoology Emphasis
At least two (2) courses from the following list are required; additional
courses from this list may be taken as electives:
Bio 200-200A, Biological Diversity and Lab4
Bot 201-202, General Botany and Lab3
Bot 301-301A, Plant Systematics and Lab4
Bot 305-305A, Agrostology and Lab3
Bot 415-415A, Plant Ecology and Lab4
Bot 421-421A, Plant Anatomy and Lab
Dot 121 12111, 1 14111 1411 1411 1411 1411
At least four (4) courses from the following list are required; additional
courses from this list may be taken as electives:
Zool 221-222, Anatomy and Lab3
Zool 301, Animal Behavior3
Zool 325-325A, Mammalian Physiology and Lab4
Zool 355-355A, Mammalogy and Lab3
Zool 357-358, Invertebrate Zoology and Lab4
Zool 365-365A, Vertebrate Zoology and Lab4
Zool 383-383A, Embryology and Lab
Zool 441-441A, Vertebrate Histology and Lab
Zool 467-467A, General Parasitology and Lab
Zooi 407-407A, General Latashology and Late
At least two (2) courses from the following list are required; additional
courses from this list may be taken as electives:
Bio 311, Principles of Ecology3
Bio 445-445A, Histological Techniques and Lab
Bot 327-327A, Plant Physiology and Lab
Bio 343-343A, Cell Biology and Lab
Bio 353, Introduction to Oceanography3
Bio 373, Evolution
EnvM 425-425A, Disturbance Ecology and Lab
Micr 422-422A, Immunology and Lab
Micr 436, Molecular and Microbial Genetics4
Micr 438, Molecular and Microbial Genetics Lab2
Dislocical Colones Floatings Any Die Det DC 7001 WI Min-
Biological Science Electives: Any Bio, Bot, PS, Zool, WL, or Microrefixed courses (with the exception of Seminars)
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prefixed courses (with the exception of Seminars)

Pre-professional Emphasis

Three years + Professional school track: Students who are admitted into a professional school after only 3 years of undergraduate study may request to graduate from SDSU with a B.S. degree in Biological Science with a major in Biology. This program requires the successful completion of 96 credits at the undergraduate level. At least 32 of these 96 credits must be completed at SDSU. At least 20 of the 32 credits completed at SDSU must be at the 300 or above level. The student must complete all the college and university general education requirements. The student must complete at least 16 credits at SDSU in courses prefixed Bio, Bot, Micr, Vet, or Zool. These credits can fulfill a portion of the 32 credit residency requirement. In this program, the courses listed below are not required but are recommended to complete the 96 credit requirement.

Four year track: Students entering the regular 4-year program in Biology will complete the following requirements for the Pre-professional Emphasis:

At least **four** (4) courses from the following list are required; additional courses from this list may be taken as electives:

At least **four** (4) courses from the following list are required; additional courses from this list may be taken as electives:

Bio 343-343A, Cell Biology and Lab	3
Bio 383, Bioethics	4
Micr 422-422A, Immunology and Lab	4
Zool 221-222, Anatomy and Lab*	3
Zool 325-325A, Mammalian Physiology and Lab*	4
Zool 383-383A, Embryology and Lab	4
Zool 441-441A, Vertebrate Histology and Lab	4

Recommended general electives, but not restricted to:

Chem 361-361A, Biochemistry and Lab (if taken
Chem 326-327-328-329)4
Hlth 364-364A, Emergency Medical Technician and Lab4
HSc 120, Community Health2
Math 222, Calculus for Non-Math Majors5
Psyc 101, General Psychology (can use as Social Science elective)3
SpCm 201, Interpersonal Communication
Stat 281, Statistical Methods I
For Decreased and Co. 1

* For Pre-veterinary Students: You may substitute Vet 223 for Zool 325. However, if Vet 223 is taken, you cannot then use Zool 221 as one of your 4 courses from this block.

Requirements for Biology Minor: 16 cr

The minor in Biology consists of Bio 101 and Lab or 151 and Lab and additional credit hours in the Biology/Microbiology Department for a total of at least 16 credits. Two courses must be at the 300 level or above.

Biostress Center of Excellence

Douglas Malo Biostress Center of Excellence Northern Plains Biostress Laboratory, 247C 605-688-4586 e-mail: Douglas_Malo@sdstate.edu

Admission Requirements

- Completion of 96 semester credits in an Agriculture or Biological Science major.
- 2. Completion of university core, college core, and specified core of technical courses for the respective major.
- 3. GPA of 3.0.
- . 4. Completion of ABS 203, Global Food Systems (3 credits).

- Completion of an application form and a personal statement of interest.
- 6. Completion of building courses.

One course (and associated lab) from each area (e.g. Animal Resources, Philosophy, etc.) listed below needs to be taken to meet Biostress Center of Excellence requirements. Courses may also be used to meet major requirements

Animal Resources
AS 101-101A, Introduction to Animal Science and Lab3
DS 130-130A, Introduction to Dairy Science and Lab 3
WL 220, Introduction to Wildlife and Fisheries Management 3
Plant Resources
Bot 201-202, General Botany and Lab
Ho 111-111A, General Horticulture and Lab
PS 103-103A, Crop Production and Lab
Rang 205-205A, Introduction to Range Management and Lab 3
Philosophy
Phil 220, Introduction to Ethics
Phil 320, Professional Ethics
Phil 332, Environmental Ethics
Phil/Bio 383, Bioethics
Soil Resources
PS 213-213A, Soils and Lab
PS 243-244, Geology and Lab
Economics
AgEc 271-271A, Farm and Ranch Management and Lab 4
AgEc 354, Agricultural Marketing and Prices
BAdm 360, Organization and Management
Econ 370, Marketing
Sociology/Political Science
PolS 210, State and Local Government
Soc 233, Introduction to Leadership
Soc 240, Sociology of Rural America
Agricultural Production System Analysis
AgEc 421-521, Farming and Food System Economics
AS 474-474A, Beef Cattle Production and Lab
AS 477-477A, Sheep and Wool Production and Lab
AS 478-478A, Swine Production and Lab
PS 440-440A, Crop Mngmnt with Precision Farming and Lab 3
Rang 485-485A, Advanced Integrated Ranch Management and
Lab
Communications-Oral
SpCm 201, Interpersonal Communication
SpCm 215, Public Speaking
SpCm 322, Argumentation and Debate
SpCm 334, Discussion
Communications-Written
Engl 379, Technical Communications
MCom 313, Publicity Methods

Graduation Requirements:

- Multicultural/Global travel experience (2 credit minimum)-ABS 381, Multicultural Agricultural/Biological Science Experience or ABS 382, International Multicultural Agricultural/Biological Sciencé Experience, or ML 195, Living and Study Abroad, or EurS 301, Topics in European Society, or LAAS 301, Latin American Cultures, or LAAS 302, Latin American Societies.
- GPA of 3.0 overall and in courses required for the Biostress Center of Excellence.
- 3. ABS 476, Integrated Management of Agricultural Resources (6 credits).

Botany (Bot) Minor

Gary Peterson Department of Biology and Microbiology **Agricultural Hall 304** 605-688-6141 biomicro@abs.sdstate.edu

Requirements for Botany Minor: 16 cr

The minor in Botany consists of Bio 101 and Lab or 151 and Lab, Bot 201 and Lab, and additional courses with a Bot prefix for a total of at least 16 credits. Two courses must be at the 300 level or above.

Business Area Studies

Richard Shane **Department of Economics** Scobev Hall 136 605-688-4141 e-mail: janet_wilson@sdstate.edu

http://econnet.sdstate.edu/dept/index.asp

Business Economics Option - See Economics Major

The following group of business related courses represents offerings from all academic departments (or in cooperation with other institutions) of interest to majors in the various business related curricula of the university.

Accounting

Acct 210, Principles of Accounting I 3 FS Acct 211, Principles of Accounting II 3 FS Acct 310, Intermediate Accounting I 3 F Acct 311, Intermediate Accounting II 3 S Acct 320, Cost Accounting 3 F

Acct 430, Income Tax Accounting 3 F

Agricultural Economics

AgEc 271-271A, Farm & Ranch Management and Lab 4 FS

AgEc 352, Agricultural Law 3 F

AgEc 354, Agricultural Marketing and Prices 3 FS

AgEc 373/PS 373, Rural Real Estate Appraisal 3

AgEc 454, Economics of Grain and Livestock Marketing 3 FS

AgEc 478-478A, Agricultural Finance and Lab 3 F

Business Administration

BAdm 310, Business Finance 3 FS

BAdm 324, Operations Research 4 FS

BAdm 334, Small Business Management 3 F

BAdm 350, Legal Environment of Business and Contracts 3 FS

BAdm 351, Business Law I 3 F

BAdm 360, Organization and Management 3 FS

BAdm 380, Personal Finance 3 S

BAdm 416, Commercial Bank Management 3 S AY

BAdm 482, Business Policy and Strategy 3 FS

BAdm 483 Seminar in Business Consulting 3 FS

BAdm 474, Principles of Selling 3 F

Computer Science

CSc 330, COBOL Programming 3 FSSu

Economics

Econ 330, Money and Banking 3 FS

Econ 370, Marketing 3 FS

Econ 467, Labor, Law and Economics 3 S

Econ 476, Marketing Research 3

Engineering Technology and Management

MNET 260/BAdm 260, Production and Operations Management CM 443, Project Management

Geography

Geog 454, Industrial and Commercial Site Selection FS

Mathematics

Math 241, Mathematics of Finance 3 S

Mass Communications

MCom 313, Publicity Methods 2 FSSu MCom 370, Principles of Advertising 3 F

Political Science

PolS 428, Personnel and Budgetary Administration 3 S

Psyc 331, Business and Industrial Psychology 3 F

Speech

SpCm 201, Interpersonal Communication 3 S SpCm 215, Public Speaking 3 FS

Apparel Merchandising and Interior Design

AM/ID 372 International Trade in Textiles and Apparel 3 S

AM/ID 472, Retailing 3 S

AM/ID 473 Merchandise Planning and Control 3 S

Business Minor*

Richard Shane Department of Economics Scobey Hall 136 605-688-4141

e-mail: economics@abs.sdstate.edu http://econnet.sdstate.edu/dept/index.asp

Requirements for Business Minor: 21 cr

Requirements for Business without 21 ex	
Acct 210, Principles of Accounting I	3
Econ 201, Microeconomics Principles	3
Econ 202, Macroeconomics Principles	3
Two (2) of the following:	
BAdm 310, Business Finance or	
BAdm 334, Small Business Management or	
Badm 350, Legal Environment of Business and Contract	s o
BAdm 360, Organization and Management or	
Econ 370, Marketing	6
Two courses from the Business Area Studies**, p. 129	6

* This minor provides the prerequisites for the Master of Science in Industrial Management (MSIM) offered by the Department of Engineering Technology and Management at South Dakota State University (605-688-4161). Preparation for a Master's in Business Administration (MBA) offered by the Business Schools at the University of South Dakota (605-677-5235), Northern State University (605-626-2400) and other business schools includes the three required courses listed above and Marketing, Business Finance, Business Management, Accounting II, Calculus, Statistics, Production and Operations Management and Management Information Systems. These courses (except Calculus) can be used to fulfill the select two of the following and Business Area Studies requirements listed above.

The elective program desired should be planned with the student's academic adviser and submitted to the Economics Department Head for approval. Minor program forms can be obtained from the Economics Department.

Career and Technical Education (CTE) Major

Dann Husmann
Department of Teacher Education
Wenona Hall 104
605-688-6798
e-mail: Dann_Husmann@sdstate.edu
www:sdstate.edu/ed18/http/index.htm

e-mail: Dann_Husmann@sdstate.edu www:sdstate.edu/ed18/http/index.html		
Requirements for Aviation Education Major Bachelor of Science in Career and Technical Education Freshman Year		s
Acct 210, Principles of Accounting I	or	3
Avia 101, Introduction to General Aviation	or	1
Avia 270, Private Pilot Operations3		_
and		
Avia 270A, Intro to Flight-Private Instruction I 2 Avia 270B, Intro to Flight-Private Instruction II Engl 101*, Composition I	or	3
Geog 131-131A*, Physical Geography I and Lab		4
Math 102*, College Algebra	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab 3	or	3
System General Education Core*	6 or	0-6
SDSU Core: Goal 1**, Wellness, p. 39	or	2
G 1		
Sophomore Year F		S
Avia 273, Cockpit Resource Management	or	1
Avia 370, Instrument Light Operations	or	3
and		
Avia 370A, Instrument Flight Operations-Private		
Instruction	or	3
CTE 405, Philosophy of Career & Technical Education 2		
and		
CTE 287, Practicum in Career and Technical		
Education1		
or		
CTE 425, Development of Education Thought and Practice	or	3
Econ 202*, Macroeconomics Principles	or	3
EdFn 375, Human Relations	or	3
Engl 201*, Composition II	or	3
Geog 132-132A**, Physical Geography II and Lab4	or	4
Phys 101-102*, Survey of Physics I and Lab4		4
SpCm 201, Interpersonal Communications	or	
System General Education Core* and/or SDSU IGR**0-6	or	3
System Scholar Education Cold and/or SDSU IGK**0-(or u	-0
Junior Year		a
ABE 353, Physical Climate & Meteorology 3		S
Avia 371, Commercial Flight Operations	or	3
and	or	3
Avia 371A, Commercial Flight Operations-Private		
Instruction I	or	2
Avia 371B, Commercial Flight Operations-Private		
Instruction II	or	2
Avia 371C, Commercial Flight Operations-Private		
Instruction III	or	2
Avia 371, Human Factors	or	2
CTE 420, Entrepreneurship		•
EdFn 365, Integrating Computers into the Curriculum2	or	2
Engl 379, Technical Communications	or	3
Soc 233, Introduction to Leadership		
Soc 353, Sociology of Work		
System General Education Core* and/or SDSU IGR**0-3	or 0-	-3
	-	

Senior Year F		S
Acct 211, Principles of Accounting II 3	or	3
Avia 470, Professional Flight Instructor	or	3
and		
Avia 470A, Professional Flight Instructor-Private		
Instruction	or	2
Avia 472, Additional Air Rating(s)	or	1
and	01	-
Avia 472A, Additional Air Rating(s)-Private		
Instruction	or	1
CTE 419, Methods of Teaching	or	3
CTE 430, Cooperative Education Coordination	01	5
Techniques	or	3
HDCF 313, Human Development & Personality 3	or	3
Phil 320, Professional Ethics	or	3
System General Education Core* and/or SDSU IGR**0-0		

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Career and Technical Education Major Bachelor of Science in Education

Individuals enrolled in the CTE major are often under a demanding schedule. Typically participants are scattered across the state and find it challenging to take a significant amount of course work in a particular semester. Traditional freshman/sophomore/junior and senior years at college are a remote possibility due to full-time employment, scheduling, and location. Individuals are encouraged to contact a person in the CTE program at SDSU to begin drafting a schedule and timeline needed to complete an undergraduate program. There is a five year schedule of the required courses in CTE and individuals are asked to visit the CTE homepage for the latest on the course rotations. Courses within the General Education Core may be taken at other regental institutions offering coursework in an undergraduate program. It is strongly recommended to obtain approval before enrolling in another course at another institution. The undergraduate curriculum in CTE, along with additional educational information, can be found at the CTE homepage at the address listed above.

⁽G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

^{**}South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Chemistry (Chem) Major and Minor

James A. Rice Department of Chemistry and Biochemistry Shepard Hall 121 605-688-5151

Requirements for Chemistry Major Bachelor of Science in Arts and Science	
Freshman Year	S
Chem 112-113*, General Chemistry I and Lab4	_
Chem 114-115*, General Chemistry II and Lab	4
Engl 101*, Composition I3	or 3
Math 123*, Calculus I or	
Math 222, Calculus for Non-Math Majors5	or 5
SpCm 101-101A*, Fundamentals of Speech and Lab3	or 3
Gen Ed Humanities and Fine Arts*, (G), pp. 35-373	or 3
Gen Ed Social Science*, (G), pp. 35-370-6	0-6
SDSU Core: Goal 3**, Human Spirit, p. 402	or 2
, , , , , , , , , , , , , , , , , , , ,	
Sophomore Year F	S
Chem 326-327**, Organic Chemistry I and Lab4	
Chem 328-329, Organic Chemistry II and Lab	4
Engl 201*, Composition II3	or 3
Phys 111-112, Introduction to Physics I and Lab4	
Phys 113-114, Introduction to Physics II and Lab	4 .
Biological Science***3	or 3
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3	or 3
SDSU Core: Goal 1**, Wellness, p. 392	or 2
Electives ¹ 0-3	or 0-3
Junior Year F	S
Chem 232-233, Analytical Chemistry I and Lab4	
Chem 342-342A, Physical Chemistry and Lab5	
Biological Science***3	or 3
SDSU Core: Goal 2**, Human Community, p. 393	or 3
Electives ¹ 0-7	or 0-13
Senior Year F	S
	or 3
Social Science Elective***	0-16

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- ***Required by the College of Arts and Science Core. See College of Arts and Science requirements, pp. 56-57.
- ¹Electives must include at least 8 credits of Chemistry selected from Chem 344-344A, 352-352A, 361-361A, 380, 416, 434-434A, 461. Math 224 is recommended as an elective.

Suggested courses for those interested in associated careers in: $Allied\ Health$

Bio 151-152; Zool 221-222, 325-325A, 467-467A; Micr 231-232, 422-422A; Chem 361-361A, 382-382A, 434-434A; Stat 281

Biological Sciences

Chem 361-361A, 461; Biological Science upper division, 9 credits; Bio 151-152

Education

Chem 352-352A, 361-361A, 380; Education Requirements

Environmental

Chem 361-361A, 380, 434-434A; Micr 310; Bot 415; Bio 311; Geog 337

Quality Control

Chem 352-352A, 361-361A, 434-434A; Stat 281

Requirements for Chemistry Major – ACS Certified Bachelor of Science in Arts and Science		
Freshman Year F		S -
Chem 112-113*, General Chemistry I and Lab4 Chem 114-115*, General Chemistry II and Lab		4 -
Engl 101*, Composition I		3
Math 224, Calculus II		4
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Social Science*, pp. 35-37, (G)0-6	0	-6
Sophomore Year F	•	S
Chem 232-232A**, Analytical Chemistry I and Lab4 Chem 326-327, Organic Chemistry I and Lab4		•
Chem 328-329, Organic Chemistry II and Lab		4
Math Elective ¹ 3	or	3
Phys 211-212, University Physics I and Lab4	,	
Phys 213-214, University Physics II and Lab		4
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)0-6	or 0	-6
SDSU Core: Goal 1**, Wellness, p. 392	or	2,
SDSU Core: Goal 3**, Human Spirit, p. 402	or	2
Junior Year F		S
Chem 342-342A, Physical Chemistry I and Lab5		٠ ـ
Chem 344-344A, Physical Chemistry II and Lab		5
Chem 352-352A, Inorganic Chemistry and Lab4 Biological Science***		3 .
Biological Science***	or	2
Social Science Elective***	or	3
Electives ¹ 0-8		-8
Senior Vegr F		S
Schol Ical	or	3
Chem 361-361A, Biochemistry and Lab	Oi	4
Chem 492, Special Problems	or	3
Computer Science Course	or.	3
Advanced Physics Elective3	or	3
Advanced Chemistry Elective	or	3
SDSU Core: Goal 2**, Human Community, p. 393	or	3
Electives ¹ 0-10	()-12

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

⁽G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

^{**}South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement

(SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

***Required by the College of Arts and Science Core. See College of Arts and Science requirements, pp. 56-57.

¹Electives must include at least 4 credits of Chemistry selected from Chem 380, 416, 461, or 492. Math 321 is recommended as an elective.

Requirements for Chemistry Minor: 20 cr

A minor should include a minimum of 20 semester credit hours (or equivalent). Two or more areas of chemistry should be chosen beyond general chemistry (Chem 112-113 and Chem 114-115) from the following: Analytical, Biochemistry, Inorganic, Organic, Physical and Environmental. This should include laboratory experiences in at least two different areas beyond general chemistry. A 2.0 GPA in chemistry courses is required and at least 50% of chemistry courses applied toward a minor must be completed at SDSU.

(Pre-) Chiropractic

Katherine Erdman College of General Registration Medary Commons 605-688-4153

Frechmon Voor

e-mail: kathie_erdman@sdstate.edu

The adviser can provide assistance in selecting a major or electives to meet the requirements for admission to chiropractic college. Students who are not planning to pursue a degree before making application to chiropractic college should meet with the adviser to design a plan of study.

Suggested curriculum (assuming a 4-year degree plan):

	\mathbf{F}		S
Chem 112-113*, General Chemistry I and Lab	4		-
Chem 114-115*, General Chemistry II and Lab			4
Engl 101*, Composition I	3	or	3
Math 102*, College Algebra (or higher level math) 3	-5	or 3	-5
Psyc 101*, General Psychology	3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab	3	or	3
Bio, Micro, or Zool course w/Lab	3	or	3
Gen Ed Social Science*, pp. 35-37	3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-37	3	or	3
SDSU Core: Goal 1**, Wellness, p. 39	2	or	2
	F		S
Chem 326-327, Organic Chemistry I and Lab	4		
Chem 328-329, Organic Chemistry II and Lab	,		4
Engl 201*, Composition II	3	or	3
Phys 111-112*, Introduction to Physics I and Lab	4		
Phys 113-114*, Introduction to Physics II and Lab			4
Gen Ed Humanities and Fine Arts*, pp. 35-37	3	or	3 ·
SDSU Core: Goal 2**, Human Community, p. 39	2 .	or	2
SDSU Core: Goal 3**, Human Spirit, p. 40	2 ,	or	2
SDSU Core: Goal 5**, Stewardship, p. 41	2 ,	or	2
Junior Year			\mathbf{S}
Zool 221-222, Anatomy and Lab	3 1	or	3
Major/Minor Courses10-	-14	10-	14
Senior Year			S
Major/Minor Courses	17	15-	17

Make application to chiropractic college early fall semester.

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Civil Engineering (CEE) Major

Vernon R. Schaefer Department of Civil and Environmental Engineering Crothers Engineering Hall 118 605-688-5427

Requirements for Civil Engineering Major Bachelor of Science in Civil Engineering

Dachelor of Science in Civil Engineering	
(Accredited by the Engineering Accreditation Commission of the A	Accreditati
Board for Engineering and Technology)	
Freshman Year F	. S
CEE 106-106A, Elementary Surveying and Lab	3
Chem 112-113*, General Chemistry I and Lab4	
Chem 114, General Chemistry II or	
Chem 120, Elementary Organic Chemistry	3
EG 121-122, Engineering Design Graphics I-II	1
Engl 101*, Composition I	
GE 101**, Introduction to Engineering and Technology 1	
Math 123,*, Calculus I and	
Math 224, Calculus II5	4
SpCm 101-101A*, Fundamentals of Speech and Lab	3
Gen Ed Humanities and Fine Arts*, pp. 35-37	
Gen Ed Social Science*, pp. 35-37	3
	_
Sophomore Year F	S
CEE 208-208A, Engineering Surveys and Lab3	_
CEE 216-216A, Materials and Lab	3
EG 123, Computer Aided Design & Graphics	_
EM 221, Statics3	
EM 222, Dynamics	3
Math 225, Calculus III3	
Math 321, Differential Equations	3
Phys 211-212**, University Physics I and Lab and	· ·
Phys 213-214**, University Physics II and Lab4	4
Gen Ed Humanities and Fine Arts*, pp. 35-373	•
Gen Ed Social Science*, pp. 35-37	3
SDSU Core: Goal 2**, Human Community, p. 39	2
371	_
Junior Year F	\mathbf{S}
CEE 311, Structural Materials Lab	~
CEE 327-327A**, Water Supply Engineering and Lab	3
CEE 336-336A, Engineering Geology and Lab	3
CEE 353, Structural Theory	3
CEE 363-363A, Highway and Traffic Engineering	
and Lab	3
CEE 490**, Seminar	ŭ
CSc 213, Introduction to Programming with FORTRAN 3	
EE 300-301, Basic Electrical Engineering I and Lab	3
EM 321, Mechanics of Materials3	5

EM 331, Fluid Mechanics	
ME 314, Thermodynamics	3
Senior Year F CEE 331, Fluid Mechanics Lab	S
CEE 456-456A, Concrete Theory and Design and Lab CEE 464**, Senior Design Project I	. 2
CEE 405**, Semor Design Project if	3
CEE 475, Engineering Administration	2
SDSU Core: Goal 3**, Human Spirit, p. 40	6
CEE Technical Electives	U
Total hours required for graduation	136
Technical Electives	Credits
CEE 304, Land Surveying	- 3
CEE 306-306A, Photo Interpretation and	•
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	. 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab CEE 333-333A, Hydrology and Lab	3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab CEE 333-333A, Hydrology and Lab CEE 411-411A, Bituminous Materials and Lab	3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab CEE 333-333A, Hydrology and Lab CEE 411-411A, Bituminous Materials and Lab CEE 424**, Industrial Waste	3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab CEE 333-333A, Hydrology and Lab CEE 411-411A, Bituminous Materials and Lab CEE 424**, Industrial Waste CEE 427-427A**, Environmental Engineering	3 3 3 2
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
CEE 306-306A, Photo Interpretation and Photogrammetry and Lab	3 3 3 2 3 3 3 3 3 3 3 3

The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk ().

- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- CEE students receive educational experiences for understanding the relationship between the environment and society and stewardship. The principles of wise use of the environment, impact analyses of communities, organizations and society on environments, and the knowledge and care of the environment are part of CEE courses, experiments, course

projects along with internships, cooperative education experiences, engineering technical tours, activities of professional engineering organizations and curriculum assignments. The primary courses that cover these elements are GE 101, CEE 327, 333, 423, 427,428, 435, 464, 465, 483, and 490. For Civil and Environmental Engineering students, these educational experiences fulfill the SDSU IGR, Stewardship (SDSU Core: Goal 5).

Clinical Laboratory Technology (MedT) Major

James A. Rice Department of Chemistry and Biochemistry Shepard Hall 121 605-688-5151

·		
Requirements for Clinical Laboratory Technology Major	:	
Bachelor of Science in Arts and Science		_
Freshman Year F		S
Bio 151-152, General Biology I and Lab4		
Chem 112-113*, General Chemistry I and Lab4		
Chem 114-115*, General Chemistry II and Lab		4
Engl 101*, Composition I3	or	3
Math 102*, College Algebra or		
Math 113, Algebra & Trigonometry3-5	or 3	3-5
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Zool 221-222, Anatomy and Lab		3
Gen Ed Social Science*, pp. 35-37, (G)0-6	()-6
SDSU Core: Goal 1**, Wellness, p. 39	or	2
,,		
Sophomore Year F		\mathbf{S}
Chem 120-121, Elementary Organic Chemistry & Lab 4		
Chem 361-361A, Biochemistry and Lab		4
Engl 201*, Composition II3	or	3
Micr 231-232, General Microbiology and Lab4		
Stat 281, Statistical Methods3	or	3
Zool 467-467A, General Parasitology and Lab3		
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)6	or	6
SDSU Core: Goal 2**, Human Community, p. 393	or	-3
Social Science Elective***	or	3
Social Science Elective		
Junior Year F		S
Chem 232-233, Analytical Chemistry I and Lab4		
Chem 382-382A, Techniques in Clinical Laboratory		
Technology and Lab		3
Chem 434-434A, Instrumental Analysis and Lab		4
MedT 487, Internship Orientation		1
Micr 323-324, Medical Microbiology and Lab		4
Micr 422-422A, Immunology and Lab		
Zool 325-325A, Mammalian Physiology and Lab4		
SDSU Core: Goal 3**, Human Spirit, p. 402	or	- 2
SDSU Core: Goal 5**, Stewardship, p. 41	or	2
Disco Cole. Goal 5, Stewardship, p. 41	or	3
Elective ¹ 3	Of	3

Senior Year

Twelve months of training in a hospital school of Medical Technology approved by the Committee on Allied Health Education and Accreditation of the American Medical Association for which 40 semester credits will be granted. Ninety-eight (98) credit hours must be earned at SDSU prior to the internship. Interns register for MEDT 495 during summer, fall and spring semesters of the internship year.

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global

- Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- ***Required by the College of Arts and Science Core. See College of Arts and Science requirements, pp. 56-57.
- Students are encouraged to select one course from the following: Phys 101, Survey of Physics; Bio 371, Genetics; Acct 210, Principles of Accounting I; SpCm 201, Interpersonal Communications.

Communication Studies and Theatre (CST) Major and Minor

Michael R. Schliessmann Department of Communication Studies and Theatre Pugsley Center 115 605-688-6131

Requirements for Communication Studies and Theatre Major – RTVF Option (Radio, Television, and Film)

Bachelor of Science in Arts and Science		
Freshman Year F		S
Engl 101*, Composition I	or	3
RTVF 130, Introduction to Radio & TV3	or	3
RTVF 144, Radio, Television & Film Activities1	or	1
RTVF 160*, Introduction to Film (or RTVF 360)***3	0.	•
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Natural Science*, pp. 35-373	01	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Social Science*, pp. 35-37	Oi	3
SDSU Core: Goal 1**, Wellness, p. 39	or	2
Sophomore Year F		S
Engl 201*, Composition II3	or	3
RTVF 330-330A, Writing for Radio & TV and Lab	01	3
RTVF 331-331A, Television Production and Lab3	or	3
RTVF 344, Radio, Television & Film Activities1	or	1

3

CST Electives3
General Electives3
Junior and Senior Year
RTVF 332-332A, Radio News Reporting and Lab or
RTVF 333-333A, TV News Reporting and Lab3
RTVF 360, Film Narrative (or RTVF 160)
SpCm 334, Discussion3
SDSU Core: Goal 2**, Human Community, p. 39 and
College Core6
SDSU Core: Goal 3**, Human Spirit, p. 402-3
SDSU Core: Goal 4**, Science and Sci Method, p. 41
and College Core (Science)8
SDSU Core: Goal 5**, Stewardship, p. 412-3
CST Electives8

Gen Ed Humanities*, pp. 35-37 (Not in CST)3

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- All students must demonstrate advanced Information Technology Literacy (ITL). Numerous departmental courses fulfill this requirement, as do courses from other departments.
- ***RTVF students who do not take RTVF 160 must take an additional three (3) credits from the approved list of Humanities and Fine Arts.

Requirements for Communication Studies and Theatre Major – RTVF Option (Radio, Television, and Film)

Bachelor of Arts in Arts and Science		
Freshman Year	ı	S
Engl 101*, Composition I	or	3
Modern Language*, 101 & 1024		4
RTVF 130, Introduction to Radio & Television3		
RTVF 144, Radio, Television, & Film Activities1	or	1
RTVF 160*, Introduction to Film (or RTVF 360)***3		-
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Social Science*, pp. 35-373	OI.	3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
	O1	2
Sophomore Year F		S
Engl 201*, Composition II3	or	3
Modern Language, 201 & 202		3
RTVF 330-330A, Writing for Radio & Television		_
and Lab		3
RTVF 331-331A, Television Production & Lab3	or	3
RTVF 344, Radio, Television, & Film Activities1	or	1
Gen Ed Science*, pp. 35-373-4	or	3-4
SDSU Core: Goal 4**, Science and Sci Methods, p. 41 2	or	2
CST Electives3	02	3
General Electives3		3
		5
Junior and Senior Year		
RTVF 332-332A, Radio News Reporting & Lab or		
RTVF 333-333A, TV News Reporting & Lab3		
SpCm 334, Discussion		
Arts and Science Core, Humanities and Fine Arts (not Moo	lern	
Language)		
SDSU Core: Goal 2**, Human Community, p. 392		
SDSU Core: Goal 5**, Stewardship, p. 412-3		
CST Electives8		
*The 30 credit Board of Regents General Education requirements (C.	17-1)	

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- All students must demonstrate advanced Information Technology Literacy (ITL). Numerous departmental courses fulfill this requirement, as do courses from other departments.
- ***RTVF students who do not take RTVF 160 must take an additional three (3) credits from the approved list of Humanities and Fine Arts.

Requirements for Communication Studies and Theatre Major – SpCm Option (Speech Communication) Bachelor of Science in Arts and Science

Freshman Year F		S
Engl 101*, Composition I3	or	3
RTVF 130, Introduction to Radio & Television3		
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3

0 0 00 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	Can Ed Saignage no 25 27		3-4
SpCm 281, Forensic Activities1	or	1	Gen Ed Science*, pp. 35-373-4	•)-
Thea 100*, Introduction to Theatre3	or	3	SDSU Core: Goal 4**, Science and Sci Methods,		•
SDSU Core: Goal 1**, Wellness, p. 392	or	2	p. 412	or	2
Gen Ed Mathematics*, pp. 35-373	or	3	CST Electives3		3
Gen Ed Natural Science*, pp. 35-373		3	General Electives3		3
Gen Ed Social Science*, pp. 35-373		3			
Gen Ed Social Science, pp. 33-37			Junior and Senior Year		
G 1 37 E		C	•		
Sophomore Year F		S	GCom 345, Organizational Communication		
Engl 201*, Composition II3	or	3	SpCm 222, Argumentation & Debate3		
GCom 211, Phonetics		3	SpCm 334, Discussion3		
SpCm 201, Interpersonal Communication		3	Arts and Science Core, Humanities and Fine Arts (not		
SpCm 215, Public Speaking3	or	3	Modern Language)3		•
SpCm 340, Oral Interpretation	or	3	SDSU Core: Goal 2**, Human Community, p. 396		
	OI	3			
Gen Ed Humanities*, pp. 35-37 (Not in CST)3		_	SDSU Core: Goal 5**, Stewardship, p. 412-3		
CST Electives3		3	CST Electives8		
General Electives3		3	•		
•			*The 30 credit Board of Regents General Education requirements (Ger		
Junior and Senior Year			completed as part of a students first 64 credits. See pages 35-37 for detail	ls. Cours	ses that
•			are part of these credits are indicated by an asterisk (*).		
GCom 345, Organizational Communication3			(G) The BOR General Education requirements include an International/Gl	obal Di	versity
SpCm 222, Argumentation & Debate3			requirement of 6 credits. Courses may count toward both the Intern	national	Global
SpCm 334, Discussion			Diversity requirement and the social science and/or humanities and fine art	s require	ements.
SDSU Core: Goal 2**, Human Community, p. 39			See pages 35-37 for details.		
and College Core6					•
SDSU Core: Goal 3**, Human Spirit, p. 402-3			**South Dakota State University has a 10 credit SDSU Institutional Graduation		
			(SDSU Core). See pages 39-41 for details. These requirements are indicated the control of the co	ted by a	double
SDSU Core: Goal 4**, Science and Sci Method, p. 41	*.		asterisk (**).		
and College Core8		•	Students must take the proficiency examination after completing 48 credits. E	nglish 1	01, and
SDSU Core: Goal 5**, Stewardship, p. 412-3		•	a course in each of the General Education areas of social science, mathe		
CST Electives8			science, and humanities and fine arts must be taken prior to taking this ex		
CST Licentes			And the state of t	TT \ NI	
*The 30 credit Board of Regents General Education requirements (G	n Ed) i	must be	All students must demonstrate advanced Information Technology Literacy (I	IL). Nu	merous
completed as part of a students first 64 credits. See pages 35-37 for deta	ils. Cou	rses that	departmental courses fulfill this requirement, as do courses from other de	eparunei	113.
are part of these credits are indicated by an asterisk (*).					
•			Requirements for Communication Studies and Theatre	viajor	_
(G) The BOR General Education requirements include an International/O	lobal D	iversity	SpEd Option (Speech Education)		
requirement of 6 credits. Courses may count toward both the Inter-	rnationa				
D' 't and a second seco	+c +cani:	roments	Bachelor of Science in Arts and Science		
Diversity requirement and the social science and/or humanities and fine a	rts requi	rements.			S
Diversity requirement and the social science and/or humanities and fine a See pages 35-37 for details.	ts requii	rements.	Freshman Year F	or	S 3
Diversity requirement and the social science and/or humanities and fine a See pages 35-37 for details.	rts requii	rements.	Freshman Year DCom 131, Introduction to Communication Disorders 3	or	3
Diversity requirement and the social science and/or humanities and fine a	its requii	rements.	Freshman Year F DCom 131, Introduction to Communication Disorders 3 Engl 101*, Composition I	or or	
Diversity requirement and the social science and/or humanities and fine a See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduat	its requii	rements.	Freshman YearFDCom 131, Introduction to Communication Disorders3Engl 101*, Composition I		3
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Diversity requirement and the social science and/or humanities and fine a See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduat (SDSU Core). See pages 39-41 for details. These requirements are indic asterisk (**). Students must take the proficiency examination after completing 48 credits. a course in each of the General Education areas of social science, mat	ion Requisited Requisited by a second representation of the second representation of the second representation requirements of the second representation represent	nirement a double	Freshman Year F DCom 131, Introduction to Communication Disorders 3 Engl 101*, Composition I	or or or	3 3
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- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- All students must demonstrate advanced Information Technology Literacy (ITL). Numerous departmental courses fulfill this requirement, as do courses from other departments.
- Prospective classroom teachers must also complete courses required of all secondary school teachers. Students who plan to teach in secondary schools should consult with the College of Education and Counseling before their sophomore year.

Requirements for Communication Studies and Theatre Major – SpEd Option (Speech Education)

Bachelor of Arts in Arts and Science

Freshman Year	7	S
DCom 131, Introduction to Communication Disorders		3
Engl 101*, Composition I	3 or	3
Modern Language*, 101 & 102	4	4
RTVF 130, Introduction to Radio & TV		•
SpCm 101-101A*, Fundamentals of Speech and Lab3	3 or	3
Thea 131*, Acting	or or	3
Gen Ed Mathematics*, pp. 35-37	or or	3
Gen Ed Social Science*, pp. 35-37	}	3
SDSU Core: Goal 1**, Wellness, p. 392	e or	2
Sophomore Year F	,	S
Engl 201*, Composition II3	or	3
Modern Language, 201 & 2023		3
SpCm 201, Interpersonal Communication		3
Thea 241-241A, Stagecraft and Lab3	or	3
Gen Ed Science*, pp. 35-373-4	or	3-4
SDSU Core: Goal 4**, Science and Sci Methods, p. 41 2	or	2

Junior and Senior Year

SpCm 222, Argumentation & Debate	3
SpCm 340, Oral Interpretation	3
SpCm 375, Teaching of Speech	3
Arts and Science Core, Humanities and Fine Arts (1	not
Modern Language)	3
SDSU Core: Goal 2**, Human Community, p. 39	2
SDSU Core: Goal 5**, Stewardship, p. 41	2-3
SDSU Core: Goal 5**, Stewardship, p. 41 CST Electives	2-3

CST Electives3

General Electives3

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
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- All students must demonstrate advanced Information Technology Literacy (ITL). Numerous departmental courses fulfill this requirement, as do courses from other departments.
- Prospective classroom teachers must also complete courses required of all secondary school teachers. Students who plan to teach in secondary schools should consult with the College of Education and Counseling before their sophomore year.

Requirements for Communication Studies and Theatre Major – Thea Option (Theatre)

Bachelor of Science in Arts and Science

Buchelor of Science in Arts and Science		
Freshman Year	ŗ	S
Engl 101*, Composition I3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	. 3
Thea 100*, Introduction to Theatre	or	3
Thea 131, Acting	or	3
Gen Ed Mathematics*, pp. 35-373	or	
Gen Ed Natural Science*, pp. 35-373		3
Gen Ed Social Science*, pp. 35-373		3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Sophomore Year F		S
Engl 201*, Composition II3	or	3
Thea 241-241A, Stagecraft and Lab3	or	3
Thea 243, Makeup for the Stage3		J
Gen Ed Humanities*, pp. 35-37 (Not in CST)		3
CST Electives3		3
General Electives3		3
Junior and Senior Year		

CST Electives8

Thea 397, Theatre Arts Management or

The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk ().

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- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

All students must demonstrate advanced Information Technology Literacy (ITL). Numerous departmental courses fulfill this requirement, as do courses from other departments.

Requirements for Communication Studies and Theatre Major – Thea Option (Theatre)

Bachelor of Arts in Arts and Science

3

3

r resimian rear		S
Engl 101*, Composition I3	or	3
Modern Language*, 101 & 1024		4
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Thea 100*, Introduction to Theatre3	or	3
Thea 131, Acting3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Social Science*, pp. 35-37		3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
•		

Sophomore Year	F		S
Engl 201*, Composition II	3	or	3
Modern Language, 201 & 202	3		3
Thea 241-241A, Stagecraft and Lab	3	or	3

Thea 243, Makeup for the Stage3	
Gen Ed Science*, pp. 35-373-4	3-4
SDSU Core: Goal 4**, Science and Sci Methods,	
p. 412	or 2
CST Electives3	3
General Electives	3
Junior and Senior Year	
Thea 351, Directing	
Thea 397, Theatre Arts Management or	
Thea 445, Advanced Acting3	
Thea 485, Summer Theatre (Su ONLY)5	
SDSU Core: Goal 2**, Human Community, p. 392	
SDSU Core: Goal 5**, Stewardship, p. 412-3	
CST Electives8	•

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- All students must demonstrate advanced Information Technology Literacy (ITL). Numerous departmental courses fulfill this requirement, as do courses from other departments.

Requirements for Communication Studies and Theatre Minor: 20 cr (Theatre Option, 19 cr)

20 (or 19) semester credits including SpCm 101, approved by the department head. Not more than 8 credits chosen from activity courses (RTVF 144-445, SpCm 281, Thea 135, 145, 195, and 490) may be counted.

Computer Science (CSc) Major and Minor

Gerald Bergum Department of Computer Science Administration Building 133C 605-688-5719

Requirements for Computer Science Major		
Bachelor of Science in Computer Science		
Freshman Year F		S
CSc 150, Computer Science I		
CSc 250, Computer Science II		3
Engl 101*, Composition I	or	3
GE 101, Introduction to Engineering and Technology		1
Math 123*, Calculus I5		
Math 224, Calculus II		4
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-37 and		
SDSU Core: Goal 4**, Liberal Studies, p. 41		
(5 credits)3		3
Gen Ed Social Science*, pp. 35-373		3
Sophomore Year F	•,	S
CSc 241, Computer Logic		
CSc 285, Data Structures3		

CSc 290, Programming Languages 3 CSc 314, Assembly I 3 Engl 201*, Composition II 3 Math 215, Matrix Algebra 2	3
Math 253, Logic and Set Theory	3
Math 345, Topics in Discrete Mathematics	2
Gen Ed Natural Science*, pp. 35-373	3
SDSU Core: Goal 2**, Natural Science, p. 39	2
SDSU Core: Goal 3**, Social Science, p. 40	3
Junior Year F	S
CSc 303, Introduction to Ethical Issues in	
Computer Science	2
CSc 328, Introduction to Automata Theory3	
CSc 354, Introduction to Systems Programming3	
CSc 428, Compiler Construction	. 3
Math 373, Introduction to Numerical Analysis	3
Stat 281, Statistical Methods I+3	
Applied Electives++3	. 3
Electives4	4
Senior Year F	S
School real	3
CSc 426, Computer Architecture & Organization	3.
CSc 484, Database Management Systems	3.
CSc 456, Operating Systems3	0
CSc 470, Software Engineering	. 3
SDSU Core: Goal 1**, Wellness, p. 39	2
Applied Electives++6	4
Electives6	

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- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- +May substitute Math 381.
- ++Courses numbered 300 or above chosen from your field of study with at least half of the credits from computer science courses.

Curriculum for Secondary Computer Science Teach	ing		
Freshman Year	. F		\mathbf{S}
CSc 150, Computer Science I	3		
CSc 250, Computer Science II			3
Engl 101*, Composition I	3	or	3
Math 123*, Calculus I	5		
Math 224, Calculus II			4
SpCm 101-101A*, Fundamentals of Speech and Lab .	3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-37 and			
SDSU Core: Goal 4**, Liberal Studies, p. 41			
(5 credits)	3		. 3
Gen Ed Social Science*, pp. 35-37	. 3		
SDSU Core: Goal 3**, Social Science, p. 40			3
Sophomore Year	${f F}$		\mathbf{S}
CSc 241, Computer Logic	3		
CSc 285, Data Structures	3		
CSc 290, Programming Languages			3
CSc 314, Assembly I	3		
Engl 201*, Composition II	3		

Math 215, Matrix Algebra	Construction Management (CM	[]
Math 345, Topics in Discrete Mathematics		1
Psyc 101*, General Psychology	Major	
Gen Ed Natural Science*, pp. 35-37	Reza Maleki, Head	
SDSU Core: Goal 2**, Natural Science, p. 39	John Reposa, Program Coordinator	
2	Department of Engineering Technology	
Junior Year F S	Department of Engineering Technology and Management Wenona Hall 301	
CSc 328, Introduction to Automata Theory3	605-688-6112	
CSc 354, Introduction to Systems Programming3	003-000-0112	
CSc 456, Operating Systems3	Requirements for Construction M.	
EdFn 365, Integrating Computers into the Curriculum 2	Requirements for Construction Management Major	
EdFn 375, Human Relations3	Bachelor of Science in Construction Management Freshman Year	
EPsy 302, Educational Psychology		S
Hist 368, History of the American Indians or	Acct 210, Principles of Accounting I	
Anth 421, Indians of North America	Acct 211, Principles of Accounting II	3
Math 373, Introduction to Numerical Analysis	Chem 106-107*, Chemistry Survey and Lab	
SeEd 287, Practicum & Professional Lab2	CSc 312, Advanced Microcomputer Applications	3
SeEd 314, Supervised Clinical/Field Experience 1	Engl 101*, Composition I	
SeEd 420, Teaching Special Needs Students	GE 101, Introduction to Engineering and Technology1	
CoDd 450 Translation CD 19	GE 121, Engineering Design Graphics I	
CINCII Cama, Caral 1 44 XXI 11 00	Math 113*, College Algebra & Trigonometry5	
3DSU Core: Goal 1**, Wellness, p. 39	Math 222**, Calculus for Non-Math Majors	5
Senior Year F S	Phil 220*, Introduction to Ethics, (G)	3
	SpCm 101-101A*, Fundamentals of Speech and Lab	3
CSc 428, Computer Architecture & Organization		
CSc 428, Compiler Construction	Sophomore Year F S	3
CSc 470, Software Engineering	CM 216-216A, Construction Materials and Lab	
CSc 480, Methods for Teaching Computer Science 3	CM 232, Plans, Specifications and Blueprint Reading	
SeEd 400, Curriculum & Instruction in Secondary	Econ 201* Microeconomics Principles or	•
Schools3	Econ 202*, Macroeconomics Principles3	
SeEd 410, Social Foundations, Management & Law2	Engl 379*, Technical Communications	2
SeEd 488, Supervised Teaching Internship10	GE 122, Engineering Design Graphics II1	,
Stat 281, Statistical Methods I+	GF 123 Computer Aided Descript	,
Electives	MINIETT OAT OATA A 11 13 E 1 1 A 2 A 2	
	Phys 111-112*, Introduction to Physics I and Lab4)
The 30 credit Board of Regents General Education requirements (Gen Ed) must be	Gen Ed Social Science, pp. 35-37, (G)3	
completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).	Gen Ed Unmonities and Eine A 4 th or on	
	SDSU Core: Goal 1**, Wellness, p. 39	,
(G) The BOR General Education requirements include an International/Global Diversity	SDSU Core: Goal 5** Stowardship - 41	
requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements.	SDSU Core: Goal 5**, Stewardship, p. 41	
See pages 35-37 for details.	Junior Year F C	
**04. D. L	r 5	
**South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement	BAdm 350 Legal Envir. of Business and Contracts 3	1
(SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).	CM 210-210A, Construction Surveying and Lab4	
	CM 320-320A, Construction Soil Materials and Hydrology	
Students must take the proficiency examination after completing 48 credits. English 101, and	and Lab	
a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.	CM 321-321A, Strength of Materials and Lab3	
	CM 332-332A, Building Systems in Construction & Lab 3	
+May substitute Math 381.	CM 333, Practical Hydrology and Hydraulics3	
Powertenness of C. C. and C. and C. and C. and C. C. and C. C. and C.	CM 352, Cost Estimating I	
Requirements for Computer Science Minor: 21 cr	CM 353, Structural Theory for Technologists	
CSc 150, Computer Science I	CM 374, Construction Method and Equipment3	
CSc 250, Computer Science II	SDSU Core: Goal 3**, Human Spirit, p. 402	
CSc 285, Data Structures	Technical Elective (from approved CM program list) 3	
Applied Electives*	11	
	Senior Year F S	
* 3 credits from one's discipline may be used subject to approval by adviser and	BAdm 334, Small Business Management	
department head.	CM 400, Risk Management and Construction Safety3	
	CM 410, Construction Supervision	
	CM 442 Construction Discussion at 1.1.1.1.1	
	CM 452, Cost Estimating II	
	CM 473 Construction Management	
	CM 475 Transfer and the Administration of the contract of the	
·	SDSU Core: Goal 2** Human Community = 20	
•	SDSU Core: Goal 2**, Human Community, p. 39	
	Technical Electives (from approved CM program list)3 3 Note: Students are required to have a minimum grade of "C" in all of the courses that are	
	designated as prerequisites for the required courses.	
138 Major and Minor Requirements		

Business Minor Option

Students enrolled in the Construction Management program have the option to obtain the Business minor offered through the Economics Department, pp (Econ). With proper planning, the students can fulfill the Business minor requirements and without exceeding the 128 credits required for Construction Management majors.

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Consumer Affairs (CA) Major and **Minor**

Mary Kay Helling Department of Human Development, Consumer and Family Sciences NFA 369 605-688-6418

Requirements for Consumer Affairs Major		
Bachelor of Science in Family and Consumer Sciences		
Freshman Year F		S
CA 130 Coping Skills for Consumers2		
CA 150, Early Experience		1
Engl 101*, Composition I3	or	3
FCS 101, Family and Consumer Sciences: Professional		
Foundations1	or	1
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Natural Science*, pp. 35-373		3
Gen Ed Social Science*, pp. 35-37, (G)3	or	3
Gen Ed Humanities*, pp. 35-37, (G)3	or	3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
SDSU Core: Goal 2**, Human Community, p. 392	or	2
Electives2	or	2
· ·		
Sophomore Year F		S
CA 291, Consumers and the Market3	or	3
Econ 202*, Macroeconomics Principles or		
Econ 201, Microeconomics Principles3	or	3
Engl 201*, Composition II3	or	3
HDCF 241, Family Relations3	or	3
College of Family and Consumer Sciences Electives3		3
Gen Ed Humanities*, pp. 35-373	or	3
SDSU Core: Goal 3**, Human Spirit, p. 402	or	2
SDSU Core: Goal 4**, Science and Sci Methods, p. 412	or	2
Business Electives3		
Electives3		3
Junior Year F		S
BAdm 350, Legal Environment of Business & Contracts 3	or	\3
BAdm 360, Organization and Management3	or	3.
CA 340, Work, Time, and Energy Decisions		3
CA 341, Management Personal/Family Living3		

CA 381, Social Skills in the Business Environment2 CA 450, Consumer Protection3	or	2
FCSE 421, Adult Education		2
College of Family and Consumer Sciences Electives		3
Business Electives3		3
Electives3		2
Senior Year F		S
CA 371, Issues in Consumer Affairs2		
CA 412, Strategies for Consumer Affairs Professionals		3
CA 421 Diversity in the Workplace3		
CA 442, Family Resource Management Lab		
CA 487, Transition to the Professional World1		
CA 495, Internship		10
College of Family and Consumer Sciences Electives3		
Business Electives3		
SDSU Core: Goal 5**, Stewardship, p. 412		

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+ These courses are only offered once a year. Deviations from the established program schedule can extend the time required to complete the program.

Counseling and Human Resource Development (CHRD)

Francis A. Martin

Department of Counseling and Human Resource Development Wenona Hall 113

wenona Hall 11 605-688-4190

e-mail: Francis_Martin@sdstate.edu

See Graduate Bulletin for requirements.

Criminal Justice	(CJus) Minor
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Donna Hess Department of Sociology Scobey Hall 224 605-688-4132

Requirements for Criminal Justice Minor: 18 cr+ CJus 201, Introduction to Criminal Justice	3
Soc 351, Criminology++ (P, Soc 100)	3
12 hours from:	
CJus 203, Police and Community Relations	3
CJus 331, Civil Rights and Liberties (P, PolS 100 or 101)	
CJus 333, Fundamentals of Criminal Procedure	3
CJus 334, Criminal Law	3
CJus 335, Criminal Prosecution and Defense	
CJus 336, Juvenile Justice	
CJus 416, Problems in Criminal Justice (P, Consent)	
Soc 325, Domestic Violence++	
Soc 354, Victimology++	
Soc 451, Juvenile Delinquency++	
Soc 452, Sociology of Corrections++	
Soc 460, Advanced Criminology++ (P, Soc 351)	
G 400 G : 1	

⁺ Must have a cumulative GPA of 2.2 to enter the program.

Soc 480, Sociology of Law++3

Curriculum and Instruction

Larry H. Brown
Department of Educational Leadership
Wenona Hall 107
605-688-6365
e-mail: Larry_Brown@sdstate.edu

See Graduate Bulletin for requirements.

Dairy Manufacturing (DS) Major

John Parsons
Department of Dairy Science
Dairy-Microbiology 109A
605-688-4116
e-mail: dairy_science@abs.sdstate.edu

Requirements for Dairy Manufacturing Major

Bachelor of Science in Agriculture		
Freshman Year F		S
Chem 106-107 Chemistry Survey and Lab or		
Chem 112-113, General Chemistry I and Lab4		
DS 130-130A, Introduction to Dairy Science and Lab3	or	3
Engl 101*, Composition I3	or	3
Math 102*, College Algebra or		
Math 113*, College Algebra & Trigonometry	3	3-5
Soc 100*, Introduction to Sociology or		
Soc 150*, Social Problems, (G) or		
Soc 240*, Sociology of Rural America, (G) or		
Anth 210*, Cultural Anthropology, (G)3		
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3		3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Group I Electives3		3

Sophomore Year F		S
Bio 101-102*, Biology Survey I and Lab and		
Bio 103-104*, Biology Survey II and Lab3		3
Chem 120-121, Elementary Organic Chemistry and Lab 4		
DS 202, Dairy Products Judging		1
Econ 202*, Macroeconomics Principles3		
Engl 201*, Composition II		3
Micr 231-232**, General Microbiology and Lab		4
Social Science Elective3		
Electives3		5
Junior and Senior Years F		. S
Acct 210, Principles of Accounting I		3
AST 443, Food Process & Engineering Fundamentals3		
CSc 105, Introduction to Computers or		
CSc 150, Computer Science I		3
DS 313-313A, Technical Control of Dairy Products I		5
and Lab and		•
DS 422-422A, Technical Control of Dairy Products		
II and Lab3		4
DS 301-301A, Dairy Microbiology and Lab		3
DS 321-321A, Dairy Product Processing I and Lab and		5
DS 322-322A Dairy Product Processing II and Lab5		5
DS 421, Dairy Plant Management		5
DS 490, Dairy Seminar		
DS 496, Field Experience		
Micr 311-311A, Food Microbiology and Lab4		
Phys 101-102, Survey of Physics and Lab or		
Phys 111-112, Introduction to Physics I and Lab or		
Phys 211-212, University Physics I and Lab or		
		2
Group I Electives	or	2
Economics, Business Administration, or Statistics		2
Electives+		3
SDSU Core: Goal 2**, Human Community, p. 392		2
SDSU Core: Goal 3**, Human Spirit, p. 40	or	2
SDSU Core: Goal 5**, Stewardship, p. 40	or	_
Elective '	or	2
131ccuve3	or	3

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

⁺⁺ May not be used for both a Sociology Major or Minor and a Criminal Justice Minor.

⁽G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

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^{***}Communication elective to be selected from: Engl 379; MCom 210, 313, 315, 331; SpCm 315, 334.

⁺Economics, Business Administration, or Statistics electives to be selected from: BAdm 310, 351, 360, 380; Econ 330, 370, 433, 467; Stat 281.

Dairy Production (DS) Major

John Parsons Department of Dairy Science Dairy-Microbiology 109A 605-688-4116

e-mail: dairy_science@abs.sdstate.edu

e-mail: dairy_science@abs.sdstate.edu		
Requirements for Dairy Production Major Bachelor of Science in Agriculture		
Freshman Year F		S
Chem 106-107, Chemistry Survey and Lab or		
		4
Chem 112-113, General Chemistry I and Lab		
DS 130-130A, Introduction to Dairy Science and Lab3	or	3
DS 212, Dairy Cattle Evaluation		2
Engl 101*, Composition I3	or	3
Math 102*, College Algebra or		
Math 113*, College Algebra & Trigonometry3-5		
PS 103-103A, Crop Production and Lab		3
Soc 100*, Introduction to Sociology or		
Soc 150*, Social Problems, (G) or		
Soc 240*, Sociology of Rural America, (G) or		
Anth 210*, Cultural Anthropology, (G)		3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3	OI	3
		2
SDSU Core: Goal 1**, Wellness, p. 39		Z
Sophomore Year F		S
AS 233-233A, Applied Animal Nutrition and Lab4		
Bio 101-102*, Biology Survey I and Lab and		
Bio 103-104*, Biology Survey II and Lab3		3
Chem 120-121, Elementary Organic Chemistry and Lab 4		
DS 202, Dairy Products Judging		1
Econ 202*, Macroeconomics Principles3		
Engl 201*, Composition II3		
Micr 231-232**, General Microbiology and Lab		4
Phys 101-102, Survey of Physics and Lab or		٠
Phys 111-112, Introduction to Physics I and Lab or		
Phys 111-112, introduction to Physics I and Lab or		4
Phys 211-212, University Physics I and Lab		4
PS 213-213A Soils and Lab		
Junior & Senior Years F		S
Julion of Collins Tours		
AgEc 271-271A, Farm & Ranch Management and Lab		4
AS 323, Advanced Animal Nutrition		3
AS 332-332A, Principles of Animal Breeding and Lab		4
AS 433-433A, Livestock Reproduction and Lab3		
Bio 371, Genetics3		
CSc 105, Introduction to Computers or		
CSc 150, Computer Science I3		
DS 301-301A, Dairy Microbiology and Lab		3
DS 411, Dairy Breeds & Breeding		2
DS 412, Dairy Farm Management3		_
		3
DS 413, Physiology of Lactation		3
DS 432, Dairy Cattle Feeding		3
DS 490, Dairy Seminar1		
DS 496, Field Experience3		
Vet 223-223A, Anatomy & Physiology of Livestock		
and Lab		4
Communications Elective***2		
SDSU Core: Goal 2**, Human Community, p. 392	or	2
SDSU Core: Goal 3**, Human Spirit, pp. 402	or	2
SDSU Core: Goal 5**, Stewardship, p. 412	or	2
Social Science Elective	or	3
Electives	O1	. 5
Electives		

The following options have been approved for the curricula in Agriculture. Students may use elective credits in the major to fulfill requirements for the option.

requirements for the option.
Business Option Acct 210, Principles of Accounting I
Plus 12 hours to be chosen from: 3 Acct 211, Principles of Accounting II 3 AgEc 354, Agricultural Marketing & Prices 3 BAdm 310, Business Finance 3 BAdm 380, Personal Finance 3 Econ 330, Money & Banking 3 Econ 370, Marketing 3 Econ 476, Marketing Research 3 Stat 281, Statistical Methods I, or equivalent 3
Science Option Chemistry, Mathematics and/or Physics
Biological Science to be selected from the following areas: Botany, Entomology-Zoology or Plant Pathology
The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk ().
(G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk ().
Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
***Communication elective to be selected from: Engl 379; MCom 210, 313, 315, 331; SpCm 315, 334.
(Pre-) Dental Nels Granholm Department of Biology and Microbiology Northern Plains Biostress Laboratory, 214 605-688-4554 e-mail: nels-granholm@sdstate.edu
Suggested Pre-Dental Plan of Study
Freshman Year F S Chem 112-113*, General Chemistry I and Lab 4 Chem 114-115*, General Chemistry II and Lab 4
Engl 101*, Composition I and SpCm 101-101A*, Fundamentals of Speech and Lab 3 Math 102*, College Algebra and Math 120*, Trigonometry or Math 113*, Algebra and Trigonometry or Placement in Calculus
Math 123*, Calculus I
Gen Ed Humanities and Fine Arts*, pp. 35-37

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Sophomore Year	F		S	HDCF 493, Current Topics: Foundations of Early		
Bio 151-152*, General Biology I and Lab and				Childhood and Kindergarten Education3	or	3
Bio 153-154*, General Biology II and Lab	.4		4	Gen Ed Natural Science*, pp. 35-373	or	3
Engl 201*, Composition II	.3	or	3	Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3	or	3
Phys 111-112*, Introduction to Physics I and Lab and				SDSU Core: Goal 2**, Human Community, p. 393	or	3
Phys 113-114*, Introduction to Physics II and Lab.			4	SDSU Core: Goal 3**, Human Spirit, p. 40	or	3
Psyc 101*, General Psychology	.3	or	3	Electives2	or	2
SDSU Core: Goal 3**, Human Spirit, p. 40	.2	or	2			
SDSU Core: Goal 5**, Stewardship, p. 41	.2	or	2	Junior Year F		\mathbf{S}
T 1 T7 W 0 1 T7				Anth 421**, Indians of North America		3
Junior Year and/or Senior Year				EdFn 365, Integrating Computers into the Curriculum3	or	3
Chem 326-327, Organic Chemistry I and Lab and				EdFn 375, Human Relations3	or	3
Chem 328-329, Organic Chemistry II and Lab			4	HDCF 361, Methods/Materials Early Childhood		
Plan courses according to your SDSU Catalog and mag	jor re	equire	ments	Education***	or	4
and the dental college catalog of your choice.	c D c	YTT	.	HDCF 362, Early Childhood Education Curriculum***4	or	4
Students not planning to obtain a B.S. degree from admission to dental school should consult their advise				HDCF 364, Parent/Child Relationships in a Professional		_
alternate plan of study.	er to	desi	gn an	Context	or	3
anemate plan of study.				HDCF 466, Early Childhood Special Education I3		
*The 30 credit Board of Regents General Education requirements	(Gen	Ed) n	nust be	HDCF 487, Orientation to Child and Family Services		
completed as part of a students first 64 credits. See pages 35-37 for	details	. Cour	ses that	Practicum		
are part of these credits are indicated by an asterisk (*).				Electives	or	3
(G) The BOR General Education requirements include an Internation	al/Glo	bal Di	iversity	Electives2		2
requirement of 6 credits. Courses may count toward both the				Senior Year F		6
Diversity requirement and the social science and/or humanities and fin See pages 35-37 for details.	ne arts	require	ements.	HDCF 441, Professional Issues Child and Family Study 3	or	S
				HDCF 455, Administration and Supervision in Early	OI	3
**South Dakota State University has a 10 credit SDSU Institutional Grad (SDSU Core). See pages 39-41 for details. These requirements are in				Childhood Settings	or	3
asterisk (**).	idicate	аруа	double	HDCF 465, Introduction to Developmental Assessment	OI	3
Otradous and the Color of the C				of Young Children***	or	3
Students must take the proficiency examination after completing 48 credi a course in each of the General Education areas of social science, n	its. En nathen	glish l natics	01, and	HDCF 472, Student Teaching in Preschool Programs*** 8	or	8
science, and humanities and fine arts must be taken prior to taking th	is exa	m.	· · · · · · · · · · · · · · · · · · ·	HDCF 497, Practicum8	or	8
				,	٠.	
				Electives7	or	7
Early Childhood Education	n			*The 30 credit Board of Regents General Education requirements (Gen completed as part of a students first 64 credits. See pages 35-37 for details, are part of these credits are indicated by an asterisk (*).	Ed) mi	ust be es that
Early Childhood Education Major	n			*The 30 credit Board of Regents General Education requirements (Gen completed as part of a students first 64 credits. See pages 35-37 for details. are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Glol	Ed) mi Course	ust be es that
Major	n			 *The 30 credit Board of Regents General Education requirements (Gen completed as part of a students first 64 credits. See pages 35-37 for details. are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Glol requirement of 6 credits. Courses may count toward both the International Diversity requirement and the social science and/or humanities and fine arts of the contraction. 	Ed) mi Course bal Div	ust be es that versity Global
Major Mary Kay Helling		lv Sci	ences	*The 30 credit Board of Regents General Education requirements (Gen completed as part of a students first 64 credits. See pages 35-37 for details. are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Glol requirement of 6 credits. Courses may count toward both the Interna	Ed) mi Course bal Div	ust be es that versity Global
Major		ly Sci	ences	*The 30 credit Board of Regents General Education requirements (Gen completed as part of a students first 64 credits. See pages 35-37 for details. are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Glol requirement of 6 credits. Courses may count toward both the International Diversity requirement and the social science and/or humanities and fine arts a See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation	Ed) mi Course bal Div tional/G requires	ust be es that versity Global ments.
Major Mary Kay Helling Department of Human Development, Consumer and F		ly Sci	ences	*The 30 credit Board of Regents General Education requirements (Gen completed as part of a students first 64 credits. See pages 35-37 for details, are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Glol requirement of 6 credits. Courses may count toward both the Interna Diversity requirement and the social science and/or humanities and fine arts a See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation (SDSU Core). See pages 39-41 for details. These requirements are indicated	Ed) mi Course bal Div tional/G requires	ust be es that versity Global ments.
Major Mary Kay Helling Department of Human Development, Consumer and F NFA 369	'amil	ly Sci	ences	 *The 30 credit Board of Regents General Education requirements (General completed as part of a students first 64 credits. See pages 35-37 for details are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/GloI requirement of 6 credits. Courses may count toward both the International Diversity requirement and the social science and/or humanities and fine arts are pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation (SDSU Core). See pages 39-41 for details. These requirements are indicated asterisk (**). 	Ed) mu Course bal Div tional/Crequirer Required by a course	ust be es that versity Global ments.
Major Mary Kay Helling Department of Human Development, Consumer and F NFA 369 605-688-6418	^r amil	ly Sci	ences	 *The 30 credit Board of Regents General Education requirements (General completed as part of a students first 64 credits. See pages 35-37 for details, are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Glol requirement of 6 credits. Courses may count toward both the Internative Diversity requirement and the social science and/or humanities and fine arts a See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation (SDSU Core). See pages 39-41 for details. These requirements are indicated asterisk (**). Students must take the proficiency examination after completing 48 credits. Eng 	Ed) mi Course bal Div tional/Grequires Required by a course	ust be es that versity Global ments.
Mary Kay Helling Department of Human Development, Consumer and F NFA 369 605-688-6418 Requirements for Early Childhood Education Major Bachelor of Science in Family and Consumer Science Freshman Year	famil es F	ly Sci	ences S	 *The 30 credit Board of Regents General Education requirements (General completed as part of a students first 64 credits. See pages 35-37 for details are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/GloI requirement of 6 credits. Courses may count toward both the International Diversity requirement and the social science and/or humanities and fine arts are pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation (SDSU Core). See pages 39-41 for details. These requirements are indicated asterisk (**). 	Ed) mi Course bal Div tional/G requirer Required by a course to the course glish 10 latics, in	ust be es that versity Global ments.
Mary Kay Helling Department of Human Development, Consumer and F NFA 369 605-688-6418 Requirements for Early Childhood Education Major Bachelor of Science in Family and Consumer Science Freshman Year CSc 105, Introduction to Computers	Familes F 3	ly Sci	,	 *The 30 credit Board of Regents General Education requirements (General completed as part of a students first 64 credits. See pages 35-37 for details, are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/GloI requirement of 6 credits. Courses may count toward both the International Diversity requirement and the social science and/or humanities and fine arts are See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation (SDSU Core). See pages 39-41 for details. These requirements are indicated asterisk (**). Students must take the proficiency examination after completing 48 credits. Enga course in each of the General Education areas of social science, mathem 	Ed) mi Course bal Div tional/G requirer Required by a course to the course glish 10 latics, in	ust be es that versity Global ments.
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Mary Kay Helling Department of Human Development, Consumer and F NFA 369 605-688-6418 Requirements for Early Childhood Education Major Bachelor of Science in Family and Consumer Science Freshman Year CSc 105, Introduction to Computers Engl 101*, Composition I FCS 101, Family and Consumer Sciences: Professional Foundations HDCF 150-150A, Early Experience and Lab HDCF 210*, Lifespan Development HDCF 327, Human Development and Personality I:	Famil F3 3 1 2 3	or	S 3 3	*The 30 credit Board of Regents General Education requirements (General completed as part of a students first 64 credits. See pages 35-37 for details. are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Glob requirement of 6 credits. Courses may count toward both the International Diversity requirement and the social science and/or humanities and fine arts a See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation (SDSU Core). See pages 39-41 for details. These requirements are indicated asterisk (**). Students must take the proficiency examination after completing 48 credits. Enga course in each of the General Education areas of social science, mathem science, and humanities and fine arts must be taken prior to taking this exam *** Taken concurrently. A pre-graduate check is required 1 semester before graduation semest At beginning of graduation semester, a graduation application must be A grade of "D" on courses in the major cannot be counted and cour repeated. Any required course with a department/program prefix is c	Ed) mr Course bal Div	ust be est hat versity Global ments. rement double 11, and natural letted.
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Mary Kay Helling Department of Human Development, Consumer and F NFA 369 605-688-6418 Requirements for Early Childhood Education Major Bachelor of Science in Family and Consumer Science Freshman Year CSc 105, Introduction to Computers Engl 101*, Composition I FCS 101, Family and Consumer Sciences: Professional Foundations HDCF 150-150A, Early Experience and Lab HDCF 210*, Lifespan Development HDCF 327, Human Development and Personality I: Childhood Psyc 101*, General Psychology	F33123	or or or	\$ 3 3 2 2 3 3 3	*The 30 credit Board of Regents General Education requirements (General completed as part of a students first 64 credits. See pages 35-37 for details, are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Glol requirement of 6 credits. Courses may count toward both the International Diversity requirement and the social science and/or humanities and fine arts as See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation (SDSU Core). See pages 39-41 for details. These requirements are indicated asterisk (**). Students must take the proficiency examination after completing 48 credits. Enga course in each of the General Education areas of social science, mathem science, and humanities and fine arts must be taken prior to taking this exam *** Taken concurrently. A pre-graduate check is required 1 semester before graduation semest At beginning of graduation semester, a graduation application must be A grade of "D" on courses in the major cannot be counted and cour repeated. Any required course with a department/program prefix is course in the major. A grade of "C" or better is required in Psyc 101, Engl 101, SpCm 10 Requirements for Early Childhood Education Major	Ed) mr Course bal Div	ust be est hat versity Global ments. rement double 11, and natural letted.
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Mary Kay Helling Department of Human Development, Consumer and F NFA 369 605-688-6418 Requirements for Early Childhood Education Major Bachelor of Science in Family and Consumer Science Freshman Year CSc 105, Introduction to Computers Engl 101*, Composition I FCS 101, Family and Consumer Sciences: Professional Foundations HDCF 150-150A, Early Experience and Lab HDCF 210*, Lifespan Development HDCF 327, Human Development and Personality I: Childhood Psyc 101*, General Psychology SpCm 101-101A*, Fundamentals of Speech and Lab Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) Gen Ed Mathematics*, pp. 35-37	F F333333	or or or or or or or	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	*The 30 credit Board of Regents General Education requirements (General completed as part of a students first 64 credits. See pages 35-37 for details, are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Gloi requirement of 6 credits. Courses may count toward both the International Diversity requirement and the social science and/or humanities and fine arts are See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation (SDSU Core). See pages 39-41 for details. These requirements are indicated asterisk (**). Students must take the proficiency examination after completing 48 credits. Enga course in each of the General Education areas of social science, mathem science, and humanities and fine arts must be taken prior to taking this exames the taken concurrently. A pre-graduate check is required 1 semester before graduation semest At beginning of graduation semester, a graduation application must be A grade of "D" on courses in the major cannot be counted and cour repeated. Any required course with a department/program prefix is a course in the major. A grade of "C" or better is required in Psyc 101, Engl 101, SpCm 10 Requirements for Early Childhood Education Major Cooperative Agreement with Black Hills State University Bachelor of Science in Family and Consumer Sciences	Ed) mr. Course bal Div titonal/Course the course the co	rersity Global ments. Global ments. rement double with an antiral letted. It is the seried a
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Mary Kay Helling Department of Human Development, Consumer and F NFA 369 605-688-6418 Requirements for Early Childhood Education Major Bachelor of Science in Family and Consumer Science Freshman Year CSc 105, Introduction to Computers Engl 101*, Composition I FCS 101, Family and Consumer Sciences: Professional Foundations HDCF 150-150A, Early Experience and Lab HDCF 210*, Lifespan Development HDCF 327, Human Development and Personality I: Childhood Psyc 101*, General Psychology SpCm 101-101A*, Fundamentals of Speech and Lab Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) Gen Ed Natural Science*, pp. 35-37 SDSU Core: Goal 1**, Wellness, p. 39 Sophomore Year Engl 201*, Composition II DCom 212, Language Development	Famil Famil F3 3 3 3 3 3 3 3 3 3 3	or or or or or or or or or	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	**The 30 credit Board of Regents General Education requirements (Gen completed as part of a students first 64 credits. See pages 35-37 for details. are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Gloi requirement of 6 credits. Courses may count toward both the International Diversity requirement and the social science and/or humanities and fine arts are pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation (SDSU Core). See pages 39-41 for details. These requirements are indicated asterisk (**). Students must take the proficiency examination after completing 48 credits. Eng a course in each of the General Education areas of social science, mathem science, and humanities and fine arts must be taken prior to taking this exam *** Taken concurrently. A pre-graduate check is required 1 semester before graduation semest At beginning of graduation semester, a graduation application must be A grade of "D" on courses in the major cannot be counted and cour repeated. Any required course with a department/program prefix is course in the major. A grade of "C" or better is required in Psyc 101, Engl 101, SpCm 10 Requirements for Early Childhood Education Major Cooperative Agreement with Black Hills State University Bachelor of Science in Family and Consumer Sciences Freshman Year FART 121*, Design I 3 Bio-101-102*, Biology Survey I and Lab 3 Engl 101*, Composition I 3 FCS 101, Family and Consumer Sciences: Professional Foundations 1 HDCF 210**, Lifespan Development 3 HDCF 150-150A, Early Experience and Lab 2	Ed) mr Course bal Div	ust be es that rersity Global ments. rement double of a natural letted. In the state of the stat

Psyc 101*, General Psychology	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-37	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) (must		•
meet cultural diversity requirements)3	or	3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Sophomore Year F		S
Engl 201*, Composition II3	or	3
Geog 131-131A*, Physical Geography I and Lab4	or	4
Geog 200*, Introduction to Human Geography, (G) or		
Geog 210*, World Regional Geography, (G)3	or	3
HDCF 241, Family Relations3	or	3
HDCF 327, Human Development I3		
HDCF 328, Experiences with Young Children		3
HDCF 493, Current Topics: Foundations of Early Childhood		
and Kindergarten Education3	or	3
Hlth 250-250A, First Aid and Lab	or	2
or		
NFSH/HDCF 293, Current Topics: Health, Safety,		
and Nutrition	or	3
Math 140, Survey of Mathematics	O1	3
Phys 101-102**, Survey of Physics and Lab or		3
Chem 100-100A**, World of Chemistry I and Lab4	0.0	4
Chem 100-100A***, World of Chemistry I and Lab4	or	4
PolS 100, American Government3	or	3
Innian Vacan		C
Junior Year F		S ·
Anth 421**, Indians of North America	or	3
EdFn 338, Foundations of American Education	or	2
Engl 312, Juvenile Literature3		
EPsy 302, Educational Psychology2		
HDCF 361, Methods/Materials Early Childhood		
Education***4	or	4
HDCF 362, Early Childhood Education Curriculum***4	or	4
HDCF 364, Parent/Child Relationships in a Professional		•
Context3	or	3
HDCF 371, Infants and Toddlers: DAP3		
Math 140, Survey of Math		3
Mus 351, Music Education I: Elementary Music2		
PE 360, Methods of Elementary School Physical Education		2
Math Elective3	or	3
SDSU Core: Goal 3**, Human Spirit, p. 402	or	2
Senior Year F		\mathbf{S}
EdFn 365, Integrating Computers into the Curriculum3	or	3
EdFn 375, Human Relations3	or	3
EPsy 303, Exceptional Child3	or	3
HDCF 400, Orientation to Cooperative Elementary		
Education		_
HDCF 441, Professional Issues in Child Family Study3		0
	or	0
HDCF 455, Administration and Supervision in Early	or	
HDCF 455, Administration and Supervision in Early Childhood Settings		3
Childhood Settings3	or or	
Childhood Settings	or	3
Childhood Settings	or or	333
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a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Courses taken at BHSU to meet state elementary education certification will require at least 2 additional semesters. Enroll in HDCF 400 (0 cr) while at BHSU.

***Taken concurrently.

A pre-graduate check is required 1 semester before going to BHSU.

Requirements for Early Childhood Education Major

At beginning of graduation semester, a graduation application from SDSU must be

A grade of "D" on courses in the major cannot be counted and course must be repeated. Any required course with a department/program prefix is considered a course in the major.

Students are required to have an overall GPA of 2.5 and have a "C" or better in Math 102, Engl 101, SpCm 101.

Students must meet all requirements for admission to Teacher Education Program at BHSU and SDSU. Students must successfully complete the PPST Exam or CAAP.

Cooperative Agreement with Dakota State University		
Bachelor of Science in Family and Consumer Sciences		
Freshman Year F		S
Bio 101-102*, Biology Survey I and Lab3		
CSc 105, Introduction to Computers3	or	3
Engl 101*, Composition I	or	3
FCS 101, Family and Consumer Sciences: Professional		
Foundations1		
HDCF 150-150A, Early Experience and Lab2	or	2
Hist 151, U.S. History to 1877 or Hist 152, U.S. History since 1877 PolS 100 American Government	or	3
	or	3
Psyc 101*, General Psychology3	or	3
SpCm 101-101A* Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-37	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3	or	3
SDSU Core: Goal 1**, Wellness, p. 39	or	2
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	_
Sophomore Year F		S
Art 121*, Design I	or	3
EdFn 338, Foundations of American Education	V	2
Engl 201*, Composition II	or	3
EPsy 302, Educational Psychology	OI	5
Geog 131-131A*, Physical Geography I and Lab4	or	4
HDCF 210**, Lifespan Development	or	3
HDCF 241, Family Relations	or	3
HDCF 327, Human Development I	O1	,
HDCF 328, Experience with Young Children		3
HDCF 493, Current Topics: Foundations of Early Childhood		5
and Kindergarten Education	or	3
Hlth 250-250A, First Aid and Lab	or	2
or	OI.	_
NFSH/HDCF 293, Current Topics: Health, Safety, and		
Nutrition	or	3
Gen Ed Social Science*, pp. 35-37, (G)	or	3
Gen Eu Social Science, pp. 55-57, (G)	OI	5
Junior Year F		S
Bio 103-104**, Biology Survey II and Lab or		G
Bot 201-202**, General Botany and Lab	or	3
Engl 312, Juvenile Literature	OI	
EPsy 303, The Exceptional Child	٥r	3
HDCF 361, Methods/Materials in Early Childhood	or	5
Education***	0"	1
HDCF 362, Early Childhood Education Curriculum***4	or	4
	or	4
HDCF 364, Parent/Child Relationship in a Professional		2
Context	or	3
HDCF 371, Infants and Toddlers: DAP	or	3
Mus 351, Music Education I: Elementary Music		2
PE 360, Methods of Elementary School Physical Education 3	or	3

Math Elective	.3 -3	or or 2	3 2-3
			-
Anth 421**, Indians of North America	F	_	S
EdFn 365, Integrating Computers into the Curriculum3		r	3
EdFn 375, Human Relations		_	3
HDCF 400, Orientation to Cooperative Elementary		•	J
Education Program0			0
HDCF 441, Professional Issues in Child/Family Studies 3			
HDCF 455, Administration and Supervision in Early			
Childhood Settings			
HDCF 465, Introduction to Developmental Assessment			
of Young Children***			
HDCF 472, Student Teaching in Preschool Programs*** 8			
The 30 credit Board of Regents General Education requirements (Ge completed as part of a students first 64 credits. See pages 35-37 for detai are part of these credits are indicated by an asterisk ().	n Ed) ls. Co	mu urse	st be s that
(G) The BOR General Education requirements include an International/G requirement of 6 credits. Courses may count toward both the Inter Diversity requirement and the social science and/or humanities and fine art See pages 35-37 for details.	nation	al/C	lobal
South Dakota State University has a 10 credit SDSU Institutional Graduatic (SDSU Core). See pages 39-41 for details. These requirements are indica asterisk ().	on Rec	quire a d	ement ouble
Students must take the proficiency examination after completing 48 credits. E a course in each of the General Education areas of social science, mathe science, and humanities and fine arts must be taken prior to taking this ex	matic	101 s, n	l, and atural
Courses taken at DSU to meet state elementary education cert require at least 3 additional semesters. Enroll in HDCF 400 (0 cr) v			
* Taken concurrently.		,	
A pre-graduate check is required 1 semester before going to DSU.			
At beginning of graduation semester, a graduation application from Scompleted.	SDSU	mu	st be
DSU requires at least a grade of "C" in Algebra and a 2.3 cumulative in Engl. Psyc, and Algebra.	sh, Sı	eec	h, Ed
An overall cumulative GPA of 2.5 is also required.			
A grade of "D" on courses in the major cannot be counted and course must be required course with a department/program prefix is considered a course in the			. Any
Students must meet all requirements for admission to Teacher Education Programmer	am at	DSU	Jand

Economics (Econ) Major and Minor and Business Option

Richard Shane
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Scobey Hall 136
605-688-4141
e-mail: janet wilson@sdstate.edu

e-man: janet_wnson@sustate.euu

http://econnet.sdstate.edu/dept/index.asp

Requirements for Economics Major Bachelor of Science in Arts and Science

Freshman Year	\mathbf{F}		\mathbf{S}
Engl 101*, Composition I	3	or	3
Math 102*, College Algebra			
SpCm 101-101A*, Fundamentals of Speech and Lab	3	or	3
SDSU Core: Goal 1**, Wellness, p. 39	2	or	2
Biological Science Electives*, pp. 35-37	3		3
Gen Ed Social Science*, pp. 35-37	3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-57, (G)	3		3
General Electives	5		4

Sophomore Year Acct 210, Principles of Accounting I		S
Acct 211, Principles of Accounting II	,	3
Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II	} }	3
Math 222, Calculus for Non-Math Majors or Math 123, Calculus I		3
Physical Science Elective**, pp. 39-41		4
Junior Year F Econ 301, Intermediate Microeconomics		S
Econ 302, Intermediate Macroeconomics		3
Econ 330, Money and Banking	or	3
Stat 281**, Statistical Methods I		
SpCm 201, Interpersonal Communication or SpCm 215, Public Speaking or		
SpCm 334, Discussion3	or	3
Business Economics Option Courses # and		
General Electives		7
Senior Year F	ľ	S
One of the following:		
Econ 404, History of Economic Thought or Econ 405, Comparative Economic Systems or		
Econ 440, Economics of the International Sector or		
Econ 460 Economic Development or		
Hist 377, Economic History of the U.S3		3
Econ 423, Statistics II		
Econ 428, Mathematical Economics		
Econ 433, Public Finance		-
SDSU Core: Goal 5**, Stewardship, p, 41		2-3
Electives in Acct, AgEc, BAdm, or Econ		6
Business Economics Option Courses # and General Electives		5-6
	•	, 0
# Business Economics Option Courses:		
Junior Year		2
Junior Year BAdm 310, Business Finance		3
Junior Year BAdm 310, Business Finance		3
Junior Year BAdm 310, Business Finance		
Junior Year BAdm 310, Business Finance		3
Junior Year BAdm 310, Business Finance		3 3 3
Junior Year BAdm 310, Business Finance		3
Junior Year BAdm 310, Business Finance BAdm 350, Legal Environment of Business & Contracts BAdm 360, Organization and Management Econ 370, Marketing Senior Year BAdm 324, Operations Research BAdm 482, Business Policy and Strategy Three of the option courses can be substituted for:		3 3 3
Junior Year BAdm 310, Business Finance BAdm 350, Legal Environment of Business & Contracts BAdm 360, Organization and Management Econ 370, Marketing Senior Year BAdm 324, Operations Research BAdm 482, Business Policy and Strategy Three of the option courses can be substituted for: Econ 423, Statistics II		3 3 3 4 3
Junior Year BAdm 310, Business Finance BAdm 350, Legal Environment of Business & Contracts BAdm 360, Organization and Management Econ 370, Marketing Senior Year BAdm 324, Operations Research BAdm 482, Business Policy and Strategy Three of the option courses can be substituted for: Econ 423, Statistics II Econ 428, Mathematical Economics		3 3 3 4 3 3
Junior Year BAdm 310, Business Finance BAdm 350, Legal Environment of Business & Contracts BAdm 360, Organization and Management Econ 370, Marketing Senior Year BAdm 324, Operations Research BAdm 482, Business Policy and Strategy Three of the option courses can be substituted for: Econ 423, Statistics II		3 3 3 4 3

Accelerated Masters Track

Outstanding students majoring in Agricultural Economics, Agricultural Business or Economics may complete their baccalaureate degree and Master of Science in Economics combined in five years. Students apply for admission to the combined program the fall semester of their junior year. Those admitted are graduate students that take 400/500 level courses at the graduate level (500) their fourth (senior) year (see below). See the SDSU Graduate Bulletin for complete details for the fifth year.

Adjustments to baccalaureate course requirements are a	e follo	*****	One of the following:		
Fourth Vear (Renlaces Senior Vear Above)	F	S S	One of the following:		
Fourth Year (Replaces Senior Year Above) Econ 423, Statistics II		S	SpCm 201, Interpersonal Communication or		
			SpCm 215, Public Speaking or		
Econ 428, Mathematical Economics	3		SpCm 334, Discussion3		_
Econ 433, Public Finance	3	or 3	Elective in Acct, BAdm, Ag Econ, Econ		3
Four of the following:			Business Economics Option Courses # or		
AgEc 521, Farming and Food Systems Economics			General Electives3		3
AgEc 571, Advanced Farm and Ranch Management					
Econ 504, History of Economic Thought			Senior Year F		S
Econ 520, Economics of the Public Sector			Econ 423, Statistics II		
Econ 531, Managerial Economics		•	Econ 428, Mathematical Economics3		
Econ 540, Economics of the International Sector			Econ 433, Public Finance	or	3
Econ 550, Industrial Organization			One of the following:		
Econ 560, Economic Development			Econ 404, History of Economic Thought or		4
Econ 572, Resource and Environmental Economics.		6	Econ 405, Comparative Economic Systems or		
SDSU Core: Goal 5**, Stewardship, p. 41		2-3	Econ 440, Economics of the International Sector or		
Business Economics Option Courses # and			Econ 460, Economic Development or		
General Electives	4	4-5	Hist 377, Economic History of the US3	or	3
			Engl 379, Technical Communications		3
*The 30 credit Board of Regents General Education requirements	(Gen I	Ed) must be	SDSU Core: Goal 5**, Stewardship, p. 412-3		
completed as part of a students first 64 credits. See pages 35-37 for	details.	Courses that	Electives in Acct, BAdm, AgEcon, Econ		3
are part of these credits are indicated by an asterisk (*).			Business Economics Option Courses # or		J .
(G) The BOR General Education requirements include an Internation	al/Glob	al Diversity	General Electives		4
requirement of 6 credits. Courses may count toward both the			General Electives4-3		4
Diversity requirement and the social science and/or humanities and fit See pages 35-37 for details.	ne arts r	equirements.	# Puginoga Faconomica Ontion Courses		
bee pages 33 37 for details.			# Business Economics Option Courses: Junior Year		
**South Dakota State University has a 10 credit SDSU Institutional Grad	duation l	Requirement			
(SDSU Core). See pages 39-41 for details. These requirements are in asterisk (**).	ndicated	by a double	BAdm 310, Business Finance		3
asterisk (').			BAdm 350, Legal Environment of Business & Contracts		3
Students must take the proficiency examination after completing 48 cred	lits. Engl	lish 101, and	BAdm 360, Organization and Management		3 3 .
a course in each of the General Education areas of social science, i			Econ 370, Marketing		3 .
science, and humanities and fine arts must be taken prior to taking the	ns exam	1.			:
			Senior Year		
Requirements for Economics Major			BAdm 324, Operations Research		4
Bachelor of Arts in Arts and Science			BAdm 482, Business Policy and Strategy		3 ·
Freshman Year	F	S	Three of the option courses can be substituted for:		
Engl 101*, Composition I	3	or 3			•
	•••	OL 3	Fcon 423 Statistics II		4
Math 102*, College Algebra	3	OL 3	Econ 428, Mathematical Economics		3 .
Math 102*, College Algebra	3		Econ 428, Mathematical Economics		3
Math 102*, College Algebra	3 3	or 3			
Math 102*, College Algebra	3 3	or 3 or 2	Econ 428, Mathematical Economics		3
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37	3 3 2	or 3	Econ 428, Mathematical Economics	A 'ami as	3
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G)	3 3 2 4	or 3 or 2 4	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A		3 3 ultural
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)	3 3 2 4	or 3 or 2 4	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate	degre	3 3 ultural
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science	3 2 4	or 3 or 2 4 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stu	degre dents	3 3 ultural ee and apply
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)	3 2 4	or 3 or 2 4	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of	degre dents their	3 3 ultural ee and apply junior
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57	324	or 3 or 2 4 3 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400	degree dents their 0/500	3 3 ultural ee and apply junior level
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year	3 2 4 	or 3 or 2 4 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (degree dents their 0/500 see b	3 3 ultural ee and apply junior level elow).
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I	3 3 2 4 	or 3 or 2 4 3 3 3 S	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400	degree dents their 0/500 see b	3 3 ultural ee and apply junior level elow).
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II	3 2 4 4 F	or 3 or 2 4 3 3 3 S S 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stu for admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the	degree dents their 0/500 see b	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 201*, Microeconomics Principles	3 3 2 4 4 4 F	or 3 or 2 4 3 3 3 S	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as follows:	degree dents their 0/500 see b	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles	3 3 4 4 4 4 F 3	or 3 or 2 4 3 3 3 S S 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stu for admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above)	degree dents their 0/500 see b	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II	3 3 2 4 4 F 3 	or 3 or 2 4 3 3 3 8 S 3 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degree dents their 0/500 see b	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language***	3 3 2 4 4 F 3 	or 3 or 2 4 3 3 3 S S 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) F Econ 423, Statistics II	degree dents their 0/500 see b	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or	3 2 4 4 4 F 3 	or 3 or 2 4 3 3 3 8 S 3 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degree dents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I	3 2 4 4 4 F 3 	or 3 or 2 4 3 3 3 8 S 3 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degredents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I Gen Ed Humanities and Fine Arts*, pp. 35-37 and	3 2 4 4 4 3 3 3 3	or 3 or 2 4 3 3 3 S S 3 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degredents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I	3 2 4 4 4 3 3 3 3	or 3 or 2 4 3 3 3 8 S 3 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degredents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I Gen Ed Humanities and Fine Arts*, pp. 35-37 and Arts and Science requirements, pp. 56-57	3 3 2 4 4 4 3 3 3	or 3 or 2 4 3 3 3 S S 3 3 4 4	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, ABusiness or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degredents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I Gen Ed Humanities and Fine Arts*, pp. 35-37 and Arts and Science requirements, pp. 56-57	3434345	or 3 or 2 4 3 3 3 S S S S S S S S S S S S S S S S	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, ABusiness or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degredents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I Gen Ed Humanities and Fine Arts*, pp. 35-37 and Arts and Science requirements, pp. 56-57 Junior Year CSc 312, Advanced Microcomputer Applications	3 2 4 4 3 3 3 3 4 5	or 3 or 2 4 3 3 3 S S 3 3 4 4	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, ABusiness or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degredents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I Gen Ed Humanities and Fine Arts*, pp. 35-37 and Arts and Science requirements, pp. 56-57 Junior Year CSc 312, Advanced Microcomputer Applications Econ 301, Intermediate Microeconomics	33434345	or 3 or 2 4 3 3 3 S S 3 S S 3 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stu for admission to the combined program the fall semester of year. Those admitted are graduate students that take 40c courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degredents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I Gen Ed Humanities and Fine Arts*, pp. 35-37 and Arts and Science requirements, pp. 56-57 Junior Year CSc 312, Advanced Microcomputer Applications Econ 301, Intermediate Microeconomics Econ 302, Intermediate Macroeconomics	3343345 F34	or 3 or 2 4 3 3 3 S S S S S S S S S S S S S S S S	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degredents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I Gen Ed Humanities and Fine Arts*, pp. 35-37 and Arts and Science requirements, pp. 56-57 Junior Year CSc 312, Advanced Microcomputer Applications Econ 301, Intermediate Microeconomics Econ 302, Intermediate Macroeconomics Econ 330, Money and Banking	33244433345	or 3 or 2 4 3 3 3 S S 3 S S 3 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stu for admission to the combined program the fall semester of year. Those admitted are graduate students that take 40c courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degredents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I Gen Ed Humanities and Fine Arts*, pp. 35-37 and Arts and Science requirements, pp. 56-57 Junior Year CSc 312, Advanced Microcomputer Applications Econ 301, Intermediate Microeconomics Econ 302, Intermediate Macroeconomics Econ 330, Money and Banking Stat 281**, Statistical Methods I	33244433345	or 3 or 2 4 3 3 3 S S 3 3 S S 3 3 3 S S 3 3 S S S 3 3 S	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degredents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I Gen Ed Humanities and Fine Arts*, pp. 35-37 and Arts and Science requirements, pp. 56-57 Junior Year CSc 312, Advanced Microcomputer Applications Econ 301, Intermediate Microeconomics Econ 302, Intermediate Macroeconomics Econ 330, Money and Banking	33244433345	or 3 or 2 4 3 3 3 S S 3 S S 3 3	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degredents their 0/500 see b fifth	3 3 ultural ee and apply junior level elow). year.
Math 102*, College Algebra SpCm 101-101A*, Fundamentals of Speech and Lab SDSU Core: Goal 1**, Wellness, p. 39 Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) General Electives and Arts and Science requirements, pp. 56-57 Sophomore Year Acct 210, Principles of Accounting I Econ 201*, Microeconomics Principles Econ 202**, Macroeconomics Principles Engl 201*, Composition II Modern Language*** Math 222, Calculus for Non-Math Majors or Math 123, Calculus I Gen Ed Humanities and Fine Arts*, pp. 35-37 and Arts and Science requirements, pp. 56-57 Junior Year CSc 312, Advanced Microcomputer Applications Econ 301, Intermediate Microeconomics Econ 302, Intermediate Macroeconomics Econ 330, Money and Banking Stat 281**, Statistical Methods I	33244433345	or 3 or 2 4 3 3 3 S S 3 3 S S 3 3 3 S S 3 3 S S S 3 3 S	Econ 428, Mathematical Economics One of the electives in Acct, AgEc, BAdm, or Econ Accelerated Masters Track Outstanding students majoring in Agricultural Economics, A Business or Economics may complete their baccalaureate Master of Science in Economics combined in five years. Stufor admission to the combined program the fall semester of year. Those admitted are graduate students that take 400 courses at the graduate level (500) their fourth (senior) year (See the SDSU Graduate Bulletin for complete details for the Adjustments to baccalaureate course requirements are as foll Fourth Year (Replaces Senior Year Above) Fecon 423, Statistics II	degree dents their 0/500 see be fifth dows:	3 3 ultural ee and apply junior level elow). year. S 3 3

Business Economics Option Courses # and		
General Electives2-3	.3	

The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk ().

- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10-credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- ***Modern Language: 6-14 credits with completion of 201-202.

Requirements for Economics Minor: 21-24 cr Econ 201, Microeconomics Principles 3 Econ 202, Macroeconomics Principles 3 Econ 301, Intermediate Microeconomics, or Econ 302, Intermediate Macroeconomics 3 Two courses selected from courses prefixed: AgEc or Econ 6-7 Two of the following: 6-8 Math 381, Mathematical Statistics (4) or Stat 281, Statistical Methods I (3) or Courses prefixed Acct, AgEc, BAdm, or Econ (3-4)

International Studies. For the international option in agriculture, refer to page 129. A Modern Language/Business-Economics specialization is available for all students majoring in Agricultural Business, Agricultural Economics or Economics or minoring in Economics. The specialization requires a minimum of twenty credit hours from the following courses in addition to the specified courses in the major or minor.

Core Courses:

Two courses in any one language	8	
ML 134, Foreign Cultures (topical)	3	
Span 383, Business Spanish or		
French or German Counterpart	2-3	
-	13	
An additional seven credit hours chosen from approved list.		
See any Economics Dept. adviser for approved courses	7	
	20	

Business Area Studies. Students preparing for various positions in management and business should consult the list of courses under Business Area Studies. Many of the courses listed there are offered by departments other than the Department of Economics and are of more specific interest to students in majors outside this department.

Educational Administration (EdAd)

Larry H. Brown
Department of Educational Leadership
Wenona Hall 107
605-688-6365
e-mail: Larry_Brown@sdstate.edu

See Graduate Bulletin for requirements.

Electrical Engineering (EE) Major

Lewis Brown Department of Electrical Engineering Harding Hall 201 605-688-4526

Requirements for Electrical Engineering Major Bachelor of Science in Electrical Engineering

(Accredited by the Engineering Accreditation Commission of Board for Engineering and Technology)	the	Accreditation
Freshman Year	F	S
Chem 112-113*, General Chemistry I and Lab and		
Chem 114, General Chemistry II		3
EG 121, Engineering Design Graphics I		
EG 123, Computer Aided Design and Graphics	•••	1
Engl 101*, Composition I and	2	2
SpCm 101-101A*, Fundamentals of Speech and Lab		3
GE 101**, Introduction to Engineering and Technology Math 123*, Calculus I and	1	
	5	4
Math 224, Calculus II		4
Gen Ed Social Science*, pp. 35-37		4
Gen Ed Humanities and Fine Arts*, pp. 35-37		3
Gen Ed Humanides and Pine Arts ¹ , pp. 33-37	••	3
Sophomore Year	F	S
CSc 218, Introduction to C/C++/UNIX for Engineers	••	3
EE 220, Circuits I and	_	2
EE 221, Circuits II	3	3
EE 222, Circuits Laboratory I and	1	1
EE 223, Circuits Laboratory II	I	1
EE 260**, Materials Science for EE's		2
Engl 379*, Technical Communications		
Math 225, Calculus III		3
Math 321, Differential Equations Phys 213-214**, University Physics II and Lab		3
Gen Ed Social Science*, pp. 35-37		
Gen Ed Humanities and Fine Arts*, pp. 35-37		3
SDSU Core: Goal 1**, Wellness, p. 39		2
SDSO Colc. Goal 1 , Welliess, p. 37	•••	2
Junior Year	F	S
EE 316, Signals and Systems I and		
EE 317, Signals and Systems II	3	3
EE 320, Electronics I and		
EE 321, Electronics II	3	3
EE 322, Electronics Laboratory I and		
EE 323, Electronics Laboratory II		1
EE 345, Digital Systems		
EE 346, Digital Systems Laboratory		_
EE 347 Microcontroller Systems Design	•••	3
EE 348 Microcontroller Systems Design Laboratory		1
EE 360**, Electronic Devices		_
EE 385, Electromagnetics		3
EE 386, Electromagnetics Laboratory	• • •	1
Approved Math/Basic Science Elective (See EE	_	
Department List)		2
SDSU Core: Goal 2**, Human Community, p. 39	• •	2
Senior Year	F	S
EE 410, Probabilistic Methods in Electrical Engineering	_	3
EE 422, Engineering Economy		١
EE 430**, Energy Conversion		
EE 431**, Energy Laboratory		

EE 464**, Senior Design I and			
EE 465**, Senior Design II		2	
EM 223, Engineering Mechanics			
ME 314, Thermodynamics	or	3	
SDSU Core: Goal 3**, Human Spirit, p. 40		2	
Approved EE Technical Electives		5	
Electives		1	

The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk ().

(G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk ().

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

EE students receive educational experiences for understanding the relationship between the environment and society and stewardship. The principles of wise use of the environment; impact analyses of communities, organizations and society on environments; and the knowledge of the care for the environment are part of EE design courses, experiments, course projects and internships, cooperative education experiences, engineering technical tours and inspections, activities of professional engineering organizations and curriculum assignments. The primary courses that cover these activities are: GE 101, EE 260, EE 360, EE 430/431, EE 464/465, and EE 494. For Electrical Engineering students, these educational experiences fulfill the SDSU Stewardship requirement (SDSU Core: Goal 5, p. 41).

You should select EE technical electives to complement employment goals. At least ten credits of 400-level or higher EE electives are required for the Bachelor of Science degree. Following are some suggested areas and supporting courses.

Biomedical Engineering

Computers-Digital Hardware

EE 421, Electronics Laboratory III 1 EE 450, Biomedical Signal Processing 3 EE 454, Biomedical Instrumentation & Electrical Safety 3 Zool 221-222, Anatomy and Lab 3 Zool 325-325A, Mammalian Physiology and Lab 4 Communications & Advanced Electronics CSc 474, Computer Networks 3 EE 416, Passive and Active Filters 3 EE 420, Electronics III 3 EE 421, Electronics Laboratory III 1 EE 470, Communications Engineering 3 EE 471, Optical Fiber Communications 3 EE 472, Optical Fiber Communications Lab 1 Phys 361, Optics 3

 CSc 474, Computer Networks
 3

 EE 420, Electronics III
 3

 EE 421, Electronics Laboratory III
 1

 EE 440-440A, VLSI Circuit Design and Studio
 3

 Math 373, Introduction to Numerical Analysis
 3

Electronic Devices and Materials
Chem 342-344, 342A-344A, Physical Chemistry and Lab3, 5
EE 440-440A, VLSI Circuit Design and Studio
EE 460-460A, Sensor Theory and Design and Lab
EE 492, Microelectronic Device Fabrication Lab
EE 493, Surface Acoustic Wave Device Design
EE 493, Dielectric and Piezoelectric/Ferroelectric Materials3
EE 493, Microelectronic Packaging
Phys 331, Introduction to Modern Physics3
Phys 361, Optics
Phys 439, Physics of the Solid State
Phys 441, Science of Solids
Phys 471, Quantum Mechanics
Image Processing
EE 415, Linear Control Systems
EE 470, Communications Engineering3
EE 475, Digital Image Processing
EE 493, Data and Image Compression3
Math 373, Introduction to Numerical Analysis3
Math 381, Mathematical Statistics4
Phys 361, Optics3
Power Systems
EE 415, Linear Control Systems
EE 432, Power Systems3
EE 435, Seminar in Power Systems1
EE 470, Communications Engineering
EE 493, Power Electronics
EE 493, Power Technology Tour
Math 315, Linear Algebra3
Math 373, Introduction to Numerical Analysis
ME 362, Industrial Engineering

Cooperative Education Program

Students have the opportunity to work in industry and receive technical elective credit for the experience through EE 494. A formal work plan must be approved by the Department of Electrical Engineering prior to the work experience. Further information can be found in the Department's Cooperative Education policy.

Electronics Engineering Technology (EET) Major

Reza Maleki, Head Jerry Sorensen, Program Coordinator Department of Engineering Technology and Management Wenona Hall 311 605-688-6239

Requirements for Electronics Engineering Technology Ma	ajur	
Bachelor of Science in Electronics Engineering Technolog	y	*
Freshman Year F		S
EET 114-114A, DC Concepts4		
EET 116-116A, AC Concepts		4
EET 122-122A, Introductory Circuits and Lab		4
Engl 101*, Composition I	or	3
GE 101, Introduction to Engineering and Technology1		
Math 113*, College Algebra & Trigonometry5		,
Math 222, Calculus for Non-Math Majors		5
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3		

	·
Sophomore Year F S	**South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement
Econ 202*, Macroeconomics Principles	(SDSU Core). See pages 39-41 for details. These requirements are indicated by a double
	asterisk (**).
EET 220-220A, Advanced Circuits4	Chalant materials the section of the chalant for the control of th
EET 230-230A, Introductory Digital4	Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural
EET 232-232A, Advanced Digital	science, and humanities and fine arts must be taken prior to taking this exam.
Engl 201*, Composition II	······································
GE 120-120A, Engineering Drawing and CAD3	· ·
or	E-circoning Dhysics Major
	Engineering Physics Major
GE 121, Engineering Design Graphics I and	
GE 123, Computer Aided Drawing 1	Oren Quist
Phys 111-112*, Introduction to Physics I and Lab4	Department of Physics
Phys 113-114*, Introduction to Physics II and Lab 4	Crothers Engineering Hall 310A
Gen Ed Social Science*, pp. 35-37, (G)	605-688-5428
Gen Ed Humanities and Fine Arts*, pp. 35-373 or 3	
Och Ed Hamandos and Photo App. 55 57	Requirements for Engineering Physics Major
T	
Junior Year F S	Bachelor of Science in Engineering Physics
CSc 150, Computer Science I	Electrical Engineering Track
CSc 312, Advanced Microcomputer Applications3	Freshman Year F S
EET 320-320A, Analog Devices and Lab4	Chem 112-113*, General Chemistry I and Lab4
EET 330-330A, Microprocessors and Lab4	Chem 114*, General Chemistry II
<u>-</u>	GE 121, Engineering Design Graphics I
EET 370-370A, Computer Systems and Lab	
MNET 260, Production/Operations Management3	EG 123, Computer Aided Drawing
Stat 281**, Statistical Methods I	Engl 101*, Composition I3
SDSU Core: Goal 2**, Human Community, p. 39	GE 101, Introduction to Engineering and Technology 1
Technical Emphasis Elective	Math 123*, Calculus I5
Technical Emphasis Elective	Math 224, Calculus II
- · · · · ·	
Senior Year F S	
EET 472-472A, Networking Systems I and Lab4	SpCm 101-101A*, Fundamentals of Speech and Lab 3
EET 474-474A, Networking Systems II and Lab or	Gen Ed Social Science*, pp. 35-37, (G)3
EET 451-451A, Industrial Electronics and Control3	·
EET 453-453A, Manufacturing Automation and Lab or	Sophomore Year F S
	CSc 213, Introduction to Programming with FORTRAN or
BAdm 360, Organization and Management	
BAdm 334, Small Business Management and	CSc 218, Introduction to C/C++/UNIX for
MNET 462, Quality Management	Engineers
EET 440-440A, Prototyping Techniques and Lab4	EE 220, Circuits I
EET 426-426A, Communication Systems and Lab 4	EE 221, Circuits II
EET 469-469A, Project Management and Lab	EE 222, Circuits I Laboratory1
	EE 223, Circuits II Laboratory
Technical Emphasis Elective3	
SDSU Core: Goal 1**, Wellness, p. 39	Math 225, Calculus III
SDSU Core: Goal 2**, Human Spirit, p. 402	Math 321, Differential Equations
SDSU Core: Goal 5**, Stewardship, p. 41	Phys 213-214, University Physics II and Lab4
Non-technical ElectiveBalance of the credits	Phys 331, Introduction to Modern Physics
You should select Technical Emphasis Elective courses in the Junior and	Gen Ed Humanities and Fine Arts*, pp. 35-373
	Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3
Senior years to complement your chosen major emphasis. Following are	
some suggested courses.	Gen Ed Social Science*, pp. 35-373
Computer Networking Emphasis	Junior Year F S
CSc 250, Computer Science II	EE 320, Electronics I3
CSc 285, Data Structures	EE 321, Electronics II
· ·	EE 322, Electronics Laboratory I
CSc 325, Information Systems	
CSc 493, Windows Programming	EL 323, Electronics Euseratory II
Manufacturing and Industrial Automation Emphasis	Engl 201*, Composition II or
MET 231-231A, Manufacturing Process I and Lab	Engl 379, Technical Communications
MET 334-334A, CAM/CNC and Lab	Math 331, Advanced Engineering Mathematics or
	Math 327, Calculus of Several Variables3
MET 350-350A, Fluid Power and Lab	
Business Minor Emphasis	Phys 312, Measurement Theory and Experiment
Choose additional courses needed to fulfill the requirements for the	Design2
Business Minor offered through the Economics Department, p. 129.	Phys 314, Advanced Laboratory I 1
	Phys 341, Thermodynamics & Statistical Mechanics3
*The 30 credit Board of Regents General Education requirements (Gen Ed) must be	Phys 351, Classical Mechanics 4
completed as part of a students first 64 credits. See pages 35-37 for details. Courses that	Phys 361, Optics3
are part of these credits are indicated by an asterisk (*).	
(C) The DOD Count Planting and the Country of the C	SDSU Core: Goal 1**, Wellness, p. 39
(G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global	Technical Electives***
Diversity requirement and the social science and/or humanities and fine arts requirements.	
See pages 35-37 for details.	
- -	

Senior Year F	\mathbf{S}
Phys 412, Advanced Lab II	1
Phys 421, Electromagnetism4	
Phys 435, Introduction to Nuclear Engineering or	
Phys 439, Physics of the Solid State	3
Phys 464, Senior Design I1	
Phys 465, Senior Design II	2
Phys 471, Quantum Mechanics	4
Phys 490, Physics Colloquium	1
SDSU Core: Goal 2**, Human Community, p. 392	
SDSU Core: Goal 3**, Human Spirit, p. 40	
SDSU Core: Goal 5**, Stewardship, p. 41	2
Technical Electives***	2

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*). However, the Engineering Physics-Electrical Engineering Track major has received an exemption from this requirement in that the second English course may be delayed until the junior year.
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- ***Technical electives will be selected with the assistance of the student's adviser from courses offered by the Electrical Engineering, Physics, Computer Science, Chemistry, Biology, and Mathematics Departments. Technical electives must be carefully chosen so as to meet the minimum EAC/ABET "Engineering Topics" component. A complete list of departmentally approved technical electives is available in the Physics Department office. Any departures from this list must be approved by the Head of the Physics Department.

Requirements for Engineering Physics Major Bachelor of Science in Engineering Physics Mechanical Engineering Track

Freshman Year	\mathbf{F}	S
Chem 112-113*, General Chemistry I and Lab		
Chem 114*, General Chemistry II		3
GE 121, Engineering Design Graphics I	.1	
GE 122, Engineering Design Graphics II	•••	1,
Engl 101*, Composition I	.3	
GE 101, Introduction to Engineering and Technology	•••	1
Math 123*, Calculus I	.5	
Math 224, Calculus II	•••	4
Phys 211-212**, University Physics I and Lab		4
SpCm 101-101A*, Fundamentals of Speech and Lab	• • •	3
Gen Ed Social Science*, pp. 35-37, (G)	.3	1
Sophomore Year	F	s
CSc 213, Introduction to Programming with FORTRAN	or	~ .
CSc 218, Introduction to C/C++/UNIX for	-	
Engineers		3
EE 220, Circuits I	3	
EE 222, Circuits I Laboratory		
EM 221, Statics		. 3
GE 225, Survey of Machine Tool Applications		1
Math 225, Calculus III		
Math 321, Differential Equations		3
ME 240, Fundamentals of Mechanical Design		3
Phys 213-214, University Physics II and Lab		
Gen Ed Social Science*, pp. 35-37		-
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)		
Gen Ed Humanities and Fine Arts*, pp. 35-37		3

Junior Year F	S
EE 221, Circuits II	•
EE 223, Circuits II Laboratory1	
EM 331, Fluid Mechanics	3
Engl 201*, Composition II or	
Engl 379, Technical Communications	3
Math 331, Advanced Engineering Mathematics or	
Math 327, Calculus of Several Variables	3
Phys 312, Measurement Theory and Experiment	
Design2	
Phys 314, Advanced Laboratory I	1
Phys 331, Introduction to Modern Physics3	
Phys 341, Thermodynamics and Statistical Mechanics3	
Phys 351, Classical Mechanics	4
Phys 361, Optics3	
SDSU Core: Goal 2**, Human Community, p. 392	
SDSU Core: Goal 3**, Human Spirit, p. 40	2
Senior Year F	S
Phys 412; Advanced Lab II	1
Phys 421, Electromagnetism	_
Phys 435, Introduction to Nuclear Engineering or	
Phys 439, Physics of the Solid State	3
Phys 464, Senior Design I	_
Phys 465, Senior Design II	
Phys 471, Quantum Mechanics	
Phys 490, Physics Colloquium	
SDSU Core: Goal 1**, Wellness, p. 39	
SDSU Core: Goal 5**, Stewardship, p. 41	
Technical Electives***	
	9

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*). However, the Engineering Physics-Mechanical Engineering Track major has received an exemption from this requirement in that the second English course may be delayed until the junior year. It is recommended that Econ 202, Macroeconomics (3 cr.) be one of the elective Social Science courses.
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- ***South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- ***Technical electives will be selected with the assistance of the student's adviser from courses offered by the Electrical Engineering, Physics, Computer Science, Chemistry, Biology, and Mathematics Departments. Technical electives must be carefully chosen so as to meet the minimum EAC/ABET "Engineering Topics" component. A complete list of departmentally approved technical electives is available in the Physics Department office. Any departures from this list must be approved by the Head of the Physics Department.

English	(Engl)	Major	and	Minor
	\— <i>-</i>			

Kathleen Donovan Department of English Scobey Hall 014 605-688-5191

Requirements for English Major - Option A		
Bachelor of Arts in Arts and Science		
Freshman Year F		S
Engl 101*, Composition I	or	3
Modern Language*,, pp. 35-374		4
Hist 121*, History of Western Civilization to 1650, (G)		
and Hist 122*, History of Western Civilization		
since 1650, (G)3		3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Natural Science*, pp. 35-37 and		
SDSU Core: Goal 4**, Science and Sci Methods,		
p. 414		4
Gen Ed Social Science*, pp. 35-373	or	3
SDSU Core: Goal 1**, Wellness, p. 39	or	2
, ,,,		
Sophomore Year F		S
Engl 201*, Composition II3	or	3
Engl 221*, English Literature I and		
Engl 222*, English Literature II		3
English or American Literature Courses		3
Modern Language		3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Social Science*, pp. 35-373	or	3
Electives	or	4
Junior Year F		S
Engl 241, American Literature I and		
Engl 242, American Literature II		3
Engl 379, Technical Communications or		
Engl 383, Creative Writing3	or	3
English or American Literature Courses6		6
SDSU Core: Goal 2**, Human Community, p. 392-3	or	2-3
SDSU Core: Goal 5**, Stewardship, p. 412-3	or	2-3
Electives	or	3
Senior Year F		S
English or American Literature Courses6		3
Linguistics Course (203, 425, 420, 443, 452)	or	3
Electives6-12	(5-12

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for English Major – Option B (Education)		
Bachelor of Arts in Arts and Science			
Freshman Year	F		S
Engl 101*. Composition I	3	or	3

Hist 121*, History of Western Civilization to 1650, (G) and Hist 122*, History of Western Civilization since 1650, (G)	or	3 3 4
SDSU Goal 4**, Science and Sci Methods, p. 41 4 Gen Ed Social Science*, pp. 35-37 3 SDSU Core: Goal 1**, Wellness, p. 39 2	or or	3 2
Sophomore YearFEngl 201*, Composition II	or	S 3
Engl 222*, English Literature II		3
Modern Language		3
Soc 100*, Introduction to Sociology	or	3
(SeEd 287, Practicum & Professional Lab and		_
EdFn 375, Human Relations)5	or	5
Gen Ed Mathematics*, pp. 35-373	or	3
Junior Year Anth 421, Indians of North America or		S
Hist 368, History of American Indians3	or	3
EdFn 365, Integrating Computers into the Curriculum2	or	2
Engl 241, American Literature I and		
Engl 242, American Literature II3		3
Engl 308, The Teaching of English	or	3
Present3	or	3
Professional Semester II (EPsy 302, Educational Psychology and SeEd 314, Supervised Clinical/Field Experience and		
SeEd 450, Teaching of Reading)6	or	6
SDSU Core: Goal 5**, Stewardship, p. 412-3		2-3
Senior Year F		S
Professional Semester III (SeEd 400, Curriculum & Instruction in Secondary School and SeEd 410, Social Foundations, Management & Law and SeEd 420, Teaching Special Needs Students and SeEd 488, Supervised Teaching Internship)16	or	16
English Electives9	or	9
Electives6	or	6

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

⁽G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

^{**}South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

⁽G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

^{**}South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for English Minor: 20 cr	٠	Junior Year F S	
(Engl 101 and 201 do not apply)		Bio 311**, Principles of Ecology3	
British Literature	9	Chem 326-327, 328-329, Organic Chemistry and Labs or	
American Literature	6	Chem 120-121, Elementary Organic Chemistry and Lab	
One of the following courses:		and Chem. elective (recommend Chem 361-361A)4	
Engl 379, Technical Communications	3	Econ 202**, Macroeconomic Principles	
Engl 383, Creative Writing:	3	Phys 111-112, Introduction to Physics I and Lab and	
Ling 203, English Grammar	3	Phys 113-114, Introduction to Physics II and Lab4	
Ling 420, The New English	` 3	Stat 281, Statistical Methods I	
Ling 425, The Structure of English	3	Communications Elective (Recommend Engl 379 or	
Ling 443, Development of the English Language	3	SpCm 315)3	
Ling 452, General Semantics	3	Departmental Emphasis and Elective Courses***2	
		Senior Year F S	
Environmental Management		ABS 475-475A, Integrated Natural Resource	
Environmental Management		Management and Lab	
(FnyM) Major		Bio 371, Genetics	
(EnvM) Major		Bio 490, Senior Seminar+1	
Gary Peterson		EnvM 425-425A, Disturbance Ecology and Lab 4	
Department of Biology and Microbiology		SDSU Core: Goal 3**, Human Spirit, p. 40	
Agricultural Hall 304		Departmental Emphasis and Elective Courses***10	
605-688-6141			
e-mail: biomicro@abs.sdstate.edu		*The 30 credit Board of Regents General Education requirements (Gen Ed) must be	
		completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).	
Requirements for Environmental Management Major		· ·	
Bachelor of Science in Biological Science		(G) The BOR General Education requirements include an International/Global Diversity	
Freshman Year F	S	requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements.	
Anth 210*, Cultural Anthropology, (G) or		See pages 35-37 for details.	
Soc 150*, Social Problems, (G) or		**South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement	
Soc 240*, Sociology of Rural America, (G)3		(SDSU Core). See pages 39-41 for details. These requirements are indicated by a double	,
Bio 151-152, General Biology I and Lab and	•	așterisk (**).	
Bio 153-154, General Biology II and Lab4	4	Students must take the proficiency examination after completing 48 credits. English 101, and	ı
Bio 290, Undergraduate Seminar (EnvM section)	1	a course in each of the General Education areas of social science, mathematics, natural	
Chem 112-113*, General Chemistry I and Lab		science, and humanities and fine arts must be taken prior to taking this exam.	
Chem 114-115*, General Chemistry II and Lab**4	4	***The College of Agricultural and Biological Sciences requires that at least 25 semester	
Engl 101*, Composition I3		credits of the 128 total for graduation be upper division (300 and above). If you plan to	
Math 113*, Algebra & Trigonometry or		teach Biology with this curriculum, see the Undergraduate Teacher Education program and consult with the Dean of Education and Counseling.	
Math 102*, College Algebra and		······································	
Math 120, Trigonometry or	~ ~	Environmental Management Majors are required to take 15 hours from the following list	C C
Math 222, Calculus for Non-Math Majors	5-6	of approved electives:	
SpCm 101-101A*, Fundamentals of Speech & Lab	3	ABE 353-353A, Physical Climatology and Meteorology and Lab3 ABE 434-434A, Soil and Water Engineering and Lab4	
SDSU Core: Goal 1**, Wellness, p. 392		AST 463, Agricultural Waste Management3	
Sophomore Year F	C	Bio 200-200A, Biological Diversity and Lab	
Sophomore Year Anth 210*, Cultural Anthropology or	S	Bio 373, Evolution 3 Bio 383, Bioethics 4	
Soc 150*, Social Problems or		Bio 415-415A, Mycology and Lab3	
Soc 240*, Sociology of Rural America		Bio 440-440A, Restoration Ecology and Lab	
(different area than above)	3	Bio 467, Environmental Toxicology and Contaminants	
Select 2 of the following*, (G):		Bot 301-301A Plant Systematics and Lab	
ArtH 100*, Art & Design Appreciation or		Bot 305-305A, Agrostology and Lab	
Engl 250*, Literature of Diverse Cultures or		Bot 327-327A, Plant Physiology and Lab	
Hist 121*, History of Western Civilization to 1650 or		CEE 333-333A, Hydrology and Lab3	
Hist 122*, History of Western Civilization since 1650 or		Chem 232-233, Analytical Chemistry I and Lab	
Phil 215*, Introduction to Social/Political Philosophy or		Chem 342-342A, Elementary Physical Chemistry and Lab	
Phil 220*, Introduction to Ethics or		Chem 380, Environmental Chemistry	
Rel 213*, Introduction to Religion or		CSc 285, Data Structures3	
Modern Language*3	3	CSc 484, Database Management Systems 3 Econ 423, Statistics II 3	
Engl 201*, Composition II	3	GE 525, Risk/Loss Control Management2	
EnvM 275**, Introduction to Environmental Science3		Geog 365, Land Use Planning	
Micr 231-232, General Microbiology and Lab4		Geog 464, Geographic Aspects of Regional Planning 3 Geog 483, Air Photo Interpretation 3	
PS 213-213A, Soils and Lab		Geog 483, Air Photo Interpretation	
PS 243-244, Geology and Lab	3	Geog 487, Geographic Information Systems I3	
Departmental Emphasis and Elective Courses***2	4	HSc 440, Epidemiology	
- -	•	HSc 443, Public Health Science	
		La 322, Site Planning	
•			

La 324-324A, Planning Public Grounds and Lab
La 364, Planting Design & Specification4
La 424-424A, Recreational Facilities Design and Lab
Math 123, Calculus I
Math 222, Calculus for Non-Math Majors5
Math 224, Calculus II4
Math 225, Calculus III
ME 411, Environmental Engineering
Micr 310-310A, Environmental Microbiology and Lab
Micr 421-421A, Soil Microbiology and Lab
Micr 422-422A, Immunology and Lab4
PolS 320, Public Administration
PR 303, Forest Ecology and Management
PS 305-305A, General Entomology and Lab
PS 362-362A, Environmental Soil Management and Lab
PS 412, Environmental Soil Chemistry
PS 475, Water Quality in Agriculture
Soc 362, Population Problems
Stat 441, Statistical Methods II
Stat 445, Nonparametric Statistics
WL 363-363A, Ornithology and Lab4
WL 367-367A, Ichthyology and Lab
WL 370-370A, Limnology and Lab
WL 411-411A, Principles of Wildlife Management and Lab4
WL 417-417A, Large Game Ecology and Management and Lab3
WL 419-419A, Waterfowl Ecology and Management and Lab3
WL 430,-430A Human Dimensions in Wildlife and Fisheries and Lab 3
Zool 325-325A, Mammalian Physiology and Lab4
Zool 355-355A, Mammalogy and Lab
Zool 467-467A, General Parasitology and Lab

+ Senior Seminar may be elected in Animal Science and Range Science, Biology and Microbiology, Plant Science or any other second major department.

European Studies Program (EurS)

Gordon Tolle Department of Political Science Scobey Hall 304 605-688-4912

Curriculum in European Studies Program
Requirements Credits
Language: 8 credits of a European language*, (G) or
an appropriate European language substitution8
History: Hist 122*, History of Western Civilization
since 1650, (G) (or Hist 328 or 329)3
Political Science: PolS 341**, European Democratic
Governments (Goal 2, p. 39), (or PolS 165*, Political Ideologies,
(G), or PolS 462**, Modern Political Philosophy
(Goal 3, p. 40))3
EurS 300**, Topics in European Culture (Goal 3, p. 40) and/or
EurS 301**, Topics in European Society (Goal 2, p. 39)6
Total 20

Family and Consumer Sciences Education (FCSE) Major

Mary Kay Helling Department of Human Development, Consumer and Family Sciences NFA 369 605-688-6418

•		
Requirements for Family and Consumer Sciences Educat	ion N	<i>I</i> ajor
Bachelor of Science in Family and Consumer Sciences		a
Freshman Year CA 120 Coming Shills for Companyons*		S
CA 130, Coping Skills for Consumers*		2
Engl 101*, Composition I	or	3
Foundations		
HDCF 327, Human Development and Personality I:		
Childhood	or	3
Psyc 101*, General Psychology	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-37	or	3
Gen Ed Natural Science*, pp. 35-373-4		3-4
SDSU Core: Goal 1**, Wellness, p. 39	or	2
Elective	or	3
Licente	O1	,
Sophomore Year F		S
CA 291, Consumers and the Market	or	3
CTE 287, Practicum in Career and Technical Education1	01	
CTE 405, Philosophy of Career and Technical		
Education		
EdFn 375, Human Relations		
Engl 201*, Composition II	or	3
HDCF 328, Experience with Young Children3	or	3
NFSH 111**, Food and People	or	3
NFSH 141-141A, Food Principles and Lab4	or	4
NFSH 221**, Survey of Nutrition	or	3
Gen Ed Social Science*, pp. 35-37, (G)	or	3.
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3	or	3
HDCF Elective2	or	2
Junior Year F		S
AM 121, Apparel in Popular Culture or		
AM 453, Socio-Psy Aspects of Clothing3	or	3
EdFn 365, Integrating Computers into the Curriculum2	or	2
EPsy 302, Educational Psychology2	or	2
FCSE 331, Workforce Preparation		
HDCF 241, Family Relations3	or	3
HDCF 312, Human Development and Personality II:		
Adolescence or		
EPsy 426, Psychology of the Early Adolescent		
Learner3	or	3
SeEd 314, Supervised Clinical/Field Experience		
SeEd 450, Teaching of Reading		
SDSU Core: Goal 3**, Human Spirit, p. 402-3	or	2-3
HDCF Elective	or	
General Electives2-3	or	2-3
Conton Veen		c
Senior Year F		S
Anth 421**, Indians of North America		
CA 341, Management Personal & Family Living3		
CA 442, Family Resource Management Lab		
FCSE 411, Philosophy and Methods		E.
FCSE 412, Preparation for Student Teaching		5

lective3	In addition, French Majors taking the Business Option are required take:
	Fren 350, Business Communications in French
The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).	Fren 450, Business French II
	Regardless of the Option chosen, French Majors will take at least nin
The BOR General Education requirements include an International/Global Diversity	hours of electives from the following:
requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements.	Fren 395, Travel Study Abroad Francophone1-6
See pages 35-37 for details.	Fren 415, French Language Skills Workshop1-6
The State of the State of Conduction Remainment	Fren 480, Senior Capstone Experience 3
South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double	Fren 492, Directed Readings/Independent Study1-3
asterisk (**).	Fren 493, Special Topics
udents must take the proficiency examination after completing 48 credits. English 101, and	Requirements for French Major
a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.	Bachelor of Arts in Arts and Science
science, and namanico and mice are made of tallon proof to the age	Freshman Year
	Engl 101*, Composition I
Food and Biological Materials	Fren 101-102***, Introductory French I-II
toou and biological Materials	SpCm 101-101A*, Fundamentals of Speech and Lab
Engineering (FDMF) Major	Gen Ed Mathematics*, pp. 35-37
Engineering (FBME) Major	Con La manomana, , pp. 55 5.
an Kelley, Acting	Out and the same of the same o
epartment of Agricultural and Biosystems Engineering	BBBC Core, Cour 1 , Welliams, F. C.
gricultural Engineering 107	SDSU Core: Goal 3**, Human Spirit, p. 40 (not in Modern
05-688-5141	Language Department)
-mail: abe.dept@abs.sdstate.edu	Electives
ttp://www.abs.sdstate.edu/ae	
np.// www.abs.sustacc.cumac	Sophomore Year
equirements for Food and Biological Materials Engineering	Engl 201*, Composition II
=	Fren 201-202, Intermediate French I-II
lajor	Electives in French
achelor of Science in Food and Biological Materials Engineering	Gen Ed Social Science*, pp. 35-37
the 1994-96 catalog this was a separate major. Students enrolled in the	Gen Ed Natural Science*, pp. 35-37
najor prior to July 1, 1996, will complete the major as described in the	SDSU Core: Goal 3**, Human Spirit, p. 40 (not in Modern
994-96 catalog. Effective July 1, 1996, this became an option as	Language Department)
escribed under the Agricultural and Biosystems Engineering Major.	Electives
	Junior Year+
Food Science Option	French course work (300-400 level)6-12
——————————————————————————————————————	SDSU Core: Goal 2**, Human Community, p. 39 2
Marilyn A. Swanson	SDSU Core: Goal 4**, Science and Science Methods, p. 41 2
Department of Nutrition, Food Science and Hospitality	SDSU Core: Goal 5**, Stewardship, p. 41
IFA 425 05-688-5161	Electives
-mail: Marilyn_Swanson@sdstate.edu	Senior Year
	French Course work (300-400 level)6-12
Requirements for Food Science Option	Electives
Jutrition and Food Science Major	Electives
affective July 1, 1996, food science became an option as described	Requirements for the French Minor: 22 cr
nder the Nutrition and Food Science Major.	Fren 101-102, Introductory French I-II
,	Fren 201-202, Intermediate French I-II
	French electives 300 and above
Table 1 (Electrical Minor	French electives, 300 and above
	*The 30 credit Board of Regents General Education requirements (Gen Ed) must
rench (rien) Major and Minor	completed as part of a students first 64 credits. See pages 35-37 for details. Courses
	completed as part of a stadents inst of erealts of pages of a second
hilip Baker	are part of these credits are indicated by an asterisk (*).
hilip Baker Department of Modern Languages	are part of these credits are indicated by an asterisk (*).
hilip Baker lepartment of Modern Languages IFA 121	are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Global Divergencement of 6 credits. Courses may count toward both the International/Global
chilip Baker Department of Modern Languages UFA 121 05-688-5101 The major in French Studies requires a minimum of 37 credit hours in	are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Global Divergencement of 6 credits. Courses may count toward both the International/Global
Philip Baker Department of Modern Languages UFA 121 05-688-5101 The major in French Studies requires a minimum of 37 credit hours in French. All French Majors will take the following courses:	are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Global Diver requirement of 6 credits. Courses may count toward both the International/Glo Diversity requirement and the social science and/or humanities and fine arts requirement See pages 35-37 for details.
Chilip Baker Department of Modern Languages UFA 121 05-688-5101 The major in French Studies requires a minimum of 37 credit hours in	are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Global Diver requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirement See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirements.
Philip Baker Department of Modern Languages UFA 121 D05-688-5101 The major in French Studies requires a minimum of 37 credit hours in French. All French Majors will take the following courses: Fren 101-102, Introductory French I-II	are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Global Diver requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirement See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirem (SDSU Core). See pages 39-41 for details. These requirements are indicated by a dot
Philip Baker Department of Modern Languages UFA 121 D05-688-5101 The major in French Studies requires a minimum of 37 credit hours in French. All French Majors will take the following courses: Fren 101-102, Introductory French I-II	are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Global Diver requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirement See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation Requiren (SDSU Core). See pages 39-41 for details. These requirements are indicated by a dot asterisk (**).
	are part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an International/Global Diver requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirement See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirem (SDSU Core). See pages 39-41 for details. These requirements are indicated by a dot

in which to enroll. Credit may be obtained for courses exempted upon completion of one course in the department, with a grade of C or better, and the payment of the established fee to the Academic Evaluation and Assessment Office.

+Junior year course selections, which fulfill the Institutional (SDSU) requirements, must be different from those taken to fulfill the General Education requirements.

General Agriculture Major

Charles McMullen College of Agriculture and Biological Sciences Agricultural Hall 156 605-688-5133

e-mail: academic.programs@abs.sdstate.edu

Requirements for Associate of Science in Agriculture

The two-year program is designed for the student who does not find it advisable or possible to enter a regular four-year college program. A typical student in this situation could be one who desires some education but not necessarily four years before entering the work force or returning to the farm or ranch. The core requirement is as follows:

Course	Credits
Mathematics ¹	
Wel 101 or GR 143	2
English 101 ¹	3
Speech 101	
Humanities/Fine Arts ¹	3
Natural Science ¹	3
Social Science ¹	3
Major field of concentration	
General electives	
Total	64
GPA 2.0	

¹ Students must take the proficiency examination after completing 32 credits. Engl 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for General Agriculture Major **Bachelor of Science in Agriculture** S AS 101, Introduction to Animal Science Bio 103-104*, Biology Survey II and Lab Chem 106-107*, Chemistry Survey and Lab Math 102*, College Algebra3 PS 103-103A, Crop Production and Lab3 Soc 100*, Introduction to Sociology or Soc 150*, Social Problems, (G) or Soc 240*, Sociology of Rural America, (G) or SpCm 101-101A*, Fundamentals of Speech and Lab..... Gen Ed Humanities and Fine Arts*, pp. 35-37 Sophomore Year \mathbf{S} AgEc 271-271A, Farm & Ranch Management and Lab Chem 120-121, Elementary Organic Chemistry and Lab4 Econ 202*, Macroeconomics Principles or Econ 201, Microeconomics Principles3 Engl 201*, Composition II Micr 231-232, General Microbiology and Lab4 Phys 101-102, Survey of Physics I and Lab PS 213-213A, Soils and Lab

Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)	
Also meet ABS College Social Science requirement	3
Junior Year F	S
AS 233-233A, Applied Animal Nutrition and Lab3	
Bio 371, Genetics	3
Communications Elective***3	
PS 223-223A, Principles of Plant Pathology and Lab3	
PS 307-307A, Insect Pest Management and Lab	3
Program concentration electives4-5	4-5
Restricted Elective	
(from, Math, Stat, CSc, Acct, BAdm)	3
SDSU Core: Goal 3**, Human Spirit, p. 402-3	
SDSU Core: Goal 5**, Stewardship, p. 41	2-3
Senior Year F	S
Program concentration electives (remaining hours must16 total 128; at least 24 credits must be 300 level or above courses excluding Internships, Cooperative Education, or Field Experience courses)	16

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

General Studies (Associate of Arts)

Allen Branum College of Arts and Science NFA 251 605-688-6619

Requirements for Associate of Arts in General Studies

Course	Credits
Engl 101, Composition I	3
Engl 201, Composition II	3
SpCm 101-101A, Fundamentals of Speech and Lab	
Wel 100, Wellness and Lab	
Mathematics (minimum level: Math 102 or 143)	
Natural Science (from Board of Regents' list, pp. 35-	
Humanities (from Board of Regents' list, pp. 35-37).	
Social Science (from Board of Regents' list, pp. 35-3	
International/Global Diversity Requirements (courses	
also fulfill Humanities or Social Science requirement	
SDSU Core requirements	
Selected Electives	
Total	

^{***} Communications Elective to be selected from the following: Engl 379; MCom 210, 313, 315, 331; SpCm 201, 315, 334.

Geographic Information Systems (GIS) Minor

Roger Sandness Department of Geography Scobey Hall 232 605-688-4511

Requirements for Geographic Information Systems Minor: 18 cr		
CEE 304, Land Surveying	,	
Geog 487, Geographic Information Systems I	,	
Geog 406, Seminar in Systematic Geography:1-4	-	
Courses from Electives Lists I and II available		
at the department)	

Geography (Geog) Major and Minor

Roger Sandness Department of Geography Scobey Hall 232 605-688-4511

Requirements for Geography Major Bachelor of Science in Arts and Science		
Freshman Year F		S
Engl 101*, Composition I3	or	3
Geog 131-131A*, Physical Geography I and Lab4		
Geog 132-132A*, **Physical Geography II and Lab		4
Geog 200*, Introduction to Human Geography, (G)3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-373		3
Geography Electives3		3
Sophomore Year F		S
Engl 201*, Composition II		3
Geog 210**, World Regional Geography, (G)3		
Geog 382, Geographic Research Methods		3
Biological Science (Arts & Science Core)		3
Humanities and Fine Arts (Arts and Science Core)3		
Gen Ed Social Science*, pp. 35-37 (Not Geog)3		
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Geography Electives (upper division)3		6
· · · · · · · · · · · · · · · · · · ·		
Junior Year F		\mathbf{S}
SDSU Core: Goal 3**, Human Spirit, p. 402-3		
SDSU Core: Goal 5**, Stewardship, p. 41	2	2-3
SDSU Core: Goal 2**, Human Community, p. 39 (Not		
Geog)3		
Geography Electives (upper division)3		6
Free Electives6-7	9.	-10
Senior Year F		S
Geography/Other Electives16		15

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk ().

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Technical Geography - Science Option

It is strongly suggested that technical-science geographers choose a minor from the list of recommendations available in the Department of Geography. The following discipline electives are required:

Physical Science Electives	6
Agricultural Science, Engineering Science, or Math Electives	6
Computer Programming Language	
Geog 406, Geographic Information Systems II	
Geog 487, Geographic Information Systems I	3
Total	21

Environmental Planning and Management Option

It is strongly suggested that environmental geographers choose a minor from the list of recommended minors available in the Geography Department. The upper division credits within the department should be selected from the following:

Geog 310-310A, Soil Geography & Land-use Interpretation	
and Studio	3
Geog 337, Atmospheric Sciences	3
Geog 339, The Earth's Landforms	2
Geog 343, Natural Disasters & Human Hazards	3
Geog 351, Economic Geography	3
Geog 365, Land Use Planning	3
Geog 383, Cartography	3
Geog 425, Population Geography	
Geog 484, Remote Sensing	3
Geog 406, Geographic Information Systems II	
Geog 487, Geographic Information Systems I	

For those students wishing to pursue a greater emphasis in planning, the upper division hours should be selected from the following courses:

Geog 365, Land Use Planning	3
Geog 461,Urban Geography	3
Geog 464, Geographic Aspects of Regional Planning	3
Geog 483, Air Photo Interpretation	3
Geog 484, Remote Sensing	3
Geog 406, Geographic Information Systems II	3
Geog 487, Geographic Information Systems I	3
	•

Recommended electives outside of the Department:

Plan 471, Principles of State, Regional & Community Planning	3
Plan 472, Techniques of State, Regional & Community Planning	3

Requirements for Geography Major: 35 cr

Geog 131-131A, Physical Geography I and Lab	4
Geog 132-132A, Physical Geography II and Lab	4
Geog 200, Intro to Human Geography	3
Geog 210, World Regional Geography	3
Geog 382, Geographic Research Methods	3
Upper division courses	18
**	

Requirements for Geography Minor: 17 cr

Geog 131-131A, Physical Geography I and Lab4
Geog 132-132A, Physical Geography II and Lab4
Geog 200, Introduction to Human Geography3
Upper-division courses or substitutions
approved by the Department6

⁽G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

German (Germ) Major and Minor

Philip Baker Department of Modern Languages NFA 121 605-688-5101

The major in German requires a minimum of 36 credit hours in German. The course work should include 101, 102, 201, 202, 311, 312, and 18 credit hours of upper-division (300-400) classes. Upper-division course work must include a minimum of 4 credit hours in literature, 4 credit hours in civilization and culture, and 2 credit hours in advanced language study.

The following schedules are very general. Please contact a German adviser for more specific information.

Requirements for German Major Bachelor of Arts in Arts and Science Freshman Year

Freshman Year F		S
Engl 101*, Composition I3	or	3
Germ 101-102***, Introductory German I-II4	and	4
SpCm 101-101A*, Fundamentals of Speech and Lab 3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Social Science*, pp. 35-373	or	3
SDSU Core: Goal 1**, Wellness, p. 39	or	2
SDSU Core: Goal 3**, Human Spirit, p. 40 (not in		
Modern Language Department)	or	3
Electives		
Sophomore Year F		S
Engl 201*, Composition II3	or	3
Germ 201-202, Intermediate German I-II	and	3 3
Electives in German4		4
Gen Ed Social Science*, pp. 35-373	or	3
Gen Ed Natural Science*, pp. 35-373		3
SDSU Core: Goal 3**, Human Spirit, p. 40 (not in		
Modern Language Department)	or	3
Electives		
Junior Year+ F		S
German course work (300-400 level)3-6	and	3-6
SDSU Core: Goal 2**, Human Community, p. 392	or	2
SDSU Core: Goal 4**, Science and Science Methods,		2
*	or	2
SDSU Core: Goal 5**, Stewardship, p. 412	or	2
Electives		
Senior Year F		\mathbf{S}
German course work (300-400 level)3-6	and	3-6
Electives		

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**)
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- ***Students who have a background in modern language study before entering the University should take the Placement Examination to determine the appropriate course in which to enroll. Credit may be obtained for courses exempted upon completion of one course in the department, with a grade of C or better, and the payment of the established fee to the Academic Evaluation and Assessment Office.
- +Junior year course selections, which fulfill the Institutional (SDSU) requirements, must be different from those taken to fulfill the General Education requirements.

Requirements for German Minor: 20 cr

Germ 101-102, Introductory German I-II	8
Germ 201-202, Intermediate German I-II	6
Germ 300-400 level Electives	6

* Students who have a background in modern language study before entering the University should take the Placement Examination to determine the appropriate course in which to enroll. Credit may be obtained for courses exempted upon completion of one course in the department, completion of appropriate paperwork, and the payment of the established fee.

Gerontology (Gero) Minor

Renee Oscarson

Department of Human Development, Consumer and Family Sciences NFA 369

605-688-6418

249).

Requirements for Gerontology Minor: 18 cr

1	
Choose 11 credits from the following Level One courses:	
Bio 425, Biology of Aging	3
CA 442, Family Resource Management Lab	3
Gero 201, Introduction to Gerontology (required	
for minor)	3
GERO 492, Independent Study in Gerontology	1-4
GERO 493, Current Topics in Gerontology	1-3
HDCF 313, Human Development and Personality III:	
Adulthood	3
Psyc 324, Psychology of Aging	3
Soc 490, Seminar: Sociology of Aging,	3
Nurs 201, Medical Terminology	
Management course approved by the Gerontology Coordinator.	
Seminar, Current Topics, or Special Problems approved	
by the Gerontology Coordinator.	
The topic and credits vary by semester.	
Choose 7 credits from Levels Two and Three. Lists of	
courses for Levels Two and Three are available in	
the Department Office or the Office of the Dean of	

Students who minor in Gerontology need to complete the Gerontology minor form available in the HDCFS Department Office (NFA 369) or the Family and Consumer Sciences Dean's Office (NFA

the College of Family and Consumer Sciences.

A grade of "C" or better is required in all courses in the minor.

Health Education (Hlth) Minor

Patty Hacker

Department of Health, Physical Education and Recreation Physical Education Center 269 605-688-5218

e-mail: Patricia Hacker@sdstate.edu

All students interested in obtaining this minor must obtain written approval from the PETE Coordinator. A minimum final grade of "C" is required in all courses taken in the minor.

Requirements for Health Education Minor: 21 cr (minimum)Required courses are:

Required courses are.	1
HDCF 250, The Development of Human Sexuality	3
Hlth 212, Contemporary Health Problems	2
Hlth 120, Community Health	2
Hlth 420, Methods of Health Instruction	2
HSc 302, Wellness and the Family	2
NFSH 221, Survey of Nutrition	3
• •	

Three courses must be completed from among the following (7	-9 cr):
CA 291, Consumers and the Market	
HDCF 141, Individual and the Family	
HDCF 341, Family Theories	
Hlth 250-250A, First Aid and Lab	2
Hlth 440, Epidemiology	3
Pha 201, Medication and the Consumer	2
Psyc 442, Health Psychology	3
Soc 250, Marriage	2

Health, Physical Education and Recreation (HPER) Major

Patty Hacker

Department of Health, Physical Education and Recreation Physical Education Center 269

605-688-5218

e-mail: Patricia_Hacker@sdstate.edu

The intent of this major is to provide students with a general background in health/wellness, physical education and recreation.

Students in this major are not required to earn a minor or an emphasis but may pursue an emphasis in teaching physical education. Students choosing this emphasis must contact the faculty coordinator for the area for the information on the application/acceptance requirements and procedures. Students may wish to obtain a minor in Public Recreation, Health Education, or other area. A minimum final grade of "C" is required in each course in the major.

Required courses for the HPER Major Bachelor of Science in Arts and Science

Freshman Year F		S
Danc 130*, Dance Fundamentals1	or	1
Engl 101*, Composition I	or	3
Hlth 212, Contemporary Health Problems2		
HPER 180, Introduction to HPER3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
SDSU Core: Goal 2**, Human Community, p. 39		3
Gen Ed Social Science*, pp. 35-373	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Humanities*, pp. 35-373	or	3

Gen Ed Natural Science*, pp. 35-37		3
Sophomore Year F		S
Engl 201*, Composition II	or	3
Hlth 250-250A, First Aid	or	2
HPER 252-252A, Motor Learning and Performance2		
Recr 260, Recreation Leadership		2
Zool 221-222, Anatomy and Lab	or	3
HIth course to meet requirements of major2	or	2
HPER/PE course to meet requirements of major3	or	3
Recr course to meet requirements of major2	or	2
Gen Ed Social Science*, pp. 35-373	or	3
Gen Ed Humanities*, pp. 35-373	or	3
Gen Ed Cultural Diversity*, (met through social science and humanities)		
SDSU Core: Goal 3**, Human Spirit, p. 40		2
SDSU Core: Goal 4**, Science and Sci Methods, p. 41		4
Junior Year F		S
PE 353, Biomechanics3	or	3
PE 354-354A, Prevention and Care of Athletic Injuries 2	or	2
Hlth/HSc course to meet requirements of major2		2
HPER/PE course to meet requirements of major3		3
SDSU Core: Goal 5**, Stewardship, p. 413	or	3
Electives (Dept. courses or SDSU Core courses)6		8
Senior Year F		S
HPER 490, Senior Seminar3	or	3
Hlth/HSc course to meet requirements of major2		2
HPER/PE course to meet requirements of major3		3
		_

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

Electives or SDSU Core courses12

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for HPER Major – Teaching Emphasis Bachelor of Science in Arts and Science

Application for admission into the Physical Education teaching emphasis is required and can begin after successful completion of 30 credits, including HPER 180, Danc 130, Engl 101, and SpCm 101. Additional admission requirements are available from the Physical Education Teacher Education (PETE) Coordinator. All HPER teaching majors are strongly encouraged to obtain a health teaching endorsement (18 hours). Information on courses which fulfill this endorsement (or other teaching area endorsements) can be obtained from the PETE Coordinator. A minimum final grade of "C" is required each course in the major/emphasis area.

Freshman Year	F		S
Bio-101-102*, Biology Survey I and Lab	.3	or	3
Danc 130**, Dance Fundamentals	.1	or	1
Engl 101*, Composition I	.3	or	3
Hlth 212, Contemporary Health Problems	.2	or	2
HPER 180, Introduction to HPER	.3	or	3

⁽G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

^{**}South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

•		
Math 102*, College Algebra3	or	3
PE 320-320A, Lifeguard Training or PE 321-321A, Water Safety Instructor and Lab2	Or.	2
Psyc 101*, General Psychology	or or	3
Recr 260, Recreation Leadership		2
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
SDSU Core: Goal 1**, Wellness, p. 39	or	2
SDSU Core: Goal 3**, Human Spirit, p. 40	or or	3
International/Global Diversity Studies* (Taken as part of	OI	5
Gen Ed Humanities and/or social science)		
Sophomore Year F		
Bio 103-104*, Biology Survey II and Lab	or	· S . 3
Engl 201*, Composition II	or	3
EdFn 375, Human Relations	or	3
HPER 252-252A, Motor Learning and Development		
and Lab	or	1
Two to four credits from these (all 6 are required):	OI	1
PE 200, Skill Concept: Fitness1		
PE 201, Skill Concept: Gymnastics/Tumbling		1
PE 202, Skill Concept: Individual/Dual Activities		1
PE 203, Skill Concept: Team Sport Activity1 PE 204, Skill Concept: Rhythms and Dance		1
PE/Recr 205, Skill Concept: Recreational Activities1		1
PE 241, Curriculum in PE2		•
PE 352, Adapted Physical Education		2
PE 360-360A, Methods of Elementary School PE and Lab		2
Recr342, Recreation Sport Programming and Administration		
SeEd 287, Practicum and Professional Lab	or	2
Soc 100*, Introduction to Sociology3	or	3
Zool 221-222, Anatomy and Lab3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-373	or	3
International/Global Diversity Studies* (Taken as part of Gen Ed Humanities and/or social sciences)		
Gen ed riumanities and/or social sciences)		
Junior Year F		S
Anth 421**, Indians of North America	.or	3
Chem 100-100A**, World of Chemistry I and Lab4 Danc 241, Creative Movement for Kids or	or	. 4
Danc 240**, Multicultural Dance Experiences2	or	1
Hlth 250-250A, First Aid	or	2
Hlth 420, Methods of Health Instruction		2
HPER 451-451A, Tests and Measurements and Lab2		
Two to four credits from these (all 6 are required): PE 200, Skill Concept: Fitness		
PE 201, Skill Concept: Gymnastics		1
PE 202, Skill Concept: Individual/Dual Activities		1
PE 203, Skill Concept: Team Sport Activity1		
PE 204, Skill Concept: Rhythms and Dance		1
PE 205, Skill Concept: Recreational Activities		1
PE 334, Assisting Teaching I1 PE 353, Biomechanics	or or	1
PE354-354A, Prevention and Care of Athletic Injuries	O1	3
and Lab2	or	2
Phys 101-102**, Survey of Physics and Lab4	or	4
SDSU Core: Goal 5**, Stewardship, p. 413	or	3
Senior Year F		S
EdFn 365, Integrating Computers into the Curriculum2	or ′	2
EPsy 302, Educational Psychology	or	2
HPER 440, Organization and Administration of HPER		2
HPER 490, Senior Seminar3	, or	3

PE 350-350A, Exercise Physiology and Lab3 PE 461-461A, Methods of Teaching Physical Education	or	3
and Lab3		
SeEd 314, Supervised Clinical Field Experience1	or	1
SeEd 400, Curriculum & Instruction in Secondary		
Schools		3
SeEd 410, Social Foundation, Management & Law		2
SeEd 420, Teaching Special Needs Students		1
SeEd 450, Teaching of Reading3	or	3
SeEd 488, Supervised Teaching Internship	,	10

The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk ().

(G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk ().

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Health Promotion Major

September Kirby Department of Health, Physical Education and Recreation Physical Education Center 119 605-688-5387

e-mail: September_Kirby@sdstate.edu

Individuals graduating with a Health Promotion degree will be prepared to enhance awareness, modify behavior and create environments that promote positive health practices/behaviors for the individuals that they work with. This program is designed to prepare students for employment in wellness centers, rehabilitation centers, hospitals, and managed care groups. A minimum final grade of "C" is required for all courses taken within the major requirement.

Freshman Year	F	S
Bio-101-102*, Biology Survey I and Lab3	or	3
Chem 106-107*, Chemistry Survey and Lab4	or	4
Engl 101*, Composition I3	or	3
Math 102*, College Algebra3	or	3
Psyc 101*, General Psychology or3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Hlth 120, Community Health or		
Hlth 212, Contemporary Health Problems2	or	2
HPER 180, Introduction to HPER3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-373		3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Sophomore Year		
Chem 108-109**, Organic and Biochemistry and Lab5	or	5
Engl 201*, Composition II3	or	3
HDCF 241, Family Relations	or	3
Hlth 250-250A, First Aid and Lab2	or	2
Pha 201, Medication and the Consumer2		
Soc 150*, Social Problems, (G)3	or	3
Zool 221-222, Anatomy and Lab3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-373	or	3
Gen Ed Social Science*, pp. 35-37, (G)		3

Junior Year			HDCF 350, Helping Relationships		.3
Hlth 480-480A, Wellness Programming and Lab2			Hlth 250, First Aid		
HPER 468, Internship		1	or Hlth 364, Emergency Medical Technician		
Hsc 302, Wellness and the Family		2	HSc 120, Community Health		
NFSH 321, Human Nutrition3	or	3	HSc 302, Wellness and the Family		
PE 350, Exercise Physiology3	or	3	HSc 420, Methods of Health Instruction		
PE 354-354A, Prevention/Care of Athl Inj and Lab2	or	2	HSc 433/533, Industrial Hygiene		.3
PE 400-400A, Exercise Testing and Prescription & Lab		2	Nurs 635, Dying, Death, and Bereavement		
Psyc 358, Behavior Modification		3	Psyc 414, Drugs and Behavior		
Zool 325-325A, Mammalian Physiology and Lab4	or	4	Soc 250, Marriage		
Career Orientation Electives	or	3	Stat 281, Statistical Methods I	•••••	3
Senior Year			Any changes/additions to elective credits must receive prior approval from the	Depart	ment
Hlth 440, Epidemiology3	or	3	Head of Undergraduate Nursing.	•	
HPER 490, Senior Seminar3	or	3			
HPER 468, Internship	O.	4			
HPER 496, Field Experience		2	History (Hist) Major and Min	ทดา	•
Mcom 313, Publicity Methods2	or	_			•
PE 450, Clinical Exercise Physiology	01	. 2	Jerry Sweeney		
Psyc 442, Health Psychology3			Department of History		
Career Orientation Electives9	or	9	Scobey Hall 322		
Career Orientation Electives	Oi		605-688-4311		
*The 30 credit Board of Regents General Education requirements (Gen completed as part of a student's first 64 credits. See pages 35-37 for detail	Ed) n	nust be	Requirements for History Major: 36 cr		
are part of these credits are indicated by an asterisk (*).	s. Cour	ses uiai	Hist 121, History of Western Civilization to 1650	3	
•			Hist 122, History of Western Civilization since 1650	3	
(G) The BOR General Education requirements include an International/Glo			Hist 151, U.S. History to 1877	3	
requirement of 6 credits. Courses may count toward both the Intern Diversity requirement and the social science and/or humanities	ational	/Global	Hist 152, U.S. History since 1877	3	
requirements. See pages 35-37 for details.	and m	no arts	Upper level credits, including Hist 380, Methods and		
			Philosophy of History, and at least 6 in non-U.S. courses	24 -	
**South Dakota State University has a 10 credit Institutional Graduation			Timosophy of flistory, and at least o in non-olo. Courses	- '	
(SDSU Core). See pages 39-41 for details. These requirements are indicat asterisk (**).	ea by a	double	Requirements for History Major		
dolction (· ·).			Bachelor of Arts or Bachelor of Science in Arts and Science	20	
Students must take the proficiency examination after completing 48 credits. Ex			Freshman Year	·C	S
a course in each of the General Education areas of social science, mathe		natural	Engl 101*, Composition I	or	3
science, and humanities and fine arts must be taken prior to taking this ex					
				Oi	3
			Hist 121*, History of Western Civilization to 1650 or	O1	3
			Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or	O1	3
			Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or	OI .	
Health Science (HSc) Minor			Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or	3
Health Science (HSc) Minor Judith A. Vinson		•	Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877		3
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department			Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or	3
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department NFA 327			Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or	3 4
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department NFA 327 605-688-6153 or 1-888-216-9806 ext. 6153			Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or	3 3 4 3
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department NFA 327			Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or	3 4
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department NFA 327 605-688-6153 or 1-888-216-9806 ext. 6153 e-mail: Judith_Vinson@sdstate.edu			Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or	3 3 4 3 3
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department NFA 327 605-688-6153 or 1-888-216-9806 ext. 6153 e-mail: Judith_Vinson@sdstate.edu Requirements for Health Science Minor: 24 cr			Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or or or	3 4 3 3
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department NFA 327 605-688-6153 or 1-888-216-9806 ext. 6153 e-mail: Judith_Vinson@sdstate.edu Requirements for Health Science Minor: 24 cr Biological Science courses (6 credits):		naluda	Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or or or	3 3 4 3 3
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department NFA 327 605-688-6153 or 1-888-216-9806 ext. 6153 e-mail: Judith_Vinson@sdstate.edu Requirements for Health Science Minor: 24 cr Biological Science courses (6 credits): These courses do not need to be sequence courses but m	nust ir	nclude	Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or or or	3 4 3 3
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department NFA 327 605-688-6153 or 1-888-216-9806 ext. 6153 e-mail: Judith_Vinson@sdstate.edu Requirements for Health Science Minor: 24 cr Biological Science courses (6 credits):	nust ir	nclude	Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or or or	3 3 4 3 3
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department NFA 327 605-688-6153 or 1-888-216-9806 ext. 6153 e-mail: Judith_Vinson@sdstate.edu Requirements for Health Science Minor: 24 cr Biological Science courses (6 credits): These courses do not need to be sequence courses but m science courses with the following prefixes: Bio, Micr, Zool	nust ir	nclude	Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or or or	3 3 4 3 3 4 3 2
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department NFA 327 605-688-6153 or 1-888-216-9806 ext. 6153 e-mail: Judith_Vinson@sdstate.edu Requirements for Health Science Minor: 24 cr Biological Science courses (6 credits): These courses do not need to be sequence courses but m science courses with the following prefixes: Bio, Micr, Zool All of the following courses (12 credits):	nust ir	•	Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or or or	3 3 4 3 3 4 3 2 S
Health Science (HSc) Minor Judith A. Vinson College of Nursing, Undergraduate Nursing Department NFA 327 605-688-6153 or 1-888-216-9806 ext. 6153 e-mail: Judith_Vinson@sdstate.edu Requirements for Health Science Minor: 24 cr Biological Science courses (6 credits): These courses do not need to be sequence courses but m science courses with the following prefixes: Bio, Micr, Zool All of the following courses (12 credits): HDCF 210, Lifespan Development	nust in	3	Hist 121*, History of Western Civilization to 1650 or Hist 122*, History of Western Civilization since 1650 or Hist 151*, U.S. History to 1877 or Hist 152*, U.S. History since 1877	or or or	3 3 4 3 3 4 3 2 S
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Major and Minor Requirements 159

Junior Year F	S	Senior Year F		S
Hist 300-400 level (to include Hist 380)6-12	6-9	Honors Directed Study (minimum of 3 credits)		
Electives (consider education option, second major or minor)	3-9	Major and Other Requirements10-12		0-12
· · · · · · · · · · · · · · · · · · ·	3-7	*Requirements for graduation with Honors College Distinction include 15 c. general education Honors, 3 credit hours of Honors Colloquium, 3 credit ho		
Senior Year F	S	Directed Study and 6 credit hours of Honors contract courses or, in lieu of co		
Hist 300-400 level6-12	6-9	students can choose to complete 3 additional credit hours of Honors Colle additional credits of Honors Directed Studies.	oquiun	and
SDSU Core: Goal 5**, Stewardship, p. 412-3	or 2-3	additional credits of fioliois Directed Studies.		
Electives, 100-400 level (consider education option,				
second major or minor)0-9	6-16	Horticulture (Ho) Major		
*The 30 credit Board of Regents General Education requirements (Gen	Ed) must be	, , ,		
completed as part of a students first 64 credits. See pages 35-37 for details		Peter Schaefer		
are part of these credits are indicated by an asterisk (*).	•	Department of Horticulture, Forestry, Landscape and Par	ks	
(G) The BOR General Education requirements include an International/Glo		Northern Plains Biostress Laboratory 201A 605-688-5136		
requirement of 6 credits. Courses may count toward both the Intern Diversity requirement and the social science and/or humanities and fine arts See pages 35-37 for details.		e-mail: sdsu_hflp@sdstate.edu		
**South Dakota State University has a 10 credit SDSU Institutional Graduation	n Requirement	Requirements for Horticulture Major - Production Emph	asis	
(SDSU Core). See pages 39-41 for details. These requirements are indicate	ed by a double	Bachelor of Science in Agriculture		
asterisk (**).		Freshman Year F		S
Students must take the proficiency examination after completing 48 credits. En		Bio-101-102*, Biology Survey I and Lab		3
a course in each of the General Education areas of social science, mather science, and humanities and fine arts must be taken prior to taking this exa-		Chem 106-107*, Chemistry Survey and Lab		4
	•	Engl 101*, Composition I		3
Requirements for History Minor: 18 cr Three of the following four courses:		Ho 111-111A, Introduction to Horticulture and Lab3	or	3
Hist 121, History of Western Civilization to 1650	3	Math 102*, College Algebra		
Hist 122, History of Western Civilization since 1650		Soc 150*, Social Problems, (G) or		
Hist 151, U.S. History to 1877		Soc 240*, Sociology of Rural America, (G) or		
Hist 152, U.S. History since 1877		Anth 210*, Cultural Anthropology, (G)	or	3
Additional credits (6 must be upper level)	9	SpCm 101-101A*, Fundamentals of Speech and Lab3		3
THE NAME OF THE OWNER O		Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3		3
Please Note: No more than 6 credits in Special Problems (His Internship (Hist 495) may be counted toward the major or minor; and	st 492) and	SDSU Core: Goal 1**, Wellness, p. 392		2
below a "C" in history courses may be used to fulfill major	and minor	Elective3	or	3
requirements.		Sophomore Year F		C
		Bot 201-202, General Botany and Lab		S
Honora Collogo (Hon)		Econ 202**, Macroeconomics Principles	or	3
Honors College (Hon)		Engl 201*, Composition II		3
Robert Burns		Ho 220-220A, Landscape Maintenance and Lab		3
Director of Honors College		Ho 230-230A, Greenhouse and Nursery Crops and Lab		3
Scobey Hall 308		Ho 240-240A, Fruit and Vegetable Crops and Lab		3
605-688-4909		Ho 250-250A, Woody Plants: Trees and Lab		
Committee Committee &		Ho 260, Woody Plants: Shrubs and Vines		2
Sample Curriculum* Freshman Year	C	PS 213-213A**, Soils and Lab	or	3
Engl 101, Composition I (Honors)	or 3	PS 223-223A, Principles of Plant Pathology and Lab3 Gen Ed Social Science*, pp. 35-37, (G)3		2
SpCm 101-101A, Fundamentals of Speech and Lab (Honors)		Gen La Gociai Gerence , pp. 33-37, (G)	or	3
or SpCm 222, Argumentative Debate (Honors)3		Summer Term		
Gen Ed Social Science (Honors) or3		Ho 494, Cooperative Education	1	
Gen Ed Mathematics (Honors)-Math 1235	or 5			
Major and Other Requirements10-12	10-12	Junior and Senior Years F		\mathbf{S}
C	~	BAdm 360, Organization and Management or		
Sophomore Year Gen Ed Hymanities and Eine Anta (Hanam)	S	Acct 210, Principles of Accounting I	or	3
Gen Ed Humanities and Fine Arts (Honors)		Bio 371-372, Genetics and Lab or	_	, ,
Gen Ed Social Science (Honors)	or 3 or 3-4	Ho 383-383A, Principles of Crop Improvement & Lab3-4	or 3	5-4
Major and Other Requirements10-12	10-12	Bot 327-327A, Plant Physiology and Lab	or	3
J	10 12	Ho 311-311A, Herbaceous Plants and Lab	OI	J
Junior Year F	\mathbf{S}	Ho 312-312A, Plant Propagation and Lab		3
Honors Contract Courses (6 credits allowable)	and/or 3	Ho 490, Seminar		1
Honors Colloquium (minimum 3 credits required)3		Phys 101-102, Survey of Physics and Lab4	or	4
Major and Other Requirements10-12	10-12	PS 305-305A, General Entomology and Lab		
		PS 334-334A, Diseases of Horticultural Crops and Lab3		
		SDSU Core: Goal 3**, Human Spirit, p. 40		2
·		SDSU Core: Goal 5**, Stewardship, p. 41	or	2
160 Maion and Miner Demission				

Electives2	3		Engl 379, Technical Communications3		3
Technical Electives***	5	5	Ho 312-312A, Plant Propagation and Lab		3
			Ho 490, Seminar	or	4
Choose 15 credits from the following: Ho 314-314A, Turf Management and Lab			PS 305-305A, General Entomology and Lab	OI	7
Ho 411-411A, Fruit Production and Lab	3	3	PS 334-334A, Diseases of Horticultural Crops and Lab3		
Ho 412-412A, Greenhouse Management and Lab	3		SDSU Core: Goal 3**, Human Spirit, p. 40	or	2
Ho 413-413A, Arboriculture and Lab		3	SDSU Core: Goal 5**, Stewardship, p. 412	or	2
Ho 415, Nursery Management3			Electives4	or	4
La 201, Introduction to Landscape Design	or 3	3			
		1	Choose 15 credits from the following:		
*The 30 credit Board of Regents General Education requirements (Gen Ed) completed as part of a students first 64 credits. See pages 35-37 for details. Co	must ourses	that	Ho 311-311A, Herbaceous Plants and Lab3		
are part of these credits are indicated by an asterisk (*).			Ho 314-314A, Turf Management and Lab3		•
(G) The BOR General Education requirements include an International/Global	Diver	sitv	Ho 411-411A, Fruit Production and Lab		3
requirement of 6 credits. Courses may count toward both the Internation	nal/Glo	obal	Ho 412-412A, Greenhouse Management and Lab		3
Diversity requirement and the social science and/or humanities and fine arts require See pages 35-37 for details.	uireme	ents.	Ho 413-413A, Arboriculture and Lab		3
• •			La 201, Introduction to Landscape Design	or	3
**South Dakota State University has a 10 credit SDSU Institutional Graduation Re (SDSU Core). See pages 39-41 for details. These requirements are indicated by	quiren	nent	La 201, indoduction to Landscape Design	01	J
asterisk (**).	y a doi	uoic	Choose 9 credits from the following:***		
	L 101		Acct 211, Principles of Accounting II3	or	3
Students must take the proficiency examination after completing 48 credits. Englisia course in each of the General Education areas of social science, mathematic			AgEc 354, Agricultural Marketing and Prices3	or	3
science, and humanities and fine arts must be taken prior to taking this exam.	,		BAdm 310, Business Finance3	or	3
***Technical electives will be selected with the assistance of the student's advise	r from	the	BAdm 334, Small Business Management3		
list of approved electives on file in the HFLP Department office. Any departure	e from	this	BAdm 350, Legal Environment of Business & Contracts3	or	3
list must be approved by the Head of the HFLP Department.			BAdm 351, Business Law I3	or	3
Requirements for Horticulture Major – Business Option			BAdm 380, Personal Finance3		3
Bachelor of Science in Agriculture			Econ 330, Money and Banking3		
Freshman Year F	:	Š	Econ 370, Marketing	or	
Bio 101-102*, Biology Survey I and Lab3		3	Econ 476, Marketing Research		3
Chem 106-107*, Chemistry Survey and Lab		4	Stat 281, Statistical Methods I	OI	3
	or,	3	*The 30 credit Board of Regents General Education requirements (Gen I	Ed) m	ust be
Ho 111-111A, Introduction to Horticulture and Lab3		3	completed as part of a students first 64 credits. See pages 35-37 for details.	Cours	es that
Math 102*, College Algebra3	or	3	are part of these credits are indicated by an asterisk (*).		
Soc 100*, Introduction to Sociology or			(G) The BOR General Education requirements include an International/Glob	al Div	versity
Soc 150*, Social Problems, (G) or			requirement of 6 credits. Courses may count toward both the Internat Diversity requirement and the social science and/or humanities and fine arts re	ional/(equire	Global ments.
Soc 240*, Sociology of Rural America, (G) or		•	See pages 35-37 for details.	oquino	
Anth 210*, Cultural Anthropology, (G)		3	**South Dakota State University has a 10 credit SDSU Institutional Graduation	Remin	rement
SpCm 101-101A*, Fundamentals of Speech and Lab3		3	(SDSU Core). See pages 39-41 for details. These requirements are indicated	by a	double
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3 Gen Ed Social Science*, pp. 35-37, (G)3		3	asterisk (**).		
SDSU Core: Goal 1**, Wellness, p. 39		2	Students must take the proficiency examination after completing 48 credits. Eng	lish 10	01, and
SDSO Colc. Goal 1 , Welliess, p. 37		_	a course in each of the General Education areas of social science, mathematical	atics,	natural
Sophomore Year F		S	science, and humanities and fine arts must be taken prior to taking this exam		
Acct 210, Principles of Accounting3	or	3	***Students seeking a Business Minor must take either Econ 370, BAdm 310, B BAdm 350. Stat 281 does not meet the Business Minor requirement.	Adm (334, or
Bot 201-202, General Botany and Lab3			BAdili 550. Stat 281 does not meet the business winter requirement.		
Econ 202**, Macroeconomics Principles3	or	3	Requirements for Horticulture Major - Science Option		
Engl 201*, Composition II3	or	3	Bachelor of Science in Agriculture		
Ho 220-220A, Landscape Maintenance and Lab		3	Freshman Year F		S
Ho 230-230A, Greenhouse and Nursery Crops and Lab		3	Bio 151-152*, General Biology I and Lab4		
Ho 240-240A, Fruit and Vegetable Crops and Lab		3	Chem 106-107*, Chemistry Survey and Lab		4
Ho 250-250A, Woody Plants: Trees and Lab		2	Engl 101*, Composition I3		
Ho 260, Woody Plants: Shrubs and Vines	0.	2	Ho 111-111A, Introduction Horticulture and Lab3		
PS 213-213A**, Soils and Lab	or	3	Math 102*, College Algebra3	or	3
PS 223-223A, Principles of Plant Pathology and Lab3			Soc 100*, Introduction to Sociology or		
Summer Term			Soc 150*, Social Problems, (G) or		
Ho 494, Cooperative Education	1		Soc 240*, Sociology of Rural America, (G) or Anth 210*, Cultural Anthropology, (G)3	or	3
110 17 1, Cooperative Databases			SpCm 101-101A*, Fundamentals of Speech and Lab3		•
Junior and Senior Years F		\mathbf{S}	Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3		3
BAdm 360, Organization and Management3	or	3	Gen Ed Social Science*, pp. 35-37, (G)		•
Bio 371-372, Genetics and Lab or			SDSU Core: Goal 1**, Wellness, p. 39	or	
Ho 383-383A, Principles of Crop Improvement & Lab3-4	or 3	-4	, , , , , , , , , , , , , , , , , , ,		
Bot 327-327A, Plant Physiology and Lab4					
Econ 201, Microeconomics Principles3	or	3			
			Main and Minon Dequino		L 1/1

Sophomore Year F Bot 201-202, General Botany and Lab		S	Hotel and Foodservice
Econ 202**, Macroeconomics Principles	or	3	Management
Engl 201*, Composition II	or	3	_
Ho 230-230A, Greenhouse and Nursery Crops and Lab		3	(HFM) Major
Ho 240-240A, Fruit and Vegetable Crops and Lab		3	Marilyn A. Swanson
Ho 250-250A, Woody Plants: Trees and Lab		2	Department of Nutrition, Food Science and Hospitality NFA 425
Math 120, Trigonometry3	or	3	605-688-5161
PS 213-213A**, Soils and Lab	or	3	e-mail: Marilyn_Swanson@sdstate.edu
PS 223-223A, Principles of Plant Pathology and Lab3			Descriptions and for Wedel and E 1
Summer Term			Requirements for Hotel and Foodservice Management Major Foodservice Management Option
Ho 494, Cooperative Education	-1		Bachelor of Science in Family and Consumer Sciences
		_	Freshman Year F S
Junior and Senior Years F Bio 371-372, Genetics and Lab	or	S	CSc 105, Introduction to Computers
Bot 327-327A, Plant Physiology and Lab	OI	4	Engl 101*, Composition I3 FCS 101, Family and Consumer Sciences: Professional
Chem 120-121, Elementary Organic Chemistry and Lab4	or	4	Foundations
Chem 361-361A, Biochemistry and Lab4	or	4	Math 102*, College Algebra
Engl 379, Technical Communications	or	3	NFSH 141-141A, Food Principles and Lab4
Ho 311-311A, Herbaceous Plants and Lab		_	NFSH 151, Food Technology
Ho 312-312A, Plant Propagation and Lab Ho 490, Seminar		3 1	NFSH 171, Introduction to the Hospitality and Tourism3
Phys 101-102, Survey of Physics and Lab	or	4	Psyc 101**, General Psychology
PS 305-305A, General Entomology and Lab	0.	٠,	SDSU Core: Goal 1**, Wellness, p. 39
PS 334-334A, Diseases of Horticultural Crops and Lab3			Gen Ed Natural Science*, pp. 35-37** 4
Stat 281, Statistical Methods I	or	3	~ · · · · ·
SDSU Core: Goal 3**, Human Spirit, p. 40 2 SDSU Core: Goal 5**, Stewardship, p. 41 2	or	2 2	Sophomore Year F S
3D30 Cole. Goal 5 7, Stewardship, p. 412	or	2	Acct 210, Principles of Accounting I
Choose 15 credits from the following:			Econ 202*, Macroeconomics Principles
Ho 314-314A, Turf Management and Lab3			Engl 201*, Composition II
Ho 411-411A, Fruit Production and Lab		3	NFSH 110, Perspectives in Nutrition3
Ho 412-412A, Greenhouse Management and Lab		3	NFSH 251-251A, Meal Service Management and Lab 3
Ho 413-413A, Arboriculture and Lab		3	Soc 150*, Social Problems, (G)
La 201, Introduction to Landscape Design	or	3	Gen Ed Natural Science*, pp. 35-37**4 Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3
, , , , , , , , , , , , , , , , , , ,		_	Gen Ed Humanities and Fine Arts*, pp. 35-37
Choose one course from the following:			NFSH 297, Professional Practicum (summer only) 2
Bio 343-343A, Cell Biology and Lab			
Bot 301-301A, Plant Systematics and Lab4 Bot 415-415A, Plant Ecology and Lab4			Junior Year F S BAdm 310, Business Finance
Bot 421-421A, Plant Anatomy and Lab			BAdm 350, Legal Environment of Business & Contracts 3
Ho 480, Environmental Stress Physiology3			Econ 201, Microeconomics Principles
Ho 492, Problems1-2			Econ 370, Marketing3
Ho 493, Special Topics1-4			HDCF 241, Family Relations3
Ho 590, Special Topics in Horticulture1-3			NFSH 261, Food Service Operations
If necessary, choose elective credits to bring total to 128 rec	niire	1	NFSH 271, Lodging and Casino Management
for graduation.	lunc	•	NFSH 361, Hospitality Industry Law
			NFSH 371, Food Service Purchasing
*The 30 credit Board of Regents General Education requirements (Gen Education completed as part of a students first 64 credits. See pages 35-37 for details.	i) mu ourses	st be	NFSH 381, Quantity Food Production and Service 3
are part of these credits are indicated by an asterisk (*).			NFSH 482, Hospitality Marketing or
(G) The BOR General Education requirements include an International/Globa	Dive	rsity	NFSH 407 Professional Practicum (summer cells)
requirement of 6 credits. Courses may count toward both the Internation Diversity requirement and the social science and/or humanities and fine arts rec	n`al/G	lobal	NFSH 497, Professional Practicum (summer only) 2
See pages 35-37 for details.	lanem	ciits.	Senior Year F S
**South Dakota State University has a 10 credit SDSU Institutional Graduation R	emire	ment	AS 241, Meat: Production to Consumption3
(SDSU Core). See pages 39-41 for details. These requirements are indicated by			BAdm 360, Organization and Management
asterisk (**).			CSc 312, Advanced Microcomputer Applications
Students must take the proficiency examination after completing 48 credits. Englis a course in each of the General Education areas of social science, mathemat science, and humanities and fine arts must be taken prior to taking this exam.	sh 101 ics, na	, and tural	NFSH 465, Cost Controls in Hospitality Industry

NFSH 372, Property Maintenance & Housekeeping or		Senior Year F		\mathbf{S}
NFSH 482, Hospitality Marketing	3	BAdm 334, Small Business Management3		_
NFSH 487 Transition to the Professional World1		BAdm 360, Organization and Management		3
NFSH 491 Professional Issues (Capstone)3	,	CSc 312, Advanced Microcomputer Applications		3
SDSU Core: Goal 3**, Human Spirit, p. 402		NFSH 421, Diversity in the Workplace		
SDSU Core: Goal 5**, Stewardship, p. 41	2	NFSH 455, Meeting and Convention Management or		
Electives3	1	HDCF 241, Family Relations		2
*The 30 credit Board of Regents General Education requirements (Gen Ed)	must be	NFSH 465, Cost Controls in Hospitality Industry		3 2
completed as part of a students first 64 credits. See pages 35-37 for details. Co	ourses that	or NFSH 361, Hospitality Industry Law		2
are part of these credits are indicated by an asterisk (*).		NFSH 372, Property Maintenance & Housekeeping or NFSH 482, Hospitality Marketing		3
(G) The BOR General Education requirements include an International/Global	Diversity	NFSH 482, Hospitality Marketing		3
requirement of 6 credits. Courses may count toward both the Internation	nal/Global	NFSH 491, Professional Issues (Capstone)		
Diversity requirement and the social science and/or humanities and fine arts requ See pages 35-37 for details.	internents.	SDSU Core: Goal 3**, Human Spirit, p. 40		
South Dakota State University has a 10 credit SDSU Institutional Graduation Rec	quirement	SDSU Core: Goal 5, Stewardship, p. 41		2
(SDSU Core). See pages 39-41 for details. These requirements are indicated by	y a double	SDSC Colc. Goal 5 , Stewardship, p. 41		-
asterisk (**).		*The 30 credit Board of Regents General Education requirements (Gen	Ed) mı	ust be
Students must take the proficiency examination after completing 48 credits. English	h 101, and	completed as part of a students first 64 credits. See pages 35-37 for details.	Course	es that
a course in each of the General Education areas of social science, mathematic	cs, natural	are part of these credits are indicated by an asterisk (*).		
science, and humanities and fine arts must be taken prior to taking this exam.		(G) The BOR General Education requirements include an International/Glol	bal Div	ersity
Requirements for Hotel and Foodservice Management Major	r	requirement of 6 credits. Courses may count toward both the Interna	tional/C	Global
Hotel and Hospitality Management Option		Diversity requirement and the social science and/or humanities and fine arts see pages 35-37 for details.	requirei	mems.
Bachelor of Science in Family and Consumer Sciences	_			
Freshman Year F	S	**South Dakota State University has a 10 credit SDSU Institutional Graduation (SDSU Core). See pages 39-41 for details. These requirements are indicated		
CSc 105, Introduction to Computers	3	asterisk (**).		404010
Engl 101*, Composition I3		Control of	-1:-L 10	د د. د
FCS 101, Family and Consumer Sciences: Professional		Students must take the proficiency examination after completing 48 credits. Enga course in each of the General Education areas of social science, mathem	gusn 10 natics, r	natural
Foundations1	•	science, and humanities and fine arts must be taken prior to taking this exar		
Math 102*, College Algebra	3			
NFSH 141-141A, Food Principles and Lab				
NFSH 171, Introduction to the Hospitality and Tourism3		Harris Development and Fo	:	1
Psyc 101**, General Psychology3	2	Human Development and Fa	Ш	цy
SpCm 101-101A*, Fundamentals of Speech and Lab	3	C4-diag (HDEC) Major		
SDSU Core: Goal 1**, Wellness, p. 392				
	2	Studies (HDFS) Major		
SDSU Core: Goal 5**, Stewardship, p. 41	3	,		
SDSU Core: Goal 5**, Stewardship, p. 41	3 4	Mary Kay Helling	y Scie	ences
Gen Ed Natural Science*, pp. 35-37**	4	Mary Kay Helling Department of Human Development, Consumer and Famil	y Scie	ences
Gen Ed Natural Science*, pp. 35-37** Sophomore Year F		Mary Kay Helling Department of Human Development, Consumer and Famil NFA 369	y Scie	ences
Gen Ed Natural Science*, pp. 35-37** Sophomore Year F Acct 210, Principles of Accounting I	4 S	Mary Kay Helling Department of Human Development, Consumer and Famil	y Scie	ences
Gen Ed Natural Science*, pp. 35-37** Sophomore Year Acct 210, Principles of Accounting I	4	Mary Kay Helling Department of Human Development, Consumer and Famil NFA 369		
Gen Ed Natural Science*, pp. 35-37** Sophomore Year F Acct 210, Principles of Accounting I	4 S 3	Mary Kay Helling Department of Human Development, Consumer and Famil NFA 369 605-688-6418	es Ma	
Gen Ed Natural Science*, pp. 35-37** Sophomore Year F Acct 210, Principles of Accounting I	4 S	Mary Kay Helling Department of Human Development, Consumer and Famil NFA 369 605-688-6418 Requirements for Human Development and Family Studi	es Ma	
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Gen Ed Natural Science*, pp. 35-37** Sophomore Year Acct 210, Principles of Accounting I Econ 202*, Macroeconomics Principles Engl 201*, Composition II NFSH 110, Perspectives in Nutrition NFSH 251-251A, Meal Service Management and Lab	4 S 3	Mary Kay Helling Department of Human Development, Consumer and Famil NFA 369 605-688-6418 Requirements for Human Development and Family Studi Bachelor of Science in Family and Consumer Sciences Freshman Year	es Ma	ajor S
Gen Ed Natural Science*, pp. 35-37** Sophomore Year Acct 210, Principles of Accounting I Econ 202*, Macroeconomics Principles Engl 201*, Composition II NFSH 110, Perspectives in Nutrition NFSH 251-251A, Meal Service Management and Lab Soc 150*, Social Problems, (G)	4 S 3 3	Mary Kay Helling Department of Human Development, Consumer and Famil NFA 369 605-688-6418 Requirements for Human Development and Family Studi Bachelor of Science in Family and Consumer Sciences Freshman Year Engl 101*, Composition I	es Ma	ajor S 3
Gen Ed Natural Science*, pp. 35-37** Sophomore Year Acct 210, Principles of Accounting I Econ 202*, Macroeconomics Principles Engl 201*, Composition II NFSH 110, Perspectives in Nutrition NFSH 251-251A, Meal Service Management and Lab Soc 150*, Social Problems, (G) Gen Ed Natural Science*, pp. 35-37**	4 S 3 3	Mary Kay Helling Department of Human Development, Consumer and Famil NFA 369 605-688-6418 Requirements for Human Development and Family Studi Bachelor of Science in Family and Consumer Sciences Freshman Year Fengl 101*, Composition I	or or	ajor S 3 2
Gen Ed Natural Science*, pp. 35-37** Sophomore Year Acct 210, Principles of Accounting I Econ 202*, Macroeconomics Principles Engl 201*, Composition II NFSH 110, Perspectives in Nutrition NFSH 251-251A, Meal Service Management and Lab Soc 150*, Social Problems, (G) Gen Ed Natural Science*, pp. 35-37** Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) 3	4 S 3 3	Mary Kay Helling Department of Human Development, Consumer and Famil NFA 369 605-688-6418 Requirements for Human Development and Family Studi Bachelor of Science in Family and Consumer Sciences Freshman Year Fengl 101*, Composition I	or or	ajor S 3 2
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Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 202*, Macroeconomics Principles Engl 201*, Composition II NFSH 110, Perspectives in Nutrition NFSH 251-251A, Meal Service Management and Lab Soc 150*, Social Problems, (G) Gen Ed Natural Science*, pp. 35-37** Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37 NFSH 497, Professional Practicum (summer only) Junior Year F BAdm 310, Business Finance BAdm 350, Legal Environment of Business and Contracts3 Econ 201, Microeconomics Principles Econ 370, Marketing HDCF 241, Family Relations or NFSH 455, Meeting and Convention Management NFSH 261, Food Service Operations NFSH 271, Lodging and Casino Management NFSH 361, Hospitality Industry Law or NFSH 465, Cost Controls in Hospitality Industry NFSH 371, Food Service Purchasing NFSH 482, Hospitality Marketing or	4	Mary Kay Helling Department of Human Development, Consumer and Family NFA 369 605-688-6418 Requirements for Human Development and Family Studi Bachelor of Science in Family and Consumer Sciences Freshman Year Engl 101*, Composition I 3 HDCF 141**, Individual and the Family 4 HDCF 150, Early Experience 4 HDCF 327, Human Development and Personality I: 5 Childhood 5 Childhood 7 Childhood 7 Childhood 7 Childhood 7 Consumer Sciences: Professional 7 Childhood 7 Soc 101, Family and Consumer Sciences: Professional 7 Soc 100, Introduction to Sociology 7 Soc 100, Introduction to Sociology 7 Soc 100, Introduction to Sociology 7 Son Ed Mathematics*, pp. 35-37 7 Son Ed Mathematics and Fine Arts*, pp. 35-37, (G) 7 Sophomore Year 7 CSc 105, Introduction to Computers 8 CSc 106, Introduction to Computers 8 CSc 107 CS	or	ajor S 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Sophomore Year Acct 210, Principles of Accounting I Acct 211, Principles of Accounting II Econ 202*, Macroeconomics Principles Engl 201*, Composition II NFSH 110, Perspectives in Nutrition NFSH 251-251A, Meal Service Management and Lab Soc 150*, Social Problems, (G) Gen Ed Natural Science*, pp. 35-37** Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) Son Ed Humanities and Fine Arts*, pp. 35-37 NFSH 497, Professional Practicum (summer only) Junior Year F BAdm 310, Business Finance BAdm 350, Legal Environment of Business and Contracts3 Econ 201, Microeconomics Principles Econ 370, Marketing HDCF 241, Family Relations or NFSH 455, Meeting and Convention Management NFSH 261, Food Service Operations NFSH 271, Lodging and Casino Management NFSH 361, Hospitality Industry Law or NFSH 465, Cost Controls in Hospitality Industry NFSH 371, Food Service Purchasing	4	Mary Kay Helling Department of Human Development, Consumer and Family NFA 369 605-688-6418 Requirements for Human Development and Family Studi Bachelor of Science in Family and Consumer Sciences Freshman Year Engl 101*, Composition I 3 HDCF 141**, Individual and the Family 2 HDCF 150, Early Experience 2 HDCF 327, Human Development and Personality I: Childhood 3 FCS 101, Family and Consumer Sciences: Professional Foundations 1 Psyc 101*, General Psychology 3 Soc 100, Introduction to Sociology 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 Gen Ed Mathematics*, pp. 35-37 Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) 3 Gen Ed Natural Science*, pp. 35-37 Sophomore Year CSc 105, Introduction to Computers Econ 201, Microeconomics Principles or Econ 202, Macroeconomics Principles or PolS 100, American Government 3 Engl 201*, Composition II 3	or o	ajor S 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Sophomore Year Acct 210, Principles of Accounting I Econ 202*, Macroeconomics Principles Engl 201*, Composition II NFSH 110, Perspectives in Nutrition Soc 150*, Social Problems, (G) Gen Ed Natural Science*, pp. 35-37** Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37 NFSH 497, Professional Practicum (summer only) Junior Year BAdm 310, Business Finance BAdm 350, Legal Environment of Business and Contracts3 Econ 201, Microeconomics Principles Econ 370, Marketing HDCF 241, Family Relations or NFSH 455, Meeting and Convention Management NFSH 261, Food Service Operations NFSH 271, Lodging and Casino Management NFSH 361, Hospitality Industry Law or NFSH 465, Cost Controls in Hospitality Industry NFSH 371, Food Service Purchasing NFSH 482, Hospitality Marketing or NFSH 372, Property Maintenance and Housekeeping Elective	4	Mary Kay Helling Department of Human Development, Consumer and Famil NFA 369 605-688-6418 Requirements for Human Development and Family Studi Bachelor of Science in Family and Consumer Sciences Freshman Year F Engl 101*, Composition I 3 HDCF 141**, Individual and the Family 2 HDCF 150, Early Experience 2 HDCF 327, Human Development and Personality I: Childhood 3 FCS 101, Family and Consumer Sciences: Professional Foundations 1 Psyc 101*, General Psychology 3 Soc 100, Introduction to Sociology 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 Gen Ed Mathematics*, pp. 35-37 3 Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) 3 Gen Ed Natural Science*, pp. 35-37 3-4 SDSU Core: Goal 1**, Wellness, p. 39 Sophomore Year F CSc 105, Introduction to Computers 3 Econ 201, Microeconomics Principles or Econ 202, Macroeconomics Principles or PolS 100, American Government 3 Engl 201*, Composition II 3 HDCF 241, Family Relations 3	or o	ajor S 3 2 2 3 3 3 3 3 4 2 S 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Sophomore Year Acct 210, Principles of Accounting I Econ 202*, Macroeconomics Principles Engl 201*, Composition II NFSH 110, Perspectives in Nutrition Soc 150*, Social Problems, (G) Gen Ed Natural Science*, pp. 35-37** Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) Gen Ed Humanities and Fine Arts*, pp. 35-37 NFSH 497, Professional Practicum (summer only) Junior Year BAdm 310, Business Finance BAdm 350, Legal Environment of Business and Contracts3 Econ 201, Microeconomics Principles Econ 370, Marketing HDCF 241, Family Relations or NFSH 455, Meeting and Convention Management NFSH 261, Food Service Operations NFSH 271, Lodging and Casino Management NFSH 361, Hospitality Industry Law or NFSH 465, Cost Controls in Hospitality Industry NFSH 371, Food Service Purchasing NFSH 482, Hospitality Marketing or NFSH 482, Hospitality Marketing or NFSH 372, Property Maintenance and Housekeeping	4	Mary Kay Helling Department of Human Development, Consumer and Family NFA 369 605-688-6418 Requirements for Human Development and Family Studi Bachelor of Science in Family and Consumer Sciences Freshman Year Engl 101*, Composition I 3 HDCF 141**, Individual and the Family 2 HDCF 150, Early Experience 2 HDCF 327, Human Development and Personality I: Childhood 3 FCS 101, Family and Consumer Sciences: Professional Foundations 1 Psyc 101*, General Psychology 3 Soc 100, Introduction to Sociology 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 Gen Ed Mathematics*, pp. 35-37 Gen Ed Humanities and Fine Arts*, pp. 35-37, (G) 3 Gen Ed Natural Science*, pp. 35-37 Sophomore Year CSc 105, Introduction to Computers Econ 201, Microeconomics Principles or Econ 202, Macroeconomics Principles or PolS 100, American Government 3 Engl 201*, Composition II 3	or o	ajor S 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

HDCF 337, Human Development and Personality II: Adolescence		Human Development, Child ar	nd
HDCF 347, Human Development and Personality III: Adulthood	3	Family Studies (HDCF) Minor	
Soc 150*, Social Problems, (G)	3	Mary Kay Helling	
Gen Ed Humanities and Fine Arts*, pp. 35-37	3	Department of Human Development, Consumer and Family So	iences
SDSU Core: Goal 3**, Human Spirit, p. 402-3 or	2-3	NFA 369	
Electives/Emphasis Area	2	605-688-6418	
Junior Year F	S	Requirements for Human Development, Child and Family S	tudies
CA 341, Management in Personal & Family Living3		Minor: 18 cr	
FCSE 421, Experience in Adult Education	2	All courses for the minor must be approved by the department	
HDCF 341, Family Theories 3 or	3	no later than the beginning of the junior year. Suggested courses in	nclude
HDCF 350, The Helping Relationship	3	(but are not limited to):	•
HDCF 355, Prevention Programs in Human Development and Family	3	HDCF 141, Individual and the Family	2
HDCF 364, Parent-Child Relations in a Professional	3	HDCF 250, The Development of Human Sexuality	
Context	3	HDCF 327, Human Development and Personality I:	3
Soc 370, Social Policy	,	Childhood	3
SDSU Core: Goal 4**, Science and Sci Methods,		HDCF 328, Experiences with Young Children	
p. 412-3 or	2-3	HDCF 337, Human Development and Personality II: Adolescence	
SDSU Core: Goal 5**, Stewardship, p. 41	2	HDCF 347, Human Development and Personality III:	
Electives/Emphasis Area	3	Adulthood	3
		(Reservation required; complete form in department office)	
Senior Year F	S	•	
CA 442, Family Resource Management or	3	·	
HDCF 414, Research Applications or		Interior Design (ID)	
Departmental approved substitution	3		
HDCF 441, Professional Issues in Child & Family Studies3 or	3	Major and Minor	
HDCF 457, Family Assessment	3	-	
HDCF 487, Orientation to Child and Family Services		Department of Apparel Merchandising and Interior Design	
Practicum 1		NFA 229	
HDCF 497, Practicum in Child and Family Services (or Summer Session)8-12 or 8	12	605-688-5196	
Electives/Emphasis Area		Requirements for Interior Design Major	
Diocuros Emphasis Tieu)-11	Bachelor of Science in Family and Consumer Sciences	
*The 30 credit Board of Regents General Education requirements (Gen Ed) m	ust be	Freshman Year F	S
completed as part of a students first 64 credits. See pages 35-37 for details. Cours are part of these credits are indicated by an asterisk (*).	es that	Art 111**, Drawing I	3
are part of these electris are indicated by an asterisk (*).		Art 121*, Design I	5
(G) The BOR General Education requirements include an International/Global Div		Engl 101*, Composition I3	
requirement of 6 credits. Courses may count toward both the International/ Diversity requirement and the social science and/or humanities and fine arts require		FCS 101, Professional Foundations1	
See pages 35-37 for details.		Geog 131-131A*, Physical Geography I and Lab4	
**South Dakota State University has a 10 credit SDSU Institutional Graduation Requi-	ement	Geog 132-132A*, Physical Geography II and Lab	4
(SDSU Core). See pages 39-41 for details. These requirements are indicated by a		ID 121, Interior Design Foundations2	
asterisk (**).		ID 122, Design Graphics3	
Students must take the proficiency examination after completing 48 credits. English 10	1, and	ID 150, Introduction to Interior Design I	3
a course in each of the General Education areas of social science, mathematics,		SpCm 101-101A*, Fundamentals of Speech and Lab	3
science, and humanities and fine arts must be taken prior to taking this exam.		SDSU Core: Goal 1**, Wellness, p. 392	
A pre-graduation check is required 1 semester before graduation semester. At beginn	ing of	Sophomore Year F	S
graduation semester, a graduation application must be completed.		AM 342-342A, Textiles I and Lab	3
A grade of "D" on courses in the major cannot be counted and course must be repeate		Hist 122*, History of Western Civilization since	
required course with a department/program prefix is considered a course in the m	ajor.	1650, (G)3	
		ID 151, Introduction to Interior Design II	
·		ID 230, Presentation Techniques3	
		ID 230, Presentation Techniques	2
		ID 230, Presentation Techniques	
		ID 230, Presentation Techniques	2
		ID 230, Presentation Techniques	
		ID 230, Presentation Techniques	3
		ID 230, Presentation Techniques	
		ID 230, Presentation Techniques	3
		ID 230, Presentation Techniques	3
		ID 230, Presentation Techniques	3
		ID 230, Presentation Techniques	3

Junior Year	F	S	Internati
Econ 201**, Microeconomics Principles or			
Econ 202**, Macroeconomics Principles		•	Charles McMulle
Engl 201*, Composition II		3	College of Agricu
HDCF 241, Family Relations		3	Agricultural Hall
ID 315-315A, Materials and Product Specification an Studio or	d		605-688-5133 e-mail: academic
ID 319-319A, Building Systems and Studio		3	
ID 316, Codes and Specifications			Leading to the B.
ID 320-320A, Color and Lighting Design and Lab			Two Years of same
ID 322, Intermediate Interior Design I			Required Electives
ID 323, Intermediate Interior Design II		3	Group I Electives
ID 417, Interior Design Practices or			International Expe
ID 310-310A, Interior Design Fabrics and Lab		2or3	* From the following
ID 424, History of Interiors I		3	of the following
1D 424, History of interiors 1		3	science. The remains
Communication of Californian on Comica Vocan			any of the remaining
Summer School either Junior or Senior Year		7	Anth 200, Gener Anth 310, Cultur
ID 497, Professional Practicum	• • • • • •	7	Econ 201, Micro
	:		Econ 370, Marke
Senior Year	F	S	• Econ 405, Comp
ArtH 100*, Art and Design Appreciation, (G) or			Econ 440, Econo
ArtH 211*, Survey of World Art and Architecture	, (G) or		EurS 300, Topic
ArtH 212*, Western Traditions in Art and			EurS 301, Topic
Architecture, (G)	3		Geog 200, Introd
BAdm 350, Legal Environment of Business & Contra	acts or		Geog 313, Geog
BAdm 360, Organization and Management or			Geog 314, Geog
BAdm 474, Principles of Selling or			Geog 315, Geog
ID 472, Retailing or			Geog 316, Geog
Acct 210, Principles of Accounting I	3		Geog 317, Geog
ID 422, Advanced Interior Design I			Geog 433, World
ID 423, Advanced Interior Design II		3	HDCF 141, Indi
ID 425, History of Interiors II		3	Hist 345, Histor
ID 477-477A, Portfolio and Senior Exhibit and Studi		2	Hist 418, Histor Hist 467, U.S. F
	0	2	NFSH 111, Food
ID 487, Pre-Practicum in Interior Design and		2	NFSH321, Hum
Housing		3	PolS 253, Curre
Soc 340**, Urban Sociology	_	3	PolS 350, Intern
Electives	2	2	PolS 446, China
the state of the s	t- (Cl)	74)	PolS 461, Early
*The 30 credit Board of Regents General Education requirement completed as part of a students first 64 credits. See pages 35-37			PolS 462, Mode
are part of these credits are indicated by an asterisk (*).	101 00111101		Psyc 101, Gener
•			Psyc 441, Social
(G) The BOR General Education requirements include an Interna requirement of 6 credits. Courses may count toward both			Soc 362, Popula
Diversity requirement and the social science and/or humanities ar			** The Group I Elec
See pages 35-37 for details.		•	degree in agricult
and a part of the first test of the Constitutional	O 4	n	leading to a B.S. in
**South Dakota State University has a 10 credit SDSU Institutional (SDSU Core). See pages 39-41 for details. These requirements a			_
asterisk (**).	iro moroatot	. by a douple	*** A work experience
· ·			student exchange courses or internat
Students must take the proficiency examination after completing 48 a course in each of the General Education areas of social scien science, and humanities and fine arts must be taken prior to taking	ce, mathem	atics, natural	the 494, 495, or 49
			Journali
Requirements for Interior Design Minor: 17 cr			
ID 121, Interior Design Foundations			Major a
ID 150, Introduction to Interior Design I			•
ID 151, Introduction to Interior Design II		3	Richard Lee
Interior Design Electives		9	Department of J
=			Drinting and Ior

ional Agriculture Option

ulture and Biological Sciences ll 156

605-688-5133
e-mail: academic.programs@abs.sdstate.edu
Leading to the B.S. in Agriculture or Biological Science
Two Years of same International Language
Required Electives*
Group I Electives**
International Experience and Seminar***
* From the following listed courses one course each must be selected from three
of the following course areas: economics, geography, history, and political
science. The remaining credits to make up the total of 12 may be chosen from
any of the remaining courses in the listing.
Anth 200, General Anthropology
Anth 310, Cultural Anthropology
Econ 201, Microeconomics Principles
Econ 370, Marketing
• Econ 405, Comparative Economic Systems
Econ 440, Economics of the International Sector
EurS 300, Topics in European Culture
EurS 301, Topics in European Society
Geog 200, Introduction to Human Geography
Geog 313, Geography of Latin America
Geog 314, Geography of the Former USSR Geog 315, Geography of Europe
Geog 316, Geography of Asia
Geog 317, Geography of Africa
Geog 433, World Crop & Soil Resources
HDCF 141, Individual & the Family

- ry of Russia
- ry of Latin America
- Foreign Relations (20th Century)

d & People

nan Nutrition

ent World Problems

national Relations

a & Asian Politics

Political Philosophy

ern Political Philosophy

ral Psychology

al Psychology

ation Problems

- ctives (ag) are presently included in all curricula leading to the B.S. ture but under this option they would also be required for a degree in Biological Science.
- e or experience at a university in another country through international or other means. You may also participate in international travel/study tional travel tours with consent. Student should register for credit using 96 series in their major.

ism (MCom) nd Minor

Richard_Lee@sdstate.edu

Journalism and Mass Communication Printing and Journalism 209 605-688-4171

Requirements for Journalism Major - Advertising **Bachelor of Arts in Arts and Science** Freshman Year MCom 151, Introduction to Mass Communication (recommended)......2 or

SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Natural Science*, pp. 35-373-4		3-4
Gen Ed Social Science*, pp. 35-373		3
Modern Language*, 101 & 102, (G)4		4
Sophomore Year F		\mathbf{S}
Econ 202*, Macroeconomics Principles3	or	3
Engl 201*, Composition II	or	3
MCom 160-160A, Basic Photography and Studio2	or	2
MCom 210-210A, Newswriting and Reporting and Studio3	or	3
MCom 213-213A, Journalism Typography and Studio2	or	2
Modern Language, 201 & 2023		3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
SDSU Core: Goal 2**, Human Community, p. 392-3	or	2-3
SDSU Core: Goal 4**, Science, p. 412-3	or	2-3
Electives3		3
Junior Year F		S
Econ 370, Marketing3		2
•	or	3,
MCom 370, Principles of Advertising3	or	3,
	or	<i>3</i> ,
MCom 370, Principles of Advertising	or	3
MCom 370, Principles of Advertising		3 3
MCom 370, Principles of Advertising		3
MCom 370, Principles of Advertising	or	3 3
MCom 370, Principles of Advertising	or or or	3 3 3
MCom 370, Principles of Advertising	or or or	3 3 3 3
MCom 370, Principles of Advertising	or or or	3 3 3 3 2-3
MCom 370, Principles of Advertising 3 MCom 371-371A, Advertising Copy and Layout and Studio 3 MCom 372, Media and Markets 3 MCom Elective 3 SDSU Core: Goal 3**, Human Spirit, p. 40 3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 Social Science Electives 4 MCom 495, Internship (Summer) 2	or or or	3 3 3 2-3 6 2
MCom 370, Principles of Advertising 3 MCom 371-371A, Advertising Copy and Layout and Studio 3 MCom 372, Media and Markets MCom Elective 3 SDSU Core: Goal 3**, Human Spirit, p. 40 3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 Social Science Electives 4 MCom 495, Internship (Summer) 2 Senior Year F	or or or	3 3 3 3 2-3 6 2
MCom 370, Principles of Advertising 3 MCom 371-371A, Advertising Copy and Layout and Studio 3 MCom 372, Media and Markets 3 MCom Elective 3 SDSU Core: Goal 3**, Human Spirit, p. 40 3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 Social Science Electives 4 MCom 495, Internship (Summer) 2 Senior Year F MCom 414, Mass Communication Law 3	or or or	3 3 3 2-3 6 2
MCom 370, Principles of Advertising 3 MCom 371-371A, Advertising Copy and Layout and Studio 3 MCom 372, Media and Markets 3 MCom Elective 3 SDSU Core: Goal 3**, Human Spirit, p. 40 3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 Social Science Electives 4 MCom 495, Internship (Summer) 2 Senior Year F MCom 414, Mass Communication Law 3 MCom 417, History of Journalism or 3	or or or or	3 3 3 2-3 6 2 S 3
MCom 370, Principles of Advertising 3 MCom 371-371A, Advertising Copy and Layout and Studio 3 MCom 372, Media and Markets 3 MCom Elective 3 SDSU Core: Goal 3**, Human Spirit, p. 40 3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 Social Science Electives 4 MCom 495, Internship (Summer) 2 Senior Year F MCom 414, Mass Communication Law 3 MCom 417, History of Journalism or MCom 416, Mass Media in Society 3	or or or or	3 3 3 3 2-3 6 2 S 3
MCom 370, Principles of Advertising 3 MCom 371-371A, Advertising Copy and Layout and Studio 3 MCom 372, Media and Markets 3 MCom Elective 3 SDSU Core: Goal 3**, Human Spirit, p. 40 3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 Social Science Electives 4 MCom 495, Internship (Summer) 2 Senior Year F MCom 414, Mass Communication Law 3 MCom 417, History of Journalism or 3 MCom 416, Mass Media in Society 3 MCom 473, Advertising Campaigns 3	or or or or	3 3 3 3 2-3 6 2 S 3 3
MCom 370, Principles of Advertising 3 MCom 371-371A, Advertising Copy and Layout and Studio 3 MCom 372, Media and Markets 3 MCom Elective 3 SDSU Core: Goal 3**, Human Spirit, p. 40 3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 Social Science Electives 4 MCom 495, Internship (Summer) 2 Senior Year F MCom 414, Mass Communication Law 3 MCom 417, History of Journalism or 3 MCom 416, Mass Media in Society 3 MCom 473, Advertising Campaigns 3 MCom Electives 3	or or or or	3 3 3 3 2-3 6 2 S 3 3 3 3 3 3
MCom 370, Principles of Advertising 3 MCom 371-371A, Advertising Copy and Layout and Studio 3 MCom 372, Media and Markets 3 MCom Elective 3 SDSU Core: Goal 3**, Human Spirit, p. 40 3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 Social Science Electives 4 MCom 495, Internship (Summer) 2 Senior Year F MCom 414, Mass Communication Law 3 MCom 417, History of Journalism or 3 MCom 473, Advertising Campaigns 3 MCom Electives 3 Humanities Electives, pp. 39-41 3	or or or or	3 3 3 3 2-3 6 2 S 3 3 3 3 3 3 3 3
MCom 370, Principles of Advertising 3 MCom 371-371A, Advertising Copy and Layout and Studio 3 MCom 372, Media and Markets 3 MCom Elective 3 SDSU Core: Goal 3**, Human Spirit, p. 40 3 SDSU Core: Goal 5**, Stewardship, p. 41 2-3 Social Science Electives 4 MCom 495, Internship (Summer) 2 Senior Year F MCom 414, Mass Communication Law 3 MCom 417, History of Journalism or 3 MCom 416, Mass Media in Society 3 MCom 473, Advertising Campaigns 3 MCom Electives 3	or or or or or or	3 3 3 3 2-3 6 2 S 3 3 3 3 3 3

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Journalism Major – Advertising Bachelor of Science in Arts and Science

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or	3
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or	3
	or or or

Engl 201*, Composition II	or	3
MCom 160-160A, Basic Photography and Studio2	or	2
MCom 210-210A, Newswriting and Reporting and Studio3	or	3
MCom 213-213A, Journalism Typography and Studio2	or	2
A&S Core: Natural Science (Biological), pp. 35-373		3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
SDSU Core: Goal 2**, Human Community, p. 392-3	or	2-3
SDSU Core: Goal 4**, Science, p. 412-3	or	2-3
Electives3		3
		Ū
Junior Year F		S
Econ 370, Marketing	or	3
MCom 370, Principles of Advertising3		
MCom 371-371A, Advertising Copy and Layout and		
Studio3	or	3
MCom 372, Media and Markets		3
MCom Elective	or	3
SDSU Core: Goal 3**, Human Spirit, p. 40	or	3
SDSU Core: Goal 5**, Stewardship, p. 412-3	or	2-3
Social Science Electives		6
MCom 495, Internship (Summer)2	or	2
·		
Senior Year F		S
MCom 414, Mass Communication Law3	or	3
MCom 417, History of Journalism or		
MCom 416, Mass Media in Society3	or	3
MCom 473, Advertising Campaigns3	or	3
MCom Electives3		3
Humanities Electives		3
Electives4		7

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Journalism Major – Broadcast Journalism Bachelor of Arts in Arts and Science

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or	S 3
or or	-
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or	3
or	3
or	3 3 2
or or	3 3 2
or or	3 3 2 3 3
	or

SDSU Core: Goal 4**, Science, p. 412-3	or	2-3
Electives		2
Junior Year F		S
MCom 316-316A, Public Affairs Reporting and Studio		
(recommended)3	or	3
MCom 331-331A, Television Production and Lab3	or	3
MCom 332-332A, Radio News Reporting and Studio3	or	3
MCom 333-333A, Television News Reporting and Studio 3	or	3
MCom Elective3	or	3
SDSU Core: Goal 3**, Human Spirit, p. 403	or	3
SDSU Core: Goal 5**, Stewardship, p. 412-3	or	2-3
Social Science Electives4		6
MCom 495, Internship (Summer)2	or	2
Senior Year F		S
MCom 414, Mass Communication Law	or	3
MCom 417, History of Journalism or		
MCom 416, Mass Media in Society3	or	3
MCom 433-433A, Advanced Television News Reporting		
and Studio3	or	3
MCom Electives3		3
Humanities Elective**, pp. 39-41	or	3
Electives6		10

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- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Journalism Major – Broadcast Journalism Bachelor of Science in Arts and Science S Freshman Year 3 Engl 101*, Composition I3 or MCom 151, Introduction to Mass Communication (recommended)2 2 3 SpCm 101-101A*, Fundamentals of Speech and Lab3 3 3. Gen Ed Natural Science (Physical)*, pp. 35-374 4 3 S Sophomore Year 3 or 3 or MCom 160-160A, Basic Photography and Studio2 2 MCom 210-210A, Newswriting and Reporting and or 3 PolS 210*, State and Local Government, pp. 35-373 or 3 A&S Core: Natural Science (Biological), pp. 35-373 3 SDSU Core: Goal 1**, Wellness, p. 392 2 or SDSU Core: Goal 2**, Human Community, p. 392-3 or 2-3 SDSU Core: Goal 4**, Science, p. 412-3 or 2-3 S Junior Year MCom 316-316A, Public Affairs Reporting and Studio 3 (recommended)3

NG 001 001 1 E1 1 1 D 1 1 1 1 1 1 0		
MCom 331-331A, Television Production and Lab3	or	3
MCom 332-332A, Radio News Reporting and Studio3	or	3
MCom 333-333A, Television News Reporting and Studio 3	or	3
MCom Elective	or	3
SDSU Core: Goal 3**, Human Spirit, p. 403	or	3
SDSU Core: Goal 5**, Stewardship, p. 412-3	or	2-3
Social Science Electives4		6
MCom 495, Internship (Summer)2	or	2
Senior Year F		\mathbf{S}
260 444 28 60 1 1 2		_
MCom 414, Mass Communication Law3	or	3
MCom 414, Mass Communication Law	or	3
	or	3
MCom 417, History of Journalism or	02	
MCom 417, History of Journalism or MCom 416, Mass Media in Society	02	
MCom 417, History of Journalism or MCom 416, Mass Media in Society	or	3
MCom 417, History of Journalism or MCom 416, Mass Media in Society	or	3
MCom 417, History of Journalism or MCom 416, Mass Media in Society	or or	3 3 3

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Journalism Major – News-Editorial **Bachelor of Arts in Arts and Science** Freshman Year S Engl 101*, Composition I3 3 MCom 151, Introduction to Mass Communication (recommended)2 SpCm 101-101A*, Fundamentals of Speech and Lab3 3 Gen Ed Social Science*, pp. 35-373 3 Gen Ed Natural Science*, pp. 35-37......3-4 3-4 Modern Language*, 101 & 102, (G)4 Sophomore Year S 3 or 3 MCom 160-160A, Basic Photography and Studio2 MCom 210-210A, Newswriting and Reporting and or 3 MCom 213-213A, Journalism Typography and Studio ...2 2 or PolS 210*, State and Local Government, pp. 35-373 3 3 SDSU Core: Goal 1**, Wellness, p. 392 2 SDSU Core: Goal 2**, Human Community, p. 392-3 or 2-3 SDSU Core: Goal 4**, Science, p. 412-3 Electives3 Junior Year S MCom 310, Newspaper Editing2 or MCom 311, Editing Lab (concurrent with 310)1 MCom 316-316A, Public Affairs Reporting and Studio ...3 SDSU Core: Goal 3**, Human Spirit, p. 403 SDSU Core: Goal 5**, Stewardship, p. 412-3 or 2-3 Social Science Electives4 MCom 495, Internship (Summer)2

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

Senior Year F	*	S
MCom 412, Advanced Editing Lab	or	, 1
MCom 414, Mass Communication Law3	or	3
MCom 417, History of Journalism or		•
MCom 416, Mass Media in Society3	or	3
MCom Electives3	i	3
Humanities Elective**, pp. 39-413	or	3
Electives6	,	10

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Journalism Major – News-Editorial Bachelor of Science in Arts and Science

bachelor of Science in Arts and Science		
Freshman Year F		S
Engl 101*, Composition I	or	3
MCom 151, Introduction to Mass Communication		
(recommended)2	or	2
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373	or	_
Gen Ed Social Science*, pp. 35-373		3
Gen Ed Natural Science (Physical)*, pp. 35-374		4
Gen Ed Humanities*, (G)		3
Gon La Tramamico , (G)		J
Sophomore Year F		S
Econ 202*, Principles of Macroeconomics	or	3
Engl 201*, Composition II	or	3
MCom 160-160A, Basic Photography and Studio2	or	2
MCom 210-210A, Newswriting and Reporting and	OI	2
	- m	3
Studio	or	
MCom 213-213A, Journalism Typography and Studio2	or	
PolS 210*, State and Local Government, pp. 35-373	or	3
A&S Core: Natural Science (Biological)*, pp. 35-373		3
SDSU Core: Goal 1**, Wellness, p. 39	or	-
SDSU Core: Goal 2**, Human Community, p. 392-3		2-3
SDSU Core: Goal4**, Science, p. 412-3	or	2-3
Electives3		
v . v		~
Junior Year F		S
MCom 310, Newspaper Editing2	or	2
MCom 311, Editing Lab (concurrent with 310)1	or	1
MCom 316-316A, Public Affairs Reporting and Studio3	or	3
MCom Elective3	or	3
SDSU Core: Goal 3**, Human Spirit, p. 403	or	3
SDSU Core: Goal 5**, Stewardship, p. 412-3	or	2-3
Social Science Electives4		6
MCom 495, Internship (Summer)2	or	2
Senior Year F		S
MCom 412, Advanced Editing Lab1	or	1
MCom 414, Mass Communication Law3	or	3
MCom 417, History of Journalism or		
MCom 416, Mass Media in Society3	or	3
MCom Electives3		3
Humanities Elective**, pp. 39-413	or	3
Electives6		10

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Journalism Minor: 16 cr

To include:

Landscape Design (La) Major

Peter Schaefer

Department of Horticulture, Forestry, Landscape and Parks Northern Plains Biostress Laboratory 201A 605-688-5136

e-mail: sdsu_hflp@sdstate.edu

Bachelor of Science in Agriculture

Requirements for Landscape Design Major

Freshman Year F		S
Bio-101-102*, Biology Survey I and Lab or		
Bio 151-152, General Biology I and Lab3-4	or 3	3-4
Bio 103-104, Biology Survey II and Lab or		
Bot 201-202, General Botany and Lab or		
Bio 153-154, General Biology II and Lab3-4	or 3	3-4
Chem 106-107*, Chemistry Survey and Lab or		
Chem 112-113, General Chemistry I and Lab4	or	4
Engl 101*, Composition I3	or	3
Ho 111-111A, Introduction to Horticulture and Lab3	or	3
ID 122, Design Graphics	or	3
Math 113*, College Algebra & Trigonometry, or		
Math 102, College Algebra and		
Math 120, Trigonometry5	or	5
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3	or	3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Sophomore Veer F		C
Sophomore Year F CM 210 Construction Surveying or		S
CM 210, Construction Surveying or		S
CM 210, Construction Surveying or CEE 106, Elementary Surveying and	٥r	
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or.	3
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or	3
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys		3
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or	3 1 3
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or or	3 1 3
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or	3 1 3
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or or	3 1 3 2 3
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or or	3 1 3 2 3
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or or	3 1 3 2 3
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or or	3 1 3 2 3
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or or	3 1 3 2 3
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or or	3 1 3 2 3 4
CM 210, Construction Surveying or CEE 106, Elementary Surveying and CEE 108, Engineering Surveys	or or	3 1 3 2 3 4

Junior Year F		\mathbf{S}
Art 111**, Drawing I (FA) or		
Art 121**, Design I (FA)or		
Art 123**, Three Dimensional Design (FA)3	or	3
Ho 220-220A, Landscape Maintenance and Lab or		
Technical Elective***		3
Ho 311-311A, Herbaceous Plants and Lab3		
La 231, Introduction to LandCADD		3
La 241, History of Landscape Architecture		
La 314, Landscape Design Studio4		
La 322, Site Planning		3
La 324-324A, Planning Public Grounds and Lab3		
La 364, Planting Design and Specification		4
Phys 101-102, Survey of Physics and Lab or		
Phys 111-112, Introduction to Physics and Lab4	or	4
Senior Year F		S
Econ 202**, Macroeconomics Principles3	or	3
La 323, Landscape Construction3		
La 421-421A, City Planning and Lab		
La 424-424A, Recreational Facilities Design and Lab3		
La 464, Landscape Professional Practice Studio		4
WL 110**, Environmental Conservation or		
Rang 205-205A**, Introduction to Range Management		
and Lab2-3	or 2	2-3
Technical Electives***5		6
Communications Elective (See ABS College Listing)2	or	2
The 30 credit Board of Regents General Education requirements (Gen E completed as part of a students first 64 credits. See pages 35-37 for details. (are part of these credits are indicated by an asterisk ().		
(G) The BOR General Education requirements include an International/Globa requirement of 6 credits. Courses may count toward both the International Diversity requirement and the social science and/or humanities and fine arts respectively.	onal/C	Hobal

See pages 35-37 for details.

South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk ().

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

***Technical electives will be selected with the assistance of the student's adviser from the list of approved electives on file in the HFLP Department office. Any departure from this list must be approved by the Head of the HFLP Department.

(FA) The fine arts course selected can not have also been used for the BOR Gen Ed core.

No grade below a "C" in an La prefixed course will be accepted toward a major in Landscape

Latin American Area Studies Program (LAAS)

Deanna Dykstra Rey, Coordinator College of Arts and Science **NFA 117** 605-688-4273

Requirements (Minimum of 22 credit hours as indicated below)

Section A	Credits
Span 101-102, Introductory Spanish I-II	4-4
Span 201-202, Intermediate Spanish I-II	3-3
Span 311-312, Spanish Composition and Conversation	2-2
Minimum Sub Total	8

Section B	Credits
Span 356, Spanish American Literature	3
Span 436, Spanish American Culture & Civilization	1-3
Span 484, 20th Century Spanish American Literature	3
Span 492, Special Problems	1-3
(oriented toward Latin America)	
(Courses in English)	
Geog 313, Geography of Latin America	3
Hist 418, History of Latin America	_
Hist 493, Topics in History	1-5
PolS 347, Latin American Politics	3
(LAAS courses)	
LAAS 301, Latin American Cultures (Topical)	3
LAAS 302, Latin American Societies (Topical)	3
LAAS 491, Directed Studies in Latin American	
Cultures	1-3
Minimum Sub Total	14
Recommended Electives	
Additional courses in Spanish are strongly recommended.	
Anth 200, General Anthropology	3
Anth 310, Cultural Anthropology	3
Econ 405, Comparative Economic Systems	.3
Econ 440, Economics of the International Sector	3
Hist 467, U.S. Foreign Relations (20th Century)	3
NFSH 321, Human Nutrition	3
PolS 253, Current World Problems	3
PolS 350, International Relations	3
PolS 461, Early Political Philosophy	3
PolS 462, Modern Political Philosophy	3
Soc 362, Population Problems	3

Liberal Studies Major

Allen Branum College of Arts and Science **NFA 251** 605-688-6619

Requirements for Liberal Studies Major

Bachelor of Science in Arts and Science		
Freshman Year F		S
Engl 101*, Composition I	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Natural Science*, pp. 35-37, Science3		3
Gen Ed Social Science*, pp. 35-373		3
SDSU Core: Goal 1**, Wellness, p. 39	or	2
Sophomore Year F		S
Engl 201*, Composition II	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-373	or	3
General Electives3	•	3
Junior and Senior Years		
SDSU Core: Goal 2**, Human Community, p. 39 and		
College Core6		
SDSU Core: Goal 4**, Science and Science Methods, p. 41		
and College Core8		
SDSU Core: Goal 5**, Stewardship, p. 412-3		

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- All students must demonstrate advanced Information Technology Literacy (ITL). Numerous courses fulfill this requirement.

Manufacturing Engineering Technology (MNET) Major

Reza Maleki, Head Carrie Mattson, Program Coordinator Department of Engineering Technology and Management Wenona Hall 302 605-688-6583

Requirements for Manufacturing Engineering Technolo Bachelor of Science in Manufacturing Engineering Tech	gy Major inology
Freshman Year	\mathbf{S}
Chem 106-107*, Chemistry Survey and Lab	
Econ 202*, Macroeconomics Principles	. 3
Engl 101*, Composition I	3
GE 101, Introduction to Engineering and Technology1	
GE 120-120A, Engineering Drawing/CAD and Lab	. 3
or	
GE 121, Engineering Design Graphics I and	
GE 123, Computer Aided Drawing1	. 1
Math 113*, College Algebra & Trigonometry	i
Math 222, Calculus for Non-Math Majors	. 5
MNET 231-231A, Manufacturing Processes I and Lab	. 3
SpCm 101-101A*, Fundamentals of Speech and Lab3	1
Gen Ed Social Science*, pp. 35-37 + (G)	. 3
SDSU Core: Goal 1**, Wellness, p. 392	
G 1	
Sophomore Year F	
Engl 379*, Technical Communications	. 3
GE 231**, Technology and Society	
MNET 243-243A, Introduction to Materials Science and Lab	. 3
MNET 251-251A, Electricity and Electronics I and Lab3	
MNET 252-252A, Electricity and Electronics II and Lab	3
MNET 260, Production/Operations Management3	
Phys 111-112*, Introduction to Physics I and Lab4	
Stat 281**, Statistical Methods I	
Gen Ed Humanities and Fine Arts*, pp. 35-37 + (G)3	
Junior Year F	S
CSc 312, Advanced Microcomputer Applications	~
MNET 241-241A, Applied Mechanics and Lab	
MNET 320-320A, Computer Aided Design/Drawing and	
Lab3	
MNET 334-334A, CAM/CNC and Lab	
MNET 350-350A, Fluid Power Technology and Lab	
MNET 361-361A, Metrology and Process Control and	•
Lab3	
MNET 367, Plant Layout and Material Handling	
Phys 113-114, Introduction to Physics II and Lab4	
-	

SDSU Core: Goal 2**, Human Community, p. 39	2 2 3
Senior Year F	S
MNET 365, Industrial Safety and Accident Prevention3	
MNET 436-436A, Tool and Die Fundamentals and Lab3	
MNET 451-451A, Industrial Electronics and Control and	•
Lab3	
MNET 453-453A, Manufacturing Automation and Lab	3
MNET 460, Manufacturing Cost Analysis	3
MNET 462, Quality Management3	
MNET 463, Production and Inventory Management3	
MNET 469-469A, Project Management and Lab3	š
MNET 495, Internship	3
Technical Electives	4
	•

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- +System General Education Core requires a total of 6 credits to meet Goal #7, International/Global Diversity. One of these 3 classes does not have to meet Goal #7 criteria, but must meet the guidelines for Goal #3, Social Sciences or Goal #4, Humanities and Fine Arts.

Mathematics (Math) Major and Minor

Kenneth Yocom Department of Mathematics and Statistics Harding Hall 101 605-688-6196

Requirements for Mathematics Major		
Bachelor of Science in Arts and Science		
Freshman Year F		S
Chem 106-107* Chemistry Survey and Lab or		٥
Chem 112-113*, General Chemistry I and Lab4		
CSc 150, Computer Science I		3
Engl 101*, Composition I3	or	3
Math 123*, Calculus I5		
Math 224, Calculus II		4
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Natural Science*, Biology Elective, pp. 35-373		
Gen Ed Humanities and Fine Arts*, pp. 35-37		3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
SDSU Core: Goal 4**, Biology Elective, p. 41		3
Sophomore Year F		S
Econ 202*, Macroeconomics Principles		
Engl 201*, Composition II		3
Math 215, Matrix Algebra2		
Math 225, Calculus III3		
Math 253, Elementary Logic & Set Theory		3
Math 271, Mathematical Applications with Computers3		

Phys 211-212**, University Physics I and Lab4		Math 355, Methods of Teaching Mathematics	3
Phys 213-214, University Physics II and Lab	.4	One of the following:	_
Gen Ed Humanities and Fine Arts*, pp. 35-37	3	Math 313, Modern Algebra	3
Gen Ed Social Science*, pp. 35-37, (G)	3	Math 315, Linear Algebra	3
Gen La Boolai Belence , pp. 55 57, (C)		Math 345, Topics in Discrete Mathematics	2
Junior Year F	S	Math 381, Mathematical Statistics	4
Engl 379, Technical Communications3		,	
Choose 3 of the following 4 courses:		An average of "C" is required in the minor courses.	
Math 313, Modern Algebra or			
Math 315, Linear Algebra or		•	
Math 425, Introduction to Real Analysis I or	* •	Mechanical Engineering (ME))
Math 426, Introduction to Real Analysis II6	3	Michainean Engineering (MIL)	,
SDSU Core: Goal 2**, Human Community, p. 39	3	Major	
SDSU Core: Goal 3**, Human Spirit, p. 40	2		
Electives7	8	Don Froehlich	
_	~	Department of Mechanical Engineering	
Senior Year F	S	Crothers Engineering Hall 210	
Math 401, Senior Seminar1	•	605-688-5426	
Math Electives (300 level or above)	3	D	
SDSU Core: Goal 2**, Human Community, p. 393		Requirements for Mechanical Engineering Major	
SDSU Core: Goal 5**, Stewardship, p. 41	12	Bachelor of Science in Mechanical Engineering (Accredited by the Engineering Accreditation Commission of the Acc	raditation
Electives4	13	Board for Engineering and Technology)	reditation
*The 30 credit Board of Regents General Education requirements (Gen E	(d) must be	Freshman Year F	S
completed as part of a students first 64 credits. See pages 35-37 for details.		Chem 112-113*, General Chemistry I and Lab4	•
are part of these credits are indicated by an asterisk (*).		GE 121, Engineering Design Graphics I and	
(G) The BOR General Education requirements include an International/Globa	al Diversity	GE 122, Engineering Design Graphics II1	1
requirement of 6 credits. Courses may count toward both the International	ional/Global	EM 221, Statics	3
Diversity requirement and the social science and/or humanities and fine arts re See pages 35-37 for details.	equirements.	Engl 101*, Composition I	
occ pages 33-37 for details.		GE 101**, Introduction to Engineering and Technology 1	
**South Dakota State University has a 10 credit SDSU Institutional Graduation F		Math 123*, Calculus I and	
(SDSU Core). See pages 39-41 for details. These requirements are indicated asterisk (**).	by a double	Math 224, Calculus II5	4
		Phys 211-212*, University Physics I and Lab	4
Students must take the proficiency examination after completing 48 credits. Engl a course in each of the General Education areas of social science, mathema		SpCm 101-101A, Fundamentals of Speech and Lab	3
science, and humanities and fine arts must be taken prior to taking this exam		Gen Ed Social Science*, pp. 35-373	
A grade of C or above is required in all Math courses.		Gen Ed Humanities and Fine Arts*, pp. 35-37	3
		Sophomore Year F	S
Mathematics Requirements in Teacher Education		CSc 213, Introduction to Programming with FORTRAN or	b
In the B.S. program above, students seeking teacher certif		CSc 218, Introduction to C/C++/UNIX for	
secondary mathematics must take the following mathematics of	courses:	Engineers3	
Math 261, Geometry for Teachers	3	Econ 202*, Macroeconomics Principles	3
Math 345, Topics in Discrete Mathematics	2 3	EM 222, Dynamics	-
Math 355-355A, Methods of Teaching Mathematics & Lab	3 4	EM 321, Mechanics of Materials	3
Math 381, Mathematical Statistics	4	Engl 210*, Introduction to Literature	3
and the two courses:		GE 123, Computer Aided Design & Graphics1	
Math 313, Modern Algebra	3	GE 225, Industrial Machine Tool Applications1	
Math 315, Linear Algebra	3	Math 225, Calculus III	
rather than three of 313, 315, 425, and 426.	5	Math 321, Differential Equations	3
1 and 1 and 01 515, 515, 125, and 126.		ME 240**, Introduction to Mechanical Design	3
Requirements for Mathematics Major		ME 241**, Engineering Materials3	
Bachelor of Arts in Arts and Science		ME 311, Thermodynamics I	. 3
This program will not accept new students after July	1, 1996.	Phys 213-214**, University Physics II and Lab4	
Students enrolled in this program prior to July 1, 1996, will f			
plan of study outlined in the 1994-96 catalog.		Junior Year F	S
		EE 300-301, Basic Electrical Engineering I and Lab and	_
Requirements for Mathematics Minor: 23 cr		EE 302-303, Basic Electrical Engineering II and Lab 3	3
Math 123, Calculus I or		EM 331, Fluid Mechanics	
Math 222, Calculus for Non-Math Majors	5	Engl 379*, Technical Communications	
Math 224, Calculus II	4	Math 331, Advanced Engineering Math or	
Math 253, Elementary Logic and Set Theory	3	Math 471, Numerical Analysis	
Mathematics courses at the 200 level or above	11	Math 381, Mathematical Statistics	4
		ME 312, Thermodynamics II	-11
Required of minors in the Teacher Education Program:		ME 376 376A Managements & Instrumentation & Lab	2
Math 261, Geometry for Teachers	3	ME 376-376A, Measurements & Instrumentation & Lab	2

ME 415**, Heat Transfer	3 2 2
Senior Year F ME 322, Vibrations 3 ME 419-419A, Heating and Air Conditioning Design and Lab or	S
ME 418, Design of Thermal Systems or ME 413, Turbomachinery	
ME 451, Automatic Controls	3.
ME 456, Dynamic Systems Lab ME 476, Thermo-Fluids Lab ME 477**, Mechanical Systems Design I	1
ME 478**, Mechanical Systems Design II	2
SDSU Core: Goal 3**, Human Spirit, p. 40	2
Technical Electives5-6	8-9
Technical Electives (11 credits) The 11 credits of technical electives may be chosen from the list. At least one course must be in design. Design courses are in the course must be in design.	following dentified
by a (D). ME 313, Analytical Thermodynamics	
ME 341, Metallurgy	
ME 362**, Industrial Engineering	
ME 411**, Environmental Engineering3	
ME 412, Internal Combustion Engines (D)3	
ME 413, Turbomachinery (D)	
ACC 41 Abds A: Diff. Co. 1 (D)	
ME 414**, Air Pollution Control (D)3	
ME 416-416A, Computer Aided Engineering	
ME 416-416A, Computer Aided Engineering and Lab (D)	
ME 416-416A, Computer Aided Engineering and Lab (D)	
ME 416-416A, Computer Aided Engineering and Lab (D)	
ME 416-416A, Computer Aided Engineering and Lab (D)	
ME 416-416A, Computer Aided Engineering and Lab (D)	
ME 416-416A, Computer Aided Engineering and Lab (D)	

Courses from other departments or disciplines accepted on approval.

Internship (D)1-3

ME 440, Computer Aided Design (D)3 ME 461, Analysis & Design of Industrial Systems (D)3 ME 492, Special Problems (D)1-5 ME 493, Special Topics (D)1-5

ME 494**/495**, Cooperative Education/

- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- ME students receive educational experiences for understanding the relationship between the environment and society and stewardship. The principles of wise use of the environment, impact analyses of communities, organizations and society on environments, and the knowledge and care of the environment are part of ME design courses, experiments, course projects along with internships, cooperative education experiences, engineering

technical tours and inspections, activities of professional engineering organizations and curriculum assignments. The primary courses that cover these elements are GE 101, ME 240, 241, 362, 411, 414, 415, 477, 480, 494, and 495. For Mechanical Engineering students, these educational experiences fulfill the SDSU IGR, Stewardship (SDSU Core:

(Pre-) Medicine

John Grove **Department of Chemistry and Biochemistry Shepard Hall 215** 605-688-4266 e-mail: john_grove@sdstate.edu

Suggested Pre-Medicine Plan of Study

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	or (

Senior Year

Complete Major Requirements

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

Microbiology (Micr)		Phys 111-112, Introduction to Physics I and Lab and Phys 113-114, Introduction to Physics II and Lab
Major and Minor		or Phys 100-102, Survey of Physics and Lab4 4
Gary Peterson		SDSU Core: Goal 2**, Human Community, p. 39
Department of Biology and Microbiology	•	SDSU Core: Goal 3**, Human Spirit, p. 40
Agricultural Hall 304		Departmental Emphasis & Elective Courses***1 7
605-688-6141 e-mail: biomicro@abs.sdstate.edu		Senior Year F S
e-man: biomicro@abs.sustate.edu		Chem 461, Intermediate Biochemistry or
Requirements for Microbiology Major		Chem 232-233, Analytical Chemistry I and Lab3-4
Bachelor of Science in Arts and Science		Micr 422-422A, Immunology and Lab4
Freshman Year F	S	Micr 436, Molecular & Microbial Genetics4
Anth 210*, Cultural Anthropology, (G) or		Micr 490, Seminar1
Soc 150*, Social Problems, (G) or		Social Science Elective, pp. 39-41
Soc 240*, Sociology of Rural America, (G)3	,	Communications Elective (recommend Engl 379)3
Bio 151-152, General Biology I and Lab and		Departmental Emphasis & Elective Courses***1 13
Bio 153-154, General Biology II and Lab4	4	WITH 20 J's Double County Harvey
Chem 112-113*, General Chemistry I and Lab and		*The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that
Chem 114-115*, General Chemistry II and Lab**4	4	are part of these credits are indicated by an asterisk (*).
Engl 101*, Composition I		(G) The BOR General Education requirements include an International/Global Diversity
Mathematics, select either a, or b, or c.		requirement of 6 credits. Courses may count toward both the International/Global
a. Math 113*, Algebra & Trigonometry or	•	Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
Math 102*, College Algebra and Math 120, Trigonometry b. Math 222*, Calculus for Non-Math Majors		See pages 33-37 for details.
c. Math 123*, Calculus I	5-6	**South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement
SpCm 101-101A*, Fundamentals of Speech and Lab	3	(SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
SDSU Core: Goal 1**, Wellness, p. 39	5	
5200 00101 00112 1 , 11111111111111		Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural
Sophomore Year F	S	science, and humanities and fine arts must be taken prior to taking this exam.
Anth 210*, Cultural Anthropology or		***The College of Arts and Science requires that at least 40 semester credits of the 128 total
Geog 210*, World Regional Geography or		for graduation be upper division (300 and above). If you plan to teach Biology with this
PolS 253*, Current World Problems or		curriculum, see the Undergraduate Teacher Education program and consult with the Dean
Soc 100*, Introduction to Sociology or		of Education and Counseling.
Soc 150*, Social Problems or		Requirements for Microbiology Major
Soc 240*, Sociology of Rural America	2	Bachelor of Science in Biological Science
(different than above)	3	Freshman Year F S
Select 2 of the following, (G):		Anth 210*, Cultural Anthropology, (G) or
ArtH 100*, Art and Design Appreciation or		Soc 150*, Social Problems, (G) or
Engl 250*, Literature of Diverse Cultures or Hist 121*, History of Western Civilization to 1650 or		Soc 240*, Sociology of Rural America, (G)3
Hist 122*, History of Western Civilization to 1650 or	,	Bio 151-152, General Biology I and Lab and
Phil 215*, Introduction to Social/Political Philosophy or		Bio 153-154, General Biology II and Lab4
Phil 220*, Introduction to Ethics or		Chem 112-113*, General Chemistry I and Lab and
Rel 213*, Introduction to Religion or	,	Chem 114-115*, General Chemistry II and Lab**4
Modern Language*3	3	Engl 101*, Freshman Composition
Chem 326-327, 328-329, Organic Chemistry and Labs or		Mathematics, select either a, or b, or c. a. Math 113*, Algebra & Trigonometry or
Chem 120-121, Elementary Organic Chemistry and		Math 102*, College Algebra and Math 120, Trigonometry
Lab, and Chemistry Elective4	4	b. Math 222*, Calculus for Non-Math Majors
Engl 201*, Composition II	. 3	c. Math 123*, Calculus I
Micr 231-232, General Microbiology and Lab4		SpCm 101-101A*, Fundamentals of Speech and Lab 3
Micr 332-333, Microbial Physiology and Lab	4	SDSU Core: Goal 1**, Wellness, p. 392
Micr 390, Undergraduate Seminar1		
Stat 281, Statistical Methods (for Math option a & b		Sophomore Year F S
above) or		Anth 210*, Cultural Anthropology or
Math 224, Calculus II (for Math option c above)3-4		Geog 210*, World Regional Geography or
Junior Year F	S	PolS 253*, Current World Problems or
Bio 311**, Principles of Ecology or	U	Soc 100*, Introduction to Sociology or
Bio 383***, Bioethics or		Soc 150*, Social Problems or
EnvM 275****, Introduction to Environmental		Soc 240*, Sociology of Rural America
Science		(different than above)
Bio 371, Genetics		Select 2 of the following, (G):
Chem 361-361A, Biochemistry and Lab4		ArtH 100*, Art and Design Appreciation or Engl 250*, Literature of Diverse Cultures or
•		Hist 121*, History of Western Civilization to 1650 or
		That is , thousand it modern civilization to 1050 of

Hist 122*, History of Western Civilization since 1650 or Phil 215*, Introduction to Social/Political Philosophy or Phil 220*, Introduction to Ethics or	Microbiology Emphasis: Areas of Study - Take at least one (1) course from each section for a minimum of 14 credit hours:
Rel 213*, Introduction to Religion or	Section 1, Applied and Environmental
Modern Language*	Micr 310-310A, Environmental Microbiology and Lab 4
Chem 326-327, 328-329, Organic Chemistry and Labs	Micr 414-414A, Anaerobic Microbiology and Lab 3
or Chem 120-121, Elementary Organic Chemistry	Micr 421, 421A, Soil Microbiology and Lab
and Lab and Chemistry Elective4	Section 2, Infectious Disease
Engl 201*, Composition II	Micr 323-324, Medical Microbiology and Lab 4
Micr 231-232, General Microbiology and Lab4	Micr 424, 424A, Medical and Veterinary Virology
Micr 332-333, Microbial Physiology and Lab	and Lab4
Micr 390, Undergraduate Seminar1	Micr 425, Pathogenesis
Stat 281, Statistical Methods (for Math option a & b	Zool 467-467A, General Parasitology and Lab 3
above) or	Section 3, Molecular Biology
Math 224, Calculus II (for Math option c above)3-4	Bio 462, Molecular Biology I
•	Bio 464, Molecular Biology II
Junior Year F S	Bio 465, Molecular Biology II Lab
Bio 311**, Principles of Ecology or	Micr 438, Molecular Microbial Genetics Lab
Bio 383***, Bioethics or	Suggested General Electives - Take courses from this list as well as from
EnvM 275***, Introduction to Environmental	the above three sections to fulfill remainder of degree requirements.
Science3-4	Bio 445-445A, Histological Techniques and Lab 3
Bio 371, Genetics3	Chem 232-233, Analytical Chemistry and Lab+ 4
Chem 361-361A, Biochemistry and Lab4	Micr 311, Food Microbiology and Lab
Econ 202**, Macroeconomic Principles	Micr 492, Microbiology Problems 1-3
Phys 111-112, Introduction to Physics I and Lab and	Micr 494/495, Cooperative Education/Internship 1-12
Phys 113-114, Introduction to Physics II and Lab or	+Recommended as a general elective.
Phys 100-102, Survey of Physics and Lab4 4	Molecular Biology Emphasis:
SDSU Core: Goal 3**, Human Spirit, p. 40	Required Courses:
Departmental Emphasis and Elective Courses***	Micr 438, Molecular Microbial Genetics Laboratory 2
	Supporting Course Electives – Take a minimum of 12 credits from the
Senior Year F S	following:
Chem 461, Intermediate Biochemistry or	Bio 462, Molecular Biology I
Chem 232-233, Analytical Chemistry I and Lab3-4	Bio 464, Molecular Biology II
Micr 422,422A Immunology and Lab	Bio 465, Molecular Biology II Lab
Micr 436, Molecular & Microbial Genetics4	Bot 327, 327A, Plant Physiology and Lab
Micr 490, Senior Seminar	Chem 461, Intermediate Biochemistry
Communications Elective (recommend Engl 379) 3	Micr 424, 424A, Medical and Veterinary
Departmental Emphasis and Elective Courses***4 13	Virology & Lab
*The 30 credit Board of Regents General Education requirements (Gen Ed) must be	Micr 425, Pathogenesis
completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).	Micr 492, Microbiology Problems
(G) The BOR General Education requirements include an International/Global Diversity	Microbiology Electives – Take one course from the following:
requirement of 6 credits. Courses may count toward both the International/Global	Micr 310-310A, Environmental Microbiology & Lab 4
Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.	Micr 311-311A, Food Microbiology and Lab
See pages 33 37 for details.	Micr 414-414A, Anaerobic Microbiology and Lab 3
**South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement	Micr 421-421A, Soil Microbiology and Lab
(SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).	The 121 12111, boil Melobiology and 240
. ,	General Electives:
Students must take the proficiency examination after completing 48 credits. English 101, and	Bio 445-445A, Histological Techniques and Lab 3
a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.	Chem 232-233, Analytical Chemistry and Lab 4
	Chem 462-462A, Intermediate Biophysical Chemistry
***The College of Arts and Science requires that at least 40 semester credits of the 128 total for graduation be upper division (300 and above). If you plan to teach Biology with this	and Lab
curriculum, see the Undergraduate Teacher Education program and consult with the Dean	Chem 342-342A, 344-344A, Physical Chemistry
of Education and Counseling.	and Labs
	Micr 492, Microbiology Problem 1-3
Requirements for Microbiology Minor: 16 cr	Micr 494/495 Cooperative Education/Internship 1-12
The minor in Microbiology consists of Micr 231-232, General	1-12
Microbiology and Lab, and additional credit hours with a Micr prefix for a total of at least 16 credits. DS 301 may be included in the 16 credits.	Infectious Disease Emphasis: Required Course:
Two courses must be at the 300 level or above.	Micr 323-324, Medical Microbiology and Lab 4
	Micr 425, Pathogenesis
	, , , ,

Supporting Course Electives – Take a minimum of 12 cree following:	dits from the
Micr 311-311A, Food Microbiology and Lab Micr 424-424A, Medical and Veterinary	4
Virology & Lab	4
Micr 438, Molecular Microbial Genetics Lab	2
Micr 492, Microbiology Problems	1-3
Zool 467-467A, General Parasitology and Lab	3
Microbiology Electives – Take a minimum of one counfollowing:	rse from the
Micr 310-310A, Food Microbiology and Lab	4
Micr 414-414A, Anaerobic Microbiology and Lab Micr 421-421A, Soil Microbiology and Lab	3 3
General Electives:	
Bio 462, Molecular Biology I	2
Bio 464, Molecular Biology I	2
Bio 465, Molecular Biology II Lab	2
Bot 327-327A, Plant Physiology and Lab	4
Chem 232-233, Analytical Chemistry and Lab	4
Chem 461, Intermediate Biochemistry	3
Micr 492, Microbiology Problems	1-3
Micr 494/495, Cooperative Education/Internship	1-12
PS 232-232A, Principles of Plant Pathology and Lab	4
	4
Zool 325-325A, Mammalian Physiology and Lab	. 4
Applied & Environmental Emphasis: Required Courses:	
Micr 310-310A, Environmental Microbiology and Lab	4
Micr 438, Molecular Microbial Genetics Lab	2
17101 150, 17101000101 1710100101 Conounts Dut IIIIIIIIIII	, -
Supporting Course Electives – Take a minimum of 8 cred following:	lits from the
Chem 461, Intermediate Biochemistry	4
DS 301-301A, Dairy Microbiology and Lab	3
Micr 311-311A, Food Microbiology and Lab	4
Micr 414-414A, Anaerobic Microbiology and Lab	3
Micr 421-421A, Soil Microbiology and Lab	3
Micr 492, Microbiology Problems	1-3
Biology/Microbiology Electives – Take a minimum of on from the following:	ne (1) course
Micr 323-324, Medical Microbiology and Lab	. 4
Micr 424-424A, Medical and Veterinary	
Virology and Lab	4
Micr 425, Pathogenesis	. 3
Micr 492, Microbiology Problems	1-3
Zool 467-467A, General Parasitology and Lab	3
Suggested General Electives – Take courses from this list as the Supporting Courses and Biology/Microbiology Elect fulfill remainder of degree requirements.	
	3
Bio 311, Principles of Ecology	
Bio 462, Molecular Biology I	2
Bio 464, Molecular Biology II	2
Bio 465, Molecular Biology II Lab	2
Chem 232-233, Analytical Chemistry and Lab+	4
Chem 380, Environmental Chemistry	4
Chem 434-434A, Instrumental Analysis and Lab	4
EnvM 275, Introduction to Environmental Science	3
EnvM 425-425A, Disturbance Ecology and Lab	4
Micr 492, Microbiology Problems	1-3
Micr 494/495, Cooperative Education/Internship	1-12
Phil 332, Environmental Ethics	3
PS 213-213A, Soils and Lab	3
PS 362-362A, Environmental Soil Management & Lab	3
+Recommended as a general elective.	

Military Science (Mil) Minor

LTC Keith Corbett **Department of Military Science DePuy Military Hall 200** 605-688-6151

Requirements for Military Science Minor: 16 cr

A minor in Military Science is available for those who complete 12 credits offered and who enroll and complete Mil 494 ROTC Advanced Camp. This minor is compatible to fields of major studies.

Modern Language (ML) **Business-Economics Specialization**

Department of Modern Languages NFA 121 605-688-5101 Fax: 605-688-6699

Requirements for Modern Language Business-Economics Specialization:

20 cr. of one language
Mathematics Core
Econ 201, Microeconomics Principles
Econ 202, Macroeconomics Principles
subtotal 9
,
Choose 4 of the following courses
Acct 210, Principles of Accounting I
AgEc 354, Agricultural Marketing and Prices
AgEc 454, Economics of Grain & Livestock Marketing 3
AgEc 479, Agricultural Policy
BAdm 310, Business Finance
BAdm 350, Legal Environment of Business and Contracts 3
BAdm 360, Organization and Management 3
Econ 330, Money and Banking
Econ 370, Marketing
PolS 350, International Relations
Stat 281, Statistical Methods I
subtotal 12
Choose 1 of the following courses
Econ 405, Comparative Economic Systems
Econ 440, Economics of the International Sector
Econ 460, Economic Development
Econ 472, Resource and Environmental Economics
subtotal 3
Total 24

Within the above framework, individually tailored specializations will be possible. They will be planned in consultation with, and will be subject to the approval of, an adviser in the Department of Economics.

Music (Mus) Major and Minor

Corliss Johnson Department of Music Lincoln Music Center 204 605-688-5187 Corliss_Johnson@sdstate.edu

Requirements for Music Major Bachelor of Arts in Arts and Science		
Freshman Year F		S
Engl 101*, Composition I	or	3
Mus 110-110A, Basic Theory & Musicianship I & Lab and Mus 111-111A, Basic Theory & Musicianship II	OI .	3
and Lab		4
Mus 195, Recital Attendance0		0
SpCm 101*-101A, Fundamentals of Speech and Lab3	or	3
Applied Music1	OI	1
Music Organization 1		_
Con Ed Mothematics 25 27		1
Gen Ed Mathematics* pp. 35-37	or	3
Gen Ed Social Science*, (G), pp. 35-37	or	3
Gen Ed Natural Science* pp. 35-373		3
SDSU Core: Goal 1**, Wellness, p. 39	or	2
SDSU Core: Goal 4**, Science & Sci Method, p. 412	or	2
Sophomore Year F		S
Engl 201*, Composition II	or	3
Mus 195, Recital Attendance0		0
Mus 210-210A, Intermediate Theory & Musicianship III and Lab and		
Mus 211-211A, Intermediate Theory		
and Musicianship IV and Lab4		4
Mus 130, Music Literature and History I (World Music), and Mus 131, Music Literature and History II (Medieval and		
Renaissance)2		2
Mus 260-260A, Conducting Fundamentals and Lab2		
Applied Music1		1
Music Organization1		1
Gen Ed Social Science*, pp. 35-373	or	3
Modern Language*, (G), pp. 35-37	OI.	4
Junior Year F		S
Mus 195, Recital Attendance0		0
Mus 313, Form and Analysis3		
Mus 230**, Music Literature and History III (Baroque and Classical) and Mus 231**, Music Literature and History		
IV (Romantic)		2
· · · · · · · · · · · · · · · · · · ·		2
Music Electives		2
Modern Language		3
General Electives3		6
Applied Music2		2
Music Organization		1
Senior Year F		S
Mus 195, Recital Attendance0		0
Mus 433, Music Literature and History V (20th Century) 2		
Mus 483, Public Recital0	or	0
Applied Music	_	. 2
Humanities	or	3
Music Organization	O1	1
SDSU Core: Goal 2** Human Community, p. 39		2
		2
SDSU Core: Goal 5** Stewardship, p. 41	or	
General Electives5		8

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Music Minor: 22 cr	
Mus 110-110A-111-111A, Basic Theory and	
Musicianship I-II and Labs	8
Mus 130, Music Literature and History I	2
Mus 260-260A, Conducting Fundamentals and Lab	2
Mus 361-361A, Music Education II (Vocal or Instrumental	
Conducting) and Lab or Music Electives	2
Applied (at least two hours upper level—300/400)	6
Note: Mus 195 required for each semester enrolled	
for applied lessons.	
Music Electives	2

In addition, minors must participate in Major Ensembles each semester in which they are enrolled in Applied Music lessons. Participation in small ensembles is strongly encouraged.

Music Education Major

Corliss Johnson
Department of Music
Lincoln Music Center 204
605-688-5187
Corliss_Johnson@sdstate.edu

Requirements for Music Education Major Bachelor of Music Education		
Freshman Year F		\mathbf{S}
Engl 101*, Composition I	or	3
Mus 110-110A, Basic Theory & Musicianship I and Lab		
and Mus 111-111A, Basic Theory &		
Musicianship II & Lab4		4
Mus 195, Recital Attendance0		0
SpCm 101*-101A, Fundamentals of Speech and Lab3	or	3
Applied Music1		1
Music Organization1		1
	or	3
Gen Ed Social Science*, (G), pp. 35-37,		
Soc 150, Social Problems3	or	3
Gen Ed Natural Science*, pp. 35-373		3
SDSU Core: Goal 1**, Wellness, p. 392		
SDSU Core: Goal 4**, Science & Sci Methods, p. 41		2
Sophomore Year F		\mathbf{S}
Mus 130*, Music Literature and History I (World Music) and		
Mus 131*, Music Literature and History II (Medieval		
and Renaissance)2		2
Mus 195, Recital Attendance0		0
Mus 210-210A, Intermediate Theory & Musicianship		
III and Lab and		
Mus 211-211A, Intermediate Theory & Musicianship		
IV and Lab4		4
Mus 260-260A, Conducting Fundamentals and Lab2		
Mus 270-Mus 271, Pedagogy I and II1		1
Mus 361-361A, Music Education II: Conducting and Lab		2
Applied Music1		1

Music Organization	or	1 3
SDSU Core: Goal 5**, Stewardship, p. 41	or	2 3
Junior YearFMus 195, Recital Attendance.0		S 0
Mus 230**, Music Literature and History III (Baroque and Classical) and Mus 231, Music Literature and History IV (Romantic) (SDSU Core: Goal 3**, Human Spirit)2		2
Mus 313, Form and Analysis		3
Mus 362-362A, Music Education III: Methods and Materials and Lab		
Administration of School Music and Lab		2 1 2
Music Organization		1
America EDFN 365, Integrating Computers into the Classroom		3 2 .
Senior Year F Mus 195, Recital Attendance		S
Mus 420, Orchestration and Arranging	or	0
Professional Semester II		16
An emphasis in choral or instrumental teaching may be electe adding appropriate hours, students may prepare in both areas .	d, o	r, by
Specific Courses Required for Choral Emphasis: Mus 260-260A, Conducting Fundamentals and Lab		
Mus 270-271, Pedagogy I-II Mus 370-371, Pedagogy III-IV Mus 351-351A, Music Education I: Elementary Music		
Concepts & Lab Mus 361-361A, Music Education II: Conducting & Lab Mus 362-362A, Music Education III: Methods and		
Materials (Vocal) and Lab Mus 365-365A, Music Education IV: Supervision & Administration of School Music and Lab		
Specific Courses Required for Instrumental Emphasis: Mus 260-260A, Conducting Fundamentals and Lab		
Mus 270-271, Pedagogy I-II Mus 370-371, Pedagogy III-IV Mus 351-351A, Music Education I: Elementary Music Cond	cent	2
& Lab Mus 361-361A, Music Education II: Conducting and Lab	_	•
Mus 362-362A, Music Education III: Methods and Material (Instrumental) and Lab Mus 365-365A, Music Education IV: Supervision & Admin		tion
of School Music and Lab *The 30 credit Board of Regents General Education requirements (Gen Ed	i) mı	ıst be
completed as part of a students first 64 credits. See pages 35-37 for details. C are part of these credits are indicated by an asterisk (*).	ourse	s that

(G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.

South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk ().

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Music Merchandising Option

Corliss Johnson Department of Music Lincoln Music Center 204 605-688-5187 Corliss_Johnson@sdstate.edu

, , , , , , , , , , , , , , , , , , ,		
Requirements for Music Merchandising Option		
Bachelor of Science in Arts and Science		
Freshman Year	ı	S
Mus 110-110A, Basic Theory and Musicianship I, and		
Lab and Mus 111-111A, Basic Theory and		
Musicianship II, and Lab4		4
Applied Music		1
MuAp 115, Class Instruction in Keyboard and		1
MuAp 116, Class Instruction in Keyboard		1
Music Organization		1
Mus 195, Recital Attendance0		0
Mus 201*, History of Country Music, (G)		3
Mus 202, The Music Industry3		
Engl 101*, Composition I3	or	3
SpCm 101*-101A, Fundamentals of Speech and Lab3	or	3
Gen Ed Mathematics*, pp. 35-373		3
CSc 105, Introduction to Computers		3
SDSU Core: Goal 1**, Wellness, p. 39		2
, , , , , , , , , , , , , , , , , , ,		_
Sophomore Year F	1	S
Mus 195, Recital Attendance		0
Mus 210-210A, Intermediate Theory and Musicianship		U
III and Lab and Mus 211-211A, Intermediate Theory		,
and Musicianship IV and Lab4		4
Applied Music1		1
Music Organization		1
Mus 230**, Music Literature and History III (Baroque and		
Classical) and Mus 231, Music Literature and History		
IV (Romantic) (SDSU Goal 3**-Human Spirit)2		2
Econ 202*, Principles of Macroeconomics		3
Gen Ed Natural Science*, pp. 35-373		3
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3		
Gen Ed Social Science*, pp. 35-37, (G)		
Engl 201*, Composition II		3
	,	•
Junior Year F		\mathbf{S}
Applied Music2		2
Music Organization1		1 -
Mus 195, Recital Attendance0		0
Mus 203, Blues, Jazz and Rock		-
Acct 210, Principles of Accounting3		
MCom 370, Principles of Advertising		3
Natural Science (SDSU Core: Goal 4** Science & Science		3
Methods), p. 414		4
CDCII Coro, Gool 2** Human Community = 20		4
SDSU Core: Goal 2**, Human Community, p. 393		•
SDSU Core: Goal 5**, Stewardship, p. 41		2
Arts & Science Core: Social Science, pp. 39-41		3
14 1 114 P 1		

Senior Year F		\mathbf{S}
Applied Music2		
Mus 195, Recital Attendance0		0
Music Organization1	or	1
Mus 433, Music Literature and History V (20th Century) .2		
Mus 483, Public Recital0	or	0
BAdm 310, Business Finance3		,
Econ 370, Marketing		
MCom 212-212A, Desktop Publishing and Lab		3
Professional Electives5-6	5	5-6

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Nursing (Nurs) Major

Roberta Olson, Dean Judith Vinson College of Nursing NFA 255 605-688-5178 or 1-888-216-9806

Requirements for Nursing Major – Basic Bachelor of Science in Nursing	
Freshman Year	F . S
Chem 106-107*, Chemistry Survey and Lab***	.4
Chem 108-109*, Organic and Biochemistry and Lab**,**	* 5
Engl 101*, Composition I	
Math 102*, College Algebra*	.3
Psyc 101*, General Psychology+	
Soc 150*, Social Problems+, (G) or	
Soc 240*, Sociology of Rural America+, (G)	.3
SpCm 101-101A*, Fundamentals of Speech and Lab	3
Zool 221-222, Anatomy and Lab	3
Gen Ed Humanities/Fine Arts*, pp. 35-37, (G)	.3
SDSU Core: Goal 1**, Wellness, p. 39	
•	
	F S
Engl 201* Composition II	_
Eligi 201°, Composition ii	3
Engl 201*, Composition II	.3
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++	.3 .4
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++ NFSH 321, Human Nutrition	.3 .4 .3
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++	.3 .4 .3
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++ NFSH 321, Human Nutrition Nurs 264, Professional Perspectives I Nurs 265-265A, Health Assessment Intervention & Lab	.3 .4 .3 1 4
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++ NFSH 321, Human Nutrition Nurs 264, Professional Perspectives I	.3 .4 .3 1 4
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++ NFSH 321, Human Nutrition Nurs 264, Professional Perspectives I Nurs 265-265A, Health Assessment Intervention & Lab	.3 .4 .3 1 4 4 2
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++ NFSH 321, Human Nutrition Nurs 264, Professional Perspectives I Nurs 265-265A, Health Assessment Intervention & Lab Nurs 280-280A, Professional Communication and Lab	.3 .4 .3 1 4 4 2
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++ NFSH 321, Human Nutrition Nurs 264, Professional Perspectives I Nurs 265-265A, Health Assessment Intervention & Lab Nurs 280-280A, Professional Communication and Lab Nurs 282, Health Promotion	.3 .4 .3 1 4 4 2 3
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++ NFSH 321, Human Nutrition Nurs 264, Professional Perspectives I Nurs 265-265A, Health Assessment Intervention & Lab Nurs 280-280A, Professional Communication and Lab Nurs 282, Health Promotion Nurs 323, Introduction to Pathophysiology	.3 .4 .3 1 4 4 2 3
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++ NFSH 321, Human Nutrition Nurs 264, Professional Perspectives I Nurs 265-265A, Health Assessment Intervention & Lab Nurs 280-280A, Professional Communication and Lab Nurs 282, Health Promotion Nurs 323, Introduction to Pathophysiology Zool 325-325A, Mammalian Physiology and Lab Gen Ed Humanities and Fine Arts*, pp. 35-37++	.3 .4 .3 1 4 4 2 3
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++ NFSH 321, Human Nutrition Nurs 264, Professional Perspectives I Nurs 265-265A, Health Assessment Intervention & Lab Nurs 280-280A, Professional Communication and Lab Nurs 282, Health Promotion Nurs 323, Introduction to Pathophysiology Zool 325-325A, Mammalian Physiology and Lab Gen Ed Humanities and Fine Arts*, pp. 35-37++ Junior Year	.3 .4 .3 1 4 4 2 3 .4 .3
HDCF 210*, Lifespan Development** Micr 231-232*, General Microbiology and Lab++ NFSH 321, Human Nutrition Nurs 264, Professional Perspectives I Nurs 265-265A, Health Assessment Intervention & Lab Nurs 280-280A, Professional Communication and Lab Nurs 282, Health Promotion Nurs 323, Introduction to Pathophysiology Zool 325-325A, Mammalian Physiology and Lab Gen Ed Humanities and Fine Arts*, pp. 35-37++	.3 .4 .3 1 4 4 2 3 .4 .3 .5 .6 .7 .8 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9 .9

Nurs 330-330A, Family Health Environment Across the Lifespan and Lab	1 5 5
Electives	6
Senior YearFNurs 404, Professional Perspectives IV1Nurs 410-410A, Acute Health Care II and Lab5Nurs 420-420A, Chronic Health Care II and Lab4	S
Nurs 464, Professional Perspectives V	2
Nurs 475-475A, Community as Client and Lab	3
Nurs 491-491A, Directed Study in Nursing and Lab Stat 281**, Statistical Methods or	6
HSc 440, Epidemiology3	
Elective/Humanities/Fine Arts**	3

A total of 128 credits are required for graduation.

Required pre-nursing major courses: Chem 106-107, 108-109; HDCF 210; Micr 231-232; NFSH 321; Psyc 101; (one of the following) Soc 100, 150, 240, 250, or 340; Zool 221-222, 325-325A; MAJOR: Nurs 264, 265, 280, 282, 304, 320, 323, 330, 364, 370, 375, 404, 410, 420, 464, 475, 491.

Other required support courses: Pha 241; HSc 443; Stat 281 or HSc 440.

Eight elective credits or more are required to achieve 128 credits to graduate.

Six credits of Humanities-Fine Arts are required in 2 disciplines or a sequence of modern language courses. At least one must be on the International/Global Diversity requirement list to meet BOR system requirements. Two credits to meet the University requirements for graduation for a total of 8 credits of Humanities/Fine Arts.

Note: West River pre-nursing courses may not be offered in exactly the same semester as they are on the main campus in Brookings. However, this is a recommended sequence for courses.

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- ***Natural Sciences requirements 6 credits (Does not have to be in sequence) and 2 credits to meet SDSU core requirements (8 total credits).
- +Social Sciences requirements 6 credits (in 2 disciplines) and 3 credits to meet SDSU core requirements (9 total credits).
- ++Additional liberal studies core 5 credits to meet SDSU core requirements includes courses selected from the Humanities, Natural Sciences or Social Science. See pages 39-41 for details

Requirements for Nursing Major – RN Upward Mobility Bachelor of Science in Nursing

Please contact the Coordinator, RN Upward Mobility, at 605-688-6186, or 1-888-216-9806 ext. 6186, for plan.

Nutrition and Food Science (NFSH) Major and Minor

Marilyn A. Swanson

Department of Nutrition, Food Science and Hospitality NFA 425

605-688-5161

e-mail: Marilyn_Swanson@sdstate.edu

Requirements for Nutrition and Food Science Major – Al Didactic Program in Dietetics Bachelor of Science in Family and Consumer Sciences	DĄ	
Freshman Year F Chem 112-113*, General Chemistry I and Lab**4		S
Chem 114-115*, General Chemistry II and Lab** Engl 101*, Composition I		4
Engl 101*, Composition I	or	3
Math 102*, College Algebra		
NFSH 141-141A, Food Principles and Lab4 Soc 100, Introduction to Sociology or	or	4
Soc 150*, Social Problems, (G)	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
SDSU Core: Goal 1**, Wellness, p. 39 2	or	2
Sophomore Year F Acct 210, Principles of Accounting I		S
Chem 120-121, Elementary Organic Chemistry &Lab4 Chem 361-361A, Biochemistry and Lab		4
CSc 105, Introduction to Computers		3
Econ 202*, Macroeconomics Principles		3
Engl 201*, Composition II		J
Micro 231-232, General Microbiology and Lab4		
NFSH 321, Human Nutrition		3
Psyc 101**, General Psychology3		_
Zool 221-222, Anatomy and Lab		3
Junior Year F		3 S
Junior YearFHDCF 241, Family RelationsNFSH 261, Food Service Operations		S
Junior YearFHDCF 241, Family RelationsNFSH 261, Food Service OperationsNFSH 322, Assessment Skills in Nutrition		S
Junior YearFHDCF 241, Family RelationsNFSH 261, Food Service Operations.3NFSH 322, Assessment Skills in Nutrition.4NFSH 341-341A, Food Science and Lab.4		S 3
Junior Year F HDCF 241, Family Relations NFSH 261, Food Service Operations NFSH 322, Assessment Skills in Nutrition4 NFSH 341-341A, Food Science and Lab4 NFSH 371, Food Service Purchasing		S 3
Junior Year F HDCF 241, Family Relations NFSH 261, Food Service Operations NFSH 322, Assessment Skills in Nutrition4 NFSH 341-341A, Food Science and Lab4 NFSH 371, Food Service Purchasing NFSH 381, Quantity Food Production and Service		S 3 3
Junior Year F HDCF 241, Family Relations NFSH 261, Food Service Operations NFSH 322, Assessment Skills in Nutrition 4 NFSH 341-341A, Food Science and Lab 4 NFSH 371, Food Service Purchasing NFSH 381, Quantity Food Production and Service NFSH 422, Advanced Human Nutrition		\$ 3 3 4
Junior Year F HDCF 241, Family Relations NFSH 261, Food Service Operations NFSH 322, Assessment Skills in Nutrition 4 NFSH 341-341A, Food Science and Lab 4 NFSH 371, Food Service Purchasing NFSH 381, Quantity Food Production and Service NFSH 422, Advanced Human Nutrition Stat 281, Statistical Methods I		S 3 3
Junior Year F HDCF 241, Family Relations NFSH 261, Food Service Operations 3 NFSH 322, Assessment Skills in Nutrition 4 NFSH 341-341A, Food Science and Lab 4 NFSH 371, Food Service Purchasing NFSH 381, Quantity Food Production and Service NFSH 422, Advanced Human Nutrition Stat 281, Statistical Methods I Zool 325-325A, Mammalian Physiology and Lab 4	2	\$ 3 3 4
Junior Year F HDCF 241, Family Relations NFSH 261, Food Service Operations 3 NFSH 322, Assessment Skills in Nutrition 4 NFSH 341-341A, Food Science and Lab 4 NFSH 371, Food Service Purchasing NFSH 381, Quantity Food Production and Service NFSH 422, Advanced Human Nutrition Stat 281, Statistical Methods I Zool 325-325A, Mammalian Physiology and Lab 4 NFSH 497, Professional Practicum	2	\$ 3 3 4
Junior Year F HDCF 241, Family Relations NFSH 261, Food Service Operations 3 NFSH 322, Assessment Skills in Nutrition 4 NFSH 341-341A, Food Science and Lab 4 NFSH 371, Food Service Purchasing NFSH 381, Quantity Food Production and Service NFSH 422, Advanced Human Nutrition Stat 281, Statistical Methods I Zool 325-325A, Mammalian Physiology and Lab 4	2	\$ 3 3 4
Junior Year F HDCF 241, Family Relations NFSH 261, Food Service Operations 3 NFSH 322, Assessment Skills in Nutrition 4 NFSH 341-341A, Food Science and Lab 4 NFSH 371, Food Service Purchasing NFSH 381, Quantity Food Production and Service NFSH 422, Advanced Human Nutrition Stat 281, Statistical Methods I Zool 325-325A, Mammalian Physiology and Lab 4 NFSH 497, Professional Practicum	2	\$ 3 3 4
Junior Year F HDCF 241, Family Relations	2	S 3 3 4 3
Junior Year F HDCF 241, Family Relations	2	\$ 3 3 4 3 \$ \$
Junior Year F HDCF 241, Family Relations	2	\$ 3 3 4 3 \$ \$ \$
Junior Year F HDCF 241, Family Relations NFSH 261, Food Service Operations NFSH 322, Assessment Skills in Nutrition 4 NFSH 341-341A, Food Science and Lab 4 NFSH 371, Food Service Purchasing NFSH 381, Quantity Food Production and Service NFSH 422, Advanced Human Nutrition Stat 281, Statistical Methods I Zool 325-325A, Mammalian Physiology and Lab NFSH 497, Professional Practicum taken summer between Junior and Senior year Senior Year F FCSE 421, Adult Education 2 NFSH 423, Clinical Nutrition I 3 NFSH 424-424A, Community Nutrition and Lab NFSH 425-425A, Clinical Nutrition II and Lab	2	\$ 3 3 4 3 \$ \$
Junior Year F HDCF 241, Family Relations NFSH 261, Food Service Operations NFSH 322, Assessment Skills in Nutrition 4 NFSH 341-341A, Food Science and Lab 4 NFSH 371, Food Service Purchasing NFSH 381, Quantity Food Production and Service NFSH 422, Advanced Human Nutrition Stat 281, Statistical Methods I Zool 325-325A, Mammalian Physiology and Lab NFSH 497, Professional Practicum taken summer between Junior and Senior year Senior Year F FCSE 421, Adult Education 2 NFSH 423, Clinical Nutrition I 3 NFSH 424-424A, Community Nutrition and Lab NFSH 425-425A, Clinical Nutrition II and Lab NFSH 490, Seminar 1	2	\$ 3 3 4 3 \$ \$ \$
Junior Year F HDCF 241, Family Relations NFSH 261, Food Service Operations NFSH 322, Assessment Skills in Nutrition 4 NFSH 341-341A, Food Science and Lab 4 NFSH 371, Food Service Purchasing NFSH 381, Quantity Food Production and Service NFSH 422, Advanced Human Nutrition Stat 281, Statistical Methods I Zool 325-325A, Mammalian Physiology and Lab NFSH 497, Professional Practicum taken summer between Junior and Senior year Senior Year F FCSE 421, Adult Education 2 NFSH 423, Clinical Nutrition I 3 NFSH 424-424A, Community Nutrition and Lab NFSH 490, Seminar 1 NFSH 490, Seminar 1 NFSH 491, Professional Issues 3	2	\$ 3 3 4 3 \$ \$ \$ 3 3
Junior Year F HDCF 241, Family Relations	2	\$ 3 3 4 3 \$ \$ \$
Junior Year F HDCF 241, Family Relations	2	\$ 3 3 4 3 \$ \$ \$ 3 3 4 3
Junior Year F HDCF 241, Family Relations	2	\$ 3 3 4 3 \$ \$ \$ 3 3

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

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- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

NFSH 423, 424 and 425 require many off campus experiences at lunch time and later in the day. Plan a light course load when taking these courses.

Desiring outs for Nestrition and Food Colones Major

Requirements for Nutrition and Food Science Major			
Food Science Option			
Bachelor of Science in Family and Consumer Sciences			
Freshman Year F	S		
Chem 112-113*, General Chemistry I and Lab**4			
Chem 114-115*, General Chemistry II and Lab**	4		
Engl 101*, Composition I	or 3		
FCS 101, Family and Consumer Sciences: Professional			
Foundations1			
Math 113*, College Algebra & Trigonometry	5		
NFSH 151, Food Technology	2		
Soc 150*, Social Problems, (G)	or 3		
SpCm 101-101A*, Fundamentals of Speech and Lab3	or 3		
SDSU Core: Goal 1**, Wellness, p. 392			
SDSU Core: Goal 2**, Human Community, p. 392			
SDSU Core: Goal 3**, Human Spirit, p. 40			
5550 Colo. Gold 5 , Hamair Spirit, p. 40			
Sophomore Year F	S		
AS 241, Meat: Production to Consumption	3		
Chem 120-121, Elementary Organic Chemistry & Lab4	٠.		
DS 231, Dairy Foods			
Engl 201*, Composition II	3		
NFSH 141-141A, Food Principles and Lab	4		
NFSH 341-341A, Food Science and Lab	7		
Phys 111-112, Introduction to Physics I and Lab	. 4		
Psyc 101*, General Psychology	4		
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3	3		
Gen Ed Humanides and Fine Arts", pp. 33-37, (G)	3		
Junior Year F	S		
Bio 101-102, Biology Survey I and Lab	,		
Chem 232-233, Analytical Chemistry I and Lab	4		
	4		
Chem 361-361A, Biochemistry and Lab	4		
DS 313-313A, Technical Control of Dairy Products I			
and Lab			
Math 222, Calculus for Non-Math Majors			
Micr 231-232, General Microbiology and Lab	4		
NFSH 351-351A, Principles of Food Processing and Lab or			
NFSH 450-450A, Food Analysis and Lab	3-4		
NFSH 360-360A, Food Chemistry and Lab or			
NFSH 451-451, Advanced Food Processing and Lab	4		
Stat 281, Statistical Methods I3			
Senior Year F	6		
	S		
AST 443-443A, Food Process and Engineering			
Fundamentals and Lab			
DS 422-422A, Technical Control of Dairy Products II	,		
and Lab	4		
HDCF 241, Family Relations	3		
Micr 311-311A, Food Microbiology and Lab4	_		
NFSH 321, Human Nutrition	3		
NFSH 450-450A, Food Analysis and Lab or			
NFSH 351-351A, Principles of Food Processing and Lab	3-4		

NFSH 451-451A, Advanced Food Processing and Lab or	Phys 111-112, Introduction to Physics I and Lab and
NFSH 360-360A, Food Chemistry and Lab	Phys 113-114, Introduction to Physics II and Lab or
NFSH 490, Seminar in Food and Nutrition	Phys 211-212, University Physics I and Lab and
NFSH 491, Professional Issues 3	
SDSU Core: Goal 5**, Stewardship, p. 41	Zool 221-222, Anatomy and Lab
well on the London Day of the total of the total	Gen Ed Social Science*, pp. 35-37
The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that	Gen Ed Humanities and Fine Arts, pp. 35-373
are part of these credits are indicated by an asterisk (*).	SDSU Core: Goal 2**, Human Community, p. 392 or 2
	SDSU Core: Goal 3**, Human Spirit, p. 40
(G) The BOR General Education requirements include an International/Global Diversity	SDSU Core: Goal 5**, Stewardship, p. 41
requirement of 6 credits. Courses may count toward both the International/Global	
Diversity requirement and the social science and/or humanities and fine arts	Junior Year F S
requirements. See pages 35-37 for details.	Stat 281, Statistical Methods I
**South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement	Complete Major requirements
(SDSU Core). See pages 39-41 for details. These requirements are indicated by a double	· · · · · · · · · · · · · · · · · · ·
asterisk (**).	Senior Year
Students must take the proficiency examination after completing 48 credits. English 101, and	Complete Major requirements
a course in each of the General Education areas of social science, mathematics, natural	
science, and humanities and fine arts must be taken prior to taking this exam.	
·	Electives chosen from:
Requirements for Nutrition Minor: 18-19 cr	Bio 371, Genetics
Required courses include:	Bio 383, Bioethics
NFSH 110, Perspectives in Nutrition or	Chem 361-361A, Biochemistry
NFSH 221, Survey of Nutrition	Micr 231, General Microbiology
NFSH 141-141A, Food Principles and Lab	SpCm 201, Interpersonal Communication
NFSH 321, Human Nutrition	Zool 325, Mammalian Physiology
	·
NFSH 422, Advanced Human Nutrition	*The 30 credit Board of Regents General Education requirements (Gen Ed) must be
plus one of the following:	completed as part of a students first 64 credits. See pages 35-37 for details. Courses that
NFSH 322-322A, Assessment Skills in Nutrition and Lab 4	are part of these credits are indicated by an asterisk (*).
NFSH 423, Clinical Nutrition I	(G) The BOR General Education requirements include an International/Global Diversity
NFSH 424-424A, Community Nutrition and Lab	requirement of 6 credits. Courses may count toward both the International/Global
NFSH 425-425A, Clinical Nutrition II and Lab	Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
Any required prerequisites must also be taken. Students planning a	occ pages 33-37 for details.
minor must receive departmental approval. Higher level mathematics or	**South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement
chemistry course may be accepted with department approval.	(SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
I	doubling (·).
1	Students must take the proficiency examination after completing 48 credits. English 101, and
(Pre-) Optometry	a course in each of the General Education areas of social science, mathematics, natural
(Fre-) Optomen y	science, and humanities and fine arts must be taken prior to taking this exam.
Bob Rowland	
Department of Biology and Microbiology	
Northern Plains Biostress Laboratory, 214	Park Management (PR) Major
605-688-5982	i aik management (i K) major
e-mail: Raymond_Rowland@sdstate.edu	Peter Schaefer
c-man: Raymond_Rowand@Sustate.edu	Department of Horticulture, Forestry, Landscape and Parks
Currented Dee Deefeerings Dlan of Chady	Northern Plains Biostress Laboratory 201A
Suggested Pre-Professional Plan of Study	605-688-5136
Freshman Year F S	
Bio 151-152*, General Biology I and Lab and	e-mail: sdsu_hflp@sdstate.edu
Bio 153-154*, General Biology II and Lab4	There have the first Deall No.
Chem 112-113*, General Chemistry I and Lab and	Requirements for Park Management Major
Chem 114-115*, General Chemistry II and Lab 4	Bachelor of Science in Agriculture
Engl 101*, Composition I and	Freshman Year F S
SpCm 101-101A*, Fundamentals of Speech and Lab 3	Bio-101-102*, Biology Survey I and Lab
Math 102*, College Algebra and Math 120, Trigonometry or	Chem 106-107*, Chemistry Survey and Lab4 or 4
Math 113, Algebra & Trigonometry or3-5	Engl 101*, Composition I
	Ho 111-111A, Introduction to Horticulture and Lab3 or 3
Math 222, Calculus for Non-Math Majors or	Math 102*, College Algebra
Math 123, Calculus I 5 or 5	
Psyc 101*, General Psychology	PR 101, Parks and Society
SDSU Core: Goal 1**, Wellness, p. 39	Psyc 101*, General Psychology
	Soc 100*, Introduction to Sociology or
Sophomore Year F S	
Chem 120*, Elementary Organic Chemistry or	Soc 150* Social Problems, (G) or
	Soc 150* Social Problems, (G) or Soc 240*, Sociology of Rural America, (G) or
Chem 326-327*, Organic Chemistry I and Lab and	Soc 150* Social Problems, (G) or
	Soc 150* Social Problems, (G) or Soc 240*, Sociology of Rural America, (G) or
Chem 328-329, Organic Chemistry II and Lab 3-4 3-4	Soc 150* Social Problems, (G) or Soc 240*, Sociology of Rural America, (G) or Anth 210*, Cultural Anthropology, (G)
	Soc 150* Social Problems, (G) or Soc 240*, Sociology of Rural America, (G) or Anth 210*, Cultural Anthropology, (G)

G 1 Year		C	Diag 472 Tachylouse of State Decisional & Community Diagning 2
Sophomore Year F		S .	Plan 472, Techniques of State, Regional & Community Planning 3 PS 310-310A, Soil Geography & Land-Use Interpretation
Bio 200-200A, Biological Diversity and Lab	or .	3	
Econ 202**, Macroeconomics Principles		3	& Studio3
Engl 201*, Composition II	or	3	Park Management Suggested Electives
Ho 220-220A, Landscape Maintenance and Lab	or	4	Geog 464, Geographic Aspects of Regional Planning
Phys 101-102, Survey of Physics and Lab	OI	4	Hlth 250-250A, First Aid and Lab2
PolS 100**, American Government or	or	3	Ho 260, Woody Plants: Shrubs and Vines
PolS 210**, State & Local Government	OI	3	PE 321-321A, Water Safety Instructor and Lab
PR 202-202A, Outdoor Recreation Resource Management		3.	Phil 220, Introduction to Ethics
and Lab	1	<i>5</i> ,	Recr 260, Recreation Leadership
PR 496, Field Experience (summer)	1		Soc 308, Research Methods II
WL 110**, Environmental Conservation or			Soc 506, Research Wedious ii
Bio 311**, Principles of Ecology2-3	or 2	,)_3	*The 30 credit Board of Regents General Education requirements (Gen Ed) must be
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3		_	completed as part of a students first 64 credits. See pages 35-37 for details. Courses that
Gen Ed Humannies and Phie Arts , pp. 55-57, (G)	OI	5	are part of these credits are indicated by an asterisk (*).
Junior Year F		S	(G) The BOR General Education requirements include an International/Global Diversity
AST 333-333A, Soil and Water Mechanics and Lab3	or	3.	requirement of 6 credits. Courses may count toward both the International/Global
Ho 250-250A, Woody Plants: Trees and Lab	OI	<i>J</i> .	Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
Ho 311-311A, Herbaceous Plants and Lab or			555 P-855 55 57 151 55 miles
Ho 413-413A, Arboriculture and Lab	or	3	**South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement
PR 301-301A, Park Interpretation and Lab	Oi	5	(SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
PR 302, Commercial Recreation Areas		3	
PR 303, Forest Ecology and Management		3	Students must take the proficiency examination after completing 48 credits. English 101, and
PS 243-244, Geology and Lab		4	a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
PR 496, Field Experience (summer)	1	т	•
SpCm 315, Public Speaking	or	3	Students must obtain 2 to 4 credits of PR 494, 495, 496 Cooperative
SDSU Core: Goal 3**, Human Spirit, p. 402	or	2	Education/Internship/Field Experience in Park Management by
Economics/Business Electives	or	3	completing either (a) or (b):
Electives	or	3	a. Field Experience (PR 496). Work 2 summers or equivalent time unit
Licetives	OI	5	between freshman and senior years in Department approved park or
Senior Year F		S	recreation system, agency or institution. 1 credit per each summer or
Engl 379, Technical Communication	Or		semester completed.
Ho 314-314A, Turf Management and Lab	OI	5	b. Cooperative Education (PR 494), Internship (PR 495), Field
PolS 320, Public Administration or			Experience (PR 496). Work 1 summer or equivalent time unit as
PolS 428, Personnel & Budgetary Administration3	٥r	3	stated in (a) for 1 credit and participate in Department approved
PR 300-300A, Park Operations & Facility Management and	OI	,	Professional Internship for 1 semester for 3-12 credits.
Lab			Students are encouraged to use electives to broaden their perspective
PR 401-401A, Advanced Park Management and Lab		3	and/or to develop an area of specialization. Consult with your adviser.
Recr 440, Administration of Leisure Services		3 .	
Economics/Business Electives		3	
Land-use Planning Electives		3	Pest Management Minor
Electives	or		S
· .	-		Dale Gallenberg
Park Management Economics/Business Electives			Department of Plant Science
Choose 9 credits from the following:			Agricultural Hall 219
Acct 210, Principles of Accounting I		3	605-688-4600
Acct 211, Principles of Accounting II			Dale_Gallenberg@sdstate.edu
BAdm 350, Legal Environment of Business and Contracts			
BAdm 351, Business Law I			Requirements for Pest Management Minor: 16 cr
BAdm 360, Organization and Management			PS 223-223A, Principles of Plant Pathology and Lab3
Econ 201, Microeconomics Principles			PS 305-305A, General Entomology and Lab
Econ 370, Marketing			PS 343-343A, Weed Science and Lab3
Econ 433, Public Finance			PS 490, Undergraduate Seminar1
Stat 281, Statistical Methods I			Diva 6 additional analita france
,			Plus 6 additional credits from: PS 207 207 A. Israel Part Management and Lab.
Park Management Land-use Planning Electives			PS 307-307A, Insect Pest Management and Lab
Choose 6 credits from the following:			PS 333-333A, Diseases of Field Crops and Lab
La 201, Introduction to Landscape Design		.3	PS 334-334A, Diseases of Horticultural Crops and Lab
La 241, History of Landscape Architecture			PS 415-415A, Mycology and Lab
La 322, Site Planning			PS 420-420A, Biological Control of Arthropods and Lab3
La 324-324A, Planning Public Grounds and Lab			PS 431-431A, Applied Insect Ecology and Lab
La 421-421A, City Planning and Lab			PS 450-450A, Field Studies in Plant Disease Diagnosis
La 424, Recreational Facilities Design		3	PS 492, Special Problems (in Pest Management Areas)1-4
Plan 471, Principles of State, Regional & Community Plans			PS 493, Special Topics (in Pest Management Areas)3
	<i>-</i> .		

Pharmacy (Pha) Major

Danny Lattin College of Pharmacy Pharmacy 125 605-688-6197

Progression Standards for Class Standing

Some pharmacy courses have prerequisites such as 3rd Year Standing, etc. These are defined as follows:

(note: "completion" means a passing grade in each pharmacy course and maintaining semester and cumulative Pha GPA requirements)

3rd Year Standing – the student must have been admitted into the professional program.

4th Year Standing – completion of all Pha 300 level required courses. 5th Year Standing – completion of all Pha 400 level required courses and a B.S. in Pharmaceutical Sciences are required to begin the first semester. Completion of all required Pha courses in the first semester is required to progress to the second semester.

6th Year Standing – completion of all Pha 700 level required, nonclerkship courses.

S

3

Requirements for Doctor of Pharmacy Degree

Pre-Pharmacy Courses:

First Year

Bio-101-102 , Biology Survey I and Lab	OI	5	
Chem 112-113*, General Chemistry I and Lab4			
Chem 114-115*, General Chemistry II and Lab		4	
Engl 101*, Composition I	or	3	
Math 222*, Calculus for Non-Math Majors5	or	5	
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3	
Gen Ed Humanities and Fine Arts*, pp. 35-376	or	6	
Gen Ed Social Science*, pp. 35-373	or	3	
SDSU Core: Goal 1**, Wellness, p. 392	or	2	
Count Wood		6	
Second Year F		S	
Chem 326-327, Organic Chemistry and Lab			
Chem 328-329, Organic Chemistry and Lab		4	
Econ 202**, Macroeconomics Principles	or	3	
Engl 201*, Composition II	or	3	
Micr 231-232, General Microbiology and Lab4	or	4	
Stat 281, Statistical Methods I3	or	3	
Zool 221-222, Anatomy and Lab3			
Zool 325-325A, Mammalian Physiology and Lab		4	
Gen Ed Social Science*, pp. 35-373	or	3	
SDSU Core: Goal 3**, Human Spirit, p. 402	or	2	
General Electives***	or	1	
Professional Program Courses:			
Third Year F		S	
Pha 310-310A, Introduction to Pharmaceutical Care			
and Lab3			
Pha 311-311A, Professional Communication Skills & Lab		3	
Pha 313, Pharmaceutical Calculations1			
Pha 320, Pathophysiology3			
Pha 323, Pharmaceutical Biochemistry4			
Pha 324, Biomedical Science		4	
Pha 331, Pharmaceutics I			
Pha 332-332A, Pharmaceutics II and Lab		4	
Pha 340-340A, Principles of Drug Action I and Lab4			
Pha 341-341A, Principles of Drug Action II and Lab		4	
SDSU Core: Goal 5**, Stewardship, p. 41		2	

Fourth Year ¹	F S
Pha 415, Biopharmaceutics & Pharmacokinetics	
Pha 430, Pharmaceutical Jurisprudence	3
Pha 441, Chemotherapeutic Agents	2
Pha 442-442A, Principles of Drug Action III and Lab	
Pha 443-443A, Principles of Drug Action IV and Lab	
Pha 445-445A, Drug Literature & Research Design & Lab	4
Pha 450-450A, Drug Distribution Systems and Lab	
Pha 460, Pharmaceutical Care Experience Lab	
Pha 465-465A, Professional Resources Management & Lab	
General Electives***	2
Fifth Year	F S
Pha 719, Physical Assessment Laboratory	
Pha 722, Therapeutics-The Geriatric Patient	
Pha 723, Ethics in Healthcare Practice	
Pha 727, US Health Care Systems	
Pha 732, Therapeutics-Renal/Fluids & Electrolytes	
Pha 733, Therapeutics-Gastrointestinal and Nutrition	
Pha 734, Therapeutics-Endocrine/Reproduction	
Pha 735, Therapeutics-Infectious Disease	
Pha 736, Therapeutics-Neurology/Psychiatry	
Pha 737, Therapeutics-Cardiopulmonary	
Pha 738, Therapeutics-Hematology/Oncology	. 2
Pha 739, Therapeutics-Rheumatology/Skin/Skeletal	
Pha 743, Pharmacy Care in the Community	. 2
Pha 784, Seminar	. · 1
Pharmacy Electives	2 2
Sixth Year – Clerkships ² Su/F/S	5
Pha 714, Community Pharmacy	5
Pha 716, Institutional Pharmacy	
Pha 717, Community Pharmacy Care	
Pha 772, Internal Medicine I	4
Pha 773, Internal Medicine II or	
Pha 774, Ambulatory Care/Family Prac	
Assigned Clerkships (see below)	
Elective Clerkships (see below)	3
Assigned Clarkshing (aboose 2)	
Assigned Clerkships (choose 3) Pha 700, Directed Studies	1
Pha 706, Critical Care	
Pha 707, Infectious Disease	
Pha 770, Pediatrics	
Pha 771, Geriatrics	
Pha 773, Internal Medicine II or	•
Pha 774, Ambulatory Care/Family Prac	4
Pha 775, Psychiatry	
Elective Clerkships (choose 2)	
Pha 700, Directed Studies	4
Pha 701, Home Health Care/Hospice	
Pha 702, Indian Health Service	4
Pha 703, Pharmacy Administration	
Pha 704, Nutrition	
Pha 705, Clinical Research	
Pha 708, Surgery	
Pha 709, Nephrology	
Pha 710, Pharmacokinetics	
Pha 711, Oncology	
Pha 712, Nuclear Pharmacy	
Pha 713, Managed Care	4
Clerkships not utilized from list of Assigned Clerkships	

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

General Electives***

- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- *** General Electives: 8 credits required prior to beginning Fifth Year. Credits must not be natural science, math, computer science, nutrition, or health related. Credits may apply as both General Electives and Institutional Graduation Requirements (IGR), Goals 3 and 5. Also, credits in excess of General Education Requirements, Goals 1-4, or IGR, Goals 3 and 5 may apply toward General Elective requirement.
- Eligible for Bachelor of Science degree in Pharmaceutical Sciences after completion of Fourth Year.
- Clinical clerkships completed during Summer Session, Fall and Spring Semesters of Sixth Year. Each credit requires one week of clerkship experience.

Philosophy (Phil) Minor

Robert Burns Department of Philosophy and Religion **Scobev Hall 308** 605-688-4909

Requirements for Philosophy Minor: 15 cr Phil 100, Introduction to Philosophy Upper division courses. Additional Phil courses

Physical Education (PE) Minor

Department of Health, Physical Education and Recreation **Physical Education Center 269** 605-688-5218 e-mail: Patricia Hacker@sdstate.edu

All students interested in obtaining this minor must obtain written approval from the PETE Coordinator. A minimum final grade of "C" is required in all courses taken in the minor.

Requirements for Physical Education Minor: 23 cr
Hlth 250-250A, First Aid and Lab
HPER 252-252A, Motor Learning and Development and Lab2
PE 352, Adapted Physical Education
PE 360-360A, Methods of Elementary School Physical Education and Lab
PE 461-461A, Methods of Teaching Physical Education and Lab $ 3$
Fire hours from the following courses.
Five hours from the following courses:
Danc 130, Dance Fundamentals1
PE 200, Skill Concept: Fitness
PE 201, Skill Concept: Gymnastics
PE 202, Skill Concept: Individual/Dual Activities1
PE 203, Skill Concept: Team Sport Activities
PE 204, Skill Concept: Rhythms and Dance
PE/Recr 205, Skill Concept: Recreational Activities
Eight hours from the following courses:
Danc 241-241A, Creative Movement for Children and Lab2
HPER 180, Introduction to HPER3
HPER 440, Organization & Administration of HPER2
HPER 451-451A, Tests & Measurements in HPER and Lab2

PE 241, Curriculum in Physical Education	2
PE 321-321A, Water Safety Instructor and Lab	2
Recr 342, Recreation Sports Programming/Administration	2
PE 350, Exercise Physiology	
PE 353, Biomechanics	

Physics (Phys) Major and Minor

Oren Quist Department of Physics Crothers Engineering Hall 310A 605-688-5428

Requirements for Physics Major - College of Engineering **Bachelor of Science in Physics** Professional Physics Emphasis

Professional Physics Emphasis	
Freshman Year F	S
Chem 112-113*, General Chemistry I and Lab4	
Chem 114*, General Chemistry II	3
GE 121, Engineering Design Graphics I	
GE 122, Engineering Design Graphics II or	
GE 123, Computer Aided Drawing	1
Engl 101*, Composition I3	
Math 123*, Calculus I5	
Math 224, Calculus II	4
Phys 211-212**, University Physics I and Lab	4
SpCm 101-101A*, Fundamentals of Speech and Lab	3
Gen Ed Social Science*, pp. 35-37, (G)	
, FF. 23 21, (C)	
Sophomore Year F	S
CSc 213, Introduction to Programming with FORTRAN or	
CSc 218, Introduction to C/C++/UNIX for	
Engineers	3
EE 220, Circuits I	
EE 221, Circuits II	3
EE 222, Circuits I Laboratory1	
EE 223, Circuits II Laboratory	1
Engl 201*, Composition II or	
Engl 379, Technical Communications	3
Math 225, Calculus III	_
Math 321, Differential Equations	3
Phys 213-214, University Physics II and Lab4	
Gen Ed Humanities and Fine Arts*, pp. 35-373	
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3	*
Gen Ed Social Science*, pp. 35-37	3
, FE	_
Junior Year F	S
Math 331, Advanced Engineering Mathematics or	
Math 327, Calculus of Several Variables	3
Phys 312, Measurement Theory and Experiment	
Design2	
Phys 314, Advanced Laboratory I	1
Phys 331, Introduction to Modern Physics	1
Phys 341, Thermodynamics and Statistical Mechanics3	
Phys 351, Classical Mechanics	4
Phys 361, Optics	
SDSU Core: Goal 1**, Wellness, p. 39	2
SDSU Core: Goal 2**, Human Community, p. 392	
SDSU Core: Goal 3**, Human Spirit, p. 40	. 2
Technical Electives***	4

Senior Year F	\mathbf{S}
Phys 412, Advanced Lab II	1
Phys 421, Electromagnetism4	
Phys 435, Introduction to Nuclear Engineering or	
Phys 439, Physics of the Solid State	3
Phys 471, Quantum Mechanics	4
Phys 490, Physics Colloquium	1
SDSU Core: Goal 5**, Stewardship, p. 41	2
Technical Electives***	5

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- ***Technical electives will be selected with the assistance of the student's adviser from courses offered by the Biology, Chemistry, Computer Science, Electrical Engineering, Mathematics, and Physics Departments. A complete list of departmental approved technical electives is available in the Physics Department office. Any departures from this list must be approved by the Head of the Physics Department.

Requirements for Physics Major Bachelor of Science in Physics Flexible Emphasis

The Flexible Emphasis Physics Major is designed to allow students the freedom to achieve significant preparation in an area that will complement physics. The resulting physics major will have an emphasis in an area such as: business, biophysics, geophysics, information systems, mass communications, medical physics, or statistical process control. A student is advised to work closely with an adviser as emphasis courses are chosen.

Freshman Year F	S
Chem 112-113*, General Chemistry I and Lab or	
Chem 106-107, Chemistry Survey and Lab4	
Chem 114*, General Chemistry II or	
Chem 120, Elementary Organic Chemistry	3
Engl 101*, Composition I	
Math 123*, Calculus I	5
SpCm 101-101A*, Fundamentals of Speech and Lab	3
Gen Ed Social Science*, pp. 35-37, (G)	3
Gen Ed Humanities and Fine Arts*, pp. 35-373	
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3	
SDSU Core: Goal 1**, Wellness, p. 39	2
Directed Electives 1	
Sophomore Year F	S
*	S
Sophomore Year F CSc 213, Introduction to Programming with FORTRAN or CSc 218, Introduction to C/C++/UNIX for	S
CSc 213, Introduction to Programming with FORTRAN or	S
CSc 213, Introduction to Programming with FORTRAN or CSc 218, Introduction to C/C++/UNIX for	S
CSc 213, Introduction to Programming with FORTRAN or CSc 218, Introduction to C/C++/UNIX for Engineers	2
CSc 213, Introduction to Programming with FORTRAN or CSc 218, Introduction to C/C++/UNIX for Engineers	2
CSc 213, Introduction to Programming with FORTRAN or CSc 218, Introduction to C/C++/UNIX for Engineers	3
CSc 213, Introduction to Programming with FORTRAN or CSc 218, Introduction to C/C++/UNIX for Engineers	3
CSc 213, Introduction to Programming with FORTRAN or CSc 218, Introduction to C/C++/UNIX for Engineers	3
CSc 213, Introduction to Programming with FORTRAN or CSc 218, Introduction to C/C++/UNIX for Engineers	3
CSc 213, Introduction to Programming with FORTRAN or CSc 218, Introduction to C/C++/UNIX for Engineers	3

Junior YearFMath 321, Differential Equations3Phys 312, Measurement Theory & Experiment Design2Phys 331, Introduction to Modern Physics3	•	S
SDSU Core: Goal 2**, Human Community, p. 39		2
SDSU Core: Goal 3**, Human Spirit, p. 40		2
Physics Electives5		
Directed Electives ¹		12
a		
Senior Year F		S
Senior Year F Phys 351, Classical Mechanics or		S
		S
Phys 351, Classical Mechanics or	or	S 4
Phys 351, Classical Mechanics or Phys 471, Quantum Mechanics or	or or	
Phys 351, Classical Mechanics or Phys 471, Quantum Mechanics or Phys 421, Electromagnetism	~-	4
Phys 351, Classical Mechanics or Phys 471, Quantum Mechanics or Phys 421, Electromagnetism	or	4

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- ***Technical electives will be selected with the assistance of the student's adviser from courses offered by the Biology, Chemistry, Computer Science, Electrical Engineering, Mathematics, and Physics Departments. A complete list of departmental approved technical electives is available in the Physics Department office. Any departures from this list must be approved by the Head of the Physics Department.
- ¹The Flexible Emphasis Physics Major is designed to allow the students the freedom to achieve significant preparation in an area that will complement physics. The resulting physics major will have an emphasis in an area such as: business, biophysics, geophysics, information systems, mass communications, medical physics, or statistical process control. A student is advised to work closely with an adviser as emphasis courses are chosen.

Requirements for Physics Major **Bachelor of Science in Physics Science Teaching Emphasis** Freshman Year F S Bio-101-102, Biology Survey I and Lab or Bio 151-152, General Biology I and Lab Bio 103-104, Biology Survey II and Lab or Bio 153-154, General Biology II and Lab 3-4 Chem 112-113*, General Chemistry I and Lab or Chem 106-107, Chemistry Survey and Lab4 Chem 114*, General Chemistry II or Chem 120, Elementary Organic Chemistry Engl 101*, Composition I3 Math 123*, Calculus I Psyc 101*, Introduction to Psychology or Soc 100, Introduction to Sociology......3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)......3 Gen Ed Social Science*, pp. 35-37, (G) 3 Sophomore Year S CSc 213, Introduction to Programming with FORTRAN or CSc 218, Introduction to C/C++/UNIX for EdFn 338, Foundations of American Education 2

·		
EdFn 375, Human Relations		3
Engl 201*, Composition II		3
Math 224, Calculus II		
Math 225, Calculus III	•	3
Phys 185, Introduction to Astronomy		.3
Phys 211-212**, University Physics I and Lab or		
Phys 111-112, Introduction to Physics I and Lab4		
Phys 213-214, University Physics II and Lab or		
Phys 113-114, Introduction to Physics II and Lab		4
SeEd 287, Practicum and Professional Lab		2
Phil 200*, Introduction to Logic3		
		C
Junior Year F		S
EdFn 365, Integrating Computers into the Curriculum2		2
EPsy 302, Educational Psychology		2 3
GE 231**, Technology and Society		3
Math 321, Differential Equations		3
Phys 312, Measurement Theory and Experiment Design 2		
Phys 331, Introduction to Modern Physics		1
SeEd 314, Supervised Clinical/Field Experience		1
SeEd 416, Strategies in Science Teaching		3
SeEd 450, Teaching of Reading		2
SDSU Core: Goal 1**, Wellness, p. 39		2
SDSU Core: Goal 3**, Human Spirit, p. 40		3
Physics Electives		3
Senior Year F		S
Anth 421**, Indians of North America	or	3
Phys 351, Classical Mechanics or	0.	
Phys 421, Electromagnetism or		
Phys 471, Quantum Mechanics4	or	4
Phys 490, Physics Colloquium1	or	1
SeEd 400, Curriculum and Instruction in Secondary		
Schools3	or	3
SeEd 410, Social Foundations, Management and Law2	or	2
SeEd 420, Teaching Special Needs Students1	or	1
SeEd 488, Supervised Teaching Internship10	or	10
Chemistry Electives (numbered 300 or greater)4	or	4
The 30 credit Board of Regents General Education requirements (Gen completed as part of a students first 64 credits. See pages 35-37 for details are part of these credits are indicated by an asterisk ().	Ed) n	nust be ses that
(G) The BOR General Education requirements include an International/Glo requirement of 6 credits. Courses may count toward both the Intern Diversity requirement and the social science and/or humanities and fine arts See pages 35-37 for details.	ational	/Global
South Dakota State University has a 10 credit SDSU Institutional Graduation (SDSU Core). See pages 39-41 for details. These requirements are indicate asterisk ().	ıRequ d by a	irement double
Students must take the proficiency examination after completing 48 credits. En a course in each of the General Education areas of social science, mather science, and humanities and fine arts must be taken prior to taking this examination.	natics,	01, and natural
Requirements for Physics Minor: 17 credits in Physics (n	inim	um)
Phys 111-112-113-114, Introduction to Physics I-II and Lab	s or	
Phys 211-212-213-214, University Physics I-II and Labs		8

Phys 331, Introduction to Modern Physics Other Physics Department courses (except Phys 101)

Planning (Plan) Minor

Roger Sandness Department of Geography Scobey Hall 232 605-688-4511

Requirements for Planning Minor

Planning is an essential part of most private and public activities. It is a process that can be learned and applied to increase effectiveness in decision making and operations.

The Minor in Planning (Master's Degree Level) and teaching Planning courses are governed by a Coordinating Committee appointed by and responsible to the Vice President for Academic Affairs.

Political Science (PolS) Major and Minor

Robert Burns Department of Political Science Scobey Hall 308 605-688-4909

Requirements for Political Science Major		
Bachelor of Arts or Bachelor of Science in Arts and Science	e	
Freshman Year F		S
Engl 101*, Composition I3	or	3
PolS 100*, American Government or		
PolS 101*, American Government Honors3	,	
PolS 100 or 200 level elective (recommend PolS 165, (G) or		
PolS 253, (G))		3
SpCm 101-101A*, Fundamentals of Speech and Lab or		
approved GE alternative3	or	3
Modern Language* 101 &102 (B.A. only)4		4
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Natural Science*, pp. 35-37 (Physical Science: Chen	1.	
Geog, Phys, or PS) (BS Only)4	•	4
Gen Ed Natural Science*, pp. 35-37 (BA Only)3		3
Gen Ed Social Science*, pp. 35-37 (Not PolS)3	or	3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
obbo core. Goar r , wenness, p. 35	-	_
Sophomore Year F		S
Engl 201*, Composition II3	or	3
PolS 100-200 level electives (recommend PolS 165, (G) or		-
PolS 253, (G))		3
Modern Language 201 & 202 (B.A. only)		3
Gen Ed Humanities and Fine Arts*, pp. 35-37		3
SDSU Core: Goal 4**, Science and Sci Methods, p. 41		5
(Biological Science: Bio, Bot, Micro, NFSH, WL)		
(BS Only)***3		3
SDSU Core: Goal 4**, Science and Sci Methods, p. 41		-
(BA Only)***	or	·2
Electives (consider Education option, Second Major, or	Oi	4
Minor)		3
Williot)		
Junior Year F		\mathbf{S}
PolS 300-400 level***6-12		6-9
SDSU Core: Goal 3**, Human Spirit, p. 40 (BS Only)3	or	3
SDSU Core: Goal 3**, Human Spirit, p. 40 (BA and		
BS)3	or	3
Electives (consider Education option, Second Major, or		
Minor)3-9		3-9
•		

G 4 TT 1					
Senior Year	F	S	Psyc 414, Drugs and Behavior		3
PolS 300-400 level6-1	2	6-9	Stat 281, Statistical Methods I3		
SDSU Core: Goal 5**, Stewardship, p. 412-	3 or	2-3	Gen Ed Humanities and Fine Arts*, pp. 35-373	or	3
Electives 100-400 level (consider Education option, Secon	ıd		SDSU Core: Goal 4**, Science and Sci Methods,		
Major or Minor)0-	9	6-16	p. 413		3
			SDSU Core: Goal 2**, Human Community, p. 39		5
*The 30 credit Board of Regents General Education requirements (G	en Ed)	must be	(Not Psyc)	0.	3
completed as part of a students first 64 credits. See pages 35-37 for det	ails. Cou	irses that	Electives (as needed)	or	3
are part of these credits are indicated by an asterisk (*).			Diceaves (as needed)		
(G) The BOR General Education requirements include an International/0	Global D	Diversity	T		
requirement of 6 credits. Courses may count toward both the Inte-	ernationa	al/Global	Junior Year F		S
Diversity requirement and the social science and/or humanities and fine a See pages 35-37 for details.	ırts requi	rements.	Psyc 305, Simple Learning and Conditioning3		
see pages 35 57 for details.			Psyc 315, Research Methods in Psychology		3
**South Dakota State University has a 10 credit SDSU Institutional Graduat	tion Requ	uirement	Psyc 358, Behavior Modification		3
(SDSU Core). See pages 39-41 for details. These requirements are indicated in the second of the seco	ated by	a double	Psyc 441, Social Psychology3		
asterisk (**).			Psyc 451, Abnormal Behavior3	or	3
Students must take the proficiency examination after completing 48 credits.	English	101, and	SDSU Core: Goal 5**, Stewardship, p. 412	or	2
a course in each of the General Education areas of social science, math	hematics	, natural	SDSU Core: Goal 3**, Human Spirit, p. 402-3	or	2-3
science, and humanities and fine arts must be taken prior to taking this e	xam.		Electives (as needed)	-	
***The BS in Arts and Science requires six credits of biological science and	d eight c	redits of	,		
physical science. Six of the combined 14 credits must be from the Ge	n Ed, pr	p. 35-37	Senior Year F		
listing and two credits must be from SDSU Core: Goal 4, p. 41 listing. The	e BA in	Arts and			S
Science requires a total of eight credits of natural science. Six credits m	ust be fr	rom Gen	Psyc 356, Psychological Assessment		_
Ed Natural Science, pp. 35-37 listing and two credits must be from the S 4, p. 41 listing.	DSU Co	re: Goal	Psyc 357, Psychological Therapies		3
-, p1 maing.			Psyc 490, Psychology Seminar1	•	
***Students must complete at least one political science course that has be	en desig	nated as	Psyc 495, Internship (6 credits required)3	•	3
an information technology literacy course. Consult with your major ad	lviser for	r course	or		
titles.			6	or	6
T			Electives (as needed)		
Requirements for Political Science Minor: 18 cr			,		•
PolS 100, American Government or			**The 30 credit Board of Regents General Education requirements (Ge	n Ed)	must be
PolS 101, American Government Honors		3	completed as part of a students first 64 credits. See pages 35-37 for detail	ls. Cou	rses that
Upper division (over 300) credits		9	are part of these credits are indicated by an asterisk (*).		
Additional PolS courses		6	(G) The BOR General Education requirements include an International/G	lohal D	ivorcity
			requirement of 6 credits. Courses may count toward both the Inter	nationa	1/Global
You may opt for a minor with a concentration in public law, public a	بدنسنسان	4	Diversity requirement and the social science and/or humaniti 15		rements
Tou may operor a minor with a concentration in public law, public a	tammisi	tration,	Diversity requirement and the social science and/or humanities and fine ar	is requi	CILLOIICS.
	ammisi	tration,	See pages 35-37 for details.	is requi	COMOINS.
or the international area by carefully choosing your courses.	iamms	tration,	See pages 35-37 for details.		
	iaminisi	tration,	See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduatic (SDSU Core). See pages 39-41 for details. These requirements are indicated the state of the s	n Regu	iirement
or the international area by carefully choosing your courses.	idillinisi	tration,	See pages 35-37 for details.	n Regu	iirement
or the international area by carefully choosing your courses.	idminisi	tration,	 **South Dakota State University has a 10 credit SDSU Institutional Graduatie (SDSU Core). See pages 39-41 for details. These requirements are indical asterisk (**). 	on Requ ted by a	irement a double
Psychology (Psyc)	idminisi	ration,	**South Dakota State University has a 10 credit SDSU Institutional Graduatic (SDSU Core). See pages 39-41 for details. These requirements are indica asterisk (**). Students must take the proficiency examination after completing 48 credits. Ea a course in each of the General Education areas of social science. mathe	on Required by a	uirement a double
or the international area by carefully choosing your courses.	dimins	tration,	 **South Dakota State University has a 10 credit SDSU Institutional Graduatie (SDSU Core). See pages 39-41 for details. These requirements are indical asterisk (**). 	on Required by a	uirement a double
Psychology (Psyc) Major and Minor	dillins		**South Dakota State University has a 10 credit SDSU Institutional Graduatic (SDSU Core). See pages 39-41 for details. These requirements are indica asterisk (**). Students must take the proficiency examination after completing 48 credits. Ea a course in each of the General Education areas of social science, mather science, and humanities and fine arts must be taken prior to taking this ex	on Required by a singlish itematics, am.	nirement a double 101, and , natural
Psychology (Psyc) Major and Minor Virginia Norris	diminsi		**South Dakota State University has a 10 credit SDSU Institutional Graduatic (SDSU Core). See pages 39-41 for details. These requirements are indica asterisk (**). Students must take the proficiency examination after completing 48 credits. Ea a course in each of the General Education areas of social science, mather science, and humanities and fine arts must be taken prior to taking this ex. The Psychology Department's "Informational Technology Literacy" require	on Required by a singlish itematics, am.	nirement a double 101, and , natural
Psychology (Psyc) Major and Minor Virginia Norris Department of Psychology	arminis		**South Dakota State University has a 10 credit SDSU Institutional Graduatic (SDSU Core). See pages 39-41 for details. These requirements are indica asterisk (**). Students must take the proficiency examination after completing 48 credits. Ea a course in each of the General Education areas of social science, mather science, and humanities and fine arts must be taken prior to taking this ex	on Required by a singlish itematics, am.	nirement a double 101, and , natural
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SDSU Core: Goal 3**, Human Spirit, p. 40				are part of these credits are indicated by an asterisk (*).		
Electives (as needed) Senior Year F S Syey 409, History and Systems of Psychology Syey 441, Social Psychology Syey 441, Social Psychology Syey 441, Social Psychology Syey 440, Social Psychology Senior Syey 440, Social Psychology Syey 440, Syehilate S				(G) The BOR General Education requirements include an International/Glo	bal Div	versity
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Senior Year Psyc. 409, History and Systems of Psychology 3 Psyc. 441, Social Psychology 3 Psyc. 441, Social Psychology 3 Psyc. 449, Problems in Psychology 4 Psyc. 492, Problems in Psychology 4 Psyc. 492, Problems in Psychology 4 Psyc. 493, Psychology 4 Psyc. 494, Psychology 4 Psychology Psychology 4 Psychology Dsyntherate's and psychology 4 Psychology Dsynth	Electives (as needed)			Diversity requirement and the social science and/or humanities and fine arts	require	ments.
Paye 449, History and Systems of Psychology 3.3 Psyc 4451, Abnormal Behavior 3.3 or 3 Psyc 449, Psychology Seminar	, T		a	See pages 35-37 for details.		
Psyc 451, Abnormal Behavior 3 or 3 Psyc 450, Psychology Seminar 3 or 3 Psyc 450, Psychology Seminar 3 or 3 Psyc 492, Problems in Psychology Seminar 3 or 3 Psyc 492, Problems in Psychology Seminar 3 or 3 Psyc 492, Problems in Psychology Seminar 3 or 3 Psyc 492, Problems in Psychology Seminar 3 or 3 Psyc 492, Problems in Psychology Seminar 3 or 3 Psyc 492, Problems in Psychology Seminar 4 or 3 or 1-3 Electives (as needed) ***The 50 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a success first of credits. See pages 59-57 for details. **The Psychology Department in The completing for Control of Co	Semon rear			**South Dakota State University has a 10 credit SDSU Institutional Graduatio	n Requi	rement
Psyc 4.51, Althormal Behavior 3 or 3 Psyc 490, Psychology Seminar 3 or 1-3 Psyc 490, Psychology Seminar 4 or 1-3 or 1-3 Psyc 490, Psychology Seminar 4 or 1-3 or 1-3 Psyc 490, Psychology Seminar 4 or 1-3 or 1-3 Psyc 490, Psychology Seminar 4 or 1-3 or 1-3 Psyc 490, Psychology Seminar 4 or 1-3 or 1-3 Psyc 490, Psychology Seminar 4 or 1-3 or 1-3 Psyc 490, Psychology Seminar 4 or 1-3 or 1-3 Psyc 490, Psychology Seminar 4 or 1-3 or 1-3 or 1-3 Psychology Seminar 4 or 1-3 o			3		ed by a	double
Feye 490, Psychology Seminar			2	•		
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The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credit are infiniteable by an astrict (V). (d) The BOR General Education requirements include an International/Global Diversity requirements of 6 credits. Courses may count tower doubt the International/Global Diversity requirement and the social science and/or humanities and fine are requirements. See pages 35-37 for details. **See pages 35-37 for details. **See pages 35-37 for details. **Gen Ed Diversity requirement and the social science and/or humanities and fine are requirements are indicated by a double seriets (). **Social Diversity requirement and the social science and/or humanities and fine are requirements are indicated by a double seriets (**). **Social Diversity Fape 10 credit SDSU Institutional Graduation Requirements (3DSU Cres). See pages 39-41 for details. These requirements are indicated by a double seriets (**). **Social Diversity Fape 10 credit SDSU Institutional Graduation Requirements (2DSU Cres). See pages 39-57 for details. **Social Diversity Fape 10 credit SDSU Institutional Graduation Requirements (2DSU Cres). See pages 39-57 for details. **Social Diversity Fape 10 credit SDSU Institutional Graduation Requirements of the service of the commental of the service of the se			1.2	a course in each of the General Education areas of social science, maine	mancs, : im.	naturai
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Requirements for Psychology Major - Applied Option Bachelor of Science in Arts and Science Freshman Year F S S Special Education and fine arts must be taken prior to taking this exam. Fagal 101*, Composition I Spyc 102*, Introduction to Psychology Major - Applied Option Bachelor of Science in Arts and Science Freshman Year F S S Spyc 202, Advanced General Psychology Spyc 102*, Introduction to Psychology Spyc 202, Advanced General Psychology Spyc 202,				successfully completing Psyc 313 and Psyc 430.		
are part of these credits are indicated by an asterisk (°). (G) The BOR General Education requirements include an International/Clobal Diversity requirement of 6 credits. Comes may count reward both the international/Clobal Diversity requirement and the social science and/or humanities and firm are requirements. See pages 37-4 for details. These requirements are indicated by a double atterisk (**). **South Dakons State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 37-4 laf or details. These requirements are indicated by a double atterisk (**). Students must take the proficiency estamination after completing 48 credits. English 101. and a course in each of the General Education areas of social science, nathernation, natural science, pp. 35-37. The Psychology Department's "Informational Technology Literacy" requirement is met by successfully completing Page 302 and Psyc 490. Requirements for Psychology Major – Applied Option Bachelor of Science in Arts and Science * Freshman Year F S S Sengle 101*, Composition I	**The 30 credit Board of Regents General Education requirements (Go	en Ed)	must be	Requirements for Psychology Major - Teaching Ontion		
The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social steace and/or humanities and fire are requirements. See pages 35-57 for details. See pages 35-57 for details.	are part of these credits are indicated by an asterisk (*).	113. CO	urses mur			
(G) The BOR General Education requirements incusion an Immeriational/Collab Diversity requirement of 6 seedis. Comines may count toward both the international/Collab Diversity requirement of 6 seedis. Comines may count toward both the international/Collab Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 39-41 for details. These requirements and fine arts requirement (SIDSU Cons.) See pages 39-41 for details. These requirements are indicated by a double assertisk (**). Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, aniant science, and humanities and fine arts must be taken prior to taking this exam. The Psychology Department* a Trimmational Technology Literacy* requirement is met by successfully completing Psyc 302 and Psyc 400. Requirements for Psychology Major – Applied Option Bachelor of Science in Arts and Science Feshman Year F S Engl 101*, Composition I 3 or 3 Psyc 102*, Introduction to Psychology 3 or 3 Psyc 102*, Introduction to Psychology 4 Psychology elective Spoftm 01-1014*, Fundamentals of Speech and Lab 3 or 3 Gen Ed Humanities and Fine Arts* pp. 35-37 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 or 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 2 Electives (as needed) Sophomore Year F S Singl 201*, Composition II 3 or 3 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 3 Spychology Electives 3 or 3 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 3 Spychology Electives 3 or 3 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 3 Spychology Electives 3 or 3 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 3 Spychology Electives 3 or 3 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 3 Spychology Electives 3 or 3 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 3 Spychology Electives 3 or 3						S
Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (CDSU Core). See pages 39-41 for details. These requirements are indicated by a double statisk (*P.) Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam. The Psychology Department's "Informational Technology Literacy" requirement is met by successfully completing Psys 302 and Psys 409. Requirements for Psychology Major – Applied Option Bachelor of Science in Arts and Science Freshman Year F S Engl 101*, Composition I 3 or 3 and 102*, College Algebra 3 or 3 spece 209, Fundamentals of Professional Psychology 4 psychology elective 3 spc. 101-101.4*, Fundamentals of Speech and Lab 3 or 3 den Ed Natural Science*, pp. 35-37 3 or 3 spc. 209, Fundamentals of Professional Psychology 3 or 3 spc. 209, Fundamentals of Professional Psychology 3 or 3 spc. 209, Fundamentals of Psychology 3 or 3 spc. 200, Fundamentals of Psychology 3 or 3 spc. 200, Fundamentals of Psychology 3 or 3 spc. 200, Fundamentals of Psychol	(G) The BOR General Education requirements include an International/G	rnation	Diversity al/Global		or	
See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**). Students smat take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fire atts must be taken prior to taking this exam. The Psychology Department's "Informational Technology Literacy" requirement is met by successfully completing Psyc 302 and Psyc 490. Requirements for Psychology Major – Applied Option Bachelor of Science in Arts and Science Freshman Year F SEN Engl 101*, Composition I 3 or 3 Psyc 102*, Introduction to Psychology 3 or 3 Psyc 102*, Introduction to Psychology 3 or 3 Psyc 103*, Introduction to Psychology 3 or 3 Psyc 104*, Introduction to Psychology 3 or 3 Psyc 105*, Introduction to Psychology 4 psychology 1 or 2 Electives (as needed) Psyc 202, Advanced General Psychology 3 or 3 Psyc 305*, Introduction to Psychology 4 psychology 1 or 3 Psyc 305*, Introduction to Psychology 3 or 3 Psyc 305*, Introduction to Psychology 3 or 3 Psyc 306*, Introduction to Psychology 3 or 3 Psyc 308*, Introduction to Psychology 3 or 3 Psyc 308*, Introduction to Psychology 3 or 3 Psyc 308*, Introduction to Psychology	Diversity requirement and the social science and/or humanities and fine at	rts requ	irements.			
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SpCm 101-101A*, Fundamentals of Speech and Lab	**South Dakota State University has a 10 credit SDSU Institutional Graduati	ion Rec	uirement			3
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Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and functional Technology Literacy" requirement is met by successfully completing Psyc 302 and Psyc 490. Requirements for Psychology Major – Applied Option Bachelor of Science in Arts and Science Freshman Year Fengl 101*, Composition I Spyc 102*, Introduction to Psychology 4 Psychology elective Spyc 102*, Introduction to Psychology 4 Psychology elective Spyc 101014*, Fundamentals of Speech and Lab Spyc 10101104*, Fundamentals of Speech and Lab Spyc 101014*, Fundamentals of Speech and Lab Spyc 101014*, Wellness, p. 35-37 Spyc 101014*, Wellness, p. 35-37 Spyc 101014*, Wellness, p. 35-37 Spyc 1010104*, Wellness, p. 35-37 Spyc 310104*,						
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SDSU Core: Goal 1**, Wellness, p. 39	a course in each of the General Education areas of social science, math	nematic	s, natural		or	
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Requirements for Psychology Major - Applied Option Bachelor of Science in Arts and Science Freshman Year F Engl 101*, Composition I 3 or 3 Math 102*, College Algebra 3 or 3 Psychology elective 5 SpCm 101-101A*, Fundamentals of Speech and Lab 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 3 SDSU Core: Goal 1**, Wellness, p. 39 2 Electives (as needed) SDSU Core: Goal 2**, Human Community, p. 39 (not Psyc) 3 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 3 SDSU Core: Goal 4**, Science and Sci	The Psychology Department's "Informational Technology Literacy" requir	ement	is met by			
Requirements for Psychology Major - Applied Option Bachelor of Science in Arts and Science Freshman Year F Engl 101*, Composition I	successfully completing Psyc 302 and Psyc 490.			2,000,000 (40 4,000,000)		
Requirements for Psychology Major – Applied Option Bachelor of Science in Arts and Science F S Freshman Year F S Engl 101*, Composition I 3 or 3 Math 102*, College Algebra 3 or 3 Psychology elective 4 Psychology elective 3 psyc 102*, Introduction to Psychology 4 Psychology elective 3 psyc 290, Fundamentals of Professional Psychology 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 4 4 Gen Ed Social Science*, pp. 35-37 4 4 Gen Ed Social Science*, pp. 35-37 (Not Psyc) 3 or 3 SDSU Core: Goal 1**, Wellness, p. 39 2 or 3 Spohmore Year F S Engl 201*, Composition II 3 or 3 Sobsu Core: Goal 1**, Wellness, p. 39 2 or 3 Spyc 302, Theories of Personality 3 Spyc 312, Methods of Teaching Social Studies 3 Spyc 315, Kestactical Methods I 3 Spyc 315, Composition II 3 Spyc 31				Sophomore Year F		\mathbf{S}
Engl 101*, Composition I	Requirements for Psychology Major – Applied Option			EdFn 365, Integrating Computers into the Curriculum2	or	2
Hist 368, History of the American Indians or Anth 421, Indians of North America	-		G	Engl 201*, Composition II3	or	3
Anth 102*, College Algebra	I I COMMING I TOWN		_			
Psyc 102*, Introduction to Psychology			•		or	3
Psyc 102*, Introduction to Psychology Psychology elective SpCm 101-101A*, Fundamentals of Speech and Lab3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37		or	3	Psyc 290, Fundamentals of Professional Psychology		3
Psychology elective			2			3
Spcm 101-101A*, Fundamentals or Speech and Lab 3 SeEd 412, Methods of Teaching Social Studies 3 or 3 Gen Ed Humanities and Fine Arts*, pp. 35-37 4			•			
Gen Ed Humanites and Fine Arts*, pp. 35-37				SeEd 412, Methods of Teaching Social Studies3	or	3
Gen Ed Natural Science*, pp. 35-37 Gen Ed Social Science*, pp. 35-37 (Not Psyc) SDSU Core: Goal 1**, Wellness, p. 39 Electives (as needed) Sophomore Year Engl 201*, Composition II Stat 281, Statistical Methods I Gen Ed Humanities and Fine Arts*, pp. 35-37 SDSU Core: Goal 2**, Human Community, p. 39 (not Psyc) SDSU Core: Goal 2**, Human Community, p. 39 (not Psyc) SDSU Core: Goal 2**, Human Community, p. 39 (not Psyc) SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 2**, Human Community, p. 39 (not Psyc) SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 2**, Human Community, p. 39 (not Psyc) SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 SEGFIN 375, Human Relations SEEd 287, Practicum and Professional Lab SEEd 287, Practicum and Professional Lab SEED 20 SOS 35, Simple Learning and Conditioning SPSU 315, Research Methods in Psychology SPSU 315, Research Methods in Psychology SPSU 327, Child Psychology SPSU 327, Child Psychology SPSU 327, Child Psychology SPSU 327, Child Psychology SPSU Core: Goal 3**, Human Spirit, p. 40 SPSU Core: Goal 3**, Human Spirit, p. 40 SPSU Core: Goal 3**, Stewardship, p. 41 SPSU 4**, Science and Sci Methods, p. 3 SEDSU Core: Goal 3**, Stewardship, p. 41 SPSU 4**, Science and Sci Methods, p. 3 SEDSU Core: Goal 4**, Science and Sci Methods, p. 3 SEDSU Core: Goal 4**, Science and Sci Methods, p. 3 SEDSU 5**, Stewardship, p. 41 SPSU 5**		or		Stat 281, Statistical Methods I		
SDSU Core: Goal 1**, Wellness, p. 39	Gen Ed Natural Science*, pp. 35-374		•	Gen Ed Humanities and Fine Arts*, pp. 35-373	or	3
Signature Sign	Gen Ed Social Science*, pp. 35-37 (Not Psyc)		_	SDSU Core: Goal 2**, Human Community, p. 39		
Sophomore Year Engl 201*, Composition II Stat 281, Statistical Methods I Gen Ed Humanities and Fine Arts*, pp. 35-37 (not Psyc) (not Psyc) SDSU Core: Goal 4**, Science and Sci Methods, p. 41 3 Psychology Electives Blood Core: Goal 4**, Science and Sci Methods, p. 41 3 Psychology Electives Blood Core: Gold why obstice taken concurrently: EdFn 375, Human Relations SeEd 287, Practicum and Professional Lab Junior Year Psyc 305, Simple Learning and Conditioning 3 Psyc 306, Human Learning and Cognitive Behavior 3 Psyc 315, Research Methods in Psychology 3 Psyc 327, Child Psychology 3 Psyc 366, Psychological Gender Issues 3 SDSU Core: Goal 3**, Human Spirit, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2 or 2 Flectives (as needed)		or	2	(Not Psyc)3	or	3
Sophomore Year F S Engl 201*, Composition II 3 or 3 Stat 281, Statistical Methods I 3 or 3 SDSU Core: Goal 2**, Human Community, p. 39 (not Psyc) 30 SDSU Core: Goal 4**, Science and Sci Methods, p. 41 3 Psychology Electives (as needed) Junior Year F S SDSU Core: Goal 3**, Human Spirit, p. 40 2-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41 2 or 2 SD	Electives (as needed)			SDSU Core: Goal 4**, Science and Sci Methods, p. 41 3		3
Engl 201*, Composition II	, 		a			
Engl 201*, Composition II	Sophomore rear			EdFn 375, Human Relations3	or	3
Stat 281, Statistical Methods 1				SeEd 287, Practicum and Professional Lab2	or	2
SDSU Core: Goal 2**, Human Community, p. 39 (not Psyc)						
SDSU Core: Goal 2**, Human Community, p. 39 (not Psyc)		or	. 3	Junior Year F		\mathbf{S}
(not Psyc)			2			
Psychology Electives	(not Psyc)3	or		Psyc 306, Human Learning and Cognitive Behavior		3
Electives (as needed) Psyc 327, Child Psychology Psyc 327, Child Psychology Psyc 327, Child Psychology Psyc 327, Child Psychology SDSU Core: Goal 3**, Human Spirit, p. 40				Psyc 315, Research Methods in Psychology3		
Junior Year F S SDSU Core: Goal 3**, Human Spirit, p. 402-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41			3			3
Junior Year F S SDSU Core: Goal 3**, Human Spirit, p. 402-3 or 2-3 SDSU Core: Goal 5**, Stewardship, p. 41	Electives (as needed)			Psyc 366, Psychological Gender Issues		-
Psyc 315, Research Methods in Psychology3 or 3 Electives (as needed)	T 4 T7		e	SDSU Core: Goal 3**, Human Spirit, p. 402-3	or	
Figenves (as needed)	Junior rear		•		or	2
SDSU Core: Goal 3°°, Human Spiril, p. 402-3 Of 2-3				Electives (as needed)		
	SUSU Core: Goal 5**, riuman Spirit, p. 402-3	OI	4-3	•		

PS II, the following courses to be taken concurrently:		
EPsy 302, Educational Psychology2	or	2
SeEd 314, Supervised Clinical/Field Experience1	or	1
SeEd 450, Teaching of Reading3	or	3
Senior Year F		S
Psyc 441, Social Psychology3		J
Psyc 451, Abnormal Behavior3		
Psyc 490, Psychology Seminar1		
Psyc 492, Problems in Psychology1-3	or	1-3
Electives (as needed)		
PS III, the following courses to be taken concurrently:		
SeEd 400, Curriculum and Instruction in Secondary		
Schools		3
SeEd 410, Social Foundations, Management and Law		2
SeEd 420, Teaching Special Needs Students		1
SeEd 488, Supervised Teaching Internship		10
The 30 credit Board of Regents General Education requirements (Ge completed as part of a students first 64 credits. See pages 35-37 for detail are part of these credits are indicated by an asterisk ().	n Ed) i ls. Cour	must be
(G) The BOR General Education requirements include an International/Gl requirement of 6 credits. Courses may count toward both the Inter Diversity requirement and the social science and/or humanities and fine art See pages 35-37 for details.	nationa	I/Global
South Dakota State University has a 10 credit SDSU Institutional Graduatic (SDSU Core). See pages 39-41 for details. These requirements are indicatasterisk ().	on Requited by a	irement double
Students must take the proficiency examination after completing 48 credits. E a course in each of the General Education areas of social science, mathe science, and humanities and fine arts must be taken prior to taking this ex	matics.	l01, and natural
The Psychology Department's "Informational Technology Literacy" requires successfully completing Psyc 315 and Psyc 490.	ment is	met by
Requirements for Psychology Minor: 16 cr		
Psyc 101, General Psychology or		
Psyc 102, Introduction to Psychology	3 (or 4
Psyc 202, Advanced General Psychology		3
Psyc 409, History and Systems of Psychology		3
300-400 level courses		6-7
Public Recreation (Recr)		

Public Recreation (Recr) Major and Minor

Greg Place Department of Health, Physical Education and Recreation Physical Education Center 267 605-688-6163

The Bachelor of Science degree may be earned by completing the curriculum outlined below. Programs are based on an interdisciplinary approach providing a broad, comprehensive background for leadership and administrative roles in the recreation profession. All students transferring into the Public Recreation major from within the university or from another institution will be evaluated on an individual basis by a departmental screening committee. Transfer students must have a 2.0 GPA to be accepted into the Public Recreation major program. Transfer students with less than a 2.0 GPA may petition for approval. If accepted, the transfer student will enter on probation for one semester. A Public Recreation major must have a 2.4 cumulative GPA to be recommended for the required 8-week internship experience. A minimum final grade of "C" is required in all courses taught in the major.

Requirements for Pubic Recreation Major Bachelor of Science in Arts and Science Freshman Year		
1		S
Bio-101-102*, Biology Survey I and Lab and Bio 103-104*, Biology Survey II and Lab3		2
CSc 105, Introduction to Computers or		3
CSc 130, BASIC Programming3		2
Engl 101*, Composition I	or or	3
HDCF 141, Individual and the Family	or	2
HPER 180, Introduction to HPER	or	3
Math 102*, College Algebra3	or	3
Mus 100**, Music Appreciation	or	2
Recr 205, Skill Concept: Recreational Activities1	or	1
Recr 260, Recreation Leadership	0.	2
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Social Science*, pp. 35-37	or	3
SDSU Core: Goal 1**, Wellness, p. 39	or	2
Sophomore Year F		\mathbf{S}
ArtH 100*, Art & Design Appreciation, (G) or		
ArtH 211, Survey of World Art and Architecture or		
ArtH 212, Western Traditions in Art and Architecture3	or	3
Chem 106-107**, Chemistry Survey and Lab4	or	4
Danc 130, Dance Fundamentals		
Econ 201**, Microeconomics Principles or		
Econ 202, Macroeconomics Principles3	or	3
Engl 201*, Composition II3	or	3
Geog 131, Physical Geography I4	or	4
Hist 121*, History of Western Civilization to 1650, (G) or		
Hist 122*, History of Western Civilization since 1650 3	or	3
PE 135, Swimmers Swim Level 5-6	or	1
PR 101, Parks and Society3		
Psyc 101*, General Psychology	or	3
Recr 342, Recreation Sports Programming &		
Administration		
Soc 100**, Introduction to Sociology3	or	3
Tunion Voon		~
Junior Year F		S
BAdm 350, Legal Environment of Business & Contracts 3	or	3
Hlth 250-250A, First Aid and Lab	or	2
NFSH 221, Survey of Nutrition (3) or WI 110** Environmental Consequetion 2.2		2.2
WL 110**, Environmental Conservation2-3 Phil 100, Introduction to Philosophy4		2-3
Recr 330, Therapeutic Recreation 3	or	4
Recr 350, Recreational Facilities and Area Design3		
Recr 395, Practicum in Recreation	04	1 2
Recr 440, Administration of Leisure Services	or	1-3
SpCm 315, Public Speaking or		3
SpCm 340, Oral Interpretation	0*	3
Suggested Electives	or	3
Senior Year F		S
BAdm 360, Organization and Management3	or	3
Econ 370, Marketing or		_
MCom 313, Publicity Methods2-3	or	2-3
HPER 490, Senior Seminar3		3
PE 111, Canoeing/Hiking or		5
PE 110, Camping Skills1		
PolS 210, State and Local Government	or	3
Recr 414, Current Issues in Recreation	O1	3
Recr 495, Recreation Internship8-10	or s	3-10
Suggested Electives		0
Y .		

^{*}The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).

- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Public Recreation Minor: 23 cr	
PE 135, Swimmer's Swim Level 5-6	1
PR 101, Parks and Society	3
HPER 180, Introduction to HPER	3
PE/Recr 205, Skill Concepts: Recreational Activity	1
Recr 260, Recreation Leadership	2
Recr 330, Therapeutic Recreation or	
Recr 350, Recreation Facilities & Area Design	3
Recr 440, Administration of Leisure Services	3

Students in the recreation minor will be counseled in selecting seven additional semester hours of course work from the suggested elective list

Range Science (Rang) Major and Minor

Don Boggs Department of Animal and Range Sciences Animal Science Complex 103A 605-688-5166

Requirements for Range Science Major		
Bachelor of Science in Agriculture		
Freshman Year F	•	S
Bio-101-102*, Biology Survey I and Lab3		
Bio 103-104*, Biology Survey II and Lab or		
Bot 201-202*, General Botany and Lab		3
Chem 106-107 Chemistry Survey and Lab or		
Chem 112-113, General Chemistry I and Lab		4
Engl 101*, Composition I3	or	3
Math 102*, College Algebra3	or	3
Rang 205-205A**, Introduction to Range Management		
and Lab3		
Soc 100*, Introduction to Sociology or		
Soc 150*, Social Problems, (G) or		
Soc 240*, Sociology of Rural America, (G) or		
Anth 210*, Cultural Anthropology, (G)3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-373	or	3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Electives and Emphasis courses0-4	C)-4
Sophomore Year F		S
Econ 201*, Microeconomics Principles or		
Econ 202*, Macroeconomics Principles3	or	3
Engl 201*, Composition II3	or	3
Phys 101-102, Survey of Physics and Lab4	or	4
PS 213-213A Soils and Lab3	or	3
Gen Ed Humanities and Fine Arts*, pp. 35-373	or	3
SDSU Core: Goal 2**, Human Community, p. 392	or	2
Communications Elective ¹ 3	or	3
Electives and Emphasis courses0-11	0-	-11

Junior Year	F		\mathbf{S}
Rang 415, Rangeland Improvements and Plant-			
Herbivore Interactions (summer only)		3	
Stat 281**, Statistical Methods I	.3	or	3
SDSU Core: Goal 3**, Human Spirit, p. 40		or	2
Electives and Emphasis Courses10-		10	-16
Senior Year	F		S
Capstone Course ²			3
Senior Seminar ³		or	1
Electives and Option Courses15-		12	-13

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.
- ¹For Range Livestock Production, take SpCm 201. For Rangeland Resource Conservation, select from SpCm 201, SpCm 215, or Engl 379. For Rangeland Ecology and Habitat Management, take Engl 379.
- ²For Range Livestock Production, take Rang 485-485A. For other emphases, take ABS 475-475A or other capstone course as approved.
- ³For Range Livestock Production, take AS 490. For Rangeland Resource Conservation, take AS 490 or other seminar as approved. For Rangeland Ecology and Habitat Management, take AS 490, Bio 490, or PS 490 or other seminar as approved.

Rangeland Resource Conservation Emphasis	
AgEc 271-271A, Farm and Ranch Management and Lab	4
AS 101-101A, Introduction to Animal Science and Lab	3
AS 233-233A, Applied Animal Nutrition and Lab	4
AS 474-474A, Beef Cattle Production and Lab or	
AS 477-477A, Sheep and Wool Production and Lab	3
Bot 301-301A, Plant Systematics and Lab or	
Bot 305-305A, Agrostology and Lab	3-4
Bot 327-327A, Plant Physiology and Lab or	
Bot 421-421A, Plant Anatomy and Lab	3-4
PS 310-310A, Soil Geography and Land Use Interpretation	
and Studio or	
PS 446, Agroecology	3-4
Rang 210-210A, Range Plant Identification and Lab	2
Rang 215-215A, Introduction to Integrated Ranch	
Management and Lab	3
Rang 321, Wildland Ecosystems	3
Communications Electives (Select 1 course not selected above):	
Engl 379, Technical Communications	3
SpCm 201, Interpersonal Communications	3
SpCm 215, Advanced Public Speaking	3
Ecology Electives (Select 1 course from the following):	
Bot 415-415A, Plant Ecology and Lab	4
EnvM 425-425A, Disturbance Ecology and Lab	4
La 440-440A, Restoration Ecology and Lab	4
Geography Electives (Select 1 course from the following):	
Geog 365, Land Use Planning	3
Geog 484, Remote Sensing	3
Geog 487, Geographic Information Systems I	3
La 231, Introduction to LandCAAD	3

Natural Resource Management Electives (Select 5 credits from	the	AS 365-365A, Horse Production and Lab (if not	
following):		selected above)	
PR 202-202A, Outdoor Recreation Resource		AS 474-474A, Beef Cattle Production and Lab (if not	
Management and Lab	3	selected above)	
PR 300-300A, Park Operations and Facility		AS 477-477A, Sheep and Wool Production and Lab	
Management and Lab	3	(if not selected above)	
PR 303, Forest Ecology and Management	3	Bio 371, Genetics	
PR 401-401A, Advanced Farm Management and Lab	3	CA 340, Work, Time and Energy Decisions	3
PS 313-313A, Forage Crops and Pasture Management		PolS 438, The Legislative Process	2
and Lab	3	Rang 321, Wildland Ecosystems	3
PS 362-362A, Environmental Soil Management and		Rang 325-325A, Measurement Topics: Natural	
Lab	3	Resource Measurements	4
WL 220, Introduction to Wildlife & Fisheries		Rang 421-421A, Grassland Fire Ecology and Lab	3
Management	3	Vet 403, Animal Disease and Their Control	3
WL 411-411A, Principles of Wildlife Management and		WL 220, Introduction to Wildlife & Fisheries	•
Lab	4	Management	4
WL 412-412A, Principles of Fisheries Management and		WL 411-411A, Principles of Wildlife Management and	•
Lab	3	Lab	_
Range Science Electives (Select 2 courses from the following):		WL 412-412A, Principles of Fisheries Management and	_
Rang 325-325A, Measurement Topics: Natural Resource		Lab	3
Measurements and Lab	3	WL 415-415A, Upland Game Ecology and Management	-
Rang 325-325A, Measurement Topics: Rangeland Analysis		and Lab	-
and Monitoring and Lab	3	WL 430-430A, Human Dimensions in Wildlife and	2
Rang 421-421A, Grassland Fire Ecology and Lab	3	Fisheries	-
General Electives	8-12	Business Courses not selected above	2.6
	0 12	Plant Science Electives not selected above	3-6
Range Livestock Production Emphasis		General Electives	3-6
AgEc 271-271A, Farm and Ranch Management and Lab	4	General Electives	10-13
AgEc 354, Agricultural Marketing and Prices	3	Pangaland Faalagy and Habitat Management Front	
AgEc 421, Farming and Food Systems Economics	3	Rangeland Ecology and Habitat Management Emphasis	
AS 101-101A, Introduction to Animal Science and Lab	3	Bot 301-301A, Plants Systematics and Lab or	
AS 233-233A, Applied Animal Nutrition and Lab	4	Bot 305-305A, Agrostology and Lab	3-4
AS 433-433A, Livestock Reproduction and Lab		Bot 415-415A, Plant Ecology and Lab	4
Econ 201**, Microeconomics Principles or	3	Rang 321, Wildland Ecosystems	3
Econ 202**, Macroeconomics Principles (choose		Rang 325-325A, Measurement Topics: Natural Resource	_
course not taken as BOR requirement)	2	Measurements and Lab	3
Pang 210 210 A. Pango Plant Identification and I.al.	3	Rang 421-421A, Grassland Fire Ecology and Lab	3
Rang 210-210A, Range Plant Identification and Lab	2	WL 220, Introduction to Wildlife and Fisheries	3
Rang 215, Introduction to Integrated Range Management	3	WL 411-411A, Principles of Wildlife Management and Lab	4
Rang 325-325A, Measurement Topics: Rangeland		Communication Elective (Select 1 course from the following):	
Analysis and Monitoring and Lab	3	SpCm 201, Interpersonal Communications	3
Animal Science Electives (Select 2 courses from the following):		SpCm 215, Advanced Public Speaking	3
AS 332-332A, Principles of Animal Breeding and Lab	4	Environmental Electives:	
AS 365-365A, Horse Production and Lab	3	Select 1 course from the following:	
AS 474-474A, Beef Cattle Production and Lab	3	Bio 311, Principles of Ecology	3
AS 477-477A, Sheep and Wool Production and Lab	3	EnvM 275, Introduction to Environmental Science	3
Business Electives (Select 2 courses from the following):		WL 430-430A, Human Dimensions in Wildlife and	
AgEc 352, Agricultural Law	3	Fisheries and Lab	3
AgEc 478-478A, Agricultural Finance and Lab	3	Select 2 courses from the following:	
AgEc 479, Agricultural Policy	3	EnvM 425-425A, Disturbance Ecology and Lab	4
BAdm 360, Organization and Management	3	La 440-440A, Restoration Ecology and Lab	4
BAdm 380, Personal Finance	. 3	PS 446, Agroecology	3
Econ 472, Resource and Environmental Economics	3	Group I Electives (Select 6 credits from approved list)	
Plant Science Electives (Select 1 course from the following):		Science Electives (Select 12 credits from the following):	
PS 313-313A, Forage Crops and Pasture Management		Bio 373, Evolution	3
and Lab	3	Bio 383, Bioethics	4
PS 343-343A, Weed Science and Lab	3	Bot 301-301A, Plant Systematics and Lab (if not	7
PS 421-421A, Soil Microbiology and Lab	3	selected above)	4
PS 475, Water Quality in Agriculture	3	Bot 305-305A, Agrostology and Lab (if not selected	4
Support Courses (Select 2 courses from the following):	3	above)	2
Acct 210, Principles of Accounting I	3	above)	3
AS 241, Meat: Production to Consumption	3	Bot 327-327A, Plant Physiology and Lab	4
AS 285-285A, Livestock Evaluation and Monitoring and	3	Bot 421-421A, Plant Anatomy and Lab	3
Lab	1	Chem 380, Environmental Chemistry	4
AS 332-332A, Principles of Animal Breeding and Lab	4	La 560, Landscape Ecology	4
(if not selected above)	1	PS 243, Geology	3
(11 HOLDELCCION ADUVE)	4		

•	
PS 310-310A, Soil Geography and Land Use	Soc/Anth Electives
Interpretation and Lab	Electives or SDSU Core courses, pp. 39-415
PS 313-313A, Forage Crops and Pasture Management	77
and Lab	Sophomore Year F S
PS 343-343A, Weed Science and Lab	Anth 210*, Cultural Anthropology, (G)
PS 362-362A, Environmental Soil Management and	Lingi 201 , Composition II
Lab	Modern Language (B.A. only)
PS 421-421A, Soil Microbiology and Lab 3 PS 475, Water Quality in Agriculture 3	Gen Ed Natural Science*, pp. 35-37 (a.s. omy) 5
Rang 210-210A, Range Plant Identification and Lab 2	requirements, pp. 56-57
Rang 400, Range Judging	SDSU Core: Goal 2**, Human Community, p. 39
WL 230, Wildlife and Fisheries Techniques	(outside major) and Arts and Science requirements,
WL 412-412A, Principles of Fisheries Management 3	pp. 56-57 or 3
WL 415-415A, Upland Game Ecology and Management	SDSU Core: Goal 3**, Human Spirit, p. 40 (B.S. only) 2-3 or 2-3
and Lab 3	Soc/Anth Electives
WL 417-417A, Large Animal Ecology and Management	SDSU Core: Goal 3**, Human Spirit, p. 40 (outside
and Lab	Modern Language) (B.A. only)
WL 419-419A, Waterfowl Ecology and Management	Electives or SDSU Core courses, pp. 39-41, (B.S. only)2 or 2
and Lab	Junior Year F S
2001 501, 71111111111 150111111111111111111111111	Junior Year F S Anth 220**, Physical Anthropology
General Electives	Soc 307, Research Methods I
Requirements for Range Science Minor: 18 cr	Soc 308, Research Methods II
To include twelve (12) hours of Range Science courses as approved by	SDSU Core: Goal 5**, Stewardship, p. 412-3 or 2-3
the department.	Soc/Anth Electives
	SDSU Core: Goal 3**, Human Spirit, p. 40 (outside
	Modern Language) (B.A. only)3 or 3
Religion (Rel) Minor	SDSU Core: Goal 2**, Human Community, p. 39
	(outside major department)
Robert Burns	General Electives (B.A. only)
Department of Philosophy and Religion	General Electives (B.S. only)
Scobey Hall 308	
605-688-4909	Senior Year F S Soc 401 Sociological Theory
Requirements for Religion Minor: 15 cr	Soc 401, Sociological Theory 3 or 3 General Electives 14 15
Rel 213, Introduction to Religion	General Electives
Additional Religion Courses	*The 30 credit Board of Regents General Education requirements (Gen Ed) must be
	completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
Sociology (Soc)	(G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global
	Diversity requirement and the social science and/or humanities and fine arts requirements.
Major and Minor	See pages 35-37 for details.
Donna Hess	**South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement
Department of Rural Sociology	(SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
Scobey Hall 224	
605-688-4132	Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural
	science, and humanities and fine arts must be taken prior to taking this exam.
Requirements for Sociology Major - General	
Bachelor of Science in Arts and Science (B.S.)	Requirements for Sociology Major - Social Work (SDSU/USD
Bachelor of Arts in Arts and Science (B.A.)	Cooperative Program)
(CJus minors may use any Option for their major)	Bachelor of Science in Arts and Science (B.S.)
(Teaching Option majors confer with adviser in College of Education for college requirements).	Bachelor of Arts in Arts and Science (B.A.)
Freshman Year F S	Freshman Year F S
Engl 101*, Composition I	Engl 101*, Composition I
Soc 100*, Introduction to Sociology3	Soc 100*, Introduction to Sociology3
Soc 150*, Social Problems, (G) or	Soc 150*, Social Problems, (G) or
Soc 240*, Sociology of Rural America, (G)	
	Soc 240*, Sociology of Rural America, (G)3 or 3
SpCm 101-101A*, Fundamentals of Speech and Lab3 or 3	Soc 270, Introduction to Social Work
Modern Language (B.A. only)4	Soc 270, Introduction to Social Work
Modern Language (B.A. only)	Soc 270, Introduction to Social Work 3 SpCm 101-101A*, Fundamentals of Speech and Lab3 or 3 Modern Language (B.A. only)
Modern Language (B.A. only)	Soc 270, Introduction to Social Work 3 SpCm 101-101A*, Fundamentals of Speech and Lab 3 Modern Language (B.A. only) 4 Gen Ed Mathematics*, pp. 35-37 3
Modern Language (B.A. only)	Soc 270, Introduction to Social Work 3 SpCm 101-101A*, Fundamentals of Speech and Lab3 or 3 Modern Language (B.A. only)

SDSU Core: Goal 1**, Wellness, p. 39	or	2 5
Sophomore Year F		·S
Anth 210*, Cultural Anthropology, (G)3	or	3
Engl 201*, Composition II3	or	3
Engl 210*, Introduction to Literature3	or	3
Modern Language (B.A. only)3		3
Gen Ed Humanities and Fine Arts*, pp. 35-37 (B.S. only) 3	or	3
Gen Ed Natural Science*, pp. 35-37 and Arts and Science		
requirements, pp. 56-573		3
SDSU Core: Goal 2**, Human Community, p. 39		
(outside major) and Arts and Science requirements,		
pp. 56-573	or	3
SDSU Core: Goal 3**, Human Spirit, p. 40 (B.S. only) 2-3	or	2-3
Soc/Anth Electives3		3
Electives or SDSU Core courses, pp. 39-41 (B.S. only)2	or	2
Junior Year (First Semester Only) F		s
Anth 220**, Physical Anthropology3		
Soc 370, Social Policy		
Arts and Science Humanities requirements, pp. 56-57		
(outside Modern Language, B.A. only)3		
Arts and Science Social Science requirements, pp. 56-57		
(outside major department)3		
Soc/Anth Electives6		
General Elective3		
Upon acceptance to the Social Work program, transfer to Univ	versit	y of
South Dakota Program for second semester and senior year.		-

Senior Year

Enrolled in USD Program

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
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- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Sociology Major – Human Services Bachelor of Science in Arts and Science (B.S.) Bachelor of Arts in Arts and Science (B.A.)

E i i i i i i i i i i i i i i i i i i i		
Freshman Year F		S
Engl 101*, Composition I3	or	3
Soc 100*, Introduction to Sociology3	or	3
Soc 150*, Social Problems, (G) or		
Soc 240*, Sociology of Rural America, (G)		3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Modern Language (B.A. only)4		4
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Natural Science*, pp. 35-37 and Arts and Science		
requirements, pp. 56-57 (B.S. only)3		3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Soc/Anth Elective		3
Electives or SDSU Core courses, pp. 39-415		5

Sophomore Year F		S
Anth 210*, Cultural Anthropology, (G)3	or	3
Engl 201*, Composition II3	or	3
Soc 270, Introduction to Social Work3		
Modern Language (B.A. only)3		3
Gen Ed Humanities and Fine Arts*, pp. 35-37 (B.S. only) 3		3
Gen Ed Natural Science*, pp. 35-37 and Arts and Science		
requirements, pp. 56-573		. 3
SDSU Core: Goal 2**, Human Community, p. 39		
(outside major) and Arts and Science requirements,		
pp. 56-573	or	3
SDSU Core: Goal 3**, Human Spirit, p. 40 (B.S. only) 2-3	or	2-3
ASDSU Core: Goal 3**, Human Spirit, p. 40 (outside		
Modern Language) (B.A. only)3	or	3
Soc/Anth Elective3	or	. 3
Electives or SDSU Core courses, pp. 39-41 (B.S. only)2	or	2
Junior Year F		S
Anth 220**, Physical Anthropology3	or	3
Soc 307, Research Methods I	-	J
Soc 308, Research Methods II		3
Soc 370, Social Policy3		5
SDSU Core: Goal 5**, Stewardship, p. 412-3	٥r	2-3
SDSU Core: Goal 3**, Human Spirit, p. 40 (outside	0.	2 3
Modern Language) (B.A. only)	or	3
SDSU Core: Goal 2**, Human Community, p. 39	O1	3
(outside major department)3	or	3
General Electives (B.A. only)	or	11
General Electives (B.S. only)	or	14
(= :== ; :== ; := :== ; := : := : : : : :	OI	17
Senior Year F		S
Soc 401, Sociological Theory3	or	. 3
Soc 471, Social Work Skills & Methods I	OI	3
Soc 495, Internship in Sociology (often taken		,
during summer)	or	12
General Electives	OI	7
		,
4FF 40 11 P 1 0 P		

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Sociology Major – Human Resources Bachelor of Science in Arts and Science (B.S.) Bachelor of Arts in Arts and Science (B.A.)

Dachelor of Arts in Arts and Science (B.A.)		
Freshman Year F		S
Engl 101*, Composition I3	or	3
Soc 100*, Introduction to Sociology3		
Soc 150*, Social Problems, (G) or		
Soc 240*, Sociology of Rural America, (G)		3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
Modern Language (B.A. only)4		4
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Natural Science*, pp. 35-37 and Arts and Science		
requirements, pp. 56-57 (B.S. only)4		4
SDSU Core: Goal 1**, Wellness, p. 39	or	2
Soc/Anth Elective		3
Electives or SDSU Core courses, pp. 39-41.		5

Sophomore Year F		S
Acct 210, Principles of Accounting I		
Anth 210*, Cultural Anthropology, (G)3	or	3
Engl 201*, Composition II3	or	3
Modern Language (B.A. only)3		3
Gen Ed Humanities and Fine Arts*, pp. 35-37 (B.S. only) 3		3
Gen Ed Natural Science*, pp. 35-37 and Arts and Science		
requirements, pp. 56-57		3
SDSU Core: Goal 2**, Human Community, p. 39		
(outside major) and Arts and Science requirements,		
pp. 56-573	or	3
SDSU Core: Goal 3**, Human Spirit, p. 40 (B.S. only)3	or	3
SDSU Core: Goal 3**, Human Spirit, p. 40 (outside		
Modern Language) (B.A. only)3	or.	3
Soc/Anth Elective		3
Electives or SDSU Core courses, pp. 39-41 (B.S. only)2	or	2
Elication of See Control Control		
Junior Year F		S
Anth 220**, Physical Anthropology3	or	3
Soc 307, Research Methods I		_
Soc 308, Research Methods II		3
Soc 353, Sociology of Work3		_
Soc 453, Industrial Sociology		3
SDSU Core: Goal 5**, Stewardship, p. 412-3	or	2-3
SDSU Core: Goal 3**, Human Spirit, p. 40 (outside	01	
Modern Language) (B.A. only)3	or	3
SDSU Core: Goal 2**, Human Community, p. 39 (outside	O.	
major)3	or	3
BAdm/Econ Elective	O.	,
General Electives (B.A. only)	or	5
General Electives (B.S. only)8	or	8
General Electives (B.S. Olly)	OI	0
Senior Year F		S
Soc 401, Sociological Theory3	or	3
Soc 495, Internship in Sociology (strongly	O1	5
recommended; often taken during summer)12	or	12
General Electives	OI	3
General Electives		3
The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk ().		
(G) The BOR General Education requirements include an International/GI requirement of 6 credits. Courses may count toward both the Inter-Diversity requirement and the social science and/or humanities and fine art See pages 35-37 for details.	national	l/Global
South Dakota State University has a 10 credit SDSU Institutional Graduatic (SDSU Core). See pages 39-41 for details. These requirements are indica asterisk ().	on Requ ted by a	irement double

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Requirements for Sociology Minor: 18 cr

Soc 100, Introduction to Sociology	3
300 level or above	6
Additional Soc or Anth credits	9

It is recommended that students declare minor by junior year. Register with department.

Spanish (Span) Major and Minor

Philip Baker **Department of Modern Languages NFA 121** 605-688-5101 Fax: 605-688-6699

The major in Spanish requires a minimum of 36 credit hours in Spanish. The course work should include 101, 102, 201, 202, 311, 312, and 18 credit hours of upper-division (300-400) classes. Upper-division course work must include a minimum of four credit hours in literature, four credit hours in civilization and culture, and two credit hours in advanced language study.

The following schedules are very general. Please contact a Spanish adviser for more specific information.

Requirements for Spanish Major		
Bachelor of Arts in Arts and Science		
Freshman Year F		S
Engl 101*, Composition I3	or	3
Span 101-102***, Introductory Spanish I-II4	and	4
SpCm 101-101A*, Fundamentals of Speech and Lab 3	or	3
Gen Ed Mathematics*, pp. 35-373	or	3
Gen Ed Social Science*, pp. 35-373	or	3
SDSU Core: Goal 1**, Wellness, p. 392	or	2
SDSU Core: Goal 3**, Human Spirit, p. 40 (not in		
Modern Language Department)3	or	3
Electives		
		•
Sophomore Year F		S
Engl 201*, Composition II3	or	3
Span 201-202, Intermediate Spanish I-II3	and	3
Spanish Electives4		4
Gen Ed Social Science*, pp. 35-373	or	3
Gen Ed Natural Science*, pp. 35-373		3
SDSU Core: Goal 3**, Human Spirit, p. 40 (not in		
Modern Language Department)3	or	3
Electives	0.	ū
Electives		
Junior Year+ F		S
Spanish course work (300-400 level)3-6	and	3-6
SDSU Core: Goal 2**, Human Community, p. 392	or	2
SDSU Core: Goal 4**, Science and Science Methods,	01	_
p. 41	or	2
SDSU Core: Goal 5**, Stewardship, p. 412	or	2
Electives	OI.	_
Electives		
Senior Year F		S
Spanish course work (300-400 level)3-6	and	3-6
Electives	and	5-0
Electives		

- *The 30 credit Board of Regents General Education requirements (Gen Ed) must be completed as part of a students first 64 credits. See pages 35-37 for details. Courses that are part of these credits are indicated by an asterisk (*).
- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).

Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

^{***}Students who have a background in modern language study before entering the

University should take the Placement Examination to determine the appropriate course in which to enroll. Credit may be obtained for courses exempted upon completion of one course in the department, with a grade of C or better, and the payment of the established fee to the Academic Evaluation and Assessment Office.

+Junior year course selections, which fulfill the Institutional (SDSU) requirements, must be different from those taken to fulfill the General Education requirements.

Requirements for Spanish Minor: 20 cr	
Span 101-102, Introductory Spanish I-II	8
Span 201-202, Intermediate Spanish I-II	6
Span 300-400 level Electives	

Teaching Minors

Thomas Deering
College of Education and Counseling
Wenona Hall 112, Box 507
605-688-4198

e-mail: Tom_Deering@sdstate.edu

Requirements for Teacher Education Minors

Frequently students in the teacher education program complete a combination of courses that constitute a minor. These would be courses not included in a student's major. For detailed information consult with the Dean of the College of Education and Counseling who is the minor adviser. These minors are listed below:

Social Science Minor

The minimum requirement for a Social Science Minor at South Dakota State University is 24 credit hours. The student must have an emphasis in two of the three following subject areas:

Geog 200, Geog 210 – Geography, elective	9
Hist 151, Hist 152 – U.S. History, elective	
PolS 100, PolS 102, PolS 210 – American Government	

A student may choose the remaining 8 credits from one of the following subject areas or the remaining third area from above:

Econ 201, Econ 202 – Economics, elective Hist 121, Hist 122 – History of Western Civilization, elective Psyc 202 – Psychology, elective

Soc 100, Soc 150 - Sociology elective

Language Arts Minor

Engl 101, & 201, Composition I & II	6
English electives	7.
MCom 210-210A, Newswriting & Reporting and Studio	3
Journalism elective	2
SpCm 101-101A, Fundamentals of Speech and Lab	3
Speech electives	
•	

General Science Minor*

General Science Willion	
Bio 101-102, 103-104, Biology Survey I-II and Labs	6
Chem 106-107 & 120-121 or 112-113 & 114-115, General	
Chemistry and Labs	7
Phys 101-102 & 185 or 111-112 & 113-114, Introductory Physics	7
Electives	4
Any physical geography course:	
ABE 353-353A, Physical Climatology and Meteorology and Lab	

Bio 353, Introduction to Oceanography

PS 243-244, Geology and Lab

PS 305-305A, General Entomology and Lab

WL 110, Environmental Conservation

Zool 221-222, Anatomy and Lab

Biological Science Minor*

Bio 101-102, 103-104, Biology Survey I-II and Labs	6
Bio 311, Principles of Ecology	3
Bio 343-343A, Cell Biology and Lab	
Bio 371-372, Genetics and Lab	
Electives in Botany, Zoology, Biology, Microbiology,	
or Wildlife	9

Physical Science Minor*

J	
Chem 112-113, 114-115, General Chemistry and Labs	8
Chem 120-121, Elementary Organic Chemistry and Lab	
Phys 111-112, 113-114, Introduction to Physics I-II and Labs	
Phys 331, Introduction to Modern Physics	
Physics elective	1
•	

Strategies in Science Teaching, SeEd 416 strongly recommended as an elective for all science teaching minors.

Those planning to teach should consult the dean of the college, college faculty members, and advisers in college major and minor departments early in the junior year for more detailed interpretation of these regulations.

* These teaching minors do not guarantee certification in the areas listed. Certification requirements are established by the South Dakota Department of Education and Cultural Affairs. At the time of this writing those requirements are still undergoing revision. Please contact the department head or certification officer to obtain the latest information regarding certification requirements.

(Pre-) Veterinary Science (Vet)

David Zeman

Department of Veterinary Science Animal Disease Research 105, Box 2175 605-688-5172

Suggested Pre-Veterinary Medicine Plan of Study

Freshman Year	,	S
Bio 151-152*, General Biology I and Lab and		
Bio 153-154*, General Biology II and Lab4		4
Chem 112-113*, General Chemistry I and Lab and		
Chem 114-115*, General Chemistry II and Lab4		4
Engl 101*, Composition I3	or	3
Math 102*, College Algebra or		
Math 113*, College Algebra & Trigonometry or		
Math 120*, Trigonometry or		
Math 222*, Calculus for Non-Math Majors	3	-5
Soc 100*, Introduction to Sociology3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3		3
Vet 103, Introduction to Veterinary Medicine1		
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Electives3-	4 or 3	-4
Sophomore Year ⁺ F	ı	S
Chem 120-121*, Elementary Organic Chemistry		
and Lab or		
Chem 326-327, Organic Chemistry I and Lab and		
Chem 328-329, Organic Chemistry II and Lab4	or	4
Econ 202*, Macroeconomics3	or	3
Engl 201*, Composition II3	or	3
Micr 231-232**, General Microbiology and Lab		4
Phys 111-112*, Introduction to Physics I and Lab and		
Phys 113-114*, Introduction to Physics II and Lab4		4
Vet 223-223A, Anatomy and Physiology of Livestock		
and Lab4		

Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3			3
Electives	4	3-	4
Junior Year F	•		S
Bio 371-372, Genetics and Lab4		or	4
Chem 361-361A, Biochemistry and Lab4	•		
SDSU Core** and requirements for specific B.S. and			
Electives6-1	10	7-1	.4

Senior Year

SDSU Core** and Electives
Requirements for specific B.S.
Specific requirements for various vetering

Specific requirements for various veterinary colleges

This curriculum meets the pre-veterinary requirements of some Colleges of Veterinary Medicine. The student and his or her adviser may alter the pre-veterinary curriculum to meet specific requirements of certain colleges.

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- (G) The BOR General Education requirements include an International/Global Diversity requirement of 6 credits. Courses may count toward both the International/Global Diversity requirement and the social science and/or humanities and fine arts requirements. See pages 35-37 for details.
- **South Dakota State University has a 10 credit SDSU Institutional Graduation Requirement (SDSU Core). See pages 39-41 for details. These requirements are indicated by a double asterisk (**).
- Students must take the proficiency examination after completing 48 credits. English 101, and a course in each of the General Education areas of social science, mathematics, natural science, and humanities and fine arts must be taken prior to taking this exam.

Wildlife and Fisheries Sciences (WL) Major

Charles Scalet

Department of Wildlife and Fisheries Sciences Northern Plains Biostress Laboratory 138C 605-688-6121

Requirements for Wildlife and Fisheries Sciences Major		
Bachelor of Science in Biological Science		
Freshman Year F		S
Bio 101-102*, Biology Survey I and Lab or		
Bio 151-152, General Biology I and Lab3-4		
Bio 103-104*, Biology Survey II and Lab or		
Bio 153-154, General Biology II and Lab	3	3-4
Chem 112-113*, General Chemistry I and Lab		4
Engl 101*, Composition I3	or	3
Math 102*, College Algebra3		
Soc 100*, Introduction to Sociology or		
Soc 150*, Social Problems or		
Soc 240*, Sociology of Rural America or		
Anth 210*, Cultural Anthropology3	or	3
SpCm 101-101A*, Fundamentals of Speech and Lab3	or	3
WL 220**, Introduction to Wildlife and Fisheries		
Management3		
SDSU Core: Goal 1**, Wellness, p. 392	or	2
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)3	or	3

C 1 X7	F		S
Sophomore Year			В
Bio 311**, Principles of Ecology	.3		
Econ 202*, Macroeconomics Principles or			_
Econ 201*, Microeconomics Principles		or	3
Engl 201*, Composition II	.3	or	3
Computer Science Elective		or	3
Math 222, Calculus for Non-Math Majors or			
Math 123*, Calculus I	5	or	5
Stat 281, Statistical Methods I	3	or	3
Stat 281, Statistical Methods 1		ΟI	3
WL 230, Wildlife and Fisheries Techniques			3
WL 490, Undergraduate Seminar	.1		
Chemistry Elective (Chem 114-115, 232-233, 361-361A,		,	
or 380)	.4	or	4
Gen Ed Humanities and Fine Arts*, pp. 35-37, (G)	3	or	3
Junior Year	F		\mathbf{S}
Chem 120-121, Elementary Organic Chemistry and			
Lab	1	or	4
		OI	4
WL 363-363A, Ornithology and Lab			4
WL 367-367A, Ichthyology and Lab	3		
WL 412-412A, Principles of Fisheries Management			
and Lab	••••		3
Zool 355-355A, Mammalogy and Lab	3		
Botany Elective (Bot 201-202, 301-301A, 305-305A,			
415-415A, or PR 303)3	<u>-4</u>	or	3-4
	•	٠.	•
Phys 101-102*, Survey of Physics I and Lab or	1	O#	1
Phy 111-112*, University Physics I and Lab	4	or	4
Communications Elective (SpCm 201, 315, or 334)	3	or	3
SDSU Core: Goal 3**, Human Spirit, p. 40	2-3	or	2-3
Senior Year	\mathbf{F}		\mathbf{S}
ADC ATE ATEA Tute control Notional Description			
ABS 475-475A. Integrated Natural Resource			
ABS 475-475A, Integrated Natural Resource			3
Management and Lab		٥r	3
Management and Lab		or	3
Management and Lab	3	or	
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab	3	or	
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and	3	or	3
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab	4	or	3
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and	4	or	3
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab WL 490, Undergraduate Seminar	4	or	3
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab WL 490, Undergraduate Seminar Botany Elective (Bot 201-202, 301-301A, 305-305A,	4		3
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab WL 490, Undergraduate Seminar Botany Elective (Bot 201-202, 301-301A, 305-305A, 415-415A, or PR 303)	4		3 4 1
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab WL 490, Undergraduate Seminar Botany Elective (Bot 201-202, 301-301A, 305-305A, 415-415A, or PR 303) Communications Elective (Engl 379, MCom 210-210A,	3 4 3-4 or	or	3 4 1 3-4
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab WL 490, Undergraduate Seminar Botany Elective (Bot 201-202, 301-301A, 305-305A, 415-415A, or PR 303) Communications Elective (Engl 379, MCom 210-210A, MCom 313)	3 4 3-4 or 2-3	or	3 4 1 3-4 2-3
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab WL 490, Undergraduate Seminar Botany Elective (Bot 201-202, 301-301A, 305-305A, 415-415A, or PR 303) Communications Elective (Engl 379, MCom 210-210A,	3 4 3-4 or 2-3	or	3 4 1 3-4
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab WL 490, Undergraduate Seminar Botany Elective (Bot 201-202, 301-301A, 305-305A, 415-415A, or PR 303) Communications Elective (Engl 379, MCom 210-210A, MCom 313) Biological Science Elective***	3 4 3-4 or 2-3	or	3 4 1 3-4 2-3
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab WL 490, Undergraduate Seminar Botany Elective (Bot 201-202, 301-301A, 305-305A, 415-415A, or PR 303) Communications Elective (Engl 379, MCom 210-210A, MCom 313)	3 4 3-4 or 2-3	or	3 4 1 3-4 2-3
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab WL 490, Undergraduate Seminar Botany Elective (Bot 201-202, 301-301A, 305-305A, 415-415A, or PR 303) Communications Elective (Engl 379, MCom 210-210A, MCom 313) Biological Science Elective*** Remaining hours of 128 hour requirement are electives.	3 4 3-4 or 2-3 3-4	or or	3 4 1 3-4 2-3 3-4
Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab WL 490, Undergraduate Seminar Botany Elective (Bot 201-202, 301-301A, 305-305A, 415-415A, or PR 303) Communications Elective (Engl 379, MCom 210-210A, MCom 313) Biological Science Elective*** Remaining hours of 128 hour requirement are electives. *The 30 credit Board of Regents General Education requirements	3 4 3-4 or 2-3 3-4	or or or	3 4 1 3-4 2-3 3-4 must be
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Management and Lab Bio 371, Genetics WL 411-411A, Principles of Wildlife Management & Lab WL 430-430A**, Human Dimensions in Wildlife and Fisheries and Lab WL 490, Undergraduate Seminar Botany Elective (Bot 201-202, 301-301A, 305-305A, 415-415A, or PR 303) Communications Elective (Engl 379, MCom 210-210A, MCom 313) Biological Science Elective*** Remaining hours of 128 hour requirement are electives. *The 30 credit Board of Regents General Education requirements completed as part of a students first 64 credits. See pages 35-37 for care part of these credits are indicated by an asterisk (*). (G) The BOR General Education requirements include an Internationa requirement of 6 credits. Courses may count toward both the 1 Diversity requirement and the social science and/or humanities and fin See pages 35-37 for details. **South Dakota State University has a 10 credit SDSU Institutional Grad (SDSU Core). See pages 39-41 for details. These requirements are in asterisk (**). Students must take the proficiency examination after completing 48 credit a course in each of the General Education areas of social science, n science, and humanities and fine arts must be taken prior to taking the ***List of Biological Science Electives from which to elect one		or or or country count	3 4 1 3-4 2-3 3-4 must be ses that iversity//Global ements. irrement a double
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PS 305-305A, General Entomology and Lab

Vet 223-223A, Anatomy and Physiology of Livestock and Lab

⁺See adviser for chemistry options in sophomore year.

Vet 403, Animal Diseases and Their Control WL 370-370A, Limnology and Lab Zool 325-325A, Mammalian Physiology and Lab Zool 357-358, Invertebrate Zoology and Lab Zool 383-383A, Embryology and Lab Zool 441-441A, Vertebrate Histology and Lab Zool 467-467A, Parasitology and Lab

Women's Studies (WmSt) Minor

Virginia Norris
Department of Psychology
Scobey Hall 325
605-688-4915
e-mail: Virginia_Norris@sdstate.edu
http://www.sdstate.edu/wwss/http/women.htm

Requirements for Women's Studies Minor: 18 cr	
WmSt 101, Introduction to Women's Studies	3
WmSt 492, Special Problems in Women's Studies	3
Choose one course from the following:	3
WmSt 349, Women in History	
WmSt 305, Women and Politics	
WmSt 366, Psychological Gender Issues	
WmSt 383, Sociology of Sex Roles	,
Choose one course from the following*:	3
WmSt 248, Women in Literature	
Elective Courses	6
Courses can be selected from the required list above and	
from the following:	
CA 340, Work, Time, and Energy Decisions	
HDCF 250, The Development of Human Sexuality	
Soc 325, Domestic Violence	
WmSt 300, Topics in Women's Studies	
WmSt 418 Women in Media	

In addition, courses related to the roles of women in society are offered on a periodic basis in various departments. These courses may be used as electives with the approval of the Coordinator.

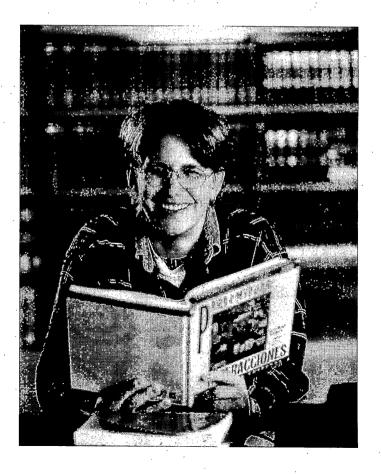
Zoology (Zool) Minor

Gary Peterson Department of Biology and Microbiology Agricultural Hall 304 605-688-6141

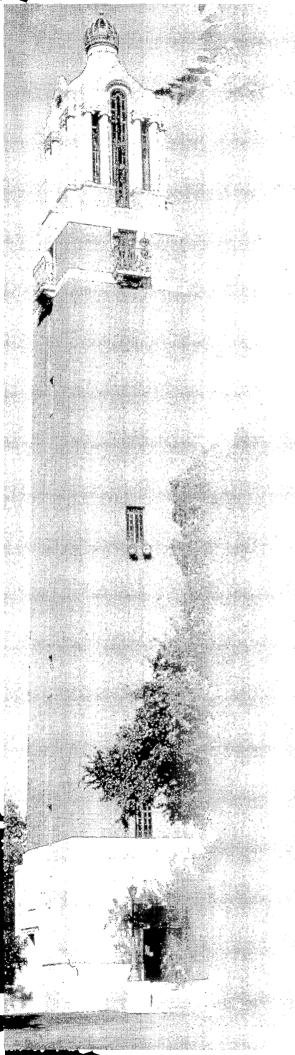
e-mail: biomicro@abs.sdstate.edu

Requirements for Zoology Minor: 16 cr

The minor in Zoology consists of Bio 101-102 or 151-152, and additional courses with a Zool prefix for a total of at least 16 credits. Two courses must be at the 300 level or above.



^{*} Appropriate courses in the Humanities and Fine Arts may be substituted with the approval of the Coordinator.



Course Descriptions	197
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Course Descriptions	
(Arranged alphabetically by prefix)	

Curriculum Entries

Course Descriptions

Study of the nature, diversity, and classification of life; ecology; cells and cell cycles, Mendelian and modern Genetics. Intended for those not majoring in Biology. Duplicate credit for 101 and 151 not allowed.

- 1. Course prefix.
- 2. Course number. The first digit of the three-digit number indicates the level of instruction, as follows:
 - 0 Pre-college, non-degree;
 - 1 Freshman;
 - 2 Sophomore;
 - 3 Junior:
 - 4 Senior.
- 3. Name of the course.
- 4. Number of credits assigned to the course. One credit is usually interpreted as one hour of class work per week or as two to three hours of lab work per week.
- Semesters in which the course is taught. F Fall; S Spring; Su Summer.
- 6. A brief description of the course. This section will also include other information affecting your enrollment in the course. A course description might include, for instance: "P, Math 102." This means that Math 102 is a prerequisite and must be taken before enrollment in this course. Other information included in various course descriptions would be: "Alternate years," "Not open to majors," "May be repeated for a total of six credits," etc.

Course Numbering

Undergraduate Courses:

001-099 Pre-college, remedial skills, special improvement (non-degree credit)

100-199 Freshman level

200-299 Sophomore level

300-399 Junior level

400-499 Senior level (may be dual listed with 500 level graduate course)

Graduate Courses:

500-599 Entry level graduate (may be dual listed with a 400 level undergraduate course and may include limited enrollment by undergraduates)

600-699 Graduate level (undergraduate enrollment only by exception)

Open to senior students for **graduate credit** under the following conditions:

Within 15 credits of completing Bachelor's degree;

Have an overall grade point average of 2.5 or higher, or a Junior-Senior grade point average of 3.0 or higher;

Enroll for no more than 18 credits (9 credits during Summer Term);

The course or courses are not required for the Bachelor's degree.

700-799 Graduate level (graduate students only)

800-899 Doctoral and post-doctoral level (doctoral and post-doctoral students only)

Experimental Courses

Courses at the 100-800 levels ending in 98, or 99 are experimental and may be active for two years from the date of the first offering, at which time they end or must become permanent courses.

Colleges, Departments and Program Abbreviations

ABE, Agricultural and Biosystems Engineering

Acct, Accounting

AgEc. Agricultural Economics

AgEd, Agricultural Education

AgEx, Agricultural Extension

AHEd, Adult Higher Education

Air, Aerospace Studies

AIS, American Indian Studies

AM, Apparel Merchandising

Anth, Anthropology

Art, Art

ArtD, Art Design

ArtE, Art Education

ArtH, Art History

AS, Animal Science

AST, Agricultural Systems Technology

AT, Athletic Training

Avia, Aviation

BAdm, Business Administration

Bio, Biology

BioS, Biological Sciences

Bot, Botany

BS, Agriculture and Biological Sciences

CA, Consumer Affairs

CEE, Civil and Environmental Engineering

Chem, Chemistry

Chin, Chinese

CHRD, Counseling and Human Resource Development

CJus, Criminal Justice

CM, Construction Management

CSc, Computer Science

CScA, Computer Science Applications

CST, Communication Studies and Theatre

CTE, Career and Technical Education

Danc, Dance

DCom, Communication Disorders

DS, Dairy Science

Econ, Economics

EdAd, Educational Administration

EdER, Education Evaluation and Research

EdFn, Educational Foundations

EE, Electrical Engineering

ElEd, Elementary Education

EM, Engineering Mechanics

Engl, English

Ent, Entomology

EnvM, Environmental Management

EPsy, Educational Psychology

EET, Electronics Engineering Technology

EurS. European Studies

FBME. Food and Biomaterials Engineering

FCS. Family and Consumer Sciences

FCSE, Family and Consumer Sciences Education

Fren, French

GCom, General Communication

GE, General Engineering

Geog. Geography

Germ. German

Gero, Gerontology

GIS, Geographic Information Systems

GR. General Registration

HDCF, Human Development, Child and Family Studies

HDFS, Human Development and Family Studies

HFM. Hotel and Foodservice Management

Hist, History

Hlth, Health

Ho, Horticulture

Hon, Honors

HPER, Health, Physical Education and Recreation

HSc, Health Science

ID, Interior Design

Japn, Japanese

La, Landscape Design

LAAS, Latin American Area Studies

Lak, Lakota

Ling, Linguistics

Math, Mathematics

MCom, Mass Communication

ME, Mechanical Engineering

MedT, Medical Technology

Micr, Microbiology

Mil, Military Science

ML, Modern Languages

MNET, Manufacturing Engineering Technology

MuAp, Music Applied

MuEn, Music Ensemble

Mus, Music

NFSH, Nutrition, Food Science and Hospitality

Nurs, Nursing

PE, Physical Education

Pha, Pharmacy

Phil, Philosophy

PHST, Physics Topics

Phys, Physics

Plan, Planning

PolS, Political Science

PR, Park Management

PS, Plant Science

Psyc, Psychology

PT, Physical Therapy

Rang, Range Science

Recr, Recreation

Rel, Religion

RTVF, Radio, Television and Film

SeEd, Secondary Education

Soc, Sociology

Span, Spanish

SpCm, Speech Communication

Stat, Statistics

Thea, Theatre

Vet, Veterinary Science

Wel, Wellness

WL, Wildlife

WmSt, Women's Studies

Zool, Zoology

Miscellaneous Abbreviations

admin, administration

adv, advanced

Ag, Agriculture

Am, American

AV, Audio-Visual

AY, alternate years

&, and

CAI, Computer Assisted Instruction

chem, chemistry

comp, composition

Conc, Concurrent

CRN, 5 digit course reference number

dev. development

econ, economics

ed. educational

F, fall semester

fr, freshman

fund, fundamentals

gen, general

Hum, Humanities

intro, introduction

jr, junior

prin, principles

L, or lab, laboratory

P, prerequisite

R, recitation (lecture)

S, spring semester

Schd, Schedule Type Sec, Section S.D., or SD, South Dakota soph, sophomore sr, senior

TBA, time and/or credit to be arranged

U.S., or US, United States

Su, summer term



Course Types

Clinical Experience

Students participate in client and client related services that are an integral part of an educational program. Clinical instruction occurs in or outside an institutional setting and involves work with clients who receive professional services from students serving under direct or indirect supervision by a faculty member and/or an approved member of the agency staff.

Clinical Laboratory

The course takes place in a clinical laboratory setting. This includes practice labs, hospitals, or other agencies. Students apply methods and principles of a clinical discipline. Course size varies depending upon accreditation standards, clinical space limitations, level of offering, availability of client experiences, the nature of the clients, and equipment limitations. Faculty members control the assignments and maintain direct and close supervision of the students.

Competency-Based/Self-Paced Study

Students proceed through a course of study at their own rate, or as directed often assisted by computer or other technology. Mastery is based on achieving competencies and benchmarks, rather than attaining a schedule of assignments. An instructor monitors student progress. May be supplemented by individual or group tutorial sessions. Includes self-paced Internet courses.

Design/Research

Courses focusing on design research and do not entail a dissertation or thesis. The plan of study is negotiated by the faculty member and the students. Contact between the two may be extensive and intensive. May be used as a research/design requirement for a degree. Research/Research Problems are included in this course type.

Discussion/Recitation

A course, or a section of a larger course, designed for group discussion or student recitation.

Ensemble

Large group musical performance courses, meaning group of more than 10 performers. Includes: orchestra, bands, and choruses.

Graduate Thesis

A formal treatise presenting the results of study submitted in partial fulfillment of the requirements of an advanced degree. The process requires intensive interaction between the candidate and the thesis director. Masters degrees, Specialist degrees, and Doctorates are included in this course type.

Independent Study

Students complete individualized plans of study. The faculty member and students negotiate the details of the study plans. Meeting depending upon the requirements of the topic. This course type is not for completion of a thesis or dissertation or for meeting the research requirement for a degree. Directed Studies, Special Projects, Mentored, and Special Problems are examples of this course type.

Internship/Practicum

Applied, monitored and supervised, field-based learning experience for which the student may or may not be paid. Students gain practical experience; they follow a negotiated and/or directed plan of study. Includes field work/experience, supervision courses, student teaching, and cooperative education.

Laboratory

Courses meeting in a defined physical setting (i.e. laboratory) for the purpose of the application of methods and principles of a discipline.

Lecture

Faculty members give oral presentations of facts, principles, context, or interpretation. Instruction takes place in a traditional classroom setting.

Modified Physical Education Activity

A course type limited to accommodate students with physical disabilities where numbers are very limited.

Physical Education Activity

A course devoted to participation in or the performance of some form of physical activity. Knowledge associated with the proper performance of the activity is presented.

Private Instruction

The courses involve individual instruction. One-to-one demonstration, performance critique, music, fine arts or performing arts, or flight instruction are examples.

Seminar

A highly focused, and topical course. The format includes student presentations and discussions of reports based on literature, practices, problems, or research. Seminars may be conducted over electronic media such as Internet and are at the upper division or graduate levels.

Special Topics

A course devoted to a particular issue in a specified field. Course content is not wholly included in the regular curriculum. Guest artists or experts may serve as instructors.

Studio Course/Small Group Instruction/Small Ensemble

Course involves the demonstration and application of design and theory in a defined physical setting (i.e., studio). The Studio Course is characterized by significant one-on-one student/instructor interaction. Students explore and experiment under the guidance of an instructor.

Thesis/Research Sustaining

This is a zero credit hour course type used to track students who are not currently working with faculty on thesis or research activities. Universities may require students to register under this course type to remain active degree candidates.

Tracking Courses

This course type is used to track students for zero credit hours.

Undergraduate Thesis

A formal treatise presenting the results of study submitted in partial fulfillment of the requirements for an undergraduate degree. The process requires extensive and intensive one-on-one interaction between the candidate and professor with more limited interaction between and among the candidate and the other members of the committee.

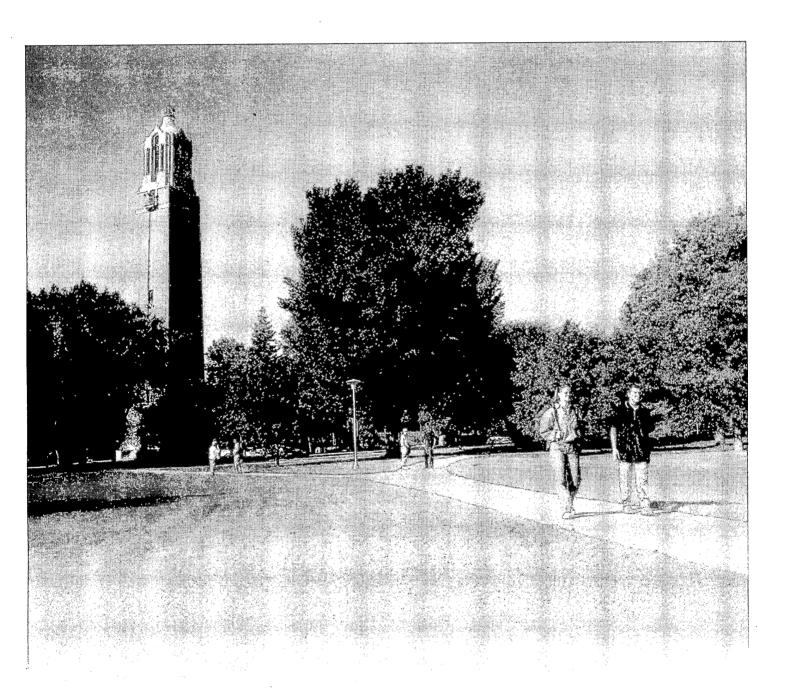
Workshop

Special sessions in specific topic areas. Approximately 45 hours of work is required for each hour of credit. Workshops may vary in time range. They may include lectures, conferences, committee work, and group activity.

Other Important Definitions

Multiple-Numbered Courses – A multiple-numbered course is a single course specifically designed for simultaneous delivery at two or more levels with the two or more numbers taught simultaneously. In some instances, the course may be offered for credit at different levels (i.e., courses may be offered for upper/lower division credit or for undergraduate/graduate credit). The dual-numbered course may also be crosslisted.

Crosslisted – A crosslisted course is a course which carries more than one course prefix (i.e., Hist, PolS, Geog) with credit being offered under any one of the listed prefixes at the same time. Students choose to take the course under the prefix that is more beneficial to their course of study. All students meet at the same time in the same place, with the same instructor(s). A crosslisted course may also be multi-numbered.



Acct 211 Principles of Accounting II3 FS **ABS** (Agriculture and Biological Sciences) Accounting for partnerships and corporations; cost accounting. **Undergraduate Courses** budgeting, and other accounting reports for management, creditors, and investors. P, 210. ABS 203 Global Food Systems.....3 FS Acct 310 Intermediate Accounting I3 F Introduction to global food systems and agricultural diversity. Food Financial accounting relating to preparation and analysis of financial production techniques, economics, society/cultural values, and statements, corporate accounting, current and fixed assets, and working agricultural constraints in several countries will be studied. The course is capital items. P. 211. team taught with faculty from Economics, Animal and Range Sciences, Acct 311 Intermediate Accounting II3 S and Plant Science. Financial accounting relating to tangible properties, investments, ABS 381 Multicultural Agriculture/Biological Science liabilities, stockholders' equity, statements from incomplete records, tax Experience2-4 FSSu (on demand) allocation, price level impacts. P, 310. This will be a team-mentored class. Students will work one on one or in Acct 320 Cost Accounting3 F small groups with professors that have knowledge of the region and Cost accounting for planning and control. Budgets, standards, and culture within the U.S. that will be visited. Students will participate in a profitability analysis. Job-order, process, and standard accounting one-to-three week experience to an area in the U.S. that is different from systems. P, 211. their home agricultural community, to experience and evaluate diverse Acct 430 Income Tax Accounting3 S food/agricultural systems. For the Bachelor's degree, a maximum of 8 Internal Revenue Service Codes and Regulations for individuals, credits is allowed for domestic multicultural travel/study experience including all supporting schedules. P, 211. (ABS 381) and/or an international travel/study experience (ABS 382). Acct 450 Auditing3 ABS 203 is recommended. P, instructor consent. The theory and practice of auditing. Topics covered include generally ABS 382 International Multicultural Agriculture/Biological accepted auditing standards, ethical responsibilities and legal liabilities of Science Experience2-3 FSSu (on demand) auditors, internal control, audit evidence, audit programs, preparation of This will be a team-mentored class. Students will work one on one or in working papers and the audit report. P, Acct 311, or consent. small groups with professors that have knowledge of the global region Acct 493 Special Topics1-4 and culture that will be visited. Students will participate in a one-to-three Organized by an instructor in consultation with his or her department week travel/study abroad experience to another nation(s) to experience head and a group of students. A medium through which a specific topic and evaluate diverse food/agricultural systems. For the Bachelor's can be pursued. Normally experimental and may be a "one shot deal" for degree, a maximum of 8 credits is allowed for domestic multicultural a particular semester and the unique group of students. Maximum: 4 travel/study experience (ABS 381) and/or an international travel/study credit hours per semester, 7 credit hours per degree. experience (ABS 382), ABS 203 is recommended. P. instructor consent. ABS 475 Integrated Natural Resource Management3 S A capstone course that requires students to integrate previously-learned ABE (Agricultural and Biosystems Engineering) natural resource techniques and information into the strategic planning **Undergraduate Courses** process. Students will be divided into small groups for plan development. Various majors are involved to allow for integrated course material. P. ABE 122 Introduction to Agricultural and Biosystems Engr.2 F dependent on major. An introduction to applications of engineering to biological systems. ABS 475A Integrated Natural Resource Management Lab0 Emphasis is on engineering with plant, animal, and soil based systems ABS 476 Integrated Management of Agricultural Resources6 FS and on the properties of biological materials. Advanced undergraduate study in integrated management of agricultural ABE 311 Design Project I1 F resources through a multidisciplinary team approach to planning and Procedures, theory, concepts and design of equipment for agricultural problem solving to positively impact agriculture and rural vitality in an production or ag product processing applications. The integration of economically and environmentally sustainable manner. Teams of students design principles with design projects and reports. Junior standing. will develop an extensive plan for a given set of natural resources. ABE 314 Ag Power & Machines4 F Modules include leadership, team building, critical thinking, Analysis of factors affecting field machines and tractor performance, communication, and global perspectives. Several field trips to farms, engine design, transmissions, traction, hitches, hydraulic systems, ranches, and businesses are required. P, senior standing in an ABS major economics. P, EM 222, concurrent with ME:314. and admission into the Biostress Center of Excellence. ABE 314A Ag Power & Machines Lab......0 ABE 321 Design Project II1 S **Graduate Courses** Procedures, theory, concepts and design of equipment for agricultural ABS 701 Animal Systems1-10 production or ag product processing applications. The integration of design principles with design projects and reports. Junior standing. ABS 702 Genetics......1-10 ABE 324 Ag Structures and Indoor Environment4 S ABS 703 Microbial Systems1-10 Construction materials and agricultural structures design using wood, ABS 704 Plant Systems1-10 plywood, and connectors. Agricultural environmental fundamentals, ABS 705 Research Methodology1-10 modification, control and ventilation. Environmental requirements for ABS 706 Natural Resource Management1-10 livestock and livestock housing systems design. P, ME 314 and EM 321 concurrent. Acct (Accounting) ABE 324A Ag Structures and Indoor Environment Lab0 ABE 343 Physical Properties of Biological Materials3 F **Undergraduate Courses** Engineering Properties of biological and interacting materials within a Acct 210 Principles of Accounting I3 FS

system. Relationships between composition structure, and properties of

various biomaterials including food and plant and animal tissues.

Definition and measurement of mechanical, physical, thermal and

electromagnetic properties and their variability. Use of these properties in

engineering applications.

theory.

Basic accounting cycle; financial statements; asset valuation; accounting

controls and concepts, payrolls, payroll taxes and an introduction to the

corporate capital accounts. Fundamental procedure and accounting

ABE 343A Physical Properties of Biological Materials Lab	ABE 454-554 Advanced Unit Operations in Food/Biomaterials Processing
functions for electrical and electronic equipment using microcomputer	ABE 503 Energy & Environment
technology. Offered first half of semester. P, CSc 218. ABE 372A Microcomputer Applications in Agricultural	ABE 512 Advanced Agricultural Tractors & Machines2
Engineering Lab0	ABE 522 Bio-environmental Engineering2
ABE 411 Design Project III2 F	ABE 533 Advanced Irrigation Engineering3
Procedures, theory, concepts and design of equipment for agricultural	ABE 533A Advanced Irrigation Engineering Lab0
production or ag product processing applications. The integration of	ABE 700-701 Seminar0-1
design principles with design projects and reports. Senior standing.	ABE 732 Advanced Hydrology in Agriculture
ABE 422 Design Project IV	ABE 733 Ground Water Engineering in Ag
Procedures, theory, concepts and design of equipment for agricultural production or ag product processing applications. The integration of	ABE 763 Instrumentation
design principles with design projects and reports. Senior standing.	ABE 763A Instrumentation Lab
ABE 434 Natural Resources Engineering4 F	ABE 770 Special Problems in Ag Engineering1-2 (on demand)
Precipitation, infiltration, evapotranspiration and runoff from small	ABE 771 Graduate Seminar1
agricultural watersheds and application to design of conservation	ABE 772 Similitude
structures, water erosion control practices. Design of drainage and	ABE 772A Similitude Lab
irrigation systems. Feedlot pollution control principles. P, EM 331. ABE 434A Natural Resources Engineering Lab0	ABE 773 Programming Agricultural Systems
ABE 463 Applied Instrumentation F	ABE 790 Thesis1-7 FSSu
The generalized measurement system consisting of the detector-	ABE 791 Thesis Sustaining0 FSSu
transducer, intermediate modifying stage and terminating stage is	ABE 792 Research Report/Design Paper1-2 FSSu (on demand)
considered. Applied use of oscilloscopes, oscillographs, potentiometers,	ABE 793 Engineering Research/Design Paper Sustaining
operational amplifiers, x-y plotters and other basic instruments.	ABE 795 Special Topics1-3 (on demand) ABE 797 Research1-9
Electronic instrumentation and microprocessor based data acquisition systems. P, EE 305.	ABE 890 Dissertation, Ph.D1-12
ABE 463A Applied Instrumentation Lab0	ABE 891 Dissertation, Ph.D. Sustaining0
ABE 490 Seminar & Inspection Trip1 F	
Review of current technical literature in agricultural and biosystems engineering. Oral and written reports and discussion. P, senior standing. ABE 492 Special Problems in Ag Engineering1-3 FSSu The solution must be written up in a final report. P, must have approval	AEWR (Atmospheric, Environmental, and Water Resources)
of the adviser and head of department.(on demand) Individual or group	Graduate Courses
study. P, consent.	AEWR 793 Research Seminar
ABE 493 Special Topics1-4	AEWR 890 Dissertation Ph.D1-12 AEWR 891 Dissertation Ph.D. Sustaining0
ABE 494-495-496 Cooperative Education/Internship/Field Experience1-6 FSSu	ALVIA 091 Dissertation 1 n.D. Sustaining
Planned and supervised professional experience related to agricultural	
and biosystems engineering which takes place outside the formal	AgEc (Agricultural and Resource Economics)
classroom with private business or industry, or public agencies. P, consent	
of department program coordinator.	Undergraduate Courses
	AgEc 271 Farm & Ranch Management4 FS Farm or ranch business from viewpoint of continuous profit and
Dual Numbered Courses	efficiency. Basics of farm management applied to selection and
ABE 444-544 Unit Operations of Biological Materials Processing4 S	combination of enterprises, level of production, size of business, labor
Transport processes of heat and mass are applied to the following unit operations: evaporation, drying, gas liquid separation processes (humidification cooling towers), vapor-liquid separation processes (distillation), soil-liquid separation processes (leaching), membrane	efficiency, and machinery efficiency. Types of farming, tenure and leasing, risk, prices, credit and starting farming. Business and production records, their analysis and use in budgeting and planning future operations. P, Math 102.
separations (ultrafiltration, reserve osmosis), mechanical separation processes, extrusion. P, senior standing or consent. ABE 444A-544A Unit Operations of Biological Materials Processing Lab	AgEc 271A Farm & Ranch Management Lab
	standing.

AgEc 354 Agricultural Marketing and Prices3 FS Principal factors which affect the supply, demand and prices of	AgEd (Agricultural Education)
agricultural commodities. Market information in forecasting price trends.	Undergraduate Courses
Evaluation of alternate marketing strategies, e.g., futures trading, other	AgEd 404 Program Planning in AgEd4 FS
forward pricing instruments. Alternative agricultural marketing	FFA, Adult Education, and supervised occupational experience
institutions. P, Econ 201 or 202.	programs; policy development.
AgEc 364 Introduction to Cooperatives	AgEd 434 Special Methods in AgEd3 FS
cooperative form of business. Cooperatives differ form other businesses	Aims, course of study selection and organization of subject matter,
because they are member-owned and operate for the benefit of members,	method in field, laboratory, classroom, and supervised occupational experience programs. Taken first six weeks of semester in which the
not investors. Th course is designed to provide students an understanding	student completes student teaching, and resumes following student
of cooperatives that is legally consistent and realistic.	teaching. P, PSII - Professional Semester II, (EPsy 302, SeEd 450) CTE
AgEc 373 Rural Real Estate Appraisal2 F	287 and 405.
Principles and practices of rural real estate appraisal. Principles of soils	AgEd 454 Teaching Ag Systems Technology Labs2 FS
valuation and their application for farmland appraisal. Cost, market data	Shop management, safety, shop plans, selection, care and use of hand and
and income approaches to farmland and building appraisal. Tax, loan and other specialized rural appraisal procedures. Half-day field trips to area	power tools, and equipment, to be taken as part of student teaching block
farms are required. P, 271-271A and PS 213-213A. Crosslisted with PS	in Agricultural Education. P, senior in Agricultural Education. Offered
373.	first six weeks of semester.
AgEc 373A Rural Real Estate Appraisal Lab1	AgEd 454A Teaching Ag Systems Technology Labs Lab0 AgEd 475 Supervised Teaching Internship10
AgEc 454 Economics of Grain and Livestock Marketing3 FS	Assigned in the individual student's major, or if appropriate, the teaching
Advanced grain and livestock marketing principles in U.S. and World	minor. An experiential application of teaching pedagogy and content for
Markets. Marketing management alternatives for producers, processors	an extended period of time. Application must be made through the
and handlers. Cooperative's role in domestic and international marketing.	Supervisor of Clinical Experiences no later than the second semester of
P, 354 or AS 285 with Econ 201 recommended.	the junior year. P, Professional Semester I courses, Professional Semester
AgEc 478 Agricultural Finance	II courses, acceptance and admittance into the Teaching Internship
extending and using credit; developing information flows, capital	Program.
budgeting, cost of capital, the role of financial intermediaries; control of	AgEd 492 Problems In AgEd1-3 Selected studies and activities to meet the needs of undergraduate
land and depreciable assets; application of financial software packages in	students. Written permission of Department Head required.
agriculture. P, 271, Econ 201, Acct 210, with Acct 211 recommended.	AgEd 494-495-496 Cooperative Education/Internship/ Field
AgEc 478A Agricultural Finance Lab0	Experience1-12 FSSu
AgEc 479 Agricultural Policy3 FS Economic policies affecting agricultural prosperity, with special	Planned and supervised professional experience related to Agricultural
emphasis on farm programs, food assistance programs, agricultural trade,	Education which takes place outside the formal classroom with private
finance, bargaining and other institutional forces affecting agriculture and	business or industry, or public agencies. P, consent of department
agri-business. Implication of agricultural policy alternatives on people	program coordinator. Written permission of Department Head required.
living in rural and urban areas. P, Econ 201, 202.	Dual Numbered Courses
AgEc 492 Agricultural Economics Problems1-3 FS	AgEd 406-506 Problems1-3 FSSu
Individual study of special topics or problems of concern to agriculture	Directed reading and research in selected agricultural education topics.
and agri-business. May involve case studies, special readings, and	Directed reading and research in selected agricultural education topics.
reports. Maximum of 4 hours. P, consent. AgEc 493 Special Topics1-4	Graduate Courses
Organized by an instructor in consultation with his or her department	AgEd 605 Seminar1-2 FSSu
head and a group of students. A medium through which a specific topic	AgEd 706 Adult Ed in Ag2 Su
can be pursued. Normally experimental and may be a "one shot deal" for	AgEd 707 Supervised Occupational Experiences & Student
a particular semester and the unique group of students. Maximum: 4	Groups in2 Su
credit hours per semester, 7 credit hours per degree.	AgEd 776 Curriculum in AgEd2 Su
Deal Manual Commen	AgEd 792 Research Problems in AgEd2 FSSu
Dual Numbered Courses	
AgEc 421-521 Farming and Food Systems Economics	AHEA (Adult High on Edwardian)
Use of economic concepts in analyzing farming and food system alternatives. Using multidisciplinary approach, the course examines the	AHEd (Adult Higher Education)
critical linkages in the food system and engages in problem solving at	Undergraduate Course
each step of the process. P, 271, or Econ 201.	AHEd 496 Field Practice Training in Extension2-5 FSSu
AgEc 471-571 Advanced Farm & Ranch	Available to a limited number of majors in agriculture or home economics
Management3 (alternate years)	interested in Extension work who have completed the junior year. Students
Leasing arrangements, capital investment, computerized accounting and	will be assigned to a county during the summer for a period of time at the
budgeting. Linear programming as a tool for planning and organizing the	student's convenience. Written permission of Department Head required
farm business. P, senior standing, 271, Econ 301, or consent.	Written permission of Department Head required.
Graduate Courses	Graduate Courses
AgEc 621 Advanced Production Economics3	AHEd 600 Special Problems in Extension2-6
AgEc 630 Advanced Agricultural Marketing & Prices3	AHEd 681 Workshop in Adult & Continuing Education1-3 FSSu
AgEc 690 Special Problems1-3 FS	AHEd 691 Problems1-3 FSSu
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AHEd 710 Adult Curriculum and Instruction	AIS 201-202 Intermediate Lakota I-II
Air (Aerospace Studies/Air Force ROTC) General Military Courses Air 101 Aerospace Studies 100	AIS 310 Tribal Government and Politics
Air 202 Aerospace Studies 200	tribal cultures, historical overview of Indian education, current education issues, contemporary socio-economic conditions. Crosslisted with Hist 368. AIS 410 North American Ethnology
between military and civilian society. Theory and workings of National Defense policy. Roles and mission of the Air Force. Air 401A Aerospace Studies 400 Lab	AM (Apparel Merchandising) Undergraduate Courses AM 121 Apparel in Popular Culture

AM 274 Fashion Promotion and Visual Merchandising3	AM 497 Professional Practicum1-12 F (1/2 semester)
Principles in the promotion of merchandise to varied consumer groups by	Planned and supervised work experience in a cooperating retail firm
all segments of the fashion industry. Study of the techniques used for	provides opportunity for integration of course work in the occupational
fashion promotion. Experience in planning, execution, installation and evaluation of advertisements, displays, and fashion shows (events). P.	setting. P, 472, 487; 90 sem. cr. and consent of the department; GPA 2.2.
AM 173, ArtS 121.	Dual Numbered Courses
AM 274A Fashion Promotion and Visual Merchandising Studio0	
AM 293 Current Topics1-3	AM 480-580 Travel Studies1-5
Discussion of current literature and issues. Investigation of topics for	Study of businesses, museums, and other relevant places through site tours and presentations in selected locations. Includes pre-travel
which there is a current need but are not part of any class. P, consent.	orientation and post-travel written report. P, consent of department.
AM 315 Apparel Design3 S (alternate years)	AM 492-592 Special Problems1-3
Course develops aesthetic judgement and design literacy of students.	Problems for independent study selected according to special interests
Fashion design for various levels of the industry including protective and	and needs. Arranged by contract with instructor.
functional clothing markets are studied. P. Arts 122, AM 121, AM 172. AM 315A Apparel Design Studio0	AM 493-593 Current Topics1-3
AM 331 Apparel Manufacturing3 F	Discussion of current literature and issues. Investigation of topics for
Survey of methods used in production of apparel and sewn products.	which there is a current need but which are not part of any class. P,
Product knowledge including garment classifications, technical	consent.
development and marketing of equipment used in apparel manufacturing,	Constant C
product specifications and standards. P. AM 231.	Graduate Courses
AM 342 Textiles I3	AM 770 Seminar in Apparel Merchandising & Textiles1-2
An investigation of fiber, yarn, fabrication, finishes and their	AM 792 Special Problems1-3
interrelationship to specific end use and consumer satisfaction. P,	
sophomore standing.	A == 41=
AM 342A Textiles I Lab0 AM 350 Dress in World Cultures3 (alternate years)	Anth (Anthropology)
Cross-cultural study of world dress and adornment practices relating the	Undergraduate Courses
clothing characteristics of selected cultures to their technical and material	Anth 200 Physical Anthropology3 F
bases, to manufacture and trade, and to other major social phenomena. P,	Physical anthropology, archaeology and linguistics, analysis of concepts
Soc 100 recommended.	of society and culture. Emphasis on non-literate peoples of the world.
AM 352 History of Dress/Western World (alternate years)	Anth 210 Cultural Anthropology3 FS
Development of costumes from ancient times; social significance,	Meaning of culture, its significance for humans, its diverse forms among
symbolic meanings, and functions are investigated. Costume collection in	peoples, past and present.
College of Family and Consumer Sciences serves as resource material. P, Hist 121 or 122 recommended.	Anth 410 North American Ethnology3 (on demand)
AM 372 International Trade in Text/Apparel3 (alternate years)	A comparative survey of native North American cultures representative
Examination of the textiles and apparel industries in a global context	of major cultural areas of North America. Emphasis on traditional
including history and development, organization and operation, domestic	cultures using a case-study approach. Crosslisted with AIS 410. Anth 495-496 Internship/Field Experience in
and international trade policies. P. Econ 201.	Anthropology1-12 FSSu
AM 442 Textiles II2 (alternate years)	Planned and supervised professional experience related to Anthropology
Effect of fiber blends on fabric properties and performance with emphasis	which takes place outside the formal classroom with business, industry,
on textile needs of specialty markets. Comparison of origin and cost	public agencies. Credit will not count toward meeting minimum
relative to quality in apparel and household textiles. P. AM 342.	requirements of the major or minor. May be repeated until 12 credits are
AM 442A Textiles II Lab	earned. Graded P or F. P, major, consent of department program
AM 453 Socio-Psychological Aspects of	coordinator.
Dress	Dwal Nyumbarad Carrysa
cultural perspectives. P, Soc 100 and Psyc 101.	Dual Numbered Courses
AM 472 Retailing3 F	Anth 421-521 Indians of North America
Principles of retailing as applied to textiles, apparel and furnishings	Provides prospective teachers and those interested in Indian people with
retailing. Study of customer demand, buying, inventory control and	a basic knowledge of Indian heritage and culture. Emphasis on the Dakota Indians. Crosslisted with AIS 421. (Fulfills Teacher Ed.
promotion. Field trip to market center is required.	requirement.)
AM 473 Merchandise Planning and Control	Anth 490-590 Special Problems1-3 FSSu
Analysis of merchandising components for profitability. Develop	P, open to undergraduate and graduate students with sufficient
strategies for planning profitable and acceptable merchandise lines. Construct a buying plan. Case study approach.	background and consent of instructor.
AM 487 Pre-practicum in Apparel Merchandising 1 F (1/2 semester)	Anth 497-597 Topics in Anthropology1-3 (on demand)
Discussion of professional practices and issues. Experience in goal	Selected topics pertaining to theory and methods in cultural, physical
setting, reporting and evaluation. Organization and preparation of	anthropology and archaeology. P, undergraduate/graduate and consent of
professional documents. P, 472 or concurrently.	instructor.
AM 495 Post-practicum in Apparel Merchandising3S	
Discussion and application of practicum work experiences. Refinement	
of decision-making and leadership techniques.	

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Art (Art Studio)	Art 381 Printmaking II—Beginning Level3 FS
· · · · · · · · · · · · · · · · · · ·	A continuation of Printmaking I. P, 281. Art 382 Printmaking – Advanced Level
Undergraduate Courses	Continuation of Printmaking II. Creative use of advanced printmaking
Art 111 Drawing I3 FS	techniques and processes in relief, intaglio, and serigraphy. P, 381.
Development of visual perception in representational and expressive	Art 430 Watercolor
drawing in various media, stressing visual thinking through observation,	Creative experience in developing and evaluating visual ideas expressed
analysis and expression. P, department written consent.	through the watercolor medium. Discussion and utilization of master
Art 112 Drawing II	artists' watercolor approaches and techniques. P, 111.
conceptual and critical abilities related to the expression of visual ideas.	Art 431 Painting IV-Advanced Level3 FS
P, 111 and department written consent.	Continuation of Painting III with more emphasis on self-directed and
Art 121 Design I3 FS	experimental approaches in developing subject matter and content.
Introduction to the studio and approaches of the creative design process	Emphasis on concepts in art history, art criticism, and issues in
through a variety of media and techniques. The elements and principles	contemporary art. P, 332.
of two-dimensional composition will be explored through studio projects,	Art 441 Sculpture IV-Advanced
discussion, and critiques. P, department written consent.	concepts. P, 342.
Art 123 Three Dimensional Design3 FS	Art 451 Ceramics IV-Advanced3 FS
History, theory, aesthetics and materials of the three-dimensional design	A continuation of Ceramics III, an advanced exploration of ceramic
language. Organization of the visual and design elements in 3-D problem	materials as directed by personal conceptual needs. Further technical
solving. P, department written consent.	aspects of clay, glaze, and firing processes. Students take a more active
Art 212 Figure Drawing	role in studio operations. P, 352.
A continuation of Drawing I with an emphasis on developing the visual intellectual and technical aspects by drawing the human figure. *P, 111.	Art 481 Printmaking IV-Advanced Level3 FS
Art 222 Color Theory3 FS	A continuation of Printmaking III. P, 382.
An emphasis on studio problems that explore the physical and	Art 491 Directed Studies1-12 FSSu
psychological properties of color and color relationships as they pertain	Limited to no more than 6 semester hours under any single instructor.
to individual visual expression. P, 121; department written consent; also	May be continued with more than one instructor (or under different
recommend 111.	sponsor). P, written consent of instructor.
Art 231 Painting I – Beginning Level3 FS	Art 492 Problems in Visual Arts
Combine studio experience in drawing and painting with demonstrations	Independent study in art area arranged in consultation with the instructor.
and discussion on style, technique, color and composition as they relate	Limited to seniors with a 3.0 average in art and a working background in
to the expression of visual ideas. P, 111.	the art problem they wish to undertake. P, written consent of instructor. Art 493 Topics in Visual Arts1-5 (on demand)
Art 241 Sculpture I – Beginning Level3 S	Selected topics of current interest in the discipline.
An introduction to sculpture approaches through projects involving	Art 497 Internship1-9 FSSu
various 3-D traditional and contemporary materials and techniques. P,	You may elect to initiate and complete a major problem off campus. All
123. Art 251 Ceramics I – Beginning Level3 FS	Visual Arts majors may gain experiential work experience in coop jobs
The study of the ceramic heritage from various cultures in relation to	with selected employers and/or artists (students may be engaged as studio
contemporary clay objects. Projects expose students to hand-building,	apprentices). Graphic Design majors may only take three credit hours.
glazing and firing techniques. No prerequisite required, but 123	These work experiences are to be held concurrently with the regular study
recommended.	periods and may be arranged through the Department's Cooperative
Art 281 Printmaking I – Beginning Level3 FS	Education Coordinator. P, written consent of instructor.
Creative use of basic printmaking techniques and processes in relief, intaglio	* Course may be repeated once.
and serigraphy to develop conceptual abilities for the solution of individual	·
problems in visual communication. P, 111.	
Art 331 Painting II - Intermediate Level3 FS	ArtD (Art Design)
A continuation of Art 231, Painting I, with an increased emphasis on	
composition and expression. P, 231.	Undergraduate Courses
Art 332 Painting III – Intermediate Level3 FS Continuation of Painting II. Emphasis on composition and expression. P,	ArtD 251 Graphic Design I3 FS
331.	Introduction to visual communications and graphic design theory.
Art 341 Sculpture II–Intermediate Level3 S	Primary emphasis on basic visual design language and process.
A continuation of Sculpture I. Exploring individual concepts and various	ArtD 255 Computer Graphics I3 FS A non-programming introduction to drawing, painting and page layout
techniques and materials. P, 241.	design software with an emphasis on the production of computer-
Art 342 Sculpture III – Intermediate Level 3 S	generated design projects. P, written consent.
A continuation of Sculpture II. Further exploration of individual concepts	ArtD 350 Graphic Design II3 FS
and various techniques and materials. P, 341.	The exploration of typographic form and theory for graphic designers.
Art 351 Ceramics II-Intermediate Level3 FS	Emphasis on historical and current typographic usage and an introduction
A continued exploration of clay through individual concepts, techniques	to computer-generated letter forms. P, 251 or consent of instructor.
and glazing and firing methods. P, 251.	ArtD 351 Graphic Design III3 S
Art 352 Ceramics III – Intermediate Level	The study of design systems, typography as visual communications, and
Continuation of Ceramics II. Emphasis on individual concepts developed	the continuation of computer graphics. Emphasis on problem-solving. P,
through hand-building and/or throwing techniques. Also more advanced	350 and 355.
glazing and firing techniques, kiln maintenance, and studio operations. P,	ArtD 352 Design Media I
351.	Introduction to multimedia and electronic prepress. P, 355.

ArtD 355 Computer Graphics II3 FS	AS 101A Introduction to Animal Science Lab1
A non-programming intermediate computer graphics course focusing on	AS 105 Light (Saddle) Horses1 FS
digital-imaging and page-layout applications for graphic designers. P,	Breeds of horses, gaits, grooming, equipment, diets; basic instruction
251, 350. Art D 450 Cropping Degicar IV	with suitable equipment.
ArtD 450 Graphic Design IV	AS 106 Heavy (Draft) Horses
graphic designer. P, 351, senior in graphic design.	Breeds of draft horses, gaits, grooming, handling, safety, equipment diets; basic instruction with suitable equipment (single and team).
ArtD 452 Design Media II3 F	AS 200 Introduction to Livestock, Meats and Wool
A continuation of Design Media I with emphasis on completed	Judging1 F
multimedia and web page projects as portfolio works. P, 352.	Livestock terminology, selection criteria for beef, sheep and swine
ArtD 465 Advertising Design3 S	EPD's and performance data. Beef yield and quality grading, pork and
A studio course in Advertising Design with an emphasis on concept	lamb carcass evaluation, beef wholesale cut selection. Written and ora
development, graphic design, research, organization, and presentation. (For advertising majors crosslisted as MCom 471.) P, 351 for Visual Arts	reasons. P, 101 and sophomore standing or instructor consent.
majors or MCom 371 for Journalism majors.	AS 233 Applied Animal Nutrition4 FS Classification and nutritional characteristics of feedstuffs; methods of
J	evaluating feedstuffs; principles of ration formulation and balancing for
	farm animals; preparation, processing, handling and storage of feedstuffs
ArtE (Art Education)	and feed regulation and control. P, 101.
•	AS 233A Applied Animal Nutrition Lab0
Undergraduate Course	AS 241 Meat: Production to Consumption3 FS
ArtE 415 Methods of Teaching Art in Public Schools	Survey of meat industry. Composition of meat animals. Product
D impior standing and art advantage are in	identification, preservation, cooking, nutritive value, pricing and curing. AS 285 Livestock Evaluation and Marketing4 FS
P, junior standing and art education major.	Live and carcass evaluation of market animals. Methods of marketing
Dual Numbered Course	and pricing livestock and carcasses. P, 101.
ArtE 492-592 Special Problems in Visual Arts1-3	AS 285A Livestock Evaluation and Marketing Lab0
Artis 472-372 Special Froblems in Visual Arts1-3	AS 322 Junior Livestock Judging Team1 S
	Type studies and selection for individual excellence; judging and oral
ArtH (Art History)	discussion of classes of beef cattle, horses, sheep and swine. P, 200, 285.
At the (Art history)	AS 323 Advanced Animal Nutrition
Undergraduate Courses	different animal species. Chem 120 desirable antecedent. P, 233.
ArtH 100 Art & Design Appreciation3 S	AS 332 Principles of Animal Breeding4 F
Introduction to traditional and new visual media in art and design with a	Application of genetics to improvement of farm animals. Emphasis on
stress on practical knowledge. Primarily for non-art majors. No	occurrence, origin, use and control of variation in economically
prerequisite.	important traits of farm livestock. P, Bio 371.
ArtH 211 Survey of World Art and Architecture	AS 332A Principles of Animal Breeding Lab0
century A.D. and selected arts of indigenous cultures. Emphasis on	AS 341 Fresh Meat Operations
international studies and cultural diversity. P, 100.	Observation and/or hands on experience of marketing, fabrication, quality control, harvest and grading of meat animal products and by-
ArtH 212 Western Traditions in Art and Architecture3 S	products. Evaluation of products and value/price relationships. P.
Principal artistic styles in western culture: Renaissance to present.	sophomore standing and 241 or instructor consent. Desirable antecedent,
Emphasis on international studies and cultural diversity. P, 100.	285.
ArtH 310 History of U.S. Art and Architecture3 F (on demand)	AS 345 Processed Meat Technology3 S (odd years)
From colonial times to the present. P, 212.	Relate use as a food to structure, composition and function of muscle and
ArtH 320 Modern Art and Architecture Survey3 F (on demand) Survey of Modern Art and Architecture from its beginnings in the 19th	connective tissues. Principles and practices of meat processing, product
century. Emphasis on international studies and cultural diversity. P, 212.	evaluation and quality control in food industry. P, 241. AS 345A Processed Meat Technology Lab0
ArtH 493 Topics in Art or Design History and	AS 365 Horse Production3 S
Criticism1-3F (on demand)	Feeding, breeding and management principles for horses. P, 101.
Reading and discussion of criticism and aesthetics in visual art and	AS 365A Horse Production Lab0
design. Analyses of various critical stances and instruction in writing	AS 390 Animal Science Junior Seminar1 FS
about visual arts. P, 100 and 212.	Review of current research, discussions and reports. P, junior standing.
	AS 400 Judging Teams
AC	Section 1—Meats
AS (Animal Science)	reasons; participation in intercollegiate meat judging contests. P, 200,
Undergraduate Courses	341.
AS 100 Opportunities in Animal Science1 F	Section 2—Livestock1 F
An overview of opportunities in Animal Science.	Trips to purebred herds; training in Oral Reasons; participation in
AS 101 Introduction to Animal Science2 FS	American Royal and International Livestock Judging contests. P, 322.
Adaptation, breeding, feeding, marketing, behavior, classification,	Section 3—Wool1 S
growth, genetics, reproduction and animal health as they apply to farm	Wool judging and grading, training in written reasons, participation in
animals.	National Western Wool Judging contests. P, 200.

Section 4—Range Plant ID	AST (Agricultural Systems Technology)
North America.	Undergraduate Courses
AS 433 Livestock Reproduction3 F	AST 202 Construction Techniques and Materials2 FS
Basic physiological processes of reproduction in domestic animals,	Wood and concrete building materials; efficient construction procedures;
factors affecting and methods of improving reproductive efficiency. P,	hand tools, portable and stationary power tools; safe working practices.
Vet 223.	AST 202A Construction Techniques and Materials Lab
AS 433A Livestock Reproduction Lab0	AST 213 Agricultural, Industrial, and Outdoor Power3 FS
AS 474 Beef Cattle Production	Operation and maintenance of large and small spark ignition engines and
Feeding, breeding and management principles of beef cattle production	diesel engines. Proper selection of tractors with respect to: horsepower,
under farm and ranch conditions. P, 101, 233. Desirable antecedents 323,	fuel efficiency, safety, cost of operation, traction and power train type will
332. AS 474A Beef Cattle Production Lab0	be covered. P, Math 101.
AS 477 Sheep and Wool Production3 F	AST 213A Agricultural, Industrial, and Outdoor Power Lab0
Feeding, breeding and management principles for maximum production	AST 252 Auto Mechanics2 FS Engine tune-up, servicing and repairing engine accessories; testing
of meat and wool in farm and range flocks. P, 101, 233. Desirable	valves, carburetors, ignition systems; installing new rings, valves, and
antecedents 323, 332.	general work required of mechanics.
AS 477A Sheep and Wool Production Lab0	AST 252A Auto Mechanics Lab0
AS 478 Swine Production3 S	AST 262 Environmental Safety and Society2 F
Feeding, breeding and management principles for swine production.	Examination of appropriate safety procedures and practices for rural
Breeds, production trends and equipment. Student participation in	environments and associated occupations. Explorations of the social,
management techniques. P, 101, 233. Desirable antecedents 323, 332.	economic and physical consequences of their implementations.
AS 478A Swine Production Lab0 AS 490 Animal Science Senior Seminar: Current Issues1 FS	Individual and societal responsibilities with regard to safe practices.
Review of current research, discussions and reports. Limit 2 credits. P,	AST 273 Microcomputer Applications in Agriculture3 S
senior standing.	Basics of micro/transducer/control interfacing used for farm machinery
AS 494-495 Cooperative Education/Internship1-12 SSU	and equipment. Popular agricultural software, data management for agricultural applications. Practical experience in monitoring and
Supervised experience with a livestock enterprise or related agribusiness	controlling agricultural processes, equipment and systems.
for exposure to industry problems and solutions, evaluation of career	AST 273A Microcomputer Applications in Agriculture Lab0
objectives and final career preparation.	AST 303 Design Management Experience3 S
	Collaboration on designs with Agricultural and Biosystems Engineering
Dual Numbered Courses	students. Develop design ideas and assist in the evaluation, construction
AS 491-591 Research Problems1-3 FSSu	and testing of designs. The students will have responsibility for managing
Investigation of problems in following areas with results submitted as	the design projects. P, ES 131 or 121, EG 121 and 123.
technical paper: Animal Breeding, Nutrition, Meats, Livestock	AST 313 Farm Machinery Systems Management3 S
Production, Reproductive Physiology, Wool Technology, Poultry. Maximum of 3 credits for student program.	Farm machine selection and operation (including power requirements) tillage, spraying, planting, harvesting, storage, and ergonomics.
AS 492-592 Special Topics1-6 FS	AST 313A Farm Machinery Systems Management Lab
Advanced study of one or more selected topics: breeding, management,	AST 333 Soil & Water Mechanics3 FS
product technology, physiology, nutrition, research methods or	Engineering phases of soil and water conservation; elementary
marketing.	measurements and surveying and application to field problems; design
	and layout of conservation, drainage and irrigation practices.
Graduate Courses	AST 333A Soil & Water Mechanics Lab0
AS 711 Ruminology3 F (odd years)	AST 342 Applied Electricity
AS 712 Ruminant Nutrition3 S (even years)	Basic wiring, electrical circuits, controls, lighting, electric motor
AS 723 Population Genetics3 S (odd years)	selection and operation. National Electric Code covering residential, farm and light industrial applications.
AS 731 Experimental Procedures2 S(even years)	AST 342A Applied Electricity Lab0
AS 732 Advanced Physiology of Reproduction3 S (even years) AS 732A Advanced Physiology of Reproduction Lab0	AST 423 Rural Structures3 FS
AS 732 Advanced Flyslology of Reproduction Lab	Stud-frame and post-frame design specifications and techniques. Snow
AS 734 Protein and Energy Nutrition3 F (even years)	and wind loads, truss and header design, mechanical properties of lumber,
AS 736 Monogastric Nutrition3 F(even years)	plywood, and composite wood materials, insulation and concrete
AS 750 Animal Growth and Development3 F (even years)	reinforcement.
AS 753 Meat Science F (odd years)	AST 423 A Rural Structures Lab
AS 753A Meat Science Lab	AST 443 Food Process and Engineering Fundamentals
AS 781 Graduate Seminar	operation as applied to materials, handling, storing, preserving,
AS 790 Thesis	packaging and processing agricultural products.
AS 791 Thesis Sustaining, M.S FSSu (as arranged) AS 890 Dissertation, Ph.D1-12 FSSu (as arranged)	AST 443A Food Process and Engineering Fundamentals Lab 0
AS 891 Dissertation Sustaining, Ph.D FSSu (as arranged)	AST 454 Teaching Agricultural Systems Technology Labs2 F
The state of the s	Shop management, safety, shop plans, selection, care, and use of hand
•	and power tools and equipment to be taken as part of student teaching
•	block in Agricultural Education. P, senior in agricultural education. Offered first half of semester. P, 202.
	Official first fiam of somester f, 202.

AST 454A Teaching Agricultural Systems Tech Labs Lab0	AT 362 Athletic Training Techniques II3 S
AST 463 Agricultural Waste Management3 F	This course is the second of the intermediate athletic training courses
Agriculturally related pollution and waste problems. Regulations and	designed to meet all of the guidelines and competencies required by the
techniques for collecting, handling, treating and disposing of agricultural	National Athletic Trainers' Association. These courses should be taken in
wastes to minimize environmental pollution. Design and management of	sequence. AT 362 includes techniques related to the prevention,
agricultural water systems. P, PS 213, Phys 101 or 111, Instructor	recognition, and management of athletic injuries to the upper and lower
consent.	extremities. Related topics include preseason screening, preparticipation
AST 492 Special Problems1-3	physicals, and appropriate weight training techniques. P, 361.
Must have approval of adviser and department head.	AT 363 Athletic Training Techniques III3 F
AST 493 Special Topics1-4	This course is the third of the intermediate athletic training courses
AST 494-495 Cooperative Education/Internship/ Field	designed to meet all of the guidelines and competencies required by the
Experience1-12 FSSu	National Athletic Trainers' Association. These courses should be taken in
Planned and supervised professional experience related to mechanized	sequence. AT 363 includes a combination of material. One section of the
agriculture which takes place outside the formal classroom with private	class is devoted to the prevention, recognition, and management of
business or industry, or public agencies. P, consent of department	athletic injuries relative to head, face, throat, abdomen, and thorax. The
program coordinator.	remainder of the class includes material in regards to evaluation and care
	of general illnesses and dermatological disorders common to athletics,
Dual Numbered Courses	understanding the role of pharmaceuticals in athletics—both legal and
AST 412-512 Hydraulic and Pneumatic Systems and	banned substances, drug testing procedures, special issues related to
Controls	women in athletics, and the athletic trainer's role in counseling athletes.
Principles of fluid power, hydraulic and pneumatic components and	P, 362.
system function. Component selection and off-the-shelf system design.	AT 364 Athletic Training Techniques IV3 S
Manual, microprocessor and electronic control of systems.	This course is designed to meet the guidelines and competencies required
AST 412A-512A Hydraulic and Pneumatic Systems and	by the National Athletic Trainers' Association in regards to emergency
Controls Lab	care issues related to athletic injuries. The course content of this class
AST 422-522 Environmental Control	meets the standards set by the Department of Transportation and the
in Structures2 Su (even years)	National Safety Council. Skills will include assessing an emergency
Study of heat and moisture balance, gases, dust, and odors. Selection and	situation, CPR, airway management, rescue breathing, care for a choking
design of fans, ducts, diffusers and efficient ventilation patterns.	person, taking and recording vital signs, techniques for working with
AST 422A-522A Environmental Control in Structures Lab0	athletic equipment, i.e., airway management with a football helmet, C-
AST 462-562 Advanced Irrigation	spine stabilization, applying cervical collars, and spine boarding
Mechanics & Practices	techniques. This course meets the first aid competencies required by the
Sprinkler, surface and trickle irrigation systems and equipment. Irrigation	NATA. P, permission.
scheduling, management, and economics. Water laws and irrigation	AT 371 Athletic Training Clinical Experience I2 F
program financing. Water quality and environmental impact of irrigation.	Clinical application of course content presented in AT 361. This course
AST 462A-562A Advanced Irrigation Mechanics & Practices Lab 0	will enable the student athletic trainer to achieve an appropriate level of
AST 482-582 Advanced Farm Engines	skill competency related to each area taught in AT 361 and according to
Operation, selection, care, adjustment, and new development of internal	the requirements established by the National Athletic Trainers
combustion engines as applied to farm power units.	Association. Graded pass/fail. P, Acceptance into the program.
AST 482A-582A Advanced Farm Engines Lab0	AT 372 Athletic Training Clinical Experience II2 S
·	Clinical application of course content presented in AT 362. This course
Graduate Courses	will enable the student athletic trainer to achieve an appropriate level of
·	skill competency related to athletic injury assessment and according to
AST 792 Special Problems1-3 FSSu	the requirements established by the National Athletic Trainers
AST 793 Special Topics1-4 FSSu	Association. Graded pass/fail. P, 371.
	AT 373 Athletic Training Clinical Experience III2 F
A ITD	Clinical application of course content presented in AT 474. This course
AT (Athletic Training)	will enable the student athletic trainer to achieve an appropriate level of
. ~	skill competency related to athletic rehabilitation according to the
Undergraduate Courses	requirements established by the National Athletic Trainers Association.
AT 164 Introduction to Athletic Training2 FS	Graded pass/fail. P, 372.
A basic introductory course designed to acquaint students interested in	AT 374 Athletic Training Clinical Experience IV2 S
athletic training with all aspects of the profession.	Clinical application of course content presented in AT 464. This course
AT 361 Athletic Training Techniques I3 F	will enable the student athletic trainer to achieve an appropriate level of
This course is the first of the intermediate athletic training courses	skill competency related to therapeutic modalities and according to the
designed to meet all of the guidelines and competencies required by the	requirements established by the National Athletic Trainers Association.
National Athletic Trainers' Association. These courses should be taken in	Graded pass/fail. P, acceptance into the program.
sequence. AT 361 includes: concepts and techniques relative to injury	AT 454 Athletic Injury Assessment3 F
assessment and management, pathology of tissue injury and repair,	This course is designed to have the student athletic trainers develop a
mechanisms of injury, management of blood borne pathogens/soft tissue	sound understanding of the assessment of athletic related injuries and
injuries/ fractures, athletic injuries related to environmental stress and	conditions. The course will incorporate anatomy of the various body
on/off field injuries/management related to the spine (including a posture	areas, the athletic related injuries or conditions which may occur, and
and neurological assessment). P, formally admitted to athletic training	evaluation techniques used to assess the body part involved.
program; permission.	AT 464 Therapeutic Modalities in Athletic Training2 S
	This course is designed to have the student develop a sound
•	understanding of the use of modalities in the treatment of the injured
,	6

athlete. The class will be taught through lectures and demonstrations and pertinent for the safe operation of aircraft in restricted visibility. Students provide for practical experience. completing this course will be ready to challenge the Federal Aviation Administration Commercial Pilot written and oral exams. P, 370; Geog AT 471 Fall Football Clinical Experience1 Su 337 or AE 353 also recommended. This course is designed to meet the clinical experience competencies Avia 372 Advanced Flight Operations.....1-8 FSSu required during fall football activity. Clinical applications include physical examinations; fitting and maintaining football protective Individual instruction in preparation for advanced Federal Aviation Administration certificates (Commercial, Flight Instructor, and Airline equipment; monitoring and management of environmental conditions; Transport Pilot) and ratings (Single-Engine, Multi-Engine, and stretching and conditioning; and the evaluation and care of acute athletic Instrument). Students will be expected to complete a minimum of 25 injuries. Graded pass/fail. P, senior status and consent. AT 474 Rehabilitation of Athletic Injuries2 F hours of flight training, as assigned, under the supervision of SDSU flight This course is designed to have the student develop a sound instructors for each credit hour the students has enrolled. Repetitive registration will be allowed for a total of 8 credit hours. Instructor consent understanding of the use of exercise in the rehabilitation of the injured is required for enrollment. Fees as required by the cost of aircraft athlete. The class will be taught through lectures and demonstrations and provide for practical experience. operation. AT 490 Senior Seminar in Athletic Training2 S This course is designed to be the culminating class for those students enrolled in the athletic training major. Students should have completed **BAdm** (Business Administration) most of the required coursework and be in their final year on campus. In **Undergraduate Courses** this course, students will discuss a variety of contemporary issues and problems confronting the athletic trainer; review the NATA guidelines BAdm 260 Production and Operations Management......3 and competencies; and examine the legal, medical, and ethical protocols A broad analytical "systems" viewpoint is used to develop competency in governing the athletic training profession. In addition, students will have management decision-making and problem solving in operations setting the opportunity to review previous coursework in preparation for the in various businesses and especially manufacturing. This course involves athletic training exit and NATA certification examinations. the study of the production end of business, where resources are transferred into goods and services, and the management of operations through effective planning, implementing, and monitoring for continuous Avia (Aviation Education) improvement. P, Math 113. Crosslisted with MNET 260. BAdm 310 Business Finance3 FS **Undergraduate Courses** Capital and credit needs of business firms; extending and using business Avia 270 Introduction to Aviation3 FS credit; analysis of financial statements; financial management; planning Aviation principles for the beginning aviator. Topics include and financing capital structure; market for and investing in debt and equity securities. P, Acct 210, 211, junior standing or consent. aerodynamics, basic aircraft systems, aircraft performance computations, BAdm 324 Operations Research4 FS weight and balance computations, meteorology, radio navigation and Selected quantitative tools and methods used in the decision making communication techniques, cross-country preparation, pilot physiology, process of business organizations. Linear programming, decision making and emergency operations. Students completing this course will be ready under uncertainty, simulation, inventory models, and queuing models. P, to challenge the Federal Aviation Administration Private Pilot written and Econ 301, Stat 281. oral exams. BAdm 334 Small Business Management3 F Avia 272 Introduction to Flight I2 FSSu Individual flight instruction leading to Federal Aviation Administration Fundamentals of forming and managing a successful small business Student Pilot Certification. Topics include aircraft preflight, weather enterprise. Includes initiation of new enterprise, financial and administrative control, store location, promotion, personnel, and finance. briefings, basic flight maneuvers, take-offs and landings, and basic flight regulations. Students must complete a minimum of 18 flight hours, as Market research or business plan term paper. BAdm 350 Legal Environment of Business and Contracts3 FS assigned, under the supervision of SDSU flight instructors to complete Survey of judicial system and process, legal aspects of criminal law, torts, this course. P, 270, instructor consent required. Fees as required by the contracts, landlord/tenant law and domestic relations. Emphasis is on cost of aircraft operation. Avia 273 Introduction to Flight II......3 South Dakota law. Individual flight instruction leading to Federal Aviation Administration BAdm 351 Business Law I3 F Legal rights and duties of parties to business transactions — sales Private Pilot Certification. Topics include cross-country flight and flight planning, night operations, lost and emergency procedures, basic security devices and insurance, partnerships, corporations, real property, instrument flight control, and basic Air Route Traffic Control and Airport estates and bankruptcy. P, 350. BAdm 360 Organization and Management3 FS Tower operations. Students must complete a minimum of 18 flight hours, Management, including planning, organizing, directing, controlling, and as assigned, under the supervision of SDSU flight instructors to complete coordinating. Other disciplines such as finance and marketing are this course. P, 272 or equivalent, instructor consent required. Fees as discussed as they apply to the basic functions. P, junior standing or required by the cost of aircraft operation. Avia 274 Introduction to Flight III1 FSSu BAdm 380 Personal Finance3 S Avia 275 Introduction to Flight IV1 FSSu Survey of individual investment opportunities, including common and Avia 370 Complex Aircraft Systems and Operations3 F Performance, flight characteristics, and the safe operation of complex and preferred stock and corporate bonds; auto, health and life insurance; high performance propeller driven aircraft. Students completing this home ownership; wills and estate planning. BAdm 416 Commercial Bank Management 3 S

course will be ready to challenge the Federal Aviation Administration

Commercial Pilot written and oral exams. P, 270; Phys 111 is also

Avia 371 Instrument Aircraft Operations3 S

Radio navigation principles and procedures, aircraft operations within the Air Route Traffic Control system, FAA regulations, and meteorology as

recommended.

Comprehensive introduction to the principles of commercial bank

financial management. It will cover contemporary financial institution

management issues as well as bank risk analysis, lending, investments, liquidity, and asset-liability management. P, 310, Econ 330 or AgEc 478.

RAdm 474 Dringiples of Salling	Dia 214 D.J
BAdm 474 Principles of Selling	Bio 311 Principles of Ecology
economy. Preparation, prospecting, presentation, handling objections,	communities; population interactions and evolution, community
and closing are examined in depth, with emphasis on "how to." Concepts	organization and succession, energy flow, biogeochemical cycles; human
from the behavioral sciences are explored to show their applications in	ecology. P, 101 or 151 and 3 hours bioscience.
sales interactions.	Bio 343 Cell Biology3 S
BAdm 482 Business Policy and Strategy3 FS	Cell structure and function with laboratory techniques of culturing and
Applications of Accounting, Finance, managerial concepts, quantitative	handling cells. P, 101 or 151, Chem 120.
techniques, and Business Law to management problem situations. Case	Bio 343A Cell Biology Lab0
study approach. P, 360, senior standing.	Bio 371 Genetics
BAdm 483 Seminar in Business Consulting3 F	Principles governing the nature, transmission and function of hereditary
Consulting program in which students, working under faculty guidance,	material with application to plants, animals, humans, and
assist businesses by researching and developing possible solutions to	microorganisms. P, 101 or 151.
specific problems, business start-up, and expansion. Junior/senior	Bio 372 Genetics Laboratory1 FS
standing.	Experiments with Drosophila and other organisms, illustrating
BAdm 493 Special Topics1-4	probability, meiosis, sex linkage, independent assortment, crossing over,
Organized by an instructor in consultation with his or her department	interference and biochemical genetics. To be taken concurrently with Bio
head and a group of students. A medium through which a specific topic	371, but not required for 371.
can be pursued. Normally experimental and may be a "one shot deal" for	Bio 373 Evolution3 S
a particular semester and the unique group of students. Maximum: 4	Provides an understanding of the processes which have brought about
credit hours per semester, 7 credit hours per degree.	long-term changes in living systems. Surveys evidences of plant and
	animal evolution, achievement in evolution theory and examines
Rio (Piala)	mechanisms responsible for genetic change. P, 101 or 151.
Bio (Biology)	Bio 383 Bioethics
Undergraduate Courses	Ethical, social and policy dilemmas in medicine and biology. P, 101 or 151. Crosslisted with Phil 383.
Bio 101 Biology Survey I3 FSSu	Bio 440 Restoration Ecology4 F (alternate years)
Study of the nature, diversity, and classification of life; ecology; cells and	Scientific principles involved in restoration of natural ecosystems. P, Bio
cell cycles, Mendelian and modern Genetics evolution and evolution	311 Prin Ecol or equiv. Crosslisted with La 440.
theory. Intended for those not majoring in Biology. Duplicate credit for	Bio 440A Restoration Ecology Lab0
101 and 151 not allowed.	Bio 475 Water Quality in Agriculture3 S (even years)
Bio 102 Biology Survey I Lab0	An integration of a wide variety of topics intended to give students an
Bio 103 Biology Survey II3 FSSu	introduction to the complex interactions between water supplies
Study of energetics, plant growth, development, and reproduction; animal	demands, and water quality. P, 101-102 or 151-152 and Chem 106-107,
structure and function. Intended for those not majoring in Biology.	or consent of instructor. Crosslisted with PS 475.
Duplicate credit for 103 and 153 not allowed. P, 101 or 151.	Bio 490 Senior Seminar1 FS
Bio 104 Biology Survey II Lab0	Presentation of topics based on biological literature in scientific journals.
Bio 105 Human Biology3 F	P, three years of coursework.
Presents key biological principles that are characteristic of living things	Bio 492 Biological Problems1-4 FSSu
in general and human beings in particular, focusing on the application of	Individually assigned investigative problems in biology. P, 101 or 151.
these principles to the concerns of contemporary life. Not intended for life science majors.	Bio 494-495-496 Cooperative Education/Internship/Field
Bio 151 General Biology I4 F	Experience1-12 FSSu
The introductory course for those majoring in Biology and Microbiology.	Student will have an opportunity to become involved in on-or off-campus activity which promises to contribute to his or her education. Acceptance
Presents the concepts of cell biology, evolution, heredity, molecular	based on availability of experiences and permission of departmental staff.
genetics and ecology.	based on availability of experiences and permission of departmental staff.
Bio 152 General Biology I Lab0	Dual Numbered Courses
Bio 153 General Biology II4 S	
A continuation of Bio 151, the introductory course for those majoring in	Bio 415-515 Mycology
Biology and Microbiology. Presents the concepts of animal and plant	biology, physiology, genetics, and ecology of fungal organisms;
structure and function, energetics, and reproduction. P, 151 or 101 with B	relationship of fungi to human affairs. Crosslisted with PS 415-515.
or higher.	Bio 415A-515A Mycology Lab1
Bio 154 General Biology II Lab0	Bio 425-525 Biology of Aging
Bio 200 Biological Diversity4 S	Physical, sensory, and physiological changes with age, aging of cells and
Investigate the five kingdoms comprising the living world focusing on	tissues. Cellular, developmental, endocrine and other theories of aging.
biological diversity, systematics, reproductive patterns, principles of	Pathologies of aging. P, physiology course.
structure and function, ecology and evolutionary relationships. P, 101 or	Bio 445-545 Histological Techniques3 S
151. Pio 200 A Diological Dimension I al.	Preparation and observation of animal and plant tissues for microscopic
Bio 200A Biological Diversity Lab	and photomicroscopic study. Emphasis will be given to various
Bio 290 Undergraduate Seminar1 F Student will explore the various career opportunities in the biological	techniques used in current research areas.
sciences and procedures for employment.	Bio 445A-545A Histological Techniques Lab0
Bio 292 Special Problems1-4 FSSu	Bio 453-553 Advanced Genetics3 F (even years)
Independent study in specialized area of the biological sciences.	Procedures in genetic studies as they relate to molecular and classical
Objectives, scope of work and plan of study specified by instructor and	genetic applications. P, 371-372. Crosslisted with PS 453-553.
student(s). P, 101 or 151 and consent of instructor and department.	

Bio 462-562 Molecular Biology I	Bot 305 Agrostology
Bio 793 Biological Research Problems1-3 FSSu BIST 601 Biology Topics for Educators1-12 FSSu	gymnosperms and angiosperms. The student will gain insight into unity from homeostasis and diversity through evolution of this group of plants.
BioS (Biological Sciences) BioS 790 Thesis	Graduate Courses Bot 705 Aquatic Plants
Undergraduate Courses Bot 201 General Botany	CA (Consumer Affairs) Undergraduate Courses CA 130 Coping Skills for Consumers

CA 291 Consumers and the Market	CA 487 Transition to the Professional World
consumer life cycle. Consumer education competencies and resources are analyzed, consumer materials and networks are evaluated. Educational strategies are developed as they relate to the wide variety of audiences	CEE (Civil & Environmental Engineering)
strategies are developed as they relate to the wide variety of audiences encountered in consumer affairs. Consumer issues are discussed as they relate to individuals, families, and the global community. CA 381 Social Skills in the Business Environment	Undergraduate Courses CEE 106 Elementary Surveying
Examination of consumer protection laws, regulations, and agencies at the federal and state levels. Analysis of the necessity for and effectiveness of consumer protection efforts. Examination of the role of business and the consumer in consumer protection.	CEE 311 Structural Materials Lab

CEE 327 Water Supply Engineering	CEE 465 Senior Design Project II
applications such as mechanics of unconsolidated materials, slope failures, subsidence, pollution, waste disposal, and exploration methods. P, 216. CEE 336A Engineering Geology Lab	CEE 494-495-496 Cooperative Education/Internship/ Field Experience
trusses for moving loads. P, EM 321. CEE 363 Highway and Traffic Engineering	Dual Numbered Courses CEE 411-511 Bituminous Materials
Systems for collecting waste water, waste water disposal and treatment processes, solid waste disposal. P, 327. CEE 423A Waste Water Engineering Lab	Properties of bituminous materials including their compatibility with various types of aggregates. Asphalt mixes are designed and tested. Standards tests are performed on bituminous materials with emphasis on test results. Asphalt surface evaluation techniques. P, 216. CEE 411A-511A Bituminous Materials Lab
Development of fundamental principles related to closed conduit flow, flow in open channels, open channel transitions and controls, introduction to wave mechanics, hydraulic structures. P, EM 331. CEE 446 Geotechnical Engineering	CEE 424-524 Industrial Waste Treatment
compressibility, stresses, embankments, foundations, soil compaction and stabilization, laboratory tests on fundamental soil properties. P, 216, 336, senior standing. CEE 446A Geotechnical Engineering Lab	Analysis of water and waste water samples, using environmental laboratory instrumentation. Design of treatment facility process instrumentation and controls. P, 423 or consent. CEE 427A-527A Environmental Engineering Instrumentation
Design of steel members subjected to tensile, compressive flexural, and combinations of forces. Member design. Elementary concepts of frame design. Design of simple bolted and welded connections. P, 353. CEE 455A Steel Design Lab	Lab
Principles of analysis and design of reinforced concrete structures based on strength design methods for ACI Code. Design of flexural members, columns and footings. P, 353. CEE 456A Concrete Theory and Design	CEE 428A-528A Solid Waste Engineering and Management Lab0 CEE 435-535 Water Resources Engineering
CEE 457 Indeterminate Structural Analysis	hydrology and administrative aspects of water resources planning. P, 433. CEE 436-536 Foundation Engineering
CEE 457A Indeterminate Structural Analysis Lab	CEE 436A-536A Foundation Engineering Lab
senior standing and consent.	

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CEE 447-547 Advanced Geotechnical Engineering3	CEE 762 Pavement Management and
Development of a fundamental understanding of engineering properties	Rehabilitation F (alternate years)
of soils and the factors controlling their magnitude and changes with time	CEE 762A Pavement Management and Rehabilitation Lab0
and environment. Development of why this knowledge is important and	CEE 765 Pavement Design3 S (alternate years)
how it can be used in the solution of geotechnical and geoenvironmental	CEE 769 Design of Steel and Concrete Bridges3 (alternate years)
problems.	CEE 770 Engineering Research or Design Paper1-2
CEE 452-552 Prestressed Concrete3	CEE 790 Thesis1-7 FSSu
	CEE 791 Thesis Sustaining0 FSSu
Theory and design of prestressed concrete including pre-tensioning and	CEE 792 Special Engineering Problems1-3 FS
post-tensioning. P, 456.	
CEE 459-559 Advanced Structural Mechanics 3 S (alternate years)	CEE 793 Special Topics1-3
Review of principal moments of inertia; relationship of plain stresses and	CEE 795 Engineering Research or Design Paper Sustaining0
strains; use of rosettes; shear center; unsymmetrical bending; theories of	CEE 797 Research1-9
failure; curved beams and closed rings; thick-walled cylinders; beams on	
continuous elastic support, miscellaneous topics in structural analysis. P,	
353.	Cham (Chamistry)
CEE 459A-559A Advanced Structural Mechanics Lab0	Chem (Chemistry)
CEE 472-572 Geosynthetics3F	Undergraduate Courses
Detailed study of the types of geosynthetic materials used in	· · · · · · · · · · · · · · · · · · ·
environmental, geotechnical, and transportation engineering as well as	Chem 100 World of Chemistry I4 F
have they are used and manufactured. Destingler amphasis will be placed	Introduction to chemistry in the home, garden, environment, world of art
how they are used and manufactured. Particular emphasis will be placed	and everyday living in a non-mathematical context designed specifically
on erosion control, landfill, transportation, drainage, tiltration and	for liberal arts majors with limited scientific training. Duplicate credit for
reinforcement applications (P, CEE 336).	100, 106, and 112 not allowed.
CEE 493-593 Special Topics1-3 FSSu	Chem 100A World of Chemistry I Lab0
P, consent.	Chem 102 World of Chemistry II4 S
	Continuation of 100. P, 100.
Caradanata Carragas	Chem 102A World of Chemistry II Lab0
Graduate Courses	Chem 106 Chemistry Survey4 FSSu
CEE 623 Advanced Sanitary Engineering (alternate years)	A one-semester introduction to chemistry. Not intended for those needing
CEE 625 Environmental Engineering Planning 3 S (alternate years)	
CEE 632 Advanced Foundation Engineering3 (alternate years)	extensive chemistry background. Duplicate credit for Chem 106 and 112
CEE 632A Advanced Foundation Engineering Lab0	not allowed.
CEE 633 Open Channel Hydraulics3 F (alternate years)	Chem 107 Chemistry Survey Lab0
CEE 634 Fluvial Hydraulics3 S (alternate years)	Chem 108 Organic and Biochemistry5 FSSu
CEE 639 Geotechnical Testing3 (alternate years)	A survey of the chemical principles important to biological systems. For
CEE 639A Geotechnical Testing Lab	students who do not plan to take additional chemistry. Not a prerequisite
CEE 654 Advanced Design of Steel Structures3 (alternate years)	for any 200 level and above course. Duplicate credit for Chem 108 and
CEE 656 Advanced Reinforced Concrete	120, 326 or 361 not allowed. P, 106.
	Chem 109 Organic and Biochemistry Lab0
Design	Chem 112 General Chemistry I4 FS
CEE 664 Highway Capacity Analysis3 S (alternate years)	Comprehensive coverage of general chemistry. Preferred for those
CEE 693 Special Topics1-3 FSSu	needing extensive background in chemistry. Duplicate credit for Chem
CEE 700-701 Seminar0-1	106 and 112 not allowed.
CEE 721 Environmental Engineering3 (alternate years)	Chem 113 General Chemistry I Lab0
CEE 722 Hazardous/Toxic Waste Disposal3 (alternate years)	
CEE 722A Hazardous/Toxic Waste Disposal Lab0	Chem 114 General Chemistry II3 or 4 FS
CEE 724 Land Treatment of Wastes	Continuation of 112. P, 112 or a B in 106.
CEE 724A Land Treatment of Wastes Lab0	Chem 115 General Chemistry II Lab0
CEE 725 Biological Principles of Environmental Engineering3	Chem 116 Experimental General Chemistry II1
CEE 725A Biological Principles of Environmental Engineering	The laboratory portion of Chem 114 for those who have completed 114
I ab	for 3 credits. P, 114 (3 credits).
CEE 726 Physical/Chemical Principles in Environmental	Chem 120 Elementary Organic Chemistry 3 or 4 FSSu
Engineering	Compounds of carbon with emphasis on those of interest to students of
COTE 704 A Division I/Changing I Pain sin less in Environmental	Agriculture, Family and Consumer Sciences. P, 106 or 112. Duplicate
CEE 726A Physical/Chemical Principles in Environmental	credit for Chem 108, 120, and 326 not allowed.
Engineering Lab0	Chem 121 Elementary Organic Chemistry Lab0
CEE 727 Water Treatment Plant Design3 F (alternate years)	Chem 122 Experimental Elementary Organic Chemistry1
CEE 727A Water Treatment Plant Design Lab0	The laboratory portion of Chem 120 for those who have completed 120
CEE 728 Waste Water Treatment Plant	- 7
Design3 S (alternate years)	for 3 credits. P, 120 (3 cr).
CEE 728A Waste Water Treatment Plant Design Lab0	Chem 232 Analytical Chemistry I4 FS
CEE 733 Advanced Water Resources	Fundamental principles and laboratory practice in gravimetric and
Engineering3 S (alternate years)	volumetric analysis; introduction to instrumental analysis. P, 114 (4
CEE 734 Surface Water Quality Modeling (alternate years)	credits).
CEE 737 Hydraulic Design3 F (alternate years)	Chem 233 Analytical Chemistry I Lab0
CEE 737 Hydraulic Design	Chem 326-328 Organic Chemistry I and II4 FS
CEE 730 A dropped Underviles Tab	Fundamentals of organic chemistry. P, 114 (4 credits). Duplicate credit
CEE 738A Advanced Hydraulics Lab	for Chem 120, 326 not allowed.
CEE 749 Structural Dynamics	Chem 327-329 Organic Chemistry Lab0
CEE 756 Reinforced Masonry Design (alternate years)	- Cherry of the Orbital Cherry of The Commission

CI 242 244 Physical Chamistan Lond II 3 5 FS	Chem 734 Analytical Spectroscopy3
Chem 342-344 Physical Chemistry I and II	Chem 736 Chromatography and Separations3
calculus.	Chem 738 Electroanalytical Chemistry3
Chem 342A-344A Physical Chemistry Lab0	Chem 740 Special Topics in Physical Chemistry1-6
Chem 352 Inorganic Chemistry4 F	Chem 741 Quantum Chemistry I3
Theoretical and periodic aspects of inorganic chemistry. P, 232.	Chem 742 Quantum Chemistry II3
Chem 352A Inorganic Chemistry Lab0	Chem 744 Chemical Thermodynamics3
Chem 361 Biochemistry4 FSSu	Chem 745 Statistical Thermodynamics
Introduction to biochemical processes and the study of compounds of	Chem 746 Atomic and Molecular Structure
biological interest. P, 120 (4 credits) or equivalent. Duplicate credit for	Chem 748 Chemical Kinetics
Chem 108 and 361 not allowed.	Chem 750 Special Topics in Inorganic Chemistry
Chem 361A Biochemistry Lab	Chem 752A Descriptive Inorganic Chemistry Lab0
Chem 380 Environmental Chemistry4 S Emphasis on the role of chemistry in understanding and solution of	Chem 753 Organometallic Chemistry3
environmental problems. P, 112, 114 (4 credits) or 106, 120 (4 credits).	Chem 754 Physical Methods of Inorganic Chemistry3
Chem 382 Techniques in Clinical Laboratory Technology3 S	Chem 760 Special Topics in Biochemistry1-6
Introduction to techniques used in the clinical laboratory including	Chem 764 Biochemistry I3
urinalysis, hematology and clinical chemistry.	Chem 766 Biochemistry II3
Chem 382A Techniques in Clinical Laboratory Technology Lab0	Chem 767 Biophysical Chemistry3
Chem 434 Instrumental Analysis4	Chem 768 Plant Biochemistry3
Theory and practice in instrumental analysis. P, 232, 328, 344, or consent.	Chem 769 Nutritional Biochemistry3
Chem 434A Instrumental Analysis Lab0	Chem 772-773 Seminar
Chem 461 Intermediate Biochemistry3 S	Chem 781 Bioinorganic Chemistry
Intermediate level study of biochemical processes of plants and animals,	Chem 782A Radioisotope Techniques Lab
emphasizing the integration and control of their metabolic processes. P,	Chem 790 Thesis1-7
361. Chem 492 Special Problems1-9 FSSu	Chem 791 Thesis Sustaining (M.S.)0
P, consent.	Chem 890 Dissertation (Ph.D.)1-12
Chem 493 Special Topics in Chemistry1-3	Chem 891 Dissertation Sustaining (Ph.D.)0
Advanced electives that may be used to complete the requirements of an	CHST 601 Chemistry Topics for Educators1-12 FSSu
undergraduate degree in chemistry; may be repeated any number of	· ·
times, but a maximum of 6 credits will be recognized as meeting degree	The following Physics courses may be used in the Chemistry graduate
requirements.	program. See complete descriptions under Department of Physics.
Chem 495 Internship1-4 FSSu	Phys 743 Statistical Mechanics2
Planned and supervised professional experience related to chemistry	Phys 775 Tensors & General Relativity3
which takes place outside the formal classroom with private business or	Phys 779 Group Theory in Quantum Mechanics3
industry, or public agencies. P, consent of department program	
coordinator.	CIIDD (C. II III D
Dual Numbered Courses	CHRD (Counseling and Human Resource
Chem 416-516 Chemical Communication Skills2 S	Development)
Searching chemical literature by traditional and computer assisted)
methods; techniques of written and oral communication of chemical	Dual Numbered Courses
information.	CHRD 430-530 Gender Issues in Counseling3
into mattori	CHRD 471-571 Gerontology Issues in Counseling3
Graduate Courses	
(if not listed, see department for schedule of offerings)	Graduate Courses
Chem 622 Advanced Organic Chemistry I3 F	CHRD 601 Introduction to Counseling3 F
Chem 632 Advanced Analytical Chemistry3 S	CHRD 603 School Counseling3 F
Chem 642 Advanced Physical Chemistry3 S	CHRD 610 Developmental Issues in Counseling3 FSSu
Chem 654 Advanced Inorganic Chemistry3 F	CHRD 651 Mental Health and Personality Development3
Chem 662 Principles of Biochemistry3 F	CHRD 661 Theories of Counseling3 FS
Chem 691 Special Problems1-4 FS	CHRD 681 Workshop1-3 FSSu
Chem 720 Special Topics in Organic Chemistry1-6	CHRD 682 Seminar1-3 FSSu
Chem 722 Synthesis of Natural Products	CHRD 690 Special Topics1-3 FSSu CHRD 706 Counseling the Victim3 SSu (even years)
Chem 724 Structural Determination of Organic Compounds3 Chem 724A Structural Determination of Organic Compounds	CHRD 713 Administration and Management of Mental
Lab0	Health Organizations3 S
Chem 725 Polymer Chemistry4	CHRD 716 Human Resource Management in Business and
Chem 725A Polymer Chemistry Lab0	Industry3 S
Chem 726 Advanced Organic Chemistry II3	CHRD 722 Administration and Management of School
Chem 728 Bioorganic Chemistry3	Counseling Programs3 S
Chem 730 Special Topics in Analytical Chemistry1-6	
	CHRD 723 Counseling the Family3 F
Chem 732 Analytical Ag and Environmental Chemistry4 Chem 732A Analytical Ag and Environmental Chemistry Lab0	CHRD 723 Counseling the Family

CHRD 755 Clinical Diagnosis and Treatment Planning3 F	CJus 336 Juvenile Justice3 (on demand)
CHRD 756 Counseling the Addictive Client	Historical, philosophical, and legal examination of the separate system
CHRD 766 Group Counseling3 FSSu	created in our society to handle juvenile justice in this country. Traces the
CHRD 770 Student Development: Theory and Practice3 F	development of the juvenile justice system in the country and examines
CHRD 771 Student Personnel Services3 S	the various stages of the juvenile justice process and critical issues
CHRD 772 Administration and Leadership in Student Affairs 3 S	currently facing the system.
CHRD 786 Pre-Practicum3	· · · · · · · · · · · · · · · · · · ·
CHRD 787 Counseling Practicum3-5 FSSu	Dual Numbered Courses
CHRD 788 Group Counseling Practicum	CJus 416-516 Problems in Criminal Justice3
CHRD 789 Internship	An examination of selected contemporary problems in the administration
CHRD 791 Thesis Sustaining	of criminal justice. Topic will change each semester. May be repeated for
CHRD 792 Research Problems in	credit. Course descriptions available prior to term course is offered.
Counseling and Guidance2 FSSu	
CHRD 793 Problems1-3 FSSu	
	CM (Construction Management)
	Undergraduate Courses
CJus (Criminal Justice)	CM 101 Introduction to Construction1
Undergraduate Courses	Students are introduced to the concept of being a professional and the
CJus 201 Introduction to Criminal Justice3 FS	ethics required of a professional person with influence on the
An overview of the criminal justice system focusing primarily on the	construction industry. A breadth of ideas are presented to the students
institutions involved in the operations of the criminal law including the	which helps them in their career choice.
police, the attorney in the legal system, the bail system, the trial, the	CM 200 CM Off-Campus Orientation0 FSSu
guilty pleas, sentencing, and corrections. A limited portion of the course	CM enrollment sustaining.
is devoted to an analysis of the purposes of the criminal law in terms of	CM 205 Project Visiting Construction Sites
ascertaining why we make certain kinds of conduct criminal in our	Field trips to local construction sites. P, sophomore standing. This course meets the first eight weeks of the semester.
society. (Recommend taking CJus 201 prior to other CJus courses.)	CM 210 Construction Surveying4
CJus 203 Police and Community Relations	Elements of construction surveying including topographic surveys and
Examination of the historical development of policing; the role and function of policing, the process of policing; administration and	mapping elements of photogrammetry, land and construction surveys,
evaluation of the police organization; police-community relations; the	principles of curve and earth work calculations and other advanced topics
organization and control of policing; other related issues.	in surveying. P, Math 113 or 120, and GE 121.
CJus 331 Civil Rights and Liberties3 S	CM 210A Construction Surveying Lab
Individual First Amendment guarantees, constitutional right of the	CM 216 Construction Materials
accused in the criminal process and equal protection of the law as	concurrent enrollment in GE 241 or MNET 241.
interpreted through U.S. Supreme Court decisions. P, PolS 100 (or 101)	CM 216A Construction Materials Lab0
or consent. Crosslisted with PolS 331. CJus 333 Fundamentals of Criminal	CM 232 Plans, Specifications, and Blueprint Reading3 S
Procedure3 (on demand)	Introduction to the basic concepts of reading construction plans,
Constitutional analysis of the criminal procedure that focuses primarily	specifications, and blueprints. P, GE 121.
on the Fourth, Fifth, and Sixth Amendments; the right to be free from	CM 294 Cooperative Education/Internship/Field
unreasonable search and seizure, the privilege against self-incrimination,	Experience1-3
and the right to counsel. The course examines the need to protect the	Supervised work experience with a business, industrial firm, or public
public and enhance law enforcement efficiency and the need to protect	agency. The work experience must relate to the student's program of
individual defendants from abuse at the hands of the state.	study and be performed under institutional and discipline guidelines governing this type of educational experience. P, departmental approval.
CJus 334 Criminal Law	Sophomore standing or higher.
Examination of the substantive criminal law and a unique opportunity to	CM 320 Construction Soil Materials and Hydrology3
explore the larger issues concerning the relationship of the individual to the state. Includes analysis of the following topics: the nature of criminal	Introduces updated information developed in research and practices for
liability and the functions and justifications for criminal punishment,	application to construction operations. An overview of the nature of soil
legal limitations upon criminalization, the general principles of criminal	materials and their engineering properties is coupled with simple, direct
liability such as the "act" and "state of mind" requirements, specific	examples of analysis to show how common construction methods and
offenses against persons and property, and law of attempt, the law of	operation may be controlled or influenced. P, 333.
complicity, and conspiracy.	CM 320A Construction Soil Materials and Hydrology Lab0 CM 321 Strength of Materials
CJus 335 Criminal Prosecution and Defense3	Applied mechanics with analytical and graphical application of physical
Behavioral and legal analysis of the stages and procedures of a criminal	principles to engineering related problems. Applications of: stress and
case including initial appearance, bail, preliminary hearing, grand jury,	strain relationships; Mohr's circle; centric, torsional, and flexural
arraignment, suppression hearings, trial and sentencing. Emphasis is on bail reform, plea bargaining, screening, diversion, speedy trial, insanity	loadings; and deflections of beams. P, GE 241 or MNET 241, Math 222
defense, discovery, and the role of the defense attorney, prosecutor, and	and Phys 113.
judge. Included is an examination of the court system as a social	CM 321A Strength of Materials Lab0
institution of human actors who exercise discretion within and without	CM 332 Building Systems in Construction3
the boundaries of the law.	The study of the structural, electrical, and mechanical building systems
	and their components. Emphasis is placed upon the understanding of: 1)
	the fundamental vocabulary of construction in both verbal and graphic

	•
terms, 2) the relationship of the individual building systems to the	CSc (Computer Science)
functional value of the total building. P, junior standing or instructor approval.	Undergraduate Courses
CM 332A Building Systems in Construction Lab0	CSc 130 BASIC Programming3
CM 333 Practical Hydrology/Hydraulics3	CSC 130 BASIC Programming
The principles of precipitation, run-off, stream flow and ground water	The fundamental concepts of the Computer and the Computer language
The principles of precipitation, full-on, stream flow and ground water	BASIC will be introduced. That is, decision statements, string
flow will be covered in the hydrology segment of this course. Both closed	manipulation, loops, flow of control, subroutines, user defined functions,
and open channel flow, hydraulic structures, fluid mechanics, flow	random generators, sequential and random access files will be topics
measurements, and pumps will be covered in the hydraulics segment of	covered in the course. P, 1 year of high school math.
this course. P, junior standing or instructor approval. P, GE 223.	CSc 150 Computer Science I3 FSSu
CM 352 Cost Estimating Techniques3 S	This is an introductory course on the topics of structured programming.
To gain knowledge of estimating the cost of projects to be constructed.	Topics covered will be top-down design, step-wise refinement,
Interpretation of plans and specifications for the purpose of preparing a	procedures, functions, decision statements, loops, one dimensional
bid. Topics include: approximate and detailed estimates of materials,	arrays, strings, and the use of external files. All topics when covered will
equipment and labor costs, lump sum and unit cost estimates, overhead,	stress good problem solving, documentation, debugging and testing. P, 2
profit, and production rates. P, 232, 332, CEE 211.	years high school algebra or consent.
CM 353 Structural Theory for Technologists3	CSc 210 Introductory SAS Programming1 FS
Reactions, internal forces and use of influence lines. P, 321.	An overview of SAS Programming with an emphasis on getting data into
CM 374 Construction Method and Equipment3	data sets, manipulating the data sets and using some of the more simple
Detailed study of the various methods, equipment and techniques of	procedures SAS already employs to modify and display data.
construction. Interaction between contractor, design engineer, inspector	CSc 213 Introduction to Programming with FORTRAN3 FS
and owner will be emphasized. P, junior standing or consent.	FORTRAN programming for engineering and computer science majors.
CM 400 Risk Management and Construction Safety3 F	P, 2 years of high school algebra or equivalent of Math 113.
Causes and effects of risk loss in construction and methods of minimizing	CSc 218 Introduction to C/C++/UNIX for Engineers3 FSSu
risk with effective management strategies. What is construction safety	This is an introductory course on the topics of structured programming
and why we need to effectively manage it. P, senior standing.	using C/C++. Topics covered will be top-down design, step-wise
CM 410 Construction Supervision3	refinement, functions, and decisions statements, loops, arrays, pointers,
This course introduces the student to the basic supervisory concepts,	dynamic allocation of memory, use of external files, character strings,
practices and skills to improve construction supervision. The student will	macros, introduction to objects and structures. P, two years of high school
develop leadership skills required to be an effective leader. P, senior	algebra or equivalent of Math 113.
standing.	CSc 241 Computer Logic3 F
CM 443 Construction Planning and Scheduling3	An introduction to computer operating principles, information storage
Planning and scheduling construction projects. Both manual methods and	and logic gates. Boolean algebra and other methods of simplifying
computer programs will be used to schedule activities, control cost and	boolean functions are covered to provide an elementary understanding of
manage resources. P, 352.	computer logic analysis and design, suitable for a student at the
CM 452 Cost Estimating II2	sophomore level. P, 250 or 213 and Math 113.
A project oriented course where a bid is performed on a local project	CSc 250 Computer Science II3 FS
including site visits, take off, computerized estimates and the presentation	The topics in this course will be introduced as needed in the context of
of the bid. P. 352	one or more projects involving larger programs. Structured programming
CM 473 Construction Management3	techniques will be utilized with a strong emphasis toward good
Construction management, payroll, labor relations, company structure,	programming style, expression and documentation. The course will
and operating characteristics. P, senior standing or consent.	extend the concepts of stepwise refinement, top-down programming,
CM 475 Engineering Administration3	debugging, testing, string processing, arrays, searching, sorting and
Law of contracts, agency, and other legal aspects of engineering.	recursion. The concepts of stacks, queues, linked lists and linked
Preparation of specifications. Economic aspects of engineering. P, senior	
standing. Crosslisted with CEE 475.	allocation will be introduced. P, 150. CSc 285 Data Structures3 F S
CM 492 Special Problems1-3 FSSu	A more advanced study of such topics as strings, arrays, linked lists,
CM 493 Special Topics1-3 FSSu	A more advanced study of such topics as strings, arrays, finded fists,
CM 494 Cooperative Education/Internship/Field	stacks, queues, trees, graphs, search and sorting. Other topics covered
Civi 494 Cooperative Education/Internsinp/Field	will be introductory algorithm analysis, design and comparison of
Experience	different structures and algorithms. P, 250.
Supervised work experience with a business, industrial firm, or public	CSc 290 Programming Languages3 S
agency. The work experience must relate to the student's program of	A systematic approach to the study of programming languages, their data
study and be performed under institutional and discipline guidelines	and their behavior at execution time. Methods for specifications of syntax
governing this type of educational experience. P, departmental approval.	and semantics. Global properties and algorithmic languages including the
Sophomore standing or higher.	scope of declarations, grouping of statements, binding time storage
	allocation. P, 285.
	CSc 303 Introduction to Ethical Issues in Computer Science2 S
	This course will cover the code of ethics adopted by the major computer
	science societies and the consequences of violating the code. Laws
•	affecting computer and information processing as well as the varied
	interpretations of those laws will be covered. P, junior status.

CSc 312 Advanced Microcomputer Applications3 FSSu	accurate, reliable, maintainable and dependable software will be studied.
Covers advanced topics of a word processor, spreadsheet, graphics and	P, 285.
database manager from an individual package point of view as well as	CSc 480 Methods for Teaching Computer Science3 FS
from an integrated package point of view. Macros, a fourth generation	The principles, methods and theories in teaching computer science
language, file transfer between packages and communications will also	subjects to secondary school students will be studied. P, 285.
be covered.	CSc 484 Database Management Systems3 S
CSc 314 Assembly Language3 F	Introduction to the fundamental concepts of database systems. The
ASSEMBLY language programming, organization and operating	relational, hierarchical, and network approaches. The underlying design
principles of the IBM computer, and others. For students seriously	of a database system and the characteristics of widely used database
interested in computers or computer programming. P, 250 or 213.	packages. Emphasis on project using a database package, P, 285.
CSc 316 PL/1 Programming3	
Introduction to PL/1 programming. Includes scientific and business	CSc 494-495-496 Cooperative Education/Internship/Field
	Experience1-6
oriented programming applications, data structures, structured	Planned and supervised professional experience related to computer
programming and file processing. P, 150 or 213.	science which takes place outside the formal classroom with private
CSc 318 Object Oriented Programming in C++3 FS	business or industry or public agencies. P, consent of department head.
The study of object oriented methodologies using C++ in a UNIX	
environment. Advanced data structures, I/O and file management will be	Dual Numbered Courses
implemented using polymorphism, inheritance and encapsulation. P, 285.	CSc 472-572 Artificial Intelligence3 Su
CSc 325 Management Information Systems3	Introduction to ideas, issues and applications of Artificial Intelligence.
Introduction to application software development and design methods.	Knowledge representation, problem solving, search, inference
Data base and management information systems are also presented. P,	techniques, theorem proving. Expert systems. Artificial intelligence
312.	programming languages. P, 290.
CSc 328 Introduction to Automata Theory3 F	CSc 474-574 Computer Networks3 S
Turing machines, computational functions, unsolvability of the halting	Analysis of current and future computer networks with emphasis on the
problem, recursive functions. Finite state models, equivalence,	OSI model. Local and wide area networks. TCP/IP, SNA, token ring,
minimization, properties, decision questions, characterizations. Regular	ethernet and other common networks will be covered. Protocol and
expressions. Survey of other automata. P, 250 and Math 253 and 345.	interfaces within and across networks including the OSI layers, routers,
CSc 330 COBOL Programming3 F	bridges and gateway. P, 285, Math 381 or Stat 341.
An introduction to COBOL Programming. The topics of structured	CSc 476-576 Computer Graphics3 F
programming style, data structures, file processing concepts and	Principles of computer graphics. A study of the algorithms used to
techniques both sequential and random organization, and documentation	generate raster and vector graphics. P, 285, Math 215 and 224.
are presented. Programming problems are from typical business	CSc 493-593 Special Topics in Computer Science1-3
applications. P, 213 or 150.	Individualized problems determined by mutual agreement between
CSc 331 Advanced COBOL Programming3 S	instructor and student. Programming language optional. P, consent of
Advanced programming features of the COBOL Language. Topics	
include string manipulation, multi-dimensional arrays, subprograms, file	department head.
processing concepts utilizing sequential, random and dynamic access to	Cuadwata Caureaa
indexed files with primary and alternate keys. Programming problems	Graduate Courses
deal with transaction processing in typical business applications. P, 330.	CSc 630 Principles of Data Base System Design
CSc 354 Introduction to Systems Programming3 F	CSc 643 System Analysis and Design
The study of macros, subroutines, subroutine linkage, conditional	
assembly, input-output, interrupt processing, assemblers, loaders and	CSc 705 Design and Analysis of Computer Algorithms3 S
linkers. P, 285 and 314.	CSc 710 Structure and Design of Programming Languages3 F
CSc 410 Programming Using SAS3 FS	CSc 720 Theory of Computation3 S
The Base SAS System will be covered as it applies to information storage	CSc 740 Management Information Systems3
and retrieval; data input, modification, and programming; report writing,	CSc 750 Recent Advances in Parallel Processing3
descriptive and simple statistics and file handling. Additional SAS	CSc 770 Software Engineering Management3 F
packages will be explored dealing with SAS/FSP (interactive facility for	CSc 790 Thesis1-7
data entry, editing, and retrieval), SAS/ASSIST (menu-driven, task-	CSc 791 Thesis Sustaining 0
oriented interface), and SAS/Graph (information and presentation	CSc 792 Research Report/Design Paper1-2
graphics).	CSc 793 Special Topics in Computer Science1-2
CSc 426 Computer Architecture and Organization3 S	CSc 794 Special Problems in Computer Science1-3 (max 6)
Elementary computer architecture, gates and digital logic, register	CSc 795 Computer Science Research or Design Paper Sustaining 0
transfer, microprocessors and micro operations, computer arithmetic and	CSc 797 Research1-9 Repeatable P/F
propagate studies of existing systems D 241	
processor studies of existing systems. P, 241.	
CSc 428 Compiler Construction	
Structure of algorithmic, conversational, list processing and string	
manipulation languages. Concepts and facilities of programming	
languages; structure of compilers, introduction to formal languages and	
parsing. P, 285 and 328. CSc 456 Operating Systems3 F	
Operating systems structure; memory process and I/O management;	

285 and 314 and Stat 341 or Math 381.

Operating systems structure; memory, process and I/O management; concurrent processes and case studies of existing operating systems. P,

CScA (Computer Science Applications)

The following courses, which all carry the CScA prefix, can be applied to the Certificate Program in Microcomputer Applications offered through the Capital University Center.

CScA 100 Keyboarding/Introduction to Computers1-3 FSSu

An introductory course emphasizing the development of basic keyboarding skills. Course content includes experience in building keyboarding skills, computer terms, functions of the different keys, entering and printing material, and introduction to several types of software programs.

CScA 120 Introduction to Microsoft Windows1 FSSu

Basic information needed for effective computer use is presented. Course content includes: working with menus, directories and subdirectories, creating, naming, deleting and batch files. Techniques for working with the hard disk are included. P, 100 or permission of instructor.

CScA 142 Introduction to Microcomputer Software

CScA 242 Word Processing Applications2 FSSu

An in-depth study of a word processing software package such as DisplayWrite, WordStar, WordPerfect, etc., will be presented. Microcomputers will be utilized. P, 100, 120, 142, or permission of instructor.

CScA 243 Spreadsheet Applications3 FSSu

An explanation of graphic capabilities, the spreadsheet commands and the macro command language. The course includes an overall look at worksheet organization, dates and some frequently used functions. P, 100, 120, 142, or permission of instructor.

CScA 244 Database Applications3 FSSu

A presentation of information necessary to design an application, create a structure and build a database. Topics include: global alterations and deletions, labels and reports, statistics commands and memory variables, indexing, searching, automation, writing menus, screen formatting and relating databases. P, 100, 120, 142, or permission of instructor.

CScA 263 Advanced Topics in Microcomputer

Applications1-3 FSSu

Courses on such topics as desktop publishing, networking, and advanced software applications in word processing, database, spreadsheet and graphics, or programming microcomputers. Microcomputers will be used. P, permission of instructor.

CScA 264 Integrated Software3 FSSu

A tightly integrated software program that offers a word processor, a database manager, data communications and a spreadsheet with charting. P. 100, 120, 142, or permission of instructor.

CScA 265 Artificial Intelligence Integrated Software

Packages3 FSSu

A data filing program that combines word processing, report generation, and artificial intelligence in a tightly integrated package. Content includes terminology, structures, design concepts, and automation. P, 100, 120, 142, or permission of instructor.

CTE (Career and Technical Education)

Undergraduate Courses

CTE 105 Principles of Career and Technical Education.....1-3

A study of career and technical education terminology, service areas, instructional programs and basic principles of vocational technical education.

CTE 190 Technical Specialty:.....1-32

(Name of the technical program.) Granted to students who have successfully completed an approved program from a vocational technical institute or school.

CTE 201 Mentorship/Practicum I2 F (alternate years)

This course is the first class in a two-year mentorship/practicum program designed for new faculty entering secondary and post-secondary education. Course content will focus on teaching and learning, philosophy, curriculum development, assessment and evaluation, program planning and management, and individual and organizational development.

CTE 202 Mentorship/Practicum II2 S (alternate years)

This course is the second class in a two-year mentorship/practicum program designed for new faculty entering secondary and post-secondary education. Course content will focus on teaching and learning, philosophy, curriculum development, assessment and evaluation, program planning and management, and individual and organizational development, but at higher cognitive, affective, and psychomotor levels than CTE 201.

CTE 208 Occupational Internship I1-3

Coordinated work experience in an occupation related to a specific vocational education content area. Prior application is required. P, Permission of Instructor.

CTE 251 Occupational Analysis.....1-3

An analysis breakdown of a trade or occupation to determine units for instruction.

Introduction to effective instructional practices and the roles of the vocational educator in competency-based vocational education: agriculture or family and consumer sciences. Observation and field experience in middle school and/or high school vocational classroom.

CTE 301 Mentorship/Practicum III......2 F (alternate years)

This class is the third class in a two-year mentorship/practicum program designed for new faculty in their second year in secondary and post-secondary education. Course content will focus on teaching and learning, philosophy, curriculum development, assessment and evaluation, program planning and management, and individual and organizational development, but at higher cognitive, affective, and psychomotor levels than CTE 201 and 202. Emphasis will be placed on developing leadership skills and abilities in the education profession.

CTE 302 Mentorship/Practicum IV......2 S (alternate years)

This course is the fourth class in a two-year mentorship/practicum program designed for new faculty in their second year in secondary and post-secondary education. Course content will focus on teaching and learning, philosophy, curriculum development, assessment and evaluation, program planning and management, and individual and organizational development, but at higher cognitive, affective, and psychomotor levels than CTE 201, 202 and 301. Emphasis will be placed on developing leadership skills and abilities in the education profession.

CTE 308 Occupational Internship II......1-3

Coordinated work experience in an occupation related to a specific vocational education content area. Coordinated plan must build upon CTE 208 and substantiate a progressive educational experience. Prior application is required. Prerequisite: CTE 208 and prior approval of instructor.

CTE 311 Career and Technical Adult Education.....1-3

Objectives, principles, methods and practices to be used in the teaching of adult classes. Emphasis will be placed upon classes for retraining and upgrading adults in skilled or technical occupations.

CTE 312 Technical Education1-3

Technical education programs are studied in regard to their development, curriculum content, equipment, and staff requirements.

CTE 313 Organization and Coordinating Cooperative	CTE 476 Seminar in CTE2-
Educational Programs3	Discussion and research concerning selected problems in vocations
The development of an effective cooperative relationship between school	technical teaching and in industry.
based coordinator and the business/industrial sponsor, the selection,	CTE 477 Job Analysis and Employee Evaluation
orientation and training of sponsors; reporting and record keeping; the	Analyzing jobs and evaluating employee performance for purposes of
evaluation and selection of students; and program evaluation.	training, promotion, salary adjustments, and establishing hiring criteria
CTE 314 The Special Needs Learner3	CTE 488 Student Teaching
Introduction to vocational education for learners with special needs.	Full time off-campus supervised teaching in a secondary or pos-
Historical and current issues and trends, including review of existing	secondary Vocational Technical setting for 10 weeks. Student teachin
programs.	fee assessed.
CTE 352 Instructional Resources Development2	
Study of instructional materials, sources and application; emphasis on	D-1M
principles for making resources useful to CTE teachers. Construction and	Dual Numbered Courses
application of materials required.	CTE 419-519 Methods of Teaching2-3
CTE 371 Laboratory Organization and Management1-3	This course will feature lesson presentation and methods of deliverin
The basic elements of organizing and managing a vocational program,	instruction in vocational technical education. The course is designed for
the selection of equipment, faculty development, legal responsibilities of	individuals who are presently teaching in the vocational technical
laboratory instructors, inventory, storage control and safety.	education field. Content builds upon existing knowledge of the program
CTE 380 Technical Industrial Training	participants in order to increase comprehension of the field of vocational
(Registration is initiated by submitting CTE Form No. 149 to the	technical education. Instructional techniques appropriate for vocational
Coordinator of Career and Technical Teacher Education.)	technical education are developed based on models identified i
Manufacturers, industries, and service firms offer many special technical	competency-based or performance-based education. Special emphasis i
courses that are available to vocational trade, industrial and technical	placed upon teaching methods which coexist with a performance-base
	philosophy. Participants are actively involved in current teachin
instructors or prospective instructors. Some of these courses are suitable	assignments which creates an enormous opportunity for reflection an
for college credit, and upon approval credit may be granted. The	debate.
following guidelines are used to award such credit: 1. The student must	CTE 420-520 Entrepreneurship in Career and Technical
submit CTE Form No. 149 to receive approval for registration. 2. The	Education
student must make all the necessary arrangements with the industrial firm	This course is designed to help educators in all areas of vocational
offering the industrial training session. 3. Credit is awarded on the basis	education to incorporate basic concepts of entrepreneurship into the
of one-half credit for twenty hours of attendance.	curriculum. Topics include: small business plans, governmen
CTE 405 Philosophy of Career and Technical Education 2 FS	regulations, site locations, record keeping, financing, lega
Overview of vocational-technical and practical arts education, its place in	considerations, business promotions, managing human resources, sma
the community and school; organization and characteristics of	business contributions to the economy and economic development
instructional programs at secondary, post-secondary and adult levels in	educational resources for entrepreneurship, placement of th
agriculture, family and consumer sciences education, business and office,	entrepreneurship concept in vocational education programs and review of
industrial, health, and distributive education; career education;	basic concepts related to entrepreneurship such as business ownershi
legislation; and current trends and issues. For prospective teachers and	
guidance personnel. P, sophomore in education.	options and entrepreneur characteristics.
CTE 408 Occupational Internships III1-3	CTE 425-525 Development of Career and Technical Education
Coordinated work experience in an occupation related to a specific	Thought & Practice
vocational education content area. Coordinated plan must build upon	Philosophy, origins, and development of vocational, technical an
CTE 308 and substantiate a progressive educational experience. Prior	practical arts, education programs at adult, postsecondary, secondary, and
application is required. P, 308 and prior approval of instructor.	pre-vocational levels. Current and emerging principles, practices, an
CTE 438 Industrial Safety2	issues are stressed.
Industrial accident prevention considering the nature and extent of the	CTE 430-530 Cooperative Education Coordination
accident problem. Emphasis upon the development of a safety program	Techniques 3 FSu
for instructional programs and industrial management.	This course emphasizes the organization of cooperative work experience
CTE 440 Career and Technical Curriculum3	in vocational education programs: agriculture, marketing education
A development process of selection, organization and management of	health occupations, family consumer sciences education, busines
instructional content and supplemental materials; development of	education, and trade and industrial. Emphasizes strategies and technique
objectives; the integration of teaching/learning strategies;	for coordinating classroom instruction with on-the-job work experience
implementation of evaluation measures.	Topics include: program organization, coordinator responsibilities
CTE 457 Instructional Technology2	student selection, placement, advisory councils, public relations, training
Visual aids used in vocational and technical education and their	stations, training plans, legal aspects, and program and studen
relationship to the various occupational areas.	evaluation.
CTE 472 Public Relations and Advisory Committee1-3	CTE 440-540 Curriculum Design in Career and
Techniques and media for communicating with the public information on	Technical Education 3 FSu
different types of advisory committees used in vocational technical	This course addresses principles in developing vocational education
education and industrial firms.	curriculum research, development, implementation, and evaluation at th
CTE 474 Industrial Conference Leading1-3	secondary, postsecondary, and adult levels. Concepts include
Methods, procedures and techniques utilized by the vocational technical	coordination and organization of vocational education curriculum
	curriculum design models (including competency-based education and
educator in arranging and conducting conferences with industrial	applied academics); trends in state and national programs; long-rang
personnel. CTE 475 Vecetional Youth Organizations.	planning; articulation between secondary, postsecondary, and 4-year
CTE 475 Vocational Youth Organizations1-3	programs.
Methods of establishing organizations at the local level.	

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CTE 473-573 Special Problems1-4	DCom 212 Language Development
Directed reading and research in selected individual topics.	Emphasis on the acquisition and development of language, verbal and
CTE 490-590 Special Topics 1-3	non-verbal, as children learn to communicate effectively by selecting the
Advanced courses taught on demand covering such topics as computer	most appropriate communication strategies.
applications, state and federal rules and regulations, new curriculum	
development, etc.	
	DS (Dairy Science)
Caradarata Carangag	
Graduate Courses	Undergraduate Courses
CTE 700 Technology in Career and Technical Education	DS 130 Introduction to Dairy Science3 FS
CTE 731 Administration & Supervision of Career and Technical	Essentials of successful dairy farm operation, production testing, feeding,
Education	and management of dairy herd. Composition of milk; testing of milk for
CTE 743 Special Topics1-3	milk fat, milk solids and quality; and an examination of nutritive value of
CTE 751 Curriculum in Family Consumer Sciences Education 2	dairy products.
Crosslisted with FCSE 751.	DS 130A Introduction to Dairy Science Lab0
CTE 761 Evaluation in Family Consumer Sciences2	DS 202 Dairy Products Judging1 S
Crosslisted with FCS 761.	Quality of milk, cheddar, cheese, ice cream, and cottage cheese.
CTE 776 Curriculum in Agricultural Education2	DS 212 Dairy Cattle Evaluation
Crosslisted with AgEd 776.	Fundamental aspects of evaluation of dairy cattle for type; type
CTE 782 Seminar 1-3	classification of dairy cattle.
CTE 789 Graduate Internship 1-3	DS 231 Dairy Foods3 F
CTE 792 Research Problems 2	Survey of the dairy processing industry. Principles of processing and
CTE 793 Problems 1-3	manufacturing dairy foods including quality standards and nutritive
	quality. For non-dairy manufacturing majors only.
	DS 301 Dairy Microbiology3 S (odd years)
Danc (Dance Education)	Quality control problems during the production and processing of fluid
Dance Education)	milk for human use, including role of regulatory agencies and quality
Undergraduate Courses	standards. P, Micr 231.
Danc 130 Dance Fundamentals1 FS	DS 301A Dairy Microbiology Lab0
Basic skills course required of all physical education and public	DS 311 Dairy Cattle Judging1 F
recreation majors. Includes analysis, skill development, and leadership of	DS 311 Dairy Cattle Judging
round, folk, square and social dances, traditional and contemporary.	Judging major breeds of dairy cattle. Type classification. May include
Danc 240 Multicultural Dance Activities1 S	participation in regional dairy cattle or national collegiate cattle judging
Folk dances from around the world, including cultural background,	contests. Maximum of two credits. P, 212.
costumes, skill differences for elementary, middle and high school, or	DS 313 Technical Control of Dairy Products I
	Fundamental properties of milk and its products as they affect testing.
adults. Danc 241 Creative Movement for Children2 F	Common laboratory tests for procurement and grading milk.
Theory and laboratory class which studies how creative movement	Compositional tests for control of dairy products during processing. P,
activities meet special needs of children. Emphasis is on a problem-	130, Chem 106.
solving approach. Consideration is given to developmental stages of	DS 313A Technical Control of Dairy Products I Lab
solving approach. Consideration is given to developmental stages of	DS 321 Dairy Product Processing I
children, basic elements of dance, creative movement, games, rhythms	Principles and practices in assembling, receiving, processing, and
and manipulatives, plus teaching methods, structuring and presenting	packaging milk and cream for beverage use; cultured milk and cream,
lessons.	frozen milk and cream; concentrated milks; and ice cream. Sanitation
Danc 241A Creative Movement for Children Lab	procedures. P, 130, 313 (or concurrent) and Micr 231 or consent.
Danc 420 Techniques of Teaching Dance	DS 321A Dairy Product Processing I Lab0
Theory and practice of teaching the various dance forms: social, square,	DS 322 Dairy Product Processing II5 S (even years)
folk, modern, rhythmic games, creative dance for children. Experience in	Processing or manufacturing of relatively nonperishable dairy products
lesson planning. Unit and general curriculum requirements K-12. P, 130,	such as butter, cheese, dried milk, casein, lactose, and anhydrous milkfat.
240.	P, 130, 313 (or concurrent) and Micr 231 or consent.
Danc 492 Special Problems in Dance1-3	DS 322A Dairy Product Processing II Lab0
Independent studies and/or research activities related to Dance. P,	DS 401 Advanced Dairy Products Judging1 F
consent. Danc 493 Topics in Dance1-5	Quality evaluation of dairy products. Usually includes participation in
Danc 495 Topics in Dance1-5	regional and national collegiate dairy products contest. P, 202 and written
	consent. Maximum of 2 credits.
D.C.	DS 411 Dairy Breeds & Breeding2 S (even years)
DCom (Communication Disorders)	Origin, genetics, characteristics, and development of major breeds of
	dairy cattle. Breeding and selection based on pedigrees, production
Undergraduate Courses	records, type classification, and sire analysis. P, 130.
DCom 112 Voice and Articulation3 F (alternate years)	DS 412 Dairy Farm Management3 S (odd years)
The study of vocal production and phonology/articulation.	Dairy herd management practices, production testing, labor
DCom 131 Introduction to Communication	requirements, buildings and equipment maintenance, crop systems,
Disorders3 F (even years) S	merchandising cattle and milk. Dairy farm capital, budgets, and credits;
A study of the basic processes of speech, language, and hearing, and the	and factors affecting economic returns of dairy farming. P, 130 or
major speech, language and hearing disorders.	consent.

DS 421 Dairy Plant Management3 F (even years)	world trade, economic growth, and economic systems. P, Math 102 or
General costs, buildings, equipment, merchandising, personnel, other	equivalent.
management factors of dairy processing plants. P, junior standing or	
consent.	Economic analysis. Pricing process under varying degrees of competitive
DS 422 Technical Control of Dairy Products II4 S	conditions and role of price in allocation of resources. Income
Physical and chemical properties of milk constituents and their effect on	distribution. P, 201, Math 222 or equivalent.
processing, testing, and nutritive value of milk and its products.	Econ 302 Intermediate Macroeconomics3 FS
Intentional or accidental additives, their effect and significance.	Determinants of national income, employment and price level in free
Laboratory tests for process control or legal compliance. P, 221, Chem	enterprise system. Aggregate consumption, investment and government
120 or equivalent.	spending. Methods of maintaining a high level of employment and
DS 422A Technical Control of Dairy Products II Lab	income and related aspects of economic policy. P, 201, 202, Math 102 or
DS 432 Dairy Cattle Feeding	equivalent.
Practical considerations involved in feeding dairy cattle. P, AS 233 and	Econ 330 Money & Banking3 FS
AS 323 desired.	Money, banking, and credit; financial institutions, their significant
DS 490 Dairy Seminar	functions and policies. P, 202, sophomore standing.
Review of scientific literature and other items of special interest to dairy majors. P, senior standing.	Econ 370 Marketing3 FS
DS 492 Special Problems in Dairy Science1-3 (as arranged) FSSu	Marketing; market organization and cooperative marketing functions;
Investigation of problems in dairy production or dairy manufacturing.	pricing; efficiency, and role and management of marketing activities. P,
Results to be submitted as a technical paper. P, Junior or Senior standing	201.
plus consent. Maximum of 3 cr. for B.S. degree.	Econ 405 Comparative Economic Systems3 FS
DS 493 Special Topics1-4	Philosophy, organization, and operation of various economic systems –
Selected topics to provide specific knowledge and technical experience in	Capitalism, Socialism, Communism, Fascism, etc. Impact of various
current areas of research and development. Topics may include new	levels of industrial and agricultural development on the structure of
processing, breeding or nutrition techniques or product development. P,	selected economic systems. P, 201 plus 9 hours of Hist, Econ, PolS, and/or Soc.
consent and junior or senior standing.	Econ 423 Statistics II3 F
DS 494-495-496 Cooperative Education/Internship/Field	Probability, point and interval estimation, tests of hypotheses, multiple
Experience3-12 FSSu	regression and correlation, chi-square analysis, and analysis of variance.
On the job experience to supplement knowledge gained in the classroom.	P, Stat 341, Math 222 or equivalent.
A written job description and work plan will be required. Emphasis will	Econ 428 Mathematical Economics3 F
be on total educational value of the experience for the student. Written	Mathematical methods in introductory calculus and linear algebra.
reports will be submitted to a designated departmental faculty member	Applications to economic analysis. Static and dynamic partial and
who will serve as major adviser during the time of the practicum. P,	general equilibrium models, production functions, activity analysis,
permission of department program coordinator.	distribution, cycles, growth, mathematical programming, and model
Decal Name I C	building. P, 301, 302, Math 222.
Dual Numbered Courses	Econ 453 Risk Management—Personal &
DS 413-513 Physiology of Lactation3 S (even years)	Business (on demand)
Anatomy, physiology, and biochemistry of mammary glands. Factors	Protection against or adaptation to risk and uncertainty. Principles and
affecting quality and quantity of milk. P, Vet 223 or equivalent.	practices of fire, casualty, surety and life insurance and other risk
Graduate Courses	management techniques.
	Econ 467 Labor, Law & Economics3 S
DS 702 Seminar	History and development of the U.S. labor movement; the labor market
DS 711 Ruminology	in a market economy from firm's and union's viewpoint; collective
DS 722 Advanced Dairy Microbiology	bargaining; public policy toward collective bargaining. P, 201 or 202,
DS 722A Advanced Dairy Microbiology Lab	junior standing.
DS 731 Laboratory Techniques in Dairy Science2 F (even years) DS 780 Dairy Science Problems1-4 FSSu	Econ 476 Marketing Research
DS 790 Thesis1-4 FSSu	(Offered on demand) Marketing problems confronting agribusinesses and
DS 791 Thesis Sustaining	businesses. Descriptive and analytical techniques in a research methods
DS 890 Dissertation – Ph.D1-12 (as arranged)	approach. Marketing research techniques. P, 370, Stat 341.
DS 891 Dissertation Sustaining	Econ 492 Economics Problems1-3 FS Individual study. May involve case studies, special reports, assigned
22 07 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	readings, analysis of data and report preparation. Maximum of 4 hours. P,
	consent.
Econ (Economics)	Econ 493 Special Topics1-4
Leon (Economics)	Organized by an instructor in consultation with his or her department
Undergraduate Courses	head and a group of students. A medium through which a specific topic
Econ 201 Microeconomics Principles3 FS	can be pursued. Normally experimental and may be a "one shot deal" for
Price as it allocates resources and distributes income. Theory of firm,	a particular semester and the unique group of students. Maximum: 4
supply and demand, economic efficiency, types of competition in	credit hours per semester, 7 credit hours per degree.
markets, marginal productivity and wage determination; public interest in	Econ 495-496 Internship/Field Experience1-3 FSSu
industry, agriculture, labor and individual welfare. P, Math 102 or	On-the-job experience to supplement knowledge gained in the classroom.
equivalent.	Variety and educational value are emphasized. Job description by
Econ 202 Macroeconomics Principles3 FS	employer and a written and/or oral report are required. Approval of the
U.S. economy. Money and banking. Federal Reserve policy, national	experience by internship adviser is required before the activity begins.
income, government spending, taxation, business fluctuations, and levels	The student must be registered for credit during the entire internship
of employment and prices. Supply and demand, business organization,	period. May be repeated to a maximum of 6 credits.

Thought 2 F	EdAd 730 School Finance
Econ 404-504 History of Economic Thought	EdAd 732 School Buildings & Grounds
The historical development of economic ideas. Various schools of	EdAd 735 School Law
economic thought and the economic environment which produced them.	EdAd 781 Workshop
P, 301, 302 or consent.	EdAd 782 Seminar
Econ 420-520 Economics of the Public Sector3 (on demand)	EdAd 789 Internship in Education
Governmental operations, policies, and revenues as related to	EdAd 792 Research Problems in Ed Administrati
employment, productivity and economic welfare. Alternatives that would	EdAd 793 Problems
affect social services, education, commerce and trade, fiscal policies, and	EdAd 795 Special Topics
quality of life. P, 201 or consent.	EdAd 775 Special Topics
Econ 431-531 Managerial Economics3 (on demand)	
Applications of microeconomic theory, statistics and other quantitative	
methods to analysis and solution of decision making problems confronted	EdER (Education Evaluation and
by managers of agribusiness, commercial and manufacturing enterprises.	Devel Messal Communica
Topics include economic analysis of demand, production, cost, market	Dual Numbered Courses
structure, government regulation, risk, and capital budgeting. P, 301,	EdER 490-590 Special Topics
Math 222, Stat 341, or equivalent.	Advanced courses will be taught upon sufficient de
Econ 440-540 Economics of the International Sector	topics as Least Restrictive Environment, comp
International flow of trade and balance of payments. Monetary and fiscal	observation techniques for classroom evaluation.
policies. Trade controls and their effect upon the agricultural and	•
domestic economies. Significant current developments in trade and	Graduate Courses
finance. P, 201, 202, 330 or consent.	EdER 691 Problems
Econ 450-550 Industrial Organization3 S	EdER 711 Educational Assessment
The elements involved in market power and how they function. How the	EdER 761 Informational Literacy
structure of institutions and conduct of sellers and buyers affect economic	EdER 763 Educational Inquiry
performance. P, 301 and 302 or consent.	EdER 792 Research Problems in Education
Econ 460-560 Economic Development3 F	Edex 192 Research Troblems in Education
Developing and developed national economies. Factors impacting	
economic development. Role of public policies in development.	
Agricultural and rural development issues emphasized. P, 201, 202, or	EdFn (Education Foundations)
consent.	
Econ 472-572 Resource and Environmental	Undergraduate Courses
Economics	EdFn 338 Foundations of American Education .
Allocation, conservation, and development of natural resources.	Historical, philosophical, psychological, and socio
Environmental economics, water and land use, and methods of evaluating	for education in America. Aims and functions of
projects and programs. P, 201.	Organization and administration on federal, state,
projects and programs. 1, 201.	America. Teaching as a profession. An overview
	American Society for classroom teachers. Education
Graduate Courses	EdFn 365 Integrating Computers into the Curric
Econ 601 Economic Study in Industrial Management3 F	An overview of the application of computer technological
Econ 610 Financial Management3	Topics include computer literacy, educational soft
Econ 624 Advanced Mathematical Economics	special education, and introductions to word pr
Econ 624 Advanced Mathematical Economics	special education, and introductions to word prespreadsheets, and presentation software.
Econ 653 Advanced Market Research3	spreadsheets, and presentation software. EdFn 375 Human Relations
Econ 653 Advanced Market Research	spreadsheets, and presentation software.
Econ 653 Advanced Market Research	spreadsheets, and presentation software. EdFn 375 Human Relations
Econ 653 Advanced Market Research	spreadsheets, and presentation software. EdFn 375 Human Relations This Human Relations course will use four content on characteristics, contributions, and strengths of
Econ 653 Advanced Market Research	spreadsheets, and presentation software. EdFn 375 Human Relations This Human Relations course will use four content on characteristics, contributions, and strengths of second on various cultural perspectives and specif
Econ 653 Advanced Market Research 3 Econ 660 Operations Management 3 Econ 690 Special Problems 1-3 FS Econ 703 Advanced Macroeconomics 3 S Econ 704 Advanced Microeconomics 3 F Econ 705 Econometrics 3 S	spreadsheets, and presentation software. EdFn 375 Human Relations This Human Relations course will use four content on characteristics, contributions, and strengths of second on various cultural perspectives and specificultures; third on the dehumanizing impact of
Econ 653 Advanced Market Research	spreadsheets, and presentation software. EdFn 375 Human Relations
Econ 653 Advanced Market Research	spreadsheets, and presentation software. EdFn 375 Human Relations
Econ 653 Advanced Market Research 3 Econ 660 Operations Management 3 Econ 690 Special Problems 1-3 FS Econ 703 Advanced Macroeconomics 3 S Econ 704 Advanced Microeconomics 3 F Econ 705 Econometrics 3 S Econ 782 Personnel and Labor Relations 3 Econ 790 Thesis 1-7 (as arranged) Econ 791 Thesis Sustaining 0	spreadsheets, and presentation software. EdFn 375 Human Relations
Econ 653 Advanced Market Research 3 Econ 660 Operations Management 3 Econ 690 Special Problems 1-3 FS Econ 703 Advanced Macroeconomics 3 S Econ 704 Advanced Microeconomics 3 F Econ 705 Econometrics 3 S Econ 782 Personnel and Labor Relations 3 Econ 790 Thesis 1-7 (as arranged) Econ 791 Thesis Sustaining 0 Econ 792 Research Paper 2	spreadsheets, and presentation software. EdFn 375 Human Relations
Econ 653 Advanced Market Research	spreadsheets, and presentation software. EdFn 375 Human Relations
Econ 653 Advanced Market Research 3 Econ 660 Operations Management 3 Econ 690 Special Problems 1-3 FS Econ 703 Advanced Macroeconomics 3 S Econ 704 Advanced Microeconomics 3 F Econ 705 Econometrics 3 S Econ 782 Personnel and Labor Relations 3 Econ 790 Thesis 1-7 (as arranged) Econ 791 Thesis Sustaining 0 Econ 792 Research Paper 2	spreadsheets, and presentation software. EdFn 375 Human Relations
Econ 653 Advanced Market Research	spreadsheets, and presentation software. EdFn 375 Human Relations
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Econ 653 Advanced Market Research	spreadsheets, and presentation software. EdFn 375 Human Relations

Dual Numbered Courses

	EdAd 715 Supervision 3 SSu EdAd 730 School Finance 2 EdAd 732 School Buildings & Grounds 2 EdAd 735 School Law 3 SSu EdAd 781 Workshop 1-3 FSSu EdAd 782 Seminar 1-3 FSSu EdAd 789 Internship in Education 1-6 FS EdAd 792 Research Problems in Ed Administration 2 FSSu EdAd 793 Problems 1-3 FSSu EdAd 795 Special Topics 1-3
	EdER (Education Evaluation and Research)
	Dual Numbered Courses
	EdER 490-590 Special Topics1-3 FSSu
	Advanced courses will be taught upon sufficient demand covering such
	topics as Least Restrictive Environment, computers in education, observation techniques for classroom evaluation.
l	
l	Graduate Courses
	EdER 691 Problems1-3
	EdER 711 Educational Assessment3 SSu
;	EdER 761 Informational Literacy3 FSSu
;	EdER 763 Educational Inquiry3 SSu
	EdER 792 Research Problems in Education2 FSSu
5	
•	EdFn (Education Foundations)
ľ	EUP II (Education Foundations)
	Undergraduate Courses
	EdFn 338 Foundations of American Education2 FS
	Historical, philosophical, psychological, and sociological backgrounds
•	for education in America. Aims and functions of American education.
3.	Organization and administration on federal, state, and local levels in
	America. Teaching as a profession. An overview of education in
	American Society for classroom teachers. Education elective.
	EdFn 365 Integrating Computers into the Curriculum2 FSSu
	An overview of the application of computer technology in the classroom.
	Topics include computer literacy, educational software, applications in
,	special education, and introductions to word processing, databases,
,	special education, and introductions to word processing, databases, spreadsheets, and presentation software.
!	EdFn 375 Human Relations3
,	This Human Relations course will use four content strands focusing first
,	on characteristics, contributions, and strengths of a pluralistic society;
,	second on various cultural perspectives and specific information about
	cultures; third on the dehumanizing impact of biases and negative
)	stereotypes; and fourth on the human relations approach to teaching.
,	EdFn 420 History and Philosophy of Education2 FSu
,	An overview of the history of education coupled with the development
,	and application of educational philosophy in contemporary practice.
	and approach of educational philosophy in contemporary practice.
•	Dual Numbered Courses
1	Dual Numbered Courses
	EdFn 427-527 Middle School: Affective Applications
	Group processes and issues in affective education at the middle
	school/junior high level. Topics for study are group processes,
	interdisciplinary team planning, cooperative learning, student advisory
	programs, self-esteem building, and student/teacher relationships. P,
1	admitted to teacher education program, junior standing, an adolescent
	psychology/development course of 3 credits.

EdFn 428-528 Middle School Curriculum and Instruction3 SSu The essential methods and materials of judging high/middle school	EE (Electrical Engineering)
instruction. Methods and topics included are the middle school concept,	Undergraduate Courses
team teaching, mastery learning, exploratories, classroom management,	EE 220 Circuits I3 FS
and grouping strategies. Representative curriculum materials, appropriate	Ohm's law, Kirchhoff's laws, mesh and nodal equations, source
to the transescent learner, are examined and utilized in multi-disciplinary team planning projects. P. admitted to teacher education program, junior	transformations, superposition, RLC circuits, and introduction of
standing, adolescent developmental/psychology course of 3 credits.	PSPICE and MATLAB. P, Math 224, Phys 211.
EdFn 451-551 Curriculum and Instruction in	EE 221 Circuits II3 FS
Gifted Education3 Su	Sinusoidal analysis including the sinusoidal forcing function, phasor
Examines curriculum methods and materials for gifted and talented	concepts, sinusoidal steady-state response, average power, root-mean-
children and youth. Students will be exposed to various programming	square value, and polyphase power; complex frequency and frequency
models, IEP development, differentiated curricular concepts, as well as	response; two-port networks. Use of PSPICE and MATLAB. P, 220, 222
skills in self-directed learning.	(both with C or better).
EdFn 460-560 Applied Linguistics for Teaching English as a Second	EE 222 Circuits I Laboratory
Language3	This course introduces the student to laboratory practices and closely follows the lecture topics in EE 220 Circuits I. P, concurrent with 220.
The study of social and linguistic structures which undergird the different	EE 223 Circuits II Laboratory1 FS
discourse forms. Emphasis will be on discourse forms which are	This laboratory course enhances understanding of the lecture topics in EE
particularly important for full participation in U.S. culture such as the	221 Circuits II. P, concurrent with 221.
rhetoric of public and school interactions. P, Ling 203 or equivalent or	EE 260 Materials Science for Electrical Engineers2 S
instructor's permission. Crosslisted with Ling 460-560.	The science and engineering of materials, emphasizing electrical and
EdFn 461-561 Cultural and Psychological Perspectives in the	magnetic properties and applications. P, Chem 114, Phys 213.
Acquisition of English as a Second Language3	EE 300 Basic Electrical Engineering I2 FS
Addresses the social and cognitive processes involved in the acquisition	Circuit analysis and measurement concepts applicable to dc and
of a second language including developmental influences. P, 460-560 or Ling 460-560.	sinusoidal ac electrical systems, including Ohm's Law and Kirchhoff's
	Laws. For non-EE students. P, Phys 213, Math 225.
EdFn 462-562 Teaching Language Arts for English as a Second Language Across the Curriculum3	EE 301 Basic Electrical Engineering I Lab1 FS
The teaching of reading and writing to students with limited English	Hands-on exposure to electrical components, circuits, test equipment and
proficiency. Emphasis will be on reading and writing as it pertains to	safety issues. Experiments are designed to reinforce the theoretical
performance in educational and public settings. P, 460-560 or Ling 460-	concepts presented in EE 300. For non-EE students. P, concurrent with
560.	300. FF 302 Pagia Floatwical Engineering II
EdFn 463-563 Methods of Teaching Engl as a Second Language3	EE 302 Basic Electrical Engineering II
Develops the central concepts, tools of inquiry, and structure of teaching	non-EE students. P, 300, 301.
English to students with limited English proficiency. Includes the	EE 303 Basic Electrical Engineering II Lab1 S
evaluation of instructional processes, learning resources, curriculum, and	Hands-on exposure to electronic devices, analog and digital circuits, and
programs. Emphasis will be on teaching students to use English in	electrical measurement issues. Experiments are designed to reinforce the
educational and public settings. P, 460-560 or Ling 460-560. Crosslisted	theoretical concepts presented in EE 302. For non-EE students. P,
with Engl 463-563. EdFn 490-590 Special Topics1-3	concurrent with 302.
Advanced study covering such topics as Introduction to Multi-Cultural	EE 316 Signals and Systems I
Education, Introduction to Law Related Education, and Interpretation and	Description of deterministic signals through the use of Fourier Series,
Implementation of Individuals with Disabilities Act (IDEA).	Fourier, Laplace and Z-Transforms. Systems description treated by
	differential and difference equations including transform methods. Computations of system response to both continuous and discrete inputs.
Graduate Courses	P, 221, Math 321.
EdFn 605 Computers in the Classroom2	EE 317 Signals and Systems II
EdFn 648 Learning Styles	Continuation of 316, emphasizing discrete time signals and systems and
EdFn 700 Working with Exceptional Children	digital signal processing. Extensive use of MATLAB. P, 316.
EdFn 725 Education in a Pluralistic Society3 SSu	EE 320 Electronics I3 FS
EdFn 727 Group Processes3 SSu	Analysis of electronic devices and circuits. Introduction to electronic
EdFn 730 Current Issues in Education3 FSSu	circuit design. P, 220, 221 (both with C or better).
EdFn 745 Effective Teaching: Theory Into Practice3 SSu	EE 321 Electronics II
EdFn 747 Curriculum: Theory and Practice	Design and analysis concepts for linear and digital electronic circuits.
EdFn 750 Technology in Education3 FSu	Emphasis on integrated circuit design. P, 320.
EdFn 751 Teaching Reading Across Disciplines3 (alternate years)	EE 322 Electronics Laboratory I
EdFn 752 Foundations of Reading3 EdFn 753 Diagnosis and Remediation of Reading Problems3	concurrent with 320.
EdFn 754 Clinical Practice in Reading2	EE 323 Electronics Laboratory II1 FS
EdFn 782 Seminar1-3	Experimental design and analysis of electronic circuits. P, concurrent
EdFn 789 Internship1-6	with 321.
	EE 345 Digital Systems3 FS
	The fundamental concepts of analysis and design of digital circuits

The fundamental concepts of analysis and design of digital circuits including combinational and sequential logic design using TTL, CMOS,

PLD's and software tools. P, 221 (with grade of "C" or better).

	TIP 402 G . I Duelland in Electrical Engineering 1.2ESSu
EE 346 Digital Systems Laboratory1 FS	EE 492 Special Problems in Electrical Engineering1-3FSSu
Laboratory topics which enhance the design concepts of the lecture	An informal independent study experience meant to provide emphasis in
course, EE 345. Concurrent with 345.	a particular area of electrical engineering of special interest to a student
EE 347 Microcontroller Systems Design3 FS	and EE faculty member. P, consent.
Hardware concepts, organization and design of microcomputer systems,	EE 494 Cooperative Education1-3 FSSu
including single-chip microcomputers. Principles of microcomputer	Planned supervised professional experience related to electrical
programming and operation using machine and assembly language. P,	engineering which takes place outside the formal classroom with private
	business or industry, or public agencies. Further information is found in
345.	the department's Cooperative Education Department Policy. P, consent of
EE 348 Microcontroller Systems Design Lab	EE Department program coordinator.
Laboratory topics which enhance the design concepts of the concurrent	EE Department program coordinator.
lecture course, EE 347. Concurrent with 347.	
EE 360 Electronic Devices3 F	Dual Numbered Courses
Introduction to microelectronic devices, semiconductor and junction	EE 415-515 Linear Control Systems3 S
theory, semiconductor devices, other solid-state devices. P, 260, 320 or	Feedback control systems by operational and differential methods. Topics
concurrent with 320.	may include differential and Laplace system modeling, Nyquist and
EE 385 Electromagnetics3 FS	Routh-Hurwitz stability analysis, and cascade PID/lead/lag and state-
Experimental results of Coulomb, Ampere, and Faraday, classical field	space feedback compensation design using root-locus, Bode and
theory. Forces, potentials, energy storage and dissipation are all treated	
for static fields. Faraday's induction law, Maxwell's displacement	Ackerman's pole-placement methods. P, 316, Math 321.
current, and a complete description of the time-varying fields given by	EE 416-516 Passive and Active Filters
Maxwell's equations. P, 221, Math 225.	The analysis and design of passive and active filters for electrical signals.
EE 386 Electromagnetics Laboratory1 FS	Topics include Butterworth, Chebyshev, Bessel-Thompson response
Laboratory topics which enhance the concepts presented in the lecture	characteristics, biquad and Sallen-Key circuits, frequency and impedance
Laboratory topics which enhance the concepts presented in the lecture	transformations, sensitivity, gyrators, negative impedance elements, leap-
course EE 385. P, concurrent with 385.	frog filters and switched capacitor filters. P, 321 or consent.
EE 410 Probabilistic Methods in Electrical Engineering	EE 424-524 RF Electronics3
Basic probability and random variables. Applications to system reliability	Performance analysis and design methods for the functional blocks of
and effect of tolerance specifications. Description of engineering systems	radio frequency systems operating below the microwave bands. P, 321,
and problems using nondeterministic modeling. P, 316.	316.
EE 420 Electronics III	EE 433-533 Computer Analysis of Power Systems3
Selected topics in the design of analog and digital electronics. Provides	Concepts used in formulating load flow, fault study problems and
increased understanding of theory, simulation, and application of	stability analysis of power systems using computer solutions. P, 415-515,
semiconductor devices. P, 321, 323, 345.	430, or consent.
EE 421 Electronics Laboratory III1 F	EE 440-540 VLSI Circuit Design2 F
Experimental design and analysis of analog and digital electronic circuits.	
P, concurrent with 420.	An introduction to custom VLSI design in Complementary MOS
EE 422 Engineering Economy2 F	(CMOS) technologies. Extensive use of computer software for VLSI
Economic aspects of engineering, annual cost-percent worth calculations,	circuit layout and simulation. P, 320, 345, 360.
decisions among alternatives. P, senior standing.	EE 440A-540A VLSI Circuit Design Studio1 F
EE 430 Energy Conversion3 F	EE 450-550 Biomedical Signal Processing
Basic engineering laws and concepts in analysis of energy- conversion	Methods and techniques for the analysis and processing of physiological
and energy transfer systems and devices. Includes AC and DC machines	signals. Off-line and real-time digital signal processing using time and
and analysis of response of machines to operating conditions. P, 385.	frequency domain techniques. Emphasis on signal processing of
EE 431 Energy Laboratory1 F	electrocardiographic signals. P, 317.
Experimental work with energy transfer and energy conversion devices.	EE 454-554 Biomedical Instrumentation & Electrical Safety3 S
	The design of electronic instrumentation for physiological applications.
P, concurrent with 430.	Emphasis on modeling and design of biopotential electrode/amplifier
EE 432 Power Systems	systems, physiological measurement techniques, therapeutic and
Basic parameters of transmission lines. Representation of power systems,	prosthetic devices, and electrical safety in health care facilities. P, 321.
symmetrical components, network equations and solutions, load-flow	EE 460-560 Sensor Theory and Design2 S
studies and load-flow control, and symmetrical faults on synchronous	Introduction to the operation, design, testing and applications of modern
machines. P, 430, or consent.	sensors in use and under development. Signal conditioning and system
EE 435 Seminar in Power Systems1	integration are also reviewed. P, 360.
Guest speakers, field trips, panel discussions and selected films on	EE 460A-560A Sensor Theory and Design Lab1 S
pertinent electric power and energy topics. Senior standing or consent.	EE 471-571 Optical Fiber Communications3 S
EE 464 Senior Design I2 FS	The same and application of artical fibers and communication exists
Capstone senior design team project. Students write specifications for a	Theory and application of optical fibers and communication systems.
team design project and complete the initial design. Oral and written	Topics include fundamentals of optical fiber waveguides,
reports are required. P, senior EE standing. To be taken in fall or spring	electroluminescent sources, single-mode and multimode, propagation,
term immediately before graduation.	coupling consideration, photo-detectors, signal degradation, fabrication
EE 465 Senior Design II2 FS	and cabling, and transmission link design. P, 316 or consent.
Capstone senior design team project. Students build and test the design	EE 472-572 Optical Fiber Communciations Lab1 S
specified in 464. Final oral presentation and written reports are required.	This laboratory reinforces the theoretical concepts presented in the
To be taken in same term as graduation. P, 464.	lecture course, EE 471-571. Topics include basic knowledge and skills
EE 470 Communications Engineering3 F	needed for handling and testing optical fibers, characteristics of optical
Modulation and detection methods including circuit analysis and design	components, fiber optic communication systems and fiber optic sensing
for digital and analog communication systems are presented. P, 316, 320.	systems. Concurrent with 471-571.
10. a.g.m. mio miniog communication by storing are presented. 1, 310, 320.	

EE 475-575 Digital Image Processing	TYPE AGA I N
EE 475-575 Digital Image Processing	EET 232 Advanced Digital4 S
include image formation, transforms, enhancement, restoration,	More advanced digital theory and circuits coverage. Programmable
compression, and analysis. P, 317 or consent.	digital circuits, memory mapping, and basic architecture of Intel
EE 493-593 Special Topics in EE1-3	microprocessor/microcomputer circuits. P, 230. Concurrent enrollment in EET 232A.
Current topics in selected areas of engineering.	EET 232A Advanced Digital Lab0
2	Concurrent enrollment in EET 232.
Graduate Courses	EET 251 Electricity and Electronics I
•	The course is designed to provide students with a background and
EE 570 Digital Communication Systems	understanding of the essential topics in AC/DC circuits, electrical circuit
EE 615 Linear Systems Theory	materials, electrical energy and sources of electricity, basic circuits and
EE 620 Advanced Digital Hardware	their analysis, magnetism, and applications of motors, generators, and
EE 670 Information & Signal Processing	power distribution. P, Math 113. Concurrent enrollment in EET 251A.
EE 685 Microwave Theory	Crosslisted with MNET 251.
EE 690 Special Electrical Problems	EET 251A Electricity and Electronics I Lab0
EE 693 Special Topics in Electrical Engineering1-3	Concurrent enrollment in EET 251. Crosslisted with MNET 251A.
EE 700-701 Seminar0-1	EET 252 Electricity and Electronics II3
EE 790 Thesis1-7	This course is the continuation of EET 251 and is designed to provide
EE 791 Thesis Sustaining0	students with a background and understanding of the essential topics in
EE 792 Engineering Research or Design Paper1-2 FSSu	semiconductor devices, semiconductor power supply and technology, and
EE 793 Special Topics in Electrical Engineering1-3	semiconductor amplifiers and their applications. Other topics include
EE 795 Engineering Research or Design Paper Sustaining0	digital logic, integrated circuits, oscillators, AM/FM communications, TV signal transmission, and computer structure and operations. P 251.
EE 797 Research1-9 Repeatable P/F	Concurrent enrollment in EET 252A. Crosslisted with MNET 252.
	EET 252A Electricity and Electronics II Lab0
	Concurrent enrollment in EET 252. Crosslisted with MNET 252A.
EET (Electronics Engineering Technology)	EET 292 Special Problems1-3
	Provides the student with the opportunity to identify a problem and
Undergraduate Courses	develop a hypothesis, gather information which might be used in solving
EET 100 Survey of Electronics4 (on demand)	the problem, work on solving the problem, and report actual findings and
Nonmathematical survey of fundamental electronic components and	accomplishments. P, permission of the instructor.
circuits. Concurrent enrollment in EET 100A.	EET 293 Special Topics1-3
EET 100A Survey of Electronics and Lab	Current selected topic areas in Electronics Engineering Technology. P,
	permission of the instructor.
EET 114 DC Concepts4 F Direct current circuits. Topics covered are basic laws and theorems	EET 320 Analog Devices4
directed toward resistive circuits. Kirchhoff's laws, series and parallel	Physical principles of transistors, tunnel diodes, LEDs, light sensing
circuits. Concurrent enrollment in Math 102 or higher and EET 114A.	diodes, photo diodes, differential amplifiers, operational amplifiers, and other linear IC technologies, capabilities, and applications. P, 220 and
EET 114A DC Concepts and Lab0	Math 123, or Math 222. Concurrent enrollment in EET 320A.
Concurrent enrollment in EET 114.	EET 320A Analog Devices Lab0
EET 116 AC Concepts4 S	Concurrent enrollment in EET 320.
Alternating current circuits. Study of series and parallel circuits, network	EET 322 Radio Frequency Systems I4 F
analysis, capacitance, inductance, and impedance. P, 114. Concurrent	Radio wave propagation, transmission line theory, and antennas.
enrollment in EET 116A.	Emphasis is placed on conduction of radio waves from a source to a load
EET 116A AC Concepts Lab	and its propagation through space. P, 220. Concurrent enrollment in EET
Concurrent enrollment in EET 116.	322A.
EET 122 Introductory Circuits	EET 322A Radio Frequency Systems I Lab0
Active devices including diodes and BJTs, transistor circuits, and discrete component amplifiers. P, 114. Concurrent enrollment in EET 122A.	Concurrent enrollment in EET 322.
EET 122A Introductory Circuits Lab0	EET 324 Radio Frequency Systems II
Concurrent enrollment in EET 122.	Complex resonant circuits, antenna rays, impedance matching devices, transmission lines and microwave components. Emphasis is placed on
EET 200 EET—Off Campus Orientation0	antenna systems and related components. The student is given the
EET enrollment sustaining.	opportunity to study the operation and theory of a variety of electronic
EET 220 Advanced Circuits4 F	instruments used in industry. P, 322. Concurrent enrollment in EET 324A.
Advanced BJT and FET circuit designs with in-depth study of circuit	EET 324A Radio Frequency Systems II Lab0
parameters. P, 122. Concurrent enrollment in EET 220A.	Concurrent enrollment in EET 324.
EET 220A Advanced Circuits Lab0	EET 330 Microprocessors4 F
Concurrent enrollment in EET 220.	Design and usage of the microprocessor in microcomputers and process
EET 230 Introductory Digital4	control applications. Includes concepts, properties and basic architectures
Binary and hexadecimal number systems, switching theory, Boolean	of Intel-type microprocessors. Programming on an assembly language
Algebra, logic diagrams, Karnaugh mapping, counter circuits, and pulse	level. P, 232. Concurrent enrollment in EET 330A.
circuits. P, 122. Concurrent enrollment in EET 230A.	EET 330A Microprocessors Lab0
EET 230A Introductory Digital Lab	Concurrent enrollment in EET 330.
Concurrent emoninem in Elet 250.	·

EET 340 Techniques of Servicing2	EET 472 Networking I4
The practical aspects of servicing many types of electronics equipment.	The study of personal computer systems, concentrating on Intel-type
The latest techniques and equipment will be available for demonstration	personal computers, networking and data communications from a
and laboratory usage. P, 320.	software and management point of view. Microsoft NT and Novell are
EET 370 Computer Systems4 S	explored. P, 370. Concurrent enrollment in EET 472A.
A course to familiarize students with hardware/software configurations, installations, usage, and basic troubleshooting techniques of past and	EET 472A Networking I Lab0 Concurrent enrollment in EET 472.
current personal computers. P, 330. Concurrent enrollment in EET 370A.	EET 474 Networking II4
EET 370A Computer Systems Lab	Further study of personal computer systems, concentrating on Intel-type
Concurrent enrollment in EET 370.	personal computers, networking and data communications from a
EET 422 Video Systems4	software and management point of view. Microsoft NT and Novell are
The study of circuits used in television and video displays. Color and	
monochrome video systems are studied simultaneously. Modern digital	
TV standards studied. P, 320. Concurrent enrollment in EET 422A.	Concurrent enrollment in EET 474.
EET 422A Video Systems Lab	EET 492 Special Problems1-3 Provides the student with the opportunity to identify a problem and
Concurrent enrollment in EET 422. EET 426 Communication Systems	develop a hypothèsis, gather information which might be used in solving
Study of transmitters and receiver circuits. Principles of modulation and	
demodulation are investigated. Basic fiber optics are discussed. Basic	accomplishments. P, permission of the instructor.
telephone circuits, both analog and digital are studied.P, 320. Concurrent	<u>. </u>
enrollment in EET 426A.	Current selected topic areas in Electronics Engineering Technology. P,
EET 426A Communication Systems Lab0	permission of the instructor.
Concurrent enrollment in EET 426.	EET 494 Cooperative Education1-3
EET 428 Advanced Communication Systems4	Supervised work experience with a business, industrial firm, or public
Complex radio systems including repeaters, mobile telephone, and	
paging systems. Systems design and troubleshooting techniques are studied as well as microwave and basic radar. P, 426. Concurrent	
enrollment in EET 428A.	EET 495 Internship1-3
EET 428A Advanced Communication Systems Lab0	Supervised work experience with a business, industrial firm, or public
Concurrent enrollment in EET 428.	agency. The work experience must relate to the student's program of
EET 440 Prototype Techniques4 F	study and be performed under institutional and discipline guidelines
A lecture-laboratory course to acquaint students with procedures used to	
prototype and construct circuits used in electronics. Topics include meta	
chassis pre-fabrication, printed circuit board layout and production design techniques for audio and RF circuits, and final test procedures	
Project management techniques will be introduced and followed in the	
student's projects. P, 320. Concurrent enrollment in EET 440A.	
EET 440A Prototype Techniques Lab0	
Concurrent enrollment in EET 440.	ElEd (Elementary Education)
EET 451 Industrial Electronics and Control	•
This course teaches industrial motion control (servomechanisms) and	· · · · · · · · · · · · · · · · · · ·
process control (instrumentation) systems. The course describes the concepts and the operation of electronic devices, circuits, systems, and	
applications used in industry. P. 350. Concurrent enrollment in EET	
451A. Crosslisted with MNET 451.	Dual Numbered Courses
EET 451A Industrial Electronics and Control Lab0	
Concurrent enrollment in EET 451. Crosslisted with MNET 451A.	ElEd 481-581 Workshop1-3 FSSu Special areas in elementary education are comprehensively explored in
EET 453 Manufacturing Automation3	i di Guaranta Daianad ta inancesa anceitic strille and
The course offers advanced topics in manufacturing automation	1 1 1 1 1 1 1 1
including automation hardware/software, system design and integration and management techniques for improving design and manufacturing	•
operations. Hands-on lab activities provide the students with the	Graduate Courses
opportunity to develop and program automated systems. P, 451 or MNE	ElEd 748 Elementary Curriculum Practicum1 Su
451 and a computer programming course. Concurrent enrollment in EE	ElEd 773 Elementary School Curriculum3 Su
435A. Crosslisted with MNET 453.	•
EET 453A Manufacturing Automation Lab	' <u>_</u>
Concurrent enrollment in EET 453. Crosslisted with MNET 453A.	EM (Engineering Mechanics)
EET 469 Project Management	,
additional opportunities to conduct research, build and test products, an	
manage projects in a team environment. Record keeping, documentation	EM 221 Statics
team evaluations, and presentations are part of course activities. P, 451 c	and equilibrium of force systems, free body diagrams, centroids; analysis
MNET 260 and MNET 451. Concurrent enrollment in EET 469A	of statically determinate states of equilibrium. P, Math 123, Phys 211 or
Crosslisted with MNET 469.	concurrently.
EET 469A Project Management Lab	
Concurrent enrollment in EET 469. Crosslisted with MNET 469A.	
	G D '' 200

EM 3 Fluid mom analy incore 222, Dua EM 4 Cont Gene flow; invariapplice EM 4 Analy Hook stress plate EM 4 Analy plastit walle proble proble EM 6	ngs; deflections of beams. P, 221. 331 Fluid Mechanics	and aesthetic form. Engl 211 World Literature I
pronu be wri or per	nciation, and formal and informal oral English. A major focus will tten and oral responses to written and spoken sources. P, placement mission of the instructor. May be required instead of or in addition er English courses.	symbolic modes. Engl 312 Juvenile Literature

Engl 334 English Drama:	Engl 431-531 English 18th Century Literature
Engl 351 American Indian Literature of the Past	American literature of the mid nineteenth-century, including the Transcendentalists and Romantics. Engl 454-554 American Realist & Naturalist Literature
Engl 352 American Indian Literature of the Present	American literature of the realist and naturalist movements of the late 19th and early 20th centuries.
Engl 356 American Poetry:	Engl 459-559 American Literature Between the Wars
repeated with different name and content. Engl 367 American Short Story:	American literature since WWII. Engl 463-563 Methods of Teaching English as a Second Language 3 Develops the central concepts, tools of inquiry, and structure of teaching English to students with limited English proficiency. Includes the evaluation of instructional processes, learning resources, curriculum, and programs. Emphasis will be on teaching students to use English in educational and public settings. P, EdFn 460-560 or Ling 460-560. Crosslisted with EdFn 463-563. Engl 485-585 Advanced Creative Writing
Students). Engl 383 Creative Writing: 3 FS	Graduate Courses
Engl 383 Creative Writing:	Engl 704 Introduction to Graduate Studies
consultation with the Head of the English Department.	Engl 710 Seminar in Rhetoric
Engl 490 Seminar in English1-3	Engl 725 Seminar in English Literature to 1000
Engl 492 Special Problems1-4 Engl 493 Topics in English1-5	Engl 728 Seminar in American Literature to 19003
Engl 495 Internship1-12 FSSu	Engl 729 Seminar in American Literature since 19003 Engl 742 Seminar in American Indian Literature
	Engl 755 Seminar in Minority Literature
Dual Numbered Courses	Engl 790 Thesis1-7 Pass/Fail
Engl 422-522 Chaucer3 (alternate years)	Engl 791 Thesis Sustaining0 Pass/Fail Engl 795 Independent Research & Study1-3
Major works of Chaucer, with some attention to his sources and his	Engl 797 Special Topics in Composition & Literature1-3
language. Engl 423-523 Old & Middle English Literature3 (alternate years)	Engl /// Special ropics in Composition of English
Emphasizing pre-Norman heroic and Christian literature, the work of	
Chaucer and his contemporaries, and folk literature such as the ballads.	,
Engl 424-524 English Renaissance Literature3 (alternate years) Major writers of the 16th and early 17th centuries excluding Shakespeare.	
Engl 427-527 Advanced Shakespeare3 (alternate years)	
Selected plays of Shakespeare and significant Shakespearean criticism.	
Engl 428-528 Milton	
Selected works of Milton, particularly Paradise Lost.	·

EnvM (Environmental Management)

Undergraduate Courses

EnvM 275 Introduction to Environmental Science3 F Presents an introduction and review of the factors influencing the quantity, quality and distribution of resources within the environment, uses of the environment and relation to human population size and demographics, effects of natural and human disturbances on the environment and economic and political considerations for environmental management. P, Bio 101-103 or 151-153 and Chem 112.

Dual Numbered Courses

EnvM 425-525 Disturbance Ecology4 S (odd years) Introduction to basic concepts of disturbance ecology, Demonstration and discussion of linkages between basic biology and management of natural resources. Introduction to field and laboratory techniques for monitoring and assessment of ecological responses to pollution and other forms of disturbance. P. Bio 153 and Bio 311.

EnvM 425A-525A Disturbance Ecology Lab0

EPsy (Educational Psychology)

Undergraduate Courses

EPsy 302 Educational and Adolescent Psychology2 FS

Exploration into the world of the learner. Basic learning theories and use of these concepts in teaching. Focuses on disciplines, grouping, special needs students, and multi-cultural concepts in educating and motivating students. Required for certification. P, Seed 287, EdFn 375, junior standing, must be taken concurrently with SeEd 450 and SeEd 314. education student. One section per year also offered for students in Elementary Education Professional Semester II.

EPsy 303 The Exceptional Child3 F Designed for persons who plan to work with children. This course explores the world of children with special needs. Emphasis is placed on discovering the social, personal and learning characteristics of children

with various handicapping conditions.

Dual Numbered Courses

EPsy 426-526 Psychology of the Early Adolescent Learner3 FSu To guide students in the personal construction and application of an early adolescent development knowledge base. The learning environment of the early adolescent/ middle school student will be the context of study in this course. A theoretical base related to intellectual development, identity development, and social development will be used as a basis for exploring the benefits and needed changes in current educational settings of the 10-15 year old. Students will study the impact of various influences on the healthy and positive development of the learner. Students will apply the knowledge base to evaluate and critique personal experiences, issues, and programs designed for early adolescent learners. P, admitted to education program, junior standing (426) or graduate student (526).

EPsy 450-550 Gifted and Talented3

Overview of the Gifted and Talented field; explores the development of gifted/talented children as well as identification and curriculum adaptations for meeting the needs of these children; also focuses on issues surrounding the parents and families of gifted and talented as well as program development and evaluation.

EPsy 452-552 Enhancing Creativity3

Explores the various dimensions of creativity, including what it is, how it develops, how to teach creative students, and how to evaluate creative works. Emphasis will be on how to work with students who already exhibit significant creative abilities as well as how to foster creativity with all students.

Graduate Courses

EPsy 630 Learning Disabilities	3
EPsy 740 Advanced Ed Psychology	
EPsy 761 Testing Practicum: Intellectual Assessment .	
EPsy 762 Testing Practicum: Personality Assessment	
EPsy 763 Testing Practicum: Projective Techniques	

EurS (European Studies)

Undergraduate Courses

EurS 300 Topics in European Culture3 Topics in European culture as expressed in literature, art, music, philosophy, and religion. The topic may be limited to a theme, for example, Death, War, or Justice, or to a period in history, for example,

Women in the Renaissance, Love in the Seventeenth Century, or Solitude in the Romantic Period. (May be repeated for credit when the topic is different.)

EurS 301 Topics in European Society......3

An interdisciplinary examination of a topic in European social life. Examples include, among others, Ethnicity and Nationality, Aging, Revolution, European Unification, Political Parties and Economic Development, or Migrant Workers. (May be repeated for credit when the topic is different.)

EurS 311 European Exchange Orientation1

This course is designed to prepare students to live and study in a European setting. The course will combine an overview of historical, political, social, and cultural topics with a preparation for daily life. This will facilitate adaptation to the exchange experience in the hosting European nation. P, acceptance for a European exchange program and completion of or concurrent registration in two approved courses in the European Studies Program.

EurS 320 European Studies - Humanities1-6

Instruction in the Humanities through a European Educational Institution with which South Dakota State University has a student exchange agreement. Students may enroll in multiple sections consistent with the number of courses they are attending at the European Educational Institution. The course content is subject to approval by the SDSU European Studies Committee. P, 311.

EurS 321 European Studies - Social Sciences1-6

Instruction in the Social Sciences through a European Educational Institution with which South Dakota State University has a student exchange agreement. Students may enroll in multiple sections consistent with the number of courses they are attending at the European Educational Institution. The course content is subject to approval by the

SDSU European Studies Committee. P, 311.

EurS 322 European Studies – Fine Arts1-6 Instruction in the Fine Arts through a European Educational Institution with which South Dakota State University has a student exchange agreement. Students may enroll in multiple sections consistent with the number of courses they are attending at the European Educational Institution. The course content is subject to approval by the SDSU

European Studies Committee. P, 311. EurS 493 European Studies - Special Topics1-3

Opportunities to investigate special problems or carry out independent study under the supervision of a European Educational Institution faculty member. The course content is subject to approval by the SDSU European Studies Committee. P, 311.

FCS (Family and Consumer Sciences)	FCSE 412 Preparation for Student Teaching
	Planning and developing instruction for various types of family and
Undergraduate Courses	consumer sciences programs to meet the needs of selected age groups in
FCS 101 Family and Consumer Sciences: Professional	structured situations. Professionalism, workplace environment/issues and
Foundations	job seeking skills will be addressed in preparation for a career in an
Introduction to the Family and Consumer Science profession: orientation	educational setting. P, 411, Professional Semester II and 2.6 GPA in
to careers and college and university resources. FCS 293 Current Topics1-3	professional classes and 2.5 GPA overall.
For freshmen and sophomores needing additional study or experience	FCSE 412A Preparation for Student Teaching Lab0
related to a particular topic not offered as part of a regular class. May be	FCSE 421 Adult Education2 S
repeated for up to three credits	Theories, strategies and trends related to working with diverse adult
repeated for up to times creates	audiences within the context of family and consumer sciences.
Dual Numbered Courses	Experience in working with adults will be included. Open to all majors.
FCS 400-500 Practicum in Family Consumer Sciences2-6	FCSE 473 Supervised Student Teaching in Family and Consumer
Provides an opportunity for students to gain experience in a job or career	Sciences
related to their subject specialization. A learning plan is developed by the	A minimum of ten weeks of the second part of Spring Semester. Roles
student and faculty member prior to the practicum. Consent of	and responsibilities of the vocational family and consumer sciences
department and instructor is required.	teacher. Teaching under supervision at least two subject areas of family and consumer sciences in an approved school. P, 412, a 2.6 GPA in
FCS 492-592 Special Problems1-3	professional classes and 2.5 GPA overall, and senior standing in family
Individual research and study in family and consumer sciences. May be	and consumer sciences.
repeated for a total of 3 credits. Consent of instructor and department is	and consumer serences.
required.	D IN I IC
FCS 493-593 Current Topics1-3	Dual Numbered Courses
For students needing additional study of a topic or experience not offered	FCSE 492-592 Special Problems1-3
as part of a regular class.	Individual research and study in home economics education. May be
	repeated for a total of 4 credits. Consent of instructor and department is
Graduate Courses	required.
FCS 601 Orientation to Graduate Study in Family & Consumer	FCSE 493-593 Current Topics1-3 For students needing additional study of a topic or experience not offered
Sciences1 FSSu	as part of a regular class.
FCS 700 Research Methods in Family/Consumer Science4	as part of a regular class.
FCS 700A Research Methods in Family/	Graduate Courses
Consumer Science Studio0 FCS 790 Thesis1-7	FCSE 741 Supervision in Family and Consumer Sciences
FCS 791 Thesis Sustaining	Education
FCS 792 Special Problems1-3	FCSE 751 Curriculum in Family and Consumer Sciences
FCS 793 Current Topics1-3	Education2
FCS 794 Graduate Internship1-7	Cross listed with CTE 751.
FCS 795 Individual Research and Study1-7	FCSE 792 Special Problems1-3
FCS 796 Individual Research Paper Sustaining0	FCSE 793 Current Topics1-3
FCSE (Family and Consumer Sciences	Fren (French)
Education)	rich (French)
Education)	Undergraduate Courses
Undergraduate Courses	Fren 101-102 Introductory French I-II4 FS
FCSE 293 Current Topics1-3 F	Fundamentals of language structure and introduction to French culture
For students needing additional study of a topic or experience not offered	enabling students to converse, read, and write simple French. Classwork
as part of a regular class.	may be supplemented with required aural/oral practice outside of class.
FCSE 331 Work Force Preparation in Family and Consumer	Fren 201-202 Intermediate French I-II4 FS
Sciences2 F	Goals of the introductory course continued. Emphasis on cultural and
Strategies for developing curriculum and designing methods of	intellectual aspects of French life and literature. Classwork may be
instruction for teaching employability skills, career decision making and	supplemented with required aural/oral practice outside of class. P, 102 or
occupational areas of family and consumer sciences. A field experience	equivalent. Fren 310 French Language Skills3 F
will be included.	A video and computer-assisted, advanced-level course designed to
FCSE 411 Philosophy & Methods FSCE	strengthen and expand aural comprehension, conversation and
The philosophical foundations and history of vocational family and	composition within the context of contemporary French culture. P, 202 or
consumer sciences programs in school systems. The learner and the constructivist learning process, curriculum development, and program	equivalent preparation
planning, methods of instruction, selection and use of resource materials,	Fren 333 Topics in Francophone Culture3 S
and the educator's role will be studied in depth as preparation for the	Overview of the historical events in Francophone civilizations as they
student teaching experience. Must be taken in semester immediately	relate to contemporary culture. Second semester emphasizes
preceding FCSE 412. P, 2.5 GPA.	contemporary Francophone culture and civilization. P, 310 or consent of
	instructor.

Fren 350 Business Communications in French3 F	Graduate Courses
An introduction to the language of business and business practices in	GCom 605 Current Approaches to Communication3 S
French-speaking countries. Included are commercial terminology,	GCom 793 Special Topics in Communication1-3 FSSu
business forms, office correspondence and the common expressions used in a business setting. P, 202 or equivalent preparation.	
Fren 353 Exploring Literature in French	C.T.
Study of literary texts from throughout the French-speaking world. P, 202	GE (General Engineering)
or equivalent preparation.	
Fren 395 Travel Study Abroad Francophone1-6 FSSu	Undergraduate Courses
Offered to students engaged in an approved program of studies under	GE 101 Introduction to Engineering
faculty supervision. Hours of credit as contracted with instructor and	ethics required of a professional person. A breadth of ideas are presented
approved by the cooperating institutions.	to the students which helps them in their career choice.
Fren 415 French Language Skills Workshop1-6 Su An advanced level course that uses both technology and conventional	GE 120 Engineering Drawing/CAD3 FS
resources to expand students' competency within their specialized	This course will cover the fundamentals of technical drawing including
emphases. P, 310 or instructor permission.	design processes, geometric construction, multi-view projection,
Fren 450 Business French II3 S	dimensioning, sectional views, auxiliary views, and assembly and
An advanced course in the language of business in French-speaking	working drawings. Integral to this course is the use of Computer-Aided
countries. Graded readings in commerce and marketing, finance and	Drawing (CAD) in both 2-D and 3-D modes emphasizing visualization
accounting, and economics. P, 310 or permission of instructor.	concepts. P, Math 102. Concurrent enrollment in GE 120A.
Fren 453 Topics in French Literature3 F	GE 120A Engineering Drawing/CAD Lab
An in-depth study of authors writing in French. P, 310 or permission of	GE 121 Engineering Design Graphics I
instructor. From 480 Franch Study Constant Eventual 2.5	A course in graphical communication, expression and interpretation. The
Fren 480 French Study Capstone Experience	ability to visualize in three dimensions is developed through shape
member supervising the course in collaboration with the other faculty and	description, sketching and multi-view projection exercises. The emphasis
administrators at the cooperating institutions. Typical experiences require	is on visualization and free hand sketching. Also includes Engineering,
service-learning projects, internships and study abroad. A report and/or a	Mechanical, and Architectural scales, geometric constructions, use of
public presentation may be required as a part of this experience.	instruments, dimensioning, and sectional views. P, Math 102.
Prerequisite: Students should be in their senior year and have completed	GE 122 Engineering Design Graphics II1
a minimum of 28 hours toward the major before undertaking the capstone	This course provides a basis in graphical descriptive geometry as applied
experience. On demand.	to solving spatial problems. Graphical conventions including, but not limited to, section, scales, and dimensions are also covered. P, 121.
Fren 492 Directed Readings/Independent Study1-3 FSSu	GE 123 Computer Aided Drawing1
Students may select a topic or a problem of interest to them and may	A course with major emphasis on 2-dimensional drafting skills and 3-
research it independently or in collaboration with one or more students at other institutions under the supervision of a faculty member at one of the	dimensional solid modeling utilizing microcomputer software. All work
three primary institutions. Instructor permission is required; course	requires a "hands-on" approach. P, 121.
offered only when staff is available.	GE 200 Engineering College - Off Campus Orientation0
Fren 493 Special Topics3 F	Engineering College Enrollment Sustaining.
Topics of interest to faculty and students. May include, but is not limited	GE 225 Survey of Machine Tools Applications1
to, film, translation and intensive practice of oral skills. P, 310 or	A survey course introducing machine tools and their applications.
permission of instructor.	Automation in machining and CNC programming and operations are also
Graduate Courses	topics addressed in this course. GE 231 Technology & Society
	An examination of technological change and impacts on society by
Fren 592 Directed Readings/Independent Study1-3	means of current problems and case studies. The creation and utilization
·	of tools, machines, materials, techniques and technical systems will also
GCom (General Communication)	be studied, as well as the their environmental impacts.
	GE 241 Applied Mechanics
Undergraduate Courses	Basic statics, dynamics, and two-dimensional analysis of stress and
GCom 211 Phonetics	strain. Laboratory verification of fundamental principles of structural and machine elements. P, Math 113 and Phys 111. Concurrent enrollment in
The production and perception of sounds of English speech; the use of the	GE 241A. Crosslisted with MNET 241.
International Phonetic Alphabet; the application of the principles of phonetic analysis to oral communication.	GE 241A Applied Mechanics Lab0
GCom 215 Communication Studies3 FS	Concurrent enrollment in GE 241. Crosslisted with MNET 241A.
An overview of the communication discipline, theory, and practice. P,	GE 292 Special Problems1-3
Advanced Placement in Speech or consent.	P, consent.
GCom 345 Organizational Communication3 F	GE 293 Special Topics1-3
An examination of organizational theory and research as it relates to	P, consent.
communication within the organization.	
GCom 493 Topics in General Communication1-5	
Selected topics of current interest in the discipline.	
GCom 495 Internship	

agencies. P, consent of department program coordinator.

- 11 1 G	Cons 210 Call Consumbrated Land was
Dual Numbered Courses	Geog 310 Soil Geography and Land-use
GE 492-592 Special Engineering Problems1-3	Interpretation
This course will provide individual students the opportunity to pursue	Relationship of soil characteristics and soil classification to land use
technical design problems, extensive literature searches, and individual	interpretations. Laboratory exercises involve field and laboratory
study of new and timely subjects within the fields of Physical Science and	procedures used in soil survey investigations. Field trip. May count
Engineering. P, junior or senior standing in Engineering and consent of	toward Geography major. P, 132, or PS 212 or consent of instructor.
instructor.	Crosslisted with PS 310.
GE 493-593 Special Topics in General Engineering1-3	Geog 310A Soil Geography and Land-use Interpretation Studio1
	Geog 313 Geography of Latin America3 F
Timely topics relating to Physical Science and Engineering. P, junior or	Topical study of Latin America, including: perceptions, myths, and
senior standing in Engineering and consent of instructor.	realities; the physical environment and its importance; aboriginal and
•	European history; Latin American institutions; contemporary Latin
Graduate Courses	America's population, political, economic, and social conditions;
	regional overview and global relations.
GE 525 Risk/Loss Control Management3	Geog 314 Geography of the Former U.S.S.R3 S (odd years)
GE 543 Project Management	
GE 601 Technical Studies in Industrial Management3	Appraisal of the physical resource base of Russia and estimates of
GE 603 Designing the Workplace for Production3	industrial and agricultural strengths.
GE 610 Human Factors in Engineering and Design3	Geog 315 Geography of Europe3 F (even years)
GE 620 Industrial Safety3	A regional and topical analysis of the geographic patterns of western and
GE 692 Special Problems in Engineering1-3	eastern Europe. Special attention given to the British Isles, Scandinavia,
GE 693 Special Topics in Engineering1-3	the Low Countries, Germany, France and Mediterranean Europe.
GE 790 Thesis1-7	Geog 316 Geography of Asia3 F (odd years)
GE 791 Thesis Sustaining0	Asian nations, physical and cultural environments, their role in world
GE 792 Research Report/Design Paper1-2	relations.
GE 793 Special Topics in Engineering1-3	Geog 317 Geography of Africa3 S (odd years)
GE 795 Research or Design Paper Sustaining0	Major natural regions of the African Continent of emerging nations.
GE 797 Research1-9	Activities and customs of the native tribes and how they have responded
GE 177 Research	to European influences. Africa's position as a storehouse of raw
	materials.
Coog (G	Geog 337 Atmospheric Sciences3 FS
Geog (Geography)	Systematic methodological investigation of the meteorological elements
Undergraduate Courses	(weather, climate, altitude, etc.) and their effects on geographic features.
Geog 131 Physical Geography I4 FS	Geog 338 Astrogeography
An introduction to the physical patterns of the Earth. Location, Earth-sun	Planet Earth; its position, form and size; movements; latitude, longitude,
relationships, portrayal of the Earth, cartographic analysis, weather and	and time; relation of the moon; the seasons; the calendar; the planets,
climate phenomena, along with the scientific method and consideration	stars, galaxies; universe.
of cultural diversity factors from the Native American and other	Geog 339 The Earth's Landforms2 F
perspectives.	Surface features. Continental landforms with their flood-plains, deltas,
Geog 131A Physical Geography I Lab0	lacustrine, glaciers, coastal plains, marshes and dunes. One's relation to
Geog 132 Physical Geography II4 FS	these landforms will be emphasized.
A continuation of Geog 131 focusing on: location, cartographic analysis,	Geog 343 Environmental Disasters and Human Hazards3 S
basic geographic patterns, landforms (genesis, development, situation) in	An in-depth examination of various geophysical events (earthquakes,
various physical environments plus soil and vegetation patterns and	volcanic eruptions, tsunami, earth failures), meteorological events
environmental relationships with consideration of cultural diversity	(floods, severe storms - tornadoes, hurricanes, blizzards, lightning) and
factors from the Native American and other perspectives.	human induced disasters (technological failures involving dams, nuclear
Geog 132A Physical Geography II Lab0	power plants, etc.). Attention given to people's responses and their
Geog 200 Intro to Human Geography3 FS	interactions with the environment plus prevention and amelioration
Systematic study of world culture from perspective of five integrating	efforts.
themes: cultural region, cultural diffusion, cultural ecology, cultural	Geog 351 Economic Geography3 S (even years)
integration, and cultural landscape. Topics include population,	World wide distribution of economic activities and their physical bases.
agriculture, political and economic systems, religion and language, folk	Agriculture, mining and manufacturing industries and their important
	commercial products and role in world trade.
and popular culture, and ethnicity.	Geog 363 Rural Geography3 F (even years)
Geog 210 World Regional Geography	Character of American countryside as shaped by private and public
The differentiation of the world in terms of both natural and human	
environmental features and characteristics on a regional basis.	decision-making processes. Case studies of major U.S. and European
Geog 212 Geography of North America3 F	rural planning efforts to understand the present landscape and the
A regional and topical analysis of the geographic patterns of the United	problems of rural populations.
States and Canada. Focus is upon the interaction of groups of people with	Geog 365 Land Use Planning
the natural environment to produce regional differentiation. Geographic	Geographical patterns of human occupancy, land tenure, land division
aspects of the physical geography, population, culture groups, economy,	and land usage. Emphasis on North America and the Upper Midwest.
settlement system, land division, and use of natural resources.	Significance of these patterns in environmental, resource utilization and
Geog 219 Geography of South Dakota3 S	land use planning. P, 200 or 212 or 219.
Provides an in-depth study of the physical, cultural, and economic	
characteristics of the state, including an analysis of past, present, and	
prospective cultures and economies, dating from early Native American	

prospective cultures and economies, dating from early Native American settlement through the present time period.

Geog 382 Geographic Research Methods	Geog 487 Geographic Information Systems I
A survey of geodesy, the science which determines the size and shape of the earth, the exact location of points on the earth's surface, and the measurement of terrestrial gravitation. P, Math 113, 120 or consent. Geog 400 Cultural Geography	programs off campus may enroll for and receive a total of 1-6 semester hours of credit. In no case will the credit granted exceed one per week nor a total of six. In the case of independent experience, the specific amount of credit to be granted, and the conditions established (projects, etc.) will be set prior to the student's departure, in consultation with the supervising instructor and with the approval of the appropriate department chairperson and dean.
Geog 425 Population Geography3 S99	Dual Numbered Courses
Geographic analysis of such population characteristics as: numbers and distribution; growth and change; composition; mortality, fertility, and theories of population change; policy and family planning; migration and mobility; population, environment, food supply, and human well being. Problems and prospects are considered in the context of each topic. Geog 447 Geography of the Future	Geog 406-506 Seminar in Systematic Geography: (Topical)1-4 FS Will deal with one or more aspects of human, economic, physical, population and historical geography or techniques. May be repeated for credit. The specific topic to be studied will change each semester. Geog 415-515 Environmental Geography

merging and projecting raster data sets, DEM displays including image drapes and other visualizations, overlay functions, hydrologic modeling tools and applications, visual analyses, friction and dispersion models and change detection studies. Students are expected to complete an individual/small group project in Arc View or ARC/INFO with a raster data component during the course.

Graduate Courses

Geog 610 Topics in Geography Education1-4
Geog 620 Advanced Regional Studies in Geography:
(Topical)1-4 FS Geog 700 Seminar in Geography: (Topical)1-4
Geog 700 Seminar in Geography: (Topical)1-4
Geog 710 Evolution of Geographic
Thought3 (every third semester)
Geog 714 Research and Writing3 S
Geog 732 Geomorphology3 S01
Geog 734 Climatology3 S (odd years)
Geog 742 Cultural Geography3 F98
Geog 752 Urban Geography3 (every third semester)
Geog 765 Advanced Studies in Land Utilization:
(Topical)1-4 F (even years)
Geog 770 Advanced Geographic Techniques: (Topical)1-4 FS
Geog 785 Quantitative Methods in Geography3 F
Geog 786 Geographic Information Systems3 S
Geog 790 Thesis1-7
Geog 791 Thesis (Sustaining)0
Geog 792 Special Problems in Geography: (Topical)1-4
Geog 793 Internship1-3
Geog 794 Research Paper in Geography1-3
Geog 795 Research Paper Sustaining0 FSSu
Corm (Common)
Germ (German)
Undergraduate Courses
Germ 101-102 Introductory German I-II4 FS
Study of the fundamentals of the German language aimed at preparing the
student to understand, speak, read, and write simple German.
Come 201 202 Intermediate Common I II
Germ 201-202 Intermediate German I-II
Goals of introductory German continued with emphasis on modern
cultural aspects of Germany speaking countries. Reading and speaking
skills are emphasized. Students pursuing a German major or minor are
encouraged to enroll in 311-312. P, 102 or equivalent.
Germ 311-312 German Composition & Conversation2 FS
Development of proficiency in German composition and conversation
focusing on typical situations in everyday German life. P, 202 or
concurrent. Germ 353-354 German Literature I-II3
concurrent. Germ 353-354 German Literature I-II
concurrent. Germ 353-354 German Literature I-II3
concurrent. Germ 353-354 German Literature I-II

Germ 490 Independent Study1-3 Readings and discussions in German as directed by the instructor. May be repeated for credit. P, 202 and consent of the instructor.
Germ 493 Topics in German2-3
Special courses designed to complement the existing curriculum in such
areas as business, politics, economy, literature, and history of the language.
Graduate Course Germ 592 Special Problems1-3 FSSu (alternate years)
Germ 372 Special Fromenis Post (alternate years)
Gero (Gerontology)
Undergraduate Course
Gero 201 Introduction to Gerontology
Dual Numbered Courses
Gero 492-592 Independent Study in Gerontology1-3FSSu Individual study for quality students. May be repeated for a total of 4 credits. P, consent of instructor.
Gero 493-593 Current Topics in Gerontology1-3
Selected topics of current interest and concern in gerontology.
GR (General Registration)
Old (General Hogistinson)
GR 101 Academic and Career Exploration
The course applies developmental theory to assist students in exploring career and major options and help them prepare for academic, career and employment transitions. Includes 15 lecture hours and up to 8 out of class advising sessions. GR 101A Academic and Career Exploration Small Group

Emphasis on social and emotional needs of individual and family. Open

to students of all majors.

HDCF 150 Early Experience2 FS	HDCF 361 Methods/Materials Early Child Education4 FS
Experiential-based introduction to professional contexts within early	Applications for early childhood classrooms will be studied and explored.
childhood education (ECE) and/or human development and family	Methods that are both developmentally appropriate and inclusive for all
studies (HDFS). Students serve as volunteers in community-based human	children from birth to age 8 will be discussed. Hands-on activities and
services and educational settings, shadowing professionals to better	their application to children's positive development will be examined and
understand professional roles and opportunities.	demonstrated. P: completion of 327, 328. Admission to PS II concurrent
HDCF 150A Early Experience Clinical Experience0	with 362.
HDCF 210 Lifespan Development3 FSSu	HDCF 362 Early Childhood Education Curriculum 4 FS
Study of the changes that take place during an individual's life, from	Curricular models that have evolved from historical and theoretical bases
conception till death. Emphases on theory, psychosocial, biosocial, and	will be studied. Rules and regulations, ethical standards, as well as
cognitive development.	principles of developmentally appropriate practice that are inclusive for
HDCF 241 Family Relations3 FS	all children from birth to age 8, will be discussed. An emphasis will be
A survey course of family development across the lifespan including the	placed on multicultural perspectives. P: Completion of 327, 328:
study of the family as a system, family interaction and family roles.	Admission to PS II: concurrent with 361.
Consideration is given to the cultural diversity and heritage of families.	HDCF 364 Parent/Child Relationships in a Professional
HDCF 250 The Development of Human Sexuality3 FS	Context3 FS
A basic course which explores the biological, behavioral, and cultural	The focus of this course is effective communication with families through
aspects of human sexuality. The course focuses on individual sexual	a parent education needs assessment, parent education programs,
development, interpersonal aspects of sexual behavior and social/cultural	conferencing, parental involvement in schools, newsletter development,
values and beliefs about sexuality and sex roles throughout the lifespan.	and interaction with other agencies for referral purposes. P: 327.
HDCF 293 Current Topics1-3	HDCF 371 Infants and Toddlers: Developmentally Appropriate
Study of current issues and concerns in human development and family	Practices3 S
studies. Focus on topics not included in other courses in the department.	In-depth study of developmentally appropriate practices for infants/
P, consent of instructor.	toddlers (birth-3 years). Students learn to plan developmentally
HDCF 327 Human Development and Personality I:	appropriate and integrated learning experiences for infants/toddlers that
Childhood	facilitate development and learning in all areas: cognitive, language,
Knowledge and understanding of human beings through study of	physical, social, emotional, and aesthetic. Curriculum areas will include
development beginning at conception continuing to adolescence.	language development, health, safety, nutrition and infant stimulation.
Consideration given to biological growth, social, emotional and intellectual development as it changes behavior and shapes the individual.	Students will apply this curriculum in a practicum experience.
HDCF 328 Experiences with Young Children 3 FS	HDCF 400 Orientation to Cooperative Elementary Education
(By Reservation Only)	Program
Opportunity to more fully understand children as well as oneself and	This course is designed as an orientation to the cooperative elementary
other adults while observing and working with children in Pre-School	education program at DSU or BHSU. Procedures and requirements
Laboratory. P, 327 with grade of "C"; grade of "C" or better in Psyc 101,	related to the cooperative program are presented and discussed. Students
Soc 100, Engl 101, SpCm 101. Sophomore level.	will be required to enroll in the course the semester immediately preceding their departure to the cooperating institution as well as each
HDCF 337 Human Development and Personality II:	semester they are in residence at DSU or BHSU.
Adolescence	HDCF 414 Research Applications in HDCFS3 FS
Knowledge and understanding of adolescence within the developmental	The study and application of research and methods appropriate for the
framework. Dimensions of physical growth, biological changes, social,	study of children and families. Emphasis on participation of students in
intellectual and emotional development will be considered, as well as the	research design, data collection and communication of results. P, 327 and
impact of interaction of these forces on the individual. Emphasis is upon	241 or 341, and Math 102 (or higher).
normal developmental patterns.	HDCF 441 Prof Issues Child and Family Study3 FS
HDCF 341 Family Theories 3 FS	Study of professional issues in the Child and Family Studies field. Course
Various theoretical approaches to marriage and family. Explores strengths	materials are inclusive of public policy, advocacy, leadership,
and weaknesses, similarities and differences among theories. How each	professional development and ethics and workplace issues.
theoretical framework influences views and approaches to marriage and	HDCF 455 Administration and Supervision in Early Childhood
family issues. P, 141, 241.	Settings3 S
HDCF 347 Human Development and Personality III:	Exploration of issues surrounding the administration of early childhood
Adulthood3 S	programs including identification of community needs, evaluation and
Developmental approach to Human Development across adulthood.	appropriate use of space, equipment and materials, and policy and legal
Emphasis on the physical, biological, intellectual and emotional changes.	responsibilities. Exploration of staff selection, training and supervision.
Impact of change upon the personality, self-concept of the individual and	P, 328, 361, 362.
their effects upon social behavior, productivity and personal	HDCF 465 Introduction to Developmental Assessment of Young
relationships.	Children 3 FS
HDCF 350 The Helping Relationship 3 FS	Experiences to increase awareness of and knowledge about a variety of
An introduction to the personal and interpersonal skills required for the	assessment procedures appropriate for use with children from birth
development of effective helping relationships. Consideration of	through eight years of age. Advantages and limitations of assessment
relational and group dynamic issues relevant to work in educational and	techniques noted; considerations used in the interpretation of findings
social service settings.	and in making referrals discussed. Includes opportunities to work with
HDCF 355 Prevention Programs in Human Development and	assessing preschool age children and in developing prescriptive activity
Family Studies	plans. P, 327 and 328 or equivalent, concurrent with 472.
Principles and application of methods used in the design of programs to	HDCF 466 Early Childhood Special Education I
enhance the development of individuals and families. Strategies used in	This course is the first in a two-course sequence which will provide
program evaluation examined. Consideration of model programs	undergraduate level students in Early Childhood Education and other
currently developed. P, 241, 327, 341.	related fields with an overview of current issues, theories and practices in

early childhood special education (ECSE). Historical, philosophical and Hist (History) attitudinal perspectives will be investigated, along with examination of service delivery models and legal issues as related to children (birth-8 **Undergraduate Courses** vears) with special needs and their families. A survey of disability Hist 121 History of Western Civilization to 1650 3 FS characteristics will also be included. The changing roles of professionals Introduction to the major developments, events, and personalities in and families of young children with special needs within a culturally western civilization from the beginnings through the Thirty Years War sensitive and ecological perspective will be incorporated. P, 241, 361, (1648).362, 364. Hist 122 History of Western Civilization since 16503 FS HDCF 467 Early Childhood Special Education II3 S Survey of western civilization from the Thirty Years War to the present. This course is the second in a two-course sequence which will provide Hist 151 U.S. History to 1877 3 FS undergraduate level students in Early Childhood Education and other Consideration of main themes, events and personalities in American related fields with an overview of the following current issues in early history from beginning to 1877, using political, social and economic childhood special education (ECSE): risk determinants, disability perspectives. characteristics, medical issues, prevention, intervention and adaptations. Hist 152 U.S. History since 1877...... 3 FS Teaming, family/professional roles within a culturally sensitive and Consideration of main themes, events and personalities in American ecological perspective will be incorporated. P, 465, 466. history from 1877 to present, using political, social and economic **HDCF 472 Student Teaching in Preschool** perspectives. Programs8 FS (by reservation only) Hist 322 Greece and Rome3 Planning and conducting various phases of early childhood programs. Emphasis on Greek culture and Athenian democracy, the rise and failure Student takes increasing responsibility, finally taking complete charge of of the Roman Republic, the development of the Roman Empire through the program. Weekly conferences. P, grade of "C" in 327, 328, 361, 362, the reign of Augustus. concurrent with 465. (Note: Admission to PSIII required.) Hist 323 Roman Empire and The Early Church 3 **HDCF 487 Orientation to Child and Family Services** The development of the Roman Empire from the late first century B.C. to Practicum1 F the end of the fifth century A.D. The political, economic, social, and Orientation to Child and Family Services Practicum will identify cultural systems of the Empire will be considered as well as the "decline expectations of the experience. Students will develop written and verbal and fall of Rome." Major attention will be given to the origins and growth communication skills necessary to obtain a practicum and work site. of the Christian Church. Students will investigate and locate an appropriate practicum site and set Hist 325 Medieval Europe3 professional and educational goals for the practicum experience. P. Junior Western Europe from 300-1400 A.D. Primary consideration given to The standing and consent of instructor, to be taken prior to HDCF 497. Fall of Rome, the church, feudalism, revival of cities, commercial HDCF 497 Practicum.....1-12 FSSu (by reservation only) revolution, rise of universities, early development of nation states. Field experience with agencies delivering social services to children and Hist 326 Renaissance and Reformation3 families. P, instructor's consent. A study of the major European political powers in the 14th-16th centuries. The course will examine the dramatic changes in politics, **Dual Numbered Courses** society, religion, economics and world view occasioned by the HDCF 457-557 Family Assessment3 FS phenomena known as the Renaissance and the Reformation. Designed to introduce students to individual, family and community Hist 328 Europe in the Age of Louis XIV, 1648-1789...... 3 A study of the emergence of the modern nation states of both Eastern and assessment tools that are used in prevention and intervention programs and approaches. P, senior or graduate student standing. Western Europe, concentrating on the development of the French, HDCF 492-592 Special Problems1-3 FSSu English and Russian nations. The role of absolutism, mercantilism and Individual study for quality students. P, consent of instructor. militarism will be considered. HDCF 493-593 Current Topics 1-3 Hist 329 The French Revolution and Napoleon, 1789-1848 3 Study of current issues and concerns in human development, family A study of the major changes in the European political powers due to the therapy, and family studies. Focus on topics not included in other French Revolution and the emergence of Napoleon. The effects of the graduate courses in the department. P, consent. Can be repeated. Congress of Vienna will also be evaluated. Hist 331 Nineteenth Century Europe, 1815-1914....... 3 A study of changes brought about by the French Revolution and the era **Graduate Courses** of Napoleon. Nationalism, romanticism, and the complex shifts in HDCF 614 Adult Development3 F politics of the major European powers will be covered. The economic and HDCF 665 Parent Education: Theory and Issues 3 social implications of the second Industrial Revolution will also be **HDCF 676 Early Childhood Education, Administration** and Practicum1-4 Hist 340 Ireland since 1800...... 3 HDCF 702 Seminar...... 1-3 (on sufficient demand) An examination of the political, social, cultural, and economic history of HDCF 711 Child Development Theory and Application3 S Ireland from the Act of Union with Great Britain to the present. Among HDCF 742 Family Relations 3 F the topics covered are the struggle for Catholic rights, the Great Famine, HDCF 753 Family Public Policy 3 S (alternate years) emigration, land reform, Irish nationalism, the partition of Ireland, HDCF 777 Child and Family Counseling3Su (alternate years) Ireland as an independent nation, and the conflict of Northern Ireland. HDCF 792 Special Problems 1-3 Hist 341 English History to 1688 3 HDCF 793 Current Topics...... 1-3 British history from the Roman occupation to The Glorious Revolution. Hist 342 English History since 16883 A study of the political and cultural history of the British Isles and the Empire to the present.

From the earliest times to present. Treats cultural and social as well as

political aspects.

Hist 346 History of Conada	TYP-4 ONC TYP-4 OCC TO
Hist 346 History of Canada	Hist 376 History of S.D.
A study of the growth of Canada from pre-Columbian and European	Physical environment, Native American presence, European settlement,
explorations to the present. Emphasis is placed on the history of French	economic developments, political institutions, and social life.
Canada, the fur trade and development of the West, the country's struggle	Hist 377 Economic History of the U.S 3 F
to overcome ethnic, cultural, and regional differences, the impact of	Emphasis on economic factors but also correlated political and social
colonialism and continentalism, and the rise of a national spirit.	developments, colonial period to present.
Hist 349 Women in History3	
	Hist 378 Social History of the U.S.
This course will investigate the role of women in the history of the	Aspects of social development, with major emphasis on the period since
western world. It will attempt to discover what impact women have had	the Civil War. Themes include gender, class, race, family, education,
on the course of events. Selected women and their careers will be	religion, leisure, music, arts, and values.
highlighted. The course will focus on either European or American	Hist 380 Methods & Philosophy of History3 S
women at the discretion of the instructor. Crosslisted with WmSt 349.	How historians research and write history. Also an account of attempts to
Hist 350 Colonial History of the U.S.	explain larger meaning and directions of history. P, junior standing,
Establishment of the British colonial empire in North America, settlement	required of majors.
of the 13 colonies and the growth of the British-American colonies to the	
end of the French and Indian Wars.	Hist 401 History of Western Religious Thought I3 F
	This course surveys important issues in western religious thought from
Hist 352 Revolutionary & Early National Period in U.S. History,	first century Christian origins through the "great medieval synthesis" of
1763-1800	the thirteenth century. While both Jewish and Islamic developments are
Causes of the American Revolution, War for Independence, Articles of	examined, emphasis is placed upon emergence and growth of Christian
Confederation, Constitutional Convention of 1787, establishment of the	doctrine and ecclesiology. Crosslisted with Rel 401.
Federal Union and early years of the Republic.	Hist 402 History of Western Religious Thought II3
Hist 353 Division and Reunion, 1840-18763	This course surveys important issues in western religious thought from
Development of the ante-bellum South; social, political, and economic	"great medieval synthesis" of the thirteenth century through the
factors leading up to the outbreak of the Civil War; Reconstruction period	
	Reformation and Counterreformation of the sixteenth century. While both
and problems of the post war nation.	Jewish and Islamic developments are examined, emphasis is placed upon
Hist 354 The Age of Jefferson and Jackson, 1800-1840	the development of Christian doctrine. Crosslisted with Rel 402.
Jefferson's administration, War of 1812, Jackson's administration.	Hist 418 History of Latin America3
Hist 355 American Civil War3	A study of the national development of Mexico, Argentina, Chile, Brazil
A critical appraisal of the ideas, significant encounters and creative	and Cuba in the 19th and 20th centuries.
processes which affected the manner in which Americans made war from	Hist 420 Contemporary Europe 3
1861 to 1865. The technological and the operational aspects of the war	During the course of the twentieth century, Europe held political and
will be the primary concern, although personalities will not be neglected.	cultural dominance. Two global wars, an ideological cold war, the end of
Hist 356 U.S. Rise to Power 1877-1920	
	colonialism and the rise of global economics eliminated that pre-
Examination of political, economic, social, and cultural developments in	eminence. This course covers the history, politics and culture of Europe
the U.S. from 1877-1920. Emphasis on urban and industrial growth,	from 1890 to the present.
reform movements, imperialism, war.	Hist 440 Nazi Germany3
Hist 357 America Between The Wars, 1918-19413	The period from the establishment of the Weimar Republic after World
Major political, social, economic, and cultural developments in the U.S.	War I through Adolf Hitler's Third Reich ending in 1945, is examined.
during the crucial decades of the 1920s, 1930s.	Political, social, economic, cultural, and military aspects of this era in
Hist 358 The U.S. Since 1941	German history are covered.
Social, economic, and political change. The consequences, domestic and	Hist 447 Modern Germany3
foreign, of global power and rising affluence.	Examination of German history in the 19th and 20th centuries. Emphasis
Hist 362 History of the American West	
	on the formation of the German nation, Bismarck, development of the
From exploration and colonization of the North American continent	German empire, WWI, rise of Hitler, Nazi Germany and WWII.
through closing of the frontier. Includes routes of migration, cattle	Hist 467 U.S. Foreign Relations (20th Century) 3
frontier, mining frontier, Indians, pioneer farmers, mechanized farming,	An interpretative analysis of American foreign policy from 1492-1992.
urban frontier, and the effect of the frontier on the American character.	Emphasis will be on the manner in which ideology, domestic political
Hist 365 American Military History	concerns and intergovernmental connections determined how the United
A study of the military art as practiced by the United States. The relation	States conducted its relations with the world from the Revolutionary War
between the armed forces and other government agencies will also be	through Operation Desert Storm.
examined from the colonial period to the present.	Hist 492 Special Problems in History 1-4 FSSu
Hist 368 History of the American Indians3	
American Indian history with special emphasis on regional Dakota	Opportunity for qualified students to investigate special problems or
	carry out independent study under supervision of department staff. Major
cultures. Topics include pre-historic origins and cultural evolution, history	or minor status.
of Indian-White contacts, federal Indian policy, tribal sovereignty issues,	Hist 493 Topics in History1-5 FSSu
cultural diversity, values, traditions, persistence and change in tribal	Selected topics of current interest in the discipline. Major or minor status.
cultures, historical overview of Indian education, current education issues,	Hist 495 Internship1-12 FSSu
contemporary socio-economic conditions. Crosslisted with AIS 368.	Planned and supervised professional experience related to history which
Hist 371 European Ethnic Groups in the U.S3	takes place outside the formal classroom with private business, industry,
An examination of European ethnic groups in America from colonial	or public agencies. Major or minor status.
times to the present with the chief emphasis being on the period from	or provide aboutous transpor of fitting status.
1820 to 1930. Among the topics covered will be the causes of	Dual Numbered Co
	Dual Numbered Courses
immigration, the development of ethnic communities in America, and the	Hist 460-560 Topics in History1-4
impact of immigrants and their descendants on American society.	An intensive examination of significant historical themes, issues, or
Particularly attention will be paid to the ethnic groups who settled in	problems.
South Dakota	•

South Dakota.

Condition Comment	Tto 220 Londonno Mointenano
Graduate Courses	Ho 220 Landscape Maintenance
Hist 592 Special Problems in History1-3 FSSu	plants and turf in commercial and residential settings. Topics to be
	covered include turf selection and establishment, mowing, aerating, tree
	and shrub transplanting, pruning, fertilizing and other plant health care
Hlth (Health Education)	practices. P, 111.
•	Ho 220A Landscape Maintenance Lab
Many courses listed with the Hlth prefix are crosslisted with the same	Ho 230 Greenhouse and Nursery Crops
number under the Health Science (HSc) prefix, College of Nursing.	General greenhouse and nursery production and management principles.
I'm domano divoto Commana	Topics to be covered include harvest and post-harvest care,
Undergraduate Courses	environmental management, site selection, structures and integrated pest
HIth 120 Community Health2 FS	management. P, 111.
See HSc 120.	Ho 230A Greenhouse and Nursery Crops Lab0
Hith 212 Contemporary Health Problems	Ho 240 Fruit and Vegetable Crops3 S (odd years)
See HSc 212.	Survey of vegetable and fruit crop distribution and production in
HIth 250 First Aid	temperate climates. Various topics include site and soil selection, factors
emergency care frequently. Provides essential knowledge and skills	affecting plant growth, cultural practices and integrated pest
needed to develop the functional first aid capabilities required by a basic	management. P, 111, Bio 101.
first aiders as well as nurses, teachers, athletic trainers, and other special	Ho 240A Fruit and Vegetable Crops Lab0
interest groups.	Ho 250 Woody Plants: Trees
HIth 250A First Aid Lab0	Nomenclature, identification and classification of hardy coniferous and
HIth 262 Instructor Course Home Nursing1	deciduous trees. Landscape use as affected by inherent ornamental
Workshop of 36 hours in effective methods of teaching home care of the	qualities, hardiness, environmental factors, and pests. P, 111, Bio 101.
sick. Limited to 14 students. P, consent.	Ho 250A Woody Plants: Trees Lab 0
Hlth 295 Allied Health Technical Training 20-48 FSSu	Ho 260 Woody Plants: Shrubs and Vines2 S
Designed to facilitate transfer of students who have completed a one or	Nomenclature, identification, and classification of shrubs and vines hardy
two year regionally or nationally accredited or certified program in an	for the Northern Plains. P, 250 or consent.
allied health area. The purpose is to provide transfer of previous work	Ho 311 Herbaceous Plants
into an upward mobility option for students who have a commitment to	Identification, description, landscape uses, propagation, culture and
an allied health profession.	adaptability of selected non-woody ornamental plants with emphasis on
HIth 302 Wellness and the Family2	annuals, perennials and indoor plants. P, 111, Bot 201, or consent. Ho 311A Herbaceous Plants Lab
Planning for promotion of family health. Open to all students.	Ho 312 Plant Propagation3 S(even years)
Hlth 364 Emergency Medical Technician4 S	Fundamental anatomical and physiological principles and methods of
This course develops skills in symptom recognition and in all emergency	reproducing herbaceous and woody plants by seeds, cuttings, grafts,
care procedures and techniques currently considered to be within the	layers and division. P, 111, Bot 201, or consent.
responsibilities of an EMT providing emergency medical care with an	Ho 312A Plant Propagation Lab0
ambulance service. The EMT course follows State EMS guidelines and	Ho 314 Turf Management3 F
consists of 25 lessons involving a minimum of 80 hours of classroom and	Maintenance and culture of turfgrass for lawns, parks, golf courses,
field training, plus 10 hours of in-hospital observation and training. Hlth 364A Emergency Medical Technician Lab	athletic fields and special purpose turf. P, 220, PS 213.
HIth 420 Methods of Health Instruction	Ho 314A Turf Management Lab0
Curriculum content at elementary and secondary levels. Methods of	Ho 316 Vegetable Growing 3 F (odd years)
presentation including direct, correlated, and integrated health	Methods used by home gardeners and commercial growers in vegetable
instruction. Organization of health and safety education. P, junior	production. P, 111 or PS 103.
standing.	Ho 383 Principles of Crop Improvement2
Hlth 440 Epidemiology 3 S	Evaluation of crop species, reproduction of crop plants, use of genetic
See HSc 440.	variability, traits of interest, breeding programs, designs and management.
Hlth 443 Public Health Science 3.FS	Heritability, plant introduction, vegetative propagation, hands-on lab
See HSc 443.	demonstration. P, 103-103A or 111-111A, and Bio 103-104, or Bio 153-
Hlth 480 Wellness Programming 2 S	154, or Bot 201-202. Crosslisted with PS 383.
Practical skills of a worksite and community wellness professional will	Ho 383A Principles of Crop Improvement Lab
be investigated. Topics include a definition of worksite wellness,	Small fruit and tree fruit culture. Fundamentals of cultural and
rationale for programs, types of programs, design, promotion, evaluation,	management practices in relation to soils, moisture, temperature,
marketing. P, instructor consent.	cultivars, pruning, rootstocks, growth regulators. P, 111, 240, Bot 201.
Hlth 480A Wellness Programming Lab0	Ho 411A Fruit Production Lab0
	Ho 412 Greenhouse Management3 S (odd years)
TT	Greenhouse construction, environmental control, production and
HO (Horticulture)	scheduling of major greenhouse crops. Trips to commercial greenhouse
	operations and laboratory work in green-house crop production. P, 230,
Undergraduate Courses	311, 312, Bot 201, and PS 213, or consent.
Ho 111 Introduction to Horticulture	Ho 412A Greenhouse Management Lab0
Culture and growth processes involved in production of fruit, vegetables,	•
flowers, lawn grasses, trees and shrubs; planning and care of home	

Ho 111A Introduction to Horticulture Lab0

Ho 413 Arboriculture	HPER 252 Motor Learning and Development
business management. Topics to be covered include nursery and garden	Curricula, intramural and athletic programs. Administration of facilities,
center design and organization, field and container crop production,	equipment and budgets. P, junior standing.
transplanting, pricing, and shipping techniques. The working relationship	HPER 451 Tests & Measurements in HPER2 F
between nurseries, landscape designers and contractors is also discussed.	Place of measurement in physical education. Analytical survey of tests
P, 111, PS 213.	and measures available; statistical approach, techniques and procedures
Ho 490 Seminar	in planning and administering tests and measurements. P, junior standing.
Required of all major students; limited to two credits. Ho 492 Problems1-2 FS	HPER 451A Tests & Measurements in HPER Lab0 HPER 453 Psychological Aspects of
Special investigation in horticulture area. Maximum four hours credit. P,	Coaching2 F (alternate years)
consent	Psychological aspects of sport specifically applied to coaching. Topics
Ho 493 Special Topics1-4 FS Ho 494-495-496 Cooperative Education/Internship/Field	include philosophy of coaching, leadership, communication, motivation and various intervention strategies designed to elicit optimal
Experience1-12 FSSu	performance.
a. Work experience in horticulture. Generally, one credit per semester or	HPER 468 Internship1-12
equivalent time unit. Consent.	Planned and supervised professional experience which takes place
b. Practical experience for selected Horticulture students. The project, program and grading criteria require approval by the department	outside the formal classroom with private business or industry, or public agencies. P, Hlth 250.
faculty. P, junior standing and must have completed 2 years of the	HPER 490 Senior Seminar 3 FS
Horticulture curriculum. Consent. Generally 3 cr. maximum.	Discussion of current issues, investigation of topics not covered in other
	classes, presentation and discussion of topics in HPER found in
Dual Numbered Courses	professional journals/related resources, planning for the internship, and
Ho 480-580 Environmental Stress Physiology S (even years)	various aspects of the job search. P, senior standing in HPER majors, HPER 180, consent. Crosslisted with RECR 414.
Physiological and cellular response of plants to environmental stresses. P,	HPER 492 Problems in HPER1-3 FS
Bot 327. Crosslisted with Bio 480-580 and PS 480-580. Graduate Courses	Directed studies and/or research activities related to HPER. P, consent.
Ho 590 Special Topics in Horticulture1-3 FSSu	HPER 493 Topics in HPER 1-5
Ho 746 Plant Breeding3	P, consent. HPER 496 Field Experience2 FS
	Provide student with professional experience related to their chosen field
	of study. P, Hlth 250.
Hon (Honors College)	D 1N 1 10
Hon 301 Honors Colloquium1-4	Dual Numbered Courses
History of ideas. May be repeated once.	HPER 481-581 Workshops in HPER1-3
Hon 302 Honors Colloquium1-4	Lectures, conferences, and outside assignments to increase understanding of a specific area.
The Arts. May be repeated once.	of a specific area.
Hon 303 Honors Colloquium1-4 The Social Sciences. May be repeated once.	Graduate Courses
Hon 304 Honors Colloquium1-4	HPER 682 Seminar in HPER
History and/or Philosophy of Science. May be repeated once.	HPER 742 Psychological Aspects of Sport and
Hon 492 Honors Directed Study 1-6	Exercise3 F (alternate years)
Creative work in student's area of interest subject to approval by the	HPER 745 Sports Medicine 2 SSu (alternate years)
Honors College Committee.	HPER 760 Motor Learning &
	Development
HDFD or 10 Pt 1 TF1 of 1 TF1	HPER 783 Research Methods in HPER
HPER (Health, Physical Education and	HPER 790 Thesis1-5 FSSu
Recreation)	HPER 791 Thesis Sustaining 0 FSSu
Undergraduate Courses	HPER 792 Individual Research & Study in HPER1-3 FSSu
HPER 180 Introduction to HPER3 FS	HPER 793 Special Problems in HPER1-3 FSSu HPER 795 Design/Research Paper Sustaining0 FSSu
An overview of the health, physical education, wellness/fitness and	111 ER 175 Design/Research Faper Sustaining
recreation professions primarily focusing on history, values, impact on	
society, and professional opportunities. Designed as an introduction to	
the HPER profession.	

HCC (Health Science)

Dual Numbered Courses

HSc 433-533 Industrial Health3 (every other fall-odd years) Industrial hygiene deals with the scope, objectives, and functions of

11SC (Health Science)	exposure to chemicals and physical agents which may cause discomfort,
Undergraduate Courses	stress, inefficiency or disease; emphasis on preventive measures to assure
· · · · · · · · · · · · · · · · · · ·	a reasonably healthful work environment.
HSc 120 Community Health	
Discussion-based course with the goal of understanding the philosophy	
and principles of community health. Emphasis on knowledge, attitudes	$\mathbf{ID}_{\mathcal{A}}$
and behaviors utilized in solving community health problems. Open to all	(Interior Design)
students. Crosslisted with Hlth 120.	Undergraduate Courses
HSc 212 Contemporary Health Problems	· · · · · · · · · · · · · · · · · · ·
Personal health education course which focuses on the health problems	ID 121 Interior Design Foundations
facing today's society from birth to death. Emphasis on the knowledge	Introduction to core concepts of design including aesthetics, creativity,
essential in maintaining a healthy lifestyle. Open to all students.	international design, and function. Theoretical applications to analysis of
Crosslisted with Hlth 212.	products and interiors. Overview of design specializations and related
HSc 253 Disaster Preparedness2 (on sufficient demand)	issues. Concurrent enrollment with ArtS 121.
Basic philosophy, fundamental principles of civil defense; citizen's role	ID 122 Design Graphics3 FS
in emergency planning for non-military national defense. Open to all	Introduction to the architectural symbol system. Ability to draft site,
students.	building, lighting, furnishings, and equipment plans and to interpret
HSc 262 Instructor's Course in Home Nursing	construction drawings. Introduction to perspective and axiomatic
1 (on sufficient demand)	drawings.
Workshop of 36 hours in effective methods of teaching home care of the	ID 150 Introduction to Interior Design I
sick. Limited to 14 students. P, consent.	Introduction to origins of design, to theory and processes, and to space
HSc 302 Wellness and the Family2 S	planning. Solving basic interior design setting problems. P, 121, Art 121.
Overview of health promotion as applied to the family throughout all	ID 151 Introduction to Interior Design II3 F
stages of development. Planning for promotion of family health. Open to	Introduction to furnishings, fixtures, and equipment, architectural
all students.	systems, and environmental concerns. P, 150.
HSc 420 Methods of Health Instruction 2 S	ID 230 Presentation Techniques3 S
Curriculum content and methods in health education. Emphasis on	Introduction to one- and two-point perspectives, various color rendering
elementary and secondary. Demonstration of teaching strategies.	techniques, composition of presentation boards, and oral presentation
Organization of health/safety education. The course will present an	techniques.
overview of the need for health education in schools as well as the	ID 231 Computer Aided Design2 F
teacher's role in promoting health instruction. Included will be strategies	Introduction to the basic principles of computer aided design. Experience
for planning, implementing, and evaluating health education for grades	with methodologies and basic commands related to two dimensional
K-12. Students will also be introduced to useful academic and	drafting. These skills will be applied to the virtual three dimensional
community resources.	world to see the design potential the computer allows.
HSc 440 Epidemiology 3 FSSu	ID 250 The Design Process3
This course provides information on the epidemiological concepts,	Introduction to the design problem-solving process as it relates to
principles, and methods for understanding the distribution and	presentation methods. Includes needs assessment, client profiles,
determinants of selected diseases, conditions and indices of health in	problem definition, space planning, diagramming techniques, developing
human populations. Factors that influence programs for prevention,	design concepts, and the integration of visual, oral and written
control and evaluation are analyzed. P, junior or senior standing or	presentation strategies appropriate to clients and projects. P, 122, 221 and
consent of instructor. Crosslisted with Hlth 440.	222.
HSc 443 Public Health Science3 FSSu	ID 250A The Design Process Studio0
Study of organization and administration of public and voluntary health	ID 260 Product Design3 S
agencies. Principle functions and program development in vital statistics,	Exploring elements and issues associated with the design of objects and
maternal-child health, adult health, sanitation, health education, and	spaces through modeling and three-dimensional representations with
special health programs. Introduces the student to public health by	emphasis on creativity. P, 250.
describing its history and its bases in sociology, economics, philosophy	ID 260A Product Design Lab0
and government. The relationship of environmental factors to health and	ID 293 Current Topics1-3
illness is examined. The course will provide the student with an	Discussion of current literature and issues. Investigation of topics for
understanding of administrative and political processes of operation of	which there is a current need but which are not part of any class. P,
health agencies by examining traditional and new innovative programs of	consent.
federal, state and local health agencies. Cost-benefit, cost-effectiveness,	ID 310 Interior Design Fabrics3 F (even years)
and risk assessment are addressed as in the relationship of public law and	Relationship of weight, color, texture, and the design of textiles in their
policies to the delivery of health care. Crosslisted with Hlth 443.	application in interiors. Review of textile history. Sources of traditional
HSc 452 Workshop1-4	and contemporary fabrics are explored. P, AM 342.
HSc 490 Seminar1-4	ID 310A Interior Design Fabrics Lab0
HSc 494-495-496 Cooperative Education/Internship/ Field	Design projects focused on fabric selections and applications for interior
Experience1-12	design.
Planned and supervised professional experience related to health science	ID 315 Materials and Product Specification3 (alternate years)
which takes place outside the formal classroom with private business,	Study of the characteristics of interior furnishings from raw materials to
industry, or public agencies. P, consent of department head.	finished products. Evaluation of quality characteristics of similar product
	types.
Dual Numbered Courses	ID 315A Materials and Product Specification Studio0

occupational health programs, examines work related diseases, harmful

YD 444 G 1 1 1 G 10 4	TD 400 500 C
ID 316 Codes and Specifications2 F (odd years)	ID 492-592 Special Problems1-3
Study and application of disability and life safety standards, of fire and	Problems for independent study selected according to special interests
building codes, and of environmental issues, plan specification writing.	and needs. Arranged by contract with instructor.
ID 319 Building Systems	ID 493-593 Current Topics1-3
Examination of structural systems of several building types plus support	Discussion of current literature and issues. Investigation of topics for
systems such as HVAC, electrical and plumbing. P, ID 250	which there is a current need but not part of any class. P, consent.
ID 319A Building Systems Studio	
ID 320 Color and Lighting Design F (even years)	
Issues and factors about the interaction of color and light. Fundamentals	La (Landscape Design)
of lighting are investigated including the impact of aesthetics and	
physical properties of color in a variety of interior spaces. Preparation of	Undergraduate Courses
lighting plans and specifications. P, 250, upper division student.	La 201 Introduction to Landscape Design3 FS
ID 320A Color and Lighting Design Lab0	Survey of profession of landscape design. Introduction to the principles
ID 322 Intermediate Interior Design I3 F	of landscape design with a focus on landscape appreciation, noteworthy
Introduction to the design process, developing skills specifying materials	works, and the design process.
for interiors. Application of design theory to practical situations. P, 250.	La 231 Introduction to LandCADD S
ID 323 Intermediate Interior Design II3 S	An introductory course in computer aided design and drafting with
Development of the basic knowledge and skills needed to specify	specific application to landscape design software applications. Emphasis
materials for interiors. P, 250, 322.	is placed on the practical application of CAD to site analysis, design
ID 417 Interior Design Practices2 S (alternate years)	problem-solving, design management, and professional communication
Study of the professional practices of interior design firms. Preparation of	toward the creation of site plans, cost estimates and working drawings for
specifications and installation documents. Review of installation	the landscape industry. P, EG 123 or consent.
procedures. P, 316, upper division student.	La 241 History of Landscape Architecture3 F (alternate years)
ID 422 Advanced Interior Design I3 F	History from early Egyptian to contemporary times. Styles viewed from
Experience in solving commercial design problems within the frame of a	the standpoint of aesthetic thought, societal and technological influences.
business. P, 323.	Works of major historical and contemporary designers will be stressed.
ID 423 Advanced Interior Design II	La 284 Graphics and Theory of Design4 S
Experience in solving design problems of commercial and contract	Basic free hand graphic techniques and design theory for landscape
interiors. P, 422.	design. Graphics used in landscape design (plan drawings, elevations,
ID 424 History of Interiors I3 F	isometrics, perspective and models). Form and spatial relationships are
Historical backgrounds: from Antiquity through the Renaissance.	stressed as applied to materials of landform, vegetation, water, and
ID 425 History of Interiors II3 S	architecture. P, ID 222, La 201.
Historical backgrounds: from Renaissance to present. P, 424.	La 314 Landscape Design Studio4 F
ID 431 Advanced Computer Aided Design2 F (alternate years)	Basic landscape design problem solving on smaller scale sites
Advanced problems in design using the computer. P, ID 231.	(residential, small commercial, rural and urban). Development of
ID 450 Shelter and Families3 (alternate years)	aesthetic sensitivity and awareness of site problems. Site analysis,
Cross-cultural study of world housing and furnishings practices. Relating	programming, concept formation, master plan development and plan
socio-cultural, aesthetic, technological and physical characteristics of the	presentation. P, La 284.
region to family living patterns.	La 322 Site Planning3 S
ID 472 Retailing3 F	Technical work in preparing grading plans, computing areas of cut and
Principles of retailing as applied to textiles, apparel and furnishings	fill, site selection, topographic analysis, soil and exposure analysis,
retailing. Study of customer demand, buying, inventory control and	surface and subsurface drainage, and pedestrian and vehicular
promotion. Field trip to market center is required.	circulation. P, CEE 106 or AST 333.
ID 477 Portfolio and Senior Exhibit2 S	La 323 Landscape Construction3 F
Revision and extension of portfolio materials in preparing for job-	Design and construction of walks, terraces, fences, walls, pools, and other
seeking. P, ID 422.	landscape structures and systems. P, 284.
ID 477A Portfolio and Senior Exhibit Studio0	La 324 Planning Public Grounds3 F
ID 487 Pre-practicum in Interior Design and	Contemporary problems in the design of public properties such as parks
Housing3 S	and civic areas. Complexities of functional use, pedestrian and vehicular
Discussion of professional practices, and issues. Experience in goal	circulation, and land use are addressed. P, 284.
setting, reporting, and evaluation. Organization and preparation of	La 324A Planning Public Grounds Lab0
professional documents and examination of current issues in the work	La 332 Residential Landscape Design3 S
place. P, 323, 472 or concurrently; GPA of 2.2.	
ID 497 Professional Practicum1-12 Su	Advanced theory and practice of residential design focusing on indoor-
Supervised work experience in a cooperating retail design firm or design	outdoor relationships, regional and functional design styles, and the
studio. Provides opportunities for interaction between business,	works of famous designers. P, 284 or consent. La 364 Planting Design and Specification4 S
community and the university. P, 487, 90 sem. cr. and consent of the	
department. Minimum GPA 2.2.	Preparation of planting designs, plans, and specifications for projects of
	increasing complexity. Emphasis on northern plains landscapes. Focus on
Dual Numbered Courses	use of native plants and sustainable design. Projects from small
	residential scale to larger regional scale. Design applications emphasizing
ID 473-573 Travel Studies1-5 Su	the space forming potential and functional use of natural and man-made
Study of businesses, museums and other relevant places through site	plant groups. P, 314 or consent.
tours and presentations in selected locations. Includes pre-travel	La 421 City Planning
orientation and post-travel written report. P, consent of department.	City planning in the United States, planning practice and theory, urban
	design, and land use planning. Local planning efforts observed. P, 322, 324.

Lak (Lakota) Undergraduate Courses Lak 101-102 Introductory Lakota I-II
Crosslisted with AIS 101-102. Lak 201-202 Intermediate Lakota I-II
Ling (Linguistics)
Undergraduate Courses
Ling 203 English Grammar3 S
Instruction in the theory and practice of traditional grammar including the study of parts of speech, parsing, and practical problems in usage.
Dual Numbered Courses
Ling 420-520 The New English
discourse theory.
Ling 425-525 The Structure of English
describing the English language. Practical application in teaching.
Strongly recommended for majors planning to teach.
Ling 443-543 Development of the English Language
Historical survey of phonology, grammar, syntax, and lexicon of English
leading to an understanding of the present state of the language and future developments.
Ling 452-552 General Semantics3 (alternate years)
Relations between symbols; human behavior in reaction to symbols
including unconscious attitudes, linguistics assumptions; and the objective systematization of language. Crosslisted with SpCm 552.
Ling 460-560 Applied Linguistics for Teaching English as a Second Language3
The study of social and linguistic structures which undergird the different discourse forms. Emphasis will be on discourse forms which are
particularly important for full participation in U.S. culture such as the
rhetoric of public and school interactions. P, Ling 203 or equivalent or instructor's permission. Crosslisted with Ling 460-560.
Moth as a second
Math (Mathematics)
Undergraduate Courses
Math 010 Basic Algebra3 FS Integers, Rational numbers, signed numbers, absolute values, and basic
operations. Solving algebraic equations and inequalities in one variable with applications. Basic operations applied to polynomials, special products and factoring. Algebraic fractions, square roots and radicals.
(Note: Remedial Level)
Math 101 Intermediate Algebra
granted to anyone who has previously received credit in Math 102 or 113. P, 1 unit of high school algebra.

Math 102 College Algebra	Math 271 Mathematical Applications with Computers
or 120. Math 120 Trigonometry	Math 327 Calculus of Several Variables
Math 123 Calculus I	Stokes' Theorem. P, 215, 225 or consent. Math 331 Advanced Engineering Math
theorem of calculus. P, 113 or placement. Math 143 Finite Mathematics	numerical methods. P, 321. Math 345 Topics in Discrete Mathematics
dimensional Euclidean space and their matrix representations. P, 113 or consent. Math 222 Calculus for Non-Math Majors	planning to teach. P, 224, 261, and SeEd 287. May not be used for upper division math elective for majors not in Secondary Teaching Option. Math 355A Methods of Teaching Mathematics Lab
applications of the derivative and integral. Credit will not be allowed for both Math 222 and 123. P, 102 or 113 or placement. Math 224 Calculus II	advanced topics. P, 253. Math 373 Intro to Numerical Analysis
integrals, Taylor's formula. P, 123. Math 225 Calculus III	Math 381 Mathematical Statistics
algebra. Instruction will use a problem solving approach with appropriate technology and is for prospective elementary school teachers. P, 102. Math 242 Mathematics of Finance	A capstone experience that includes readings from the mathematical literature, an oral presentation, and an assessment process. Open only to mathematics majors. P, 253. Math 411 Theory of Numbers
bonds, depreciation and capitalized cost. P, 102, or consent. Math 253 Elementary Logic & Set Theory	function, perfect numbers, Diophantine equations, congruences, Fermats theorem, Wilson's theorem, quadratic residues, primitive roots, Pell's equations, continued fractions, distribution of primes. P, 224, 253. Math 425-426 Intro to Real Analysis I-II
Axiomatic development of Euclidean and other geometries, coordinate geometry in two or three dimensions, transformational geometry, and informal Non-Euclidean geometry. Required of majors and minors planning to teach. P, 224, SeEd 287, or consent.	functions, uniform convergence, theories of integration. Extensions of R ⁿ may be considered. P, 225, 253. Math 433 Laplace Transform

Math 490 History of Mathematics3 S	MCom 160A Basic Photography Studio0
A general presentation of historical topics in mathematics including	MCom 210 Newswriting & Reporting3 FSSu
contributions to mathematics from ancient civilizations; developments	Gathering, evaluating and writing news. P, freshman English grade no
leading to the creation of modern geometries, calculus and modern	lower than C. Not open to freshmen without consent.
algebra; and contributions of outstanding mathematicians. P, 224 or	MCom 210A Newswriting & Reporting Studio0
consent.	MCom 212 Desktop Publishing3 S
Math 494-495-496 Cooperative Education/Internship/ Field	Basic principles, techniques, and technology of electronic layout and
Experience1-6 FSSu	production.
Planned and supervised professional experience related to mathematics	MCom 212A Desktop Publishing Lab
which takes place outside the formal classroom with private business or	MCom 213 Journalism Typography
industry, or public agencies. P, consent of department program	Fundamentals of effective visual communication in printed materials. Includes using type, design principles, illustrations, information graphics,
coordinator.	color, and printing processes.
	MCom 213A Journalism Typography Studio0
Dual Numbered Courses	MCom 261 Photojournalism2 FS
Math 421-521 Advanced Calculus I3 F	Photography as it relates to the media and the public. Emphasis on the
Math 422-522 Advanced Calculus II S	content and design of photo essays, legal and ethical aspects of
Math 423-523 Fractals and Chaos F	photography. P, 160.
Math 461-561 Intro to Topology3 S	MCom 261A Photojournalism Studio0
Math 466-566 Projective Geometry3 S (on demand)	MCom 310 Newspaper Editing2 FS
Math 471-571 Numerical Analysis	The evaluation and editing of news stories, with an examination of
Math 491-591 Directed Studies1-3 FSSu	editing problems, copy reading techniques, page makeup and design,
Math 493-593 Special Topics1-3	headlines, picture usage, legal and ethical issues. Must be taken
Craduata Comegas	concurrently with 311. P, 210.
Graduate Courses	MCom 311 Editing Laboratory
MAST 601 Mathematics Topics for Educators1-12 FSSu	Comprehensive experience in a laboratory setting with editing techniques. Students work with Associated Press wire service copy,
Math 672 Numerical Analysis 3 S Math 700 Seminar 1 FS (Pass/Fail)	electronic page design and layout techniques, picture editing and page
Math 716 Theory of Algebraic Structures I	composition. Must be taken concurrently with 310. P, 210.
Math 717 Theory of Algebraic Structures II	MCom 313 Publicity Methods2 FS
Math 726 Real Variables I	Newswriting, organizing publicity campaigns, press relations. (Cannot be
Math 727 Real Variables II3 S	taken for credit by journalism majors.)
Math 728 Complex Variables I3 F	MCom 314 Sales, Promotion & Marketing3 S
Math 729 Complex Variables II3 S	Promotion, sales, advertising, circulation, practices and theories of
Math 731 Ordinary Differential Equations3 S	marketing in advertising and graphic arts.
Math 732 Partial Differential Equations3 F	MCom 315 Magazine Writing & Editing3 F
Math 770 Numerical Linear Algebra3 S	Includes overview of the magazine industry, how to write and submit
Math 780 Advanced Mathematics1-18 FSSu	freelance articles. Students write and submit articles for publication and
Math 784 Applied Probability Theory3 S	edit a departmental magazine.
Math 790 Thesis	MCom 316 Public Affairs Reporting3 FS Covering and writing news of government, politics, economics,
Math 791 Thesis Sustaining0 FSSu (Pass/Fail) Math 792 Research Paper1-2 FSSu	education, and social issues at the local, county, and state level. P, 210,
Math 793 Advanced Topics1-3 FSSu	PolS 210 or consent.
Math 794 Research Paper Sustaining0	MCom 316A Public Affairs Reporting Studio0
Math 794 Research 1 aper Sustaining1-3 FSSu	MCom 330 Writing for Radio & TV3 S
Math 797 Research1-9	Preparation of continuities such as commercials, public service
MAST 601 Mathematics Topics for Educators1-12 FSSu	announcements, talks, interviews, drama, documentaries, and educational
	programs. Crosslisted with RTVF 330.
	MCom 330A Writing for Radio & TV Lab0
MCom (Journalism & Mass Communication)	MCom 331 Television Production3 FS
	Includes preparation and presentation of talks, interviews, discussion and
Undergraduate Courses	extension and community services for broadcast. Crosslisted with RTVF
MCom 130 Introduction to Radio & TV	331. MCom 231 A Television Production Lab
History, structure, regulations, and financial support; potentialities and	MCom 331A Television Production Lab0 MCom 332 Radio News Reporting3 FS
limitations; public responsibilities, impact on society. Crosslisted with	Radio news reporting, writing, editing and producing. Lab practice in
RTVF 130. MCom 151 Intro to Mass Communication2 FS	writing, audio tape, and delivery. Crosslisted with RTVF 332. P, 210 for
A comprehensive look at the mass media in the United States and the	majors; RTVF 330 for others.
world and how they work. Includes discussions of newspapers,	MCom 332A Radio News Reporting Studio0
magazines, radio, television, books, movies, recordings, advertising and	MCom 333 Television News Reporting3 FS
public relations. Also studies mass media rights and responsibilities,	TV news videography, reporting, writing and video editing. Lab practice
ethics and censorship. Recommended for journalism majors and minors.	with videotape. Crosslisted with RTVF 333. P, MCom/ RTVF 331, 332,
MCom 160 Basic Photography2 FSSu	or consent.
Beginning camera and darkroom techniques, including processing and	MCom 333A Television News Reporting Studio0
printing and digitizing black and white photographs. The student will also	
survey the field of photography and its uses.	
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MCom 335 Broadcast Programming	MCom 406-506 Public Opinion and Propaganda
analyze data. MCom 433 Advanced Television News Reporting	Graduate Courses MCom 653 Workshop in Communications
Visual Arts majors. MCom 472 Advertising and Media Research3 F	ME (Mechanical Engineering)
This course develops the ability to conduct and analyze advertising and media research, and to prepare and execute a comprehensive consumer or audience plan. MCom 473 Advertising Campaigns	Undergraduate Courses ME 240 Introduction to Mechanical Design

ME 312 Thermodynamics II	ME 413 Turbomachinery
ME 313 Analytical Thermodynamics	ME 415 Heat Transfer
Terminal course for non-mechanical engineering students. Fundamental equations of thermodynamics. Properties of gases and vapors. Thermodynamic cycles. Introduction to heat transfer. P, Phys 211, Math 225. ME 321 Fundamentals of Machine Design	Introduction to applied structural and thermal design and analysis using the ANSYS finite element software package. One-, two- and three-dimensional static structural problems modeled using the direct generation method as well as solid modeling techniques. Steady-state and transient thermal analysis are performed. Thermally-induced stresses and
Analysis of motion and design of linkages, cams, gears, gear trains, planetary gear trains. Analytic and graphical solution of positions, velocities, accelerations, static and dynamic forces. Balancing of engine mechanism, flywheels analysis. Synthesis of planar mechanisms and	displacements that occur in non-uniform temperature structures, solutions of two- or three-dimensional fluid mechanics problems, and optimization techniques are discussed. P, 415, EM 222, GE 123, or consent.
introduction to spatial mechanisms. Computer applications. P, CSc 213 or 218, EM 222, EM 321, ME 240. ME 322 Vibrations	ME 416A Computer-Aided Engineering Lab
freedom systems, matrix methods, vibration control and damping treatments. Introduction to continuous systems. P, EM 222, EM 321, Math 321. ME 341 Metallurgy	ME 419 Heating and Air Conditioning Design
Crystalline structure and physical properties of metals, phase transformation diagrams, effect of mechanical or thermal treatment on grain structure of ferrous and non ferrous alloys. Laboratory demonstrates fundamental principles and presents necessary techniques of metallography. P, 241 and consent.	ME 421 Design of Machine Elements Fundamentals of mechanics. Energy methods. Working stresses and failure in materials. Design considerations of basic machine elements – shafts, springs, belts, clutches, brakes, chains, gear, bearings, fasteners
ME 341A Metallurgy Lab	and flywheels. Lubrication. Classification of engineering materials. P, 321, EM 321. ME 428 Machine Design – Case Studies
setting time standards including stop watch time study, work sampling, predetermined motion times, and standard data. P, 362 or consent. ME 362 Industrial Engineering Modern industrial engineering. Planning, organizing and directing	Residual stresses and dynamic loading. Theories of failure. Design of components that form a complete working system. Design analysis of various current case studies. P, 421 or consent. ME 428A Machine Design – Case Studies Lab
industrial enterprises. Quantitative analysis of management problems in production planning and control, quality control, reliability, facility planning and PERT. Applications and examples from realistic situations. P, CSc 213 or 218, Math 381 or consent.	ME 431 Aerodynamics
ME 376 Measurements and Instrumentation	ME 451 Automatic Controls
Heating, ventilation and air conditioning systems, control and servicing. Refrigeration, plumbing systems and their maintenance. Fire and explosion prevention in buildings. P, 311 or consent. ME 411 Environmental Engineering	ME 456 Dynamic Systems Laboratory
steady-flow processes involving air-vapor mixtures. Heating and cooling load calculations. Basic air conditioning systems. Emphasis on systems design approach. P, 312, 415, EM 331, or consent. ME 412 Internal Combustion Engines	ME 461 Analysis & Design of Industrial Systems
Theory, design and operation of spark ignition and compression-ignition engines. Performance characteristics and efficiencies; combustion and thermochemistry of fuel-air mixture exhaust emissions as they pertain to air pollution. P, 312, EM 331.	ME 476 Thermo-Fluids Laboratory

ME 477 Mechanical Systems Design I
ME 478 Mechanical Systems Design II
coordinator. Dual Numbered Courses
ME 414-514 Air Pollution Control
ME 427-527 Gas Dynamics I
ME 440-540 Computer-Aided Design
Graduate Courses
ME 593 Special Topics
ME 621 Viscous Flow I

ME 641 Advanced Stress Analysis in Mechanical Design3

ME 645 Advanced Machine Design3

ME 661 Operations Research3

ME 662 Quality Control3

ME 663 Topics in Reliability Engineering3

ME 665 System Analysis	3
ME 667 Decision Theory	
ME 690 Special Problems	
ME 695 Special Topics	
ME 700-701 Seminar	
ME 790 Thesis1-7 (as arrar	iged)
ME 791 Thesis Sustaining	
ME 792 Research or Design Paper	
ME 793 Engineering Research or Design Paper Sustaining	0
ME 794 Special Problems	1-3
ME 795 Special Topics	
ME 797 Research	

MedT (Clinical Laboratory Technology)

Undergraduate Courses

Students are to register for this course during the summer, fall and spring semesters of their internship year. Credit is given by SDSU for coursework completed at affiliated hospital programs. The course descriptions below are common to most hospital programs. Register for a total of 40 credits.

Clinical Microscopy/Urinalysis

Lecture, supervised laboratory instruction, quality control, instrumentation, computer applications and experience in body fluids and urine in regard to chemical and cellular composition. Anatomy and physiology, theory of renal function in health and disease.

Clinical Hematology/Coagulation

Lecture, supervised laboratory instruction, quality control, instrumentation, computer applications and experience in the analysis of cellular elements of the blood and bone marrow, both normal and abnormal, and on the homeostatic mechanisms of the blood.

Clinical Microbiology

Lecture, supervised laboratory instruction, quality control, instrumentation, computer applications and experience in the isolation and identification of pathogenic organisms and their susceptibility to antimicrobial agents. Includes Bacteriology, Mycology, Parasitology, and Virology.

Clinical Serology/Immunology

Lecture on antigen/antibody structure-function-interactions, supervised laboratory instruction, quality control, instrumentation, computer applications, and experience in applying the principles of immunology to serologic diagnosis.

Clinical Chemistry/Radiobioassay/Body Fluids

Lecture, supervised laboratory instruction, quality control, computer applications and instrumentation, and experience in medically oriented biochemistry as applied to normal and abnormal physiology and analysis of body constituents. Includes analyses of special body fluids such as amniotic, synovial, cerebrospinal, gastric and pleural fluids. Includes special procedures utilized for toxicology, endocrinology and radiobioassay.

Clinical Immunohematology

Lecture, supervised laboratory instruction, quality control, instrumentation, computer applications and experience in theory and practice of immunohematology as applied to blood transfusion, component therapy, autoimmune diseases, immunologic diagnostic procedures and blood component preparation and administration.

Specialized Units

Management/Education/Research/Lectures and/or seminars on theory and techniques of laboratory oriented practice; principles of education and teaching methodologies; and research, scientific writing or projects in specialty areas of medical technology.

MNET (Manufacturing Engineering Technology)

Undergraduate Courses

MNET 131A Machining Technology Lab......0

Concurrent enrollment in MNET 131.

MNET 132 Welding Technology3

An introduction to welding processes used in industry and their usage, principles of operations, and production methods. Hands-on laboratory activities provide the students with the opportunity to use various welding processes for joining of ferrous and non-ferrous materials. Concurrent enrollment in MNET 132A.

MNET 132A Welding Technology Lab0

Concurrent enrollment in MNET 132.

MNET 231 Manufacturing Processes I3

The topics in this course cover the fundamentals of traditional and non-traditional manufacturing processes including mass reducing, mass conserving, joining, material treatment, and surface treatment processes. Hands-on experiences in laboratories provide the class participants with basic skills in machining and welding processes. Concurrent enrollment in MNET 231A.

MNET 231A Manufacturing Processes I Lab0
Concurrent enrollment in MNET 231.

This course is designed to provide students with the opportunity to expand on the topics covered in MNET 231. The course extends the manufacturing processes topics to include effects on work materials properties, tool materials and geometry, and analysis of factors affecting the output of various processes. The second course will include numerous local industry tours that include plastics, metal fabrication, electronics, wood, etc. P, 231. Concurrent enrollment in MNET 232A.

Basic statics, dynamics, and two-dimensional analysis of stress and strain. Laboratory verification of fundamental principles of structural and machine elements. P, Math 113 and Phys 111. Concurrent enrollment in MNET 2414

MNET 243 Introduction to Materials Science.....3

Basic concepts presented in relation to common engineering materials. Topics include physical and mechanical properties of materials. Laboratories utilize common materials science apparatus and relate to common industrial practices. P, Chem 106. Concurrent enrollment in MNET 243A.

MNET 251 Electricity and Electronics I3

The course is designed to provide students with a background and understanding of the essential topics in AC/DC circuits, electrical circuit materials, electrical energy and sources of electricity, basic circuits and their analysis, magnetism, and applications of motors, generators, and power distribution. P, Math 113. Concurrent enrollment in MNET 251A. Crosslisted with EET 251.

MNET 251A Electricity and Electronics I Lab0
Concurrent enrollment in MNET 251. Crosslisted with EET 251A.

This course is the continuation of MET 251 and is designed to provide students with a background and understanding of the essential topics in semiconductor devices, semiconductor power supply and technology, and semiconductor amplifiers and their applications. Other topics include digital logic, integrated circuits, oscillators, AM/FM communications, TV signal transmission, and computer structure and operations. P 251. Concurrent enrollment in MNET 252A. Crosslisted with EET 252.

MNET 252A Electricity and Electronics II Lab0 Concurrent enrollment in MNET 252. Crosslisted with EET 252A.

MNET 260 Production/Operations Management3

A broad analytical "systems" viewpoint is used to develop competency in management decision-making and problem solving in operations setting in various businesses and especially manufacturing. This course involves the study of the production end of business, where resources are transferred into goods and services, and the management of operations through effective planning, implementing, and monitoring for continuous improvement. P. Math 113. Crosslisted with BAdm 260.

MNET 293 Special Topics......1-3

Current selected topics in the Manufacturing Engineering Technology field. P, sophomore or junior level standing and permission of the instructor.

a feature-based parametric design, and the generation of mass properties, part drawings, assembly drawings and documentation. P, GE 120 or GE 123. Concurrent enrollment in MNET 320A.

MNET 320A Computer Aided Design/Drawing Lab0 Concurrent enrollment in MNET 320.

using Computer Aided Manufacturing (CAM) software is also the focus of this course. P, 231 and GE 120 or GE 123. Concurrent enrollment in MNET 334A.

MNET 334A CAM/CNC Lab0

Concurrent enrollment in MNET 334.

MNET 338A Industrial Plastics Lab......0
Concurrent enrollment in MNET 338A.

MNET 350 Fluid Power Technology3	MNET 463 Production and Inventory Management3
Basic fluid mechanics, pneumatics, hydraulics, control systems and	Study and analysis of activities in the flow of materials from the supplier
common industrial circuits. P, 252 or EET 230, Math 222, and Phys 111. Concurrent enrollment in MNET 350A.	to the consumer. These include physical supply, operations planning and
MNET 350A Fluid Power Technology Lab0	control, storage and warehousing, and physical distribution. P, 231 and 260.
Concurrent enrollment in MNET 350.	MNET 468 Manufacturing Plant Management3
MNET 361 Metrology and Process Control3	A case-oriented capstone course designed to integrate the technical,
Fundamentals of quality measurement and control is the focus of this	managerial, analytical, and communication skills which have been
course. Statistical process control (SPC), inspection equipment and	acquired. P, 367 and 463.
techniques, dimensional metrology and geometric conformance, and	MNET 469 Project Management3
surface texture and integrity are topics that are covered in support of this course. P, 231, GE 120 or GE 123, and Stat 281. Concurrent enrollment	A team-oriented and project-based course providing the students the additional opportunities to conduct research, build and test products, and
in MNET 361A.	manage projects in a team environment. Record keeping, documentation,
MNET 361A Metrology and Process Control Lab	team evaluations, and presentations are part of course activities. P, 260
Concurrent enrollment in MNET 361. MNET 363 Time and Matter Studies	and 451 or EET 451. Concurrent enrollment in MNET 469A. Crosslisted
MNET 362 Time and Motion Studies	with EET 469. MNET 460A Project Management Leb
performing and measuring work done by individuals or groups through	MNET 469A Project Management Lab
motion analysis, charting techniques, and principles of motion economy.	MNET 492 Special Problems1-3
P, 231 and 260.	Provides the student with the opportunity to identify a problem and
MNET 365 Occupational Safety and Health3 S	develop a hypothesis, gather information which might be used in solving
This course is designed to provide knowledge of the practice of providing	the problem, work on solving the problem, and report actual findings and
safe environments. Study will involve depending safety concepts, recognition of OSHA and Worker's Compensation regulations, hazard	accomplishments. P, junior or senior level standing and permission of the
recognition, identifying the cost of accidents, ergonomics, and emphasis	instructor. MNET 493 Special Topics1-3
on a proactive approach to accident prevention. P, 231 and Chem 106.	Current selected topic areas in the manufacturing technology field. P,
MNET 367 Plant Layout and Material Handling3	junior or senior level standing and permission of the instructor.
Analysis and design of facilities and material handling systems for	MNET 494 Cooperative Education1-3
efficient and economical production. P, 260, GE 120, or GE 123.	Supervised work experience and training in program related areas by a
MNET 436 Tool and Die Fundamentals3 An overview of design and applications of jigs and fixtures, molds, tools	manufacturing firm. The training must be performed under institutional
and dies in various production settings. Material selection and hands-on	and discipline guidelines governing this type of educational experience. P, departmental approval, sophomore standing or higher.
experiences in precision machining, metallurgy, and general	MNET 495 Internship1-3
manufacturing processes are integral to this course. P, 243 and 334.	supervised work experience and training in program related areas by a
Concurrent enrollment in MNET 436A.	manufacturing firm. The training must be performed under institutional
MNET 436A Tool and Die Fundamentals Lab0	and discipline guidelines governing this type of educational experience.
Concurrent enrollment in MNET 436. MNET 451 Industrial Electronics and Control	P, consent of department program coordinator.
This course teaches industrial motion control (servomechanisms) and	·
process control (instrumentation) systems. The course describes the	Micr (Microbiology)
concepts and the operation of electronic devices, circuits, systems, and	TVIICI (Wilcrobiology)
applications used in industry. P, 350. Concurrent enrollment in MNET	Undergraduate Courses
451A. Crosslisted with EET 451. MNET 451A Industrial Electronics and Control Lab0	Micr 231 General Microbiology4 FS
Concurrent enrollment in MNET 451. Crosslisted with EET 451A.	Principles of basic and applied Microbiology. P, Chem 106 or 112.
MNET 453 Manufacturing Automation3	Micr 232 General Microbiology Lab
The course offers advanced topics in manufacturing automation	Microbiology of water, air and surfaces in the environment. Standard
including automation hardware/software, system design and integration,	methods for detecting and controlling pathogens and non pathogens. P,
and management techniques for improving design and manufacturing operations. Hands-on lab activities provide the students with the	231.
opportunity to develop and program automated systems. P, 451 or EET	Micr 310A Environmental Microbiology Lab
451 and a computer programming course. Concurrent enrollment in	Microbiology
MNET 435A. Crosslisted with EET 453.	Microbiology of fresh and processed meats, dairy products, vegetables and modern convenience foods. Laboratory quality study of food
MNET 453A Manufacturing Automation Lab0	preservation, processing and spoilage. P, 231.
Concurrent enrollment in MNET 453. Crosslisted with EET 453A.	Micr 311A Food Microbiology Lab
MNET 460 Manufacturing Cost Analysis	Micr 311A Food Microbiology Lab
manufacturing processes and products and developing budget proposals	Principles of medical microbiology including a survey of the most
for analysis and evaluation of manufacturing capital expenditure. P, 367.	clinically significant bacterial, fungal, parasitic, and viral diseases in the
MNET 462 Quality Management3	world, with an emphasis on those most prevalent in North America. Case studies will address: morphology, physiology, and virulence of the
Course focus is on managerial philosophies and techniques of quality	microbes and the epidemiology, treatment, and prevention of the diseases
planning and control. This includes quality improvement tools, reliability,	they cause. P, 231, Chem 106 or 112.
cost of quality, and human factors that affect the quality initiatives. P, 260 and Stat 281.	
and Stat 201.	

and their application to clinical immunobiology. Serological techniques for detecting and measuring the presence of antigens, or antibodies in specimens and production of immune serum. P. 231. Micr 422 Al munuloogy Lab. 0 Micr 422 Pathogenesis 1 Security of the production of immune serum. P. 231. Micr 423 Pathogenesis 1 Security of the production of immune serum. P. 231. Micr 436 Molecular and Microbial Genetics 1 A basic course in molecular genetics. Examples to illustrate genetic principles are drawn from all forms of life. P. 231 and Bio 371. Micr 436 Molecular and Microbial Genetics 1 A basic course in molecular genetics. Examples to illustrate genetic principles are drawn from all forms of life. P. 231 and Bio 371. Micr 436 Molecular Microbial Genetics Laboratory 2 Isolation of plasmids; restriction analyses; DPA transfers and hybridization analyses; bacterial, transformations of eucaryotic cells; amplification of DNA utilizing polymerase chain reactions (PCR); restriction fragment length poly-morphism (RPLP) analyses; mRNA soloation; generation and amplification of bacteriophage cDNA libraries. P. Micr 436. Chem 361, or consent of instructor. 1 S Familiarization with the Microbiology profession and presentation of topics based on microbiological literature in scientific journals. P. senior status or consent, 231. Micr 492 Microbiology Problem 1 - 3 FSSs Microbial Spot problems associated with current research or teaching. Practical laboratory experience is encouraged for seniors majoring in Microbiology of credits maximum. P. consent of instructor and senior status or consent of instructors. Dual Numbered Courses Micr 414-514 Anaerobic Microbiology Micr 421-521 Soil Microbiology Micr 421-521 Soil Microbiology Lab Micr 421-521 Soil Microbiology Consent of instructors of maximum presentations, advanced first ai	Micr 324 Medical Microbiology Laboratory	characterization, and detection by immunological assays. P, 422 or consent. Crosslisted with Vet 424-524. Micr 424A-524A Medical and Veterinary Virology Lab
iterature in pathogenesis. P. 231, 323, 324. Chem 106 or 112. Micr 436 Molecular and Microbial Genetics — 4 F A basic course in molecular genetics. Examples to illustrate genetic principles are drawn from all forms of life. P. 231 and Bio 371. Micr 438 Molecular Microbial Genetics Laboratory — 5 Isolation of plasmids; restriction analyses; DNA transfers and hybridization analyses; bacterial, transformations of eucaryotic cells; amplification of DNA utilizing polymerase chain reactions (PCR); restriction fragment length poly-morphism (RFLP) analyses; mRNA isolation; generation and amplification of bacteriophage cDNA-libraries. P. Micr 436, Chem 361, or consent of instructor. Micr 490 Seminar — 15 Familiarization with the Microbiology profession and presentation of status or consent, 231. Micr 490 Kirchiology Problem — 1.3 FSSu Microbiology Problem — 1.4 FSSu Microbiology Problem — 1.5 FSSu Microbiology Problem — 1.5 FSSu Microbiology Problem — 1.5 FSSu Microbiology Problem — 1.6 FSSu Microbiology Problem — 1.7 FSSu Microbiology Problem — 1.8 FSSu Microbiology Problem — 1.12 FSSu Supervised practical experience or internship in Microbiology. Prior arrangements must be made with a staff member to be eligible. A maximum of 4 credits will count toward minimum requirements of major. P, consent of instructor. Dual Numbered Courses Micr 414-514 Anaerobic Microbiology — 1.12 FSSu Micr	and their application to clinical immunobiology. Serological techniques for detecting and measuring the presence of antigens or antibodies in specimens and production of immune serum. P, 231. Micr 422A Immunology Lab	Micr 713 Industrial Microbiology
restriction fragment length poly-morphism (RFLP) analyses; mRNA isolation; generation and amplification of bacteriophage cDNA.libraries. P, Micr 436, Chem 361, or consent of instructor. Micr 490 Seminar	literature in pathogenesis. P, 231, 323, 324, Chem 106 or 112. Micr 436 Molecular and Microbial Genetics	Micr 738 Microbial Metabolism
Dual Numbered Courses Micr 414-514 Anaerobic Microbiology Anaerobic metabolism and ecology of bacteria, culturing techniques for anaerobic microorganisms. P, Micr 231. Micr 414A-514A Anaerobic Microbiology Micr 421-521 Soil Microbiology Microbial species of agricultural soils, environmental factors affecting their numbers and activity, and biochemical changes brought about by these microorganisms. P, 231-231A or consent. Crosslisted with PS 421-521. Micr 421A-521A Soil Microbiology Lab. Micr 421A-521A Soil Microb	restriction fragment length poly-morphism (RFLP) analyses; mRNA isolation; generation and amplification of bacteriophage cDNA libraries. P, Micr 436, Chem 361, or consent of instructor. Micr 490 Seminar	Undergraduate Courses Mil 101-102 Military Science I Mil 101 Introduction to ROTC
Micr 424-524 Medical and Veterinary Virology4 S (odd years) assessments, movement techniques. Two one-hour classes per week and	P, consent of instructor. Dual Numbered Courses Micr 414-514 Anaerobic Microbiology	but highly encouraged. Mil 201-202 Military Science II Mil 201 Self/Team Development

Mil 295 ROTC Summer Leadership Internship	Military Science Leadership Development Lab Military Science I and II Laboratories A series of labs on military-related subjects such as orienting, rappellin marksmanship, and map reading. Build self confidence and team building leadership skills that can be applied throughout life.
Mil 301-302 Military Science III Mil 301 Military Tactics and Leadership	Military Science III and IV Laboratories A series of labs on military-related subjects such as orienting, rappellin marksmanship, and map reading. Build self confidence and tean building leadership skills that can be applied throughout life.
complexity. Plan and conduct training for lower division students to develop leadership skills. Laboratories include physical fitness, land navigation, drill and ceremonies and leadership reaction practical	ML (Modern Languages)
exercises. Three hours per week and a required leadership lab plus three physical fitness sessions per week. Participation in one weekend field exercise is required.	Undergraduate Courses ML 101-102 Introduction to Modern Language and Culture (Topical)1-
Mil 301A Military Communications and Human Relations Lab0 Mil 302 Military Operations and Communications	Fundamentals of the language and introduction to the culture where the language is spoken. Classwork may be supplemented with require aural/oral practice outside of class. May be repeated for credit. ML 134 Foreign Cultures (Topical)
supervise. Examine and apply lessons from leadership and ethical decision making in a positive climate that enhances team performance. Three hours per week and a required leadership lab plus three physical fitness sessions per week. Participation in one weekend field training exercise is required.	Provides a broad view of the language and civilization of the people studied, including history, literature, social life and institutions, an culture. If appropriate, the course will include the study of the subject people's heritage in South Dakota. No prerequisites. Intended for students from all disciplines. May be repeated for credit twice provide
Mil 302A Military Operations and Tactics Lab0	change of topic. Taught in English. Credit for this course may not be applied to a foreign language major, minor, or to the 14-hour B.A.
Mil 401-402 Military Science IV Mil 401 Leadership Challenges and Goal-Setting	language requirement. ML 195 Living and Study Abroad (Culture Emphasis)
required Leadership lab, plus three physical fitness sessions per week. Participation in one weekend field exercise is required.	(Language Emphasis)
Mil 402A Ethics and Professionalism Lab	ML 420 Modern Language Teaching Methods
completed Mil 301 and 302. The student receives pay, travel, lodging and most meal costs are defrayed by the U.S. Army. The Advanced Camp environment is structured to assess small unit leadership and is physically and mentally demanding. This class is required for students pursuing a minor in Military Science. Mil 495 ROTC Nurse Summer Training Program	Detailed reading and discussion of major works dealing with French German or Spanish language, literature or culture. Focus on language literary appreciation, writers, culture, or artistic movements. Students will be expected to express themselves in the particular language, both orally and in writing. Reports in the foreign language will be required Topics will vary, and course may be repeated for a maximum of 9 credit hours. P, two years of college French, German, or Spanish, or consent of instructor.
open to (and optional for) nursing students who have completed Mil 301 and 302. Individual leadership and basic nursing skills performance are evaluated throughout the program. With approval of the College of Nursing, experience may be substituted for three of six required credits of Nurs 491, Directed Studies in Nursing (See Nurs 491 description).	ML 492 Special Problems (Topical)

ML 493 Topics in Modern Language1-5	Class Instruction in Woodwinds
Selected topics of current interest in the discipline.	MuAp 1251 FS
ML 495-496 Internship/Field Experience (Topical)3-12	MuAp 2251 FS
Students who have the opportunity to engage in an off-campus activity	MuAp 3252 FS
which will contribute significantly to their education, such as an	Section 1 Flute
internship or study abroad, may enroll for 3-12 hours of credit for the	Section 2 Oboe
experience. A maximum of one credit for each week of experience will	Section 3 Bassoon
be given. The student's project must be approved by the department and	Section 4 Clarinet
will be supervised by a member of the faculty in conjunction with the	Section 5 Saxophone
head of the department.	200000000000000000000000000000000000000
head of the department.	Individual Instruction in Brass
D IN I I Comme	MuAp 130-131-132-1331 FS
Dual Numbered Courses	MuAp 230-231-232-233
ML 460- 560 Topics in French, German or Spanish Literature1-4	MuAp 330-331-332-3332 FS
An intensive examination of a significant writer(s), period or theme in	MuAp 430-4322 FS
French, German, or Spanish literature. This course may be repeated for	-
credit if topic is different.	Section 1 Trumpet
	Section 2 French Horn
Graduate Courses	Section 3 Trombone
	Section 4 Baritone
ML 592 Special Problems1-3	Section 5 Tuba
ML 593 Special Topics in Language and Culture1-3	
ML 595 Graduate Level Living and Study Abroad1-6	Class Instruction in Brass
	MuAp 1351 FS
	MuAp 2351 FS
MuAp (Applied Music)	MuAp 3352 FS
Applied Music)	Section 1 Trumpet
Undergraduate Courses	Section 2 French Horn
MuAp 100, 110, 120, 130, 140, and 150 may be used to meet SDSU Core	Section 3 Trombone
	Section 4 Baritone
Goal #3-Human Spirit. These courses may be repeated twice for credit.	Section 5 Tuba
	Section 3 Tuba
Individual Instruction in Voice	T TO THE TAX A CARTA So Theorem San
MuAp 100-101-102-1031 FS MuAp 200-201-202-2031 FS	Individual Instruction in Percussion
MuAp 200-201-202-2031 FS	MuAp 140-141-142-1431 FS
MuAp 300-301-302-3032 FS	MuAp 240-241-242-243
MuAp 400-4022 FS	MuAp 340-341-342-343
	MuAp 440-4422 FS
Class Instruction in Voice	·
MuAp 105-106	Class Instruction in Percussion
	MuAp 1451 FS
Individual Instruction in Keyboard	MuAp 2451 FS
MuAp 110-111-112-1131 FS	MuAp 3452 FS
MuAp 210-211-212-2131 FS	
MuAp 310-311-312-313	Individual Instruction in Strings
MuAp 410-4122 FS	MuAp 150-151-152-1531 FS
	MuAp 250-251-252-2531 FS
	MuAp 350-351-352-3532 FS
• •	MuAp 450-452
Section 3 Organ	Section 1 Violin
Class Instruction in Piano	
Class Instruction in Piano	Section 2 Viola
MuAp 115-1161 FS	Section 3 Cello
	Section 4 Bass Violin
Individual Instruction in Woodwinds	Section 5 Guitar
MuAp 120-121-122-1231 FS	•
MuAp 220-221-222-2231 FS	Class Instruction in Strings
MuAp 320-321-322-3232 FS	MuAp 1551 FS
MuAp 420-4222 FS	MuAp 2551 FS
Section 1 Flute	MuAp 3552 FS
Section 2 Oboe	Section 1 Violin
Section 3 Bassoon	Section 2 Viola
Section 4 Clarinet	Section 3 Cello
	Section 3 Cento
Section 5 Saxophone	Section 4 Bass Violin
	Section 5 Guitar
	Accompanying (Pianists only)
	recompanying (ramines omy)
	MuAp 1811 FS

MuEn (Ensembles)

Undergraduate Courses

Music Organizations are open to all University students. There are no auditions required for Marching Band and Concert Band. There are auditions for the Symphonic Band, the Concert Choir, University Women's Choir, University Men's Choir, and the Jazz Ensembles. Membership in the SDSU-Civic Symphony is by instructor consent. Freshmen and Sophomores must register for 100 level of large ensembles; Juniors and Seniors register for 300 level. Small ensembles: Freshmen and Sophomores, 100 level, Juniors and Seniors, 300 level. MuEn 100, 101, 102, 110, 120, 121, 122, and 180 may be used to meet SDSU Core Goal #3 - Human Spirit. Each course may be repeated once for credit.

University Women's Choir (Pasquettes) MuEn 100-3001 FS
Concert Choir MuEn 101-3011-2 FS
University Men's Choir (Statesmen)
MuEn 102-3021 FS
Civic-University Orchestra
MuEn 110-3101 FS
Marching Band
MuEn 120-3201-2 F
Symphonic Band MuEn 121-3211 FS
WILLIA 121-321 FS
Concert Band
MuEn 122-3221 FS
Opera Workshop
MuEn 1071-2 S
MuEn 3071-2 S
String Ensembles
MuEn 1401 FS
MuEn 3401 FS
Woodwind Ensembles
MuEn 1501 FS
MuEn 3501 FS
Brass Ensembles
MuEn 1601 FS
MuEn 360
Percussion Ensemble
MuEn 1701 FS
MuEn 3701 FS
Jazz Ensemble
MuEn 1801 FS
MuEn 3801 FS
Mus (Music)
Independents Courses

Undergraduate Courses

An introductory music course whose purpose is to help non-major students discover how sound is organized in time to produce musical expression. Study will focus on music fundamentals, styles, forms, genres, history and listening.

Mus 100 Music Appreciation2 FS

Mus 110 Basic Theory & Musicianship I4 F
Emphasis on fundamentals and basic skills: terminology, fundamentals of
musicianship, ear training, sight singing, chord structures, score analysis.
Introduction to four-part writing.
Mus 110A Basic Theory & Musicianship I Lab
Mus 111 Basic Theory & Musicianship II
Continuation of Mus 110. Continued development of fundamental skills:
melodic dictation, sight singing, score analysis, and four-part writing. P, 110.
Mus 111A Basic Theory & Musicianship II Lab0 Mus 130 Music Literature & History I2 F
An introductory course of music cultures of the world. Emphasis on
developing a fundamental knowledge of distinctive and unique music of
different nations, especially non-Western music.
Mus 131 Music Literature & History II
Ancient through Medieval and Renaissance music literature – analysis of
style and form, study of historical development and significance,
comparison to similar works in other periods of music history. Emphasis
on listening and score study.
Mus 195 Recital Attendance0 FS
Designed to expose students to a large and varied body of music through
attendance at recitals, forums, concerts, and other performances.
Required of all music majors and minors each semester they are enrolled
in applied music. Student teaching and internship semesters excepted.
Mus 201 History of Country Music
An in-depth exploration of Country Music, beginning with Scotch-Irish
folk music of the late 1600's, through the "New Traditionalists" of the
1990's. Mus 202 The Music Industry
Mus 202 The Music Industry
This course examines the many facets of the music industry: music
publishing, copyright distribution and merchandising music and the mass media, the recording industry, manufacturing and music management.
Music in the marketplace. P, consent.
Mus 203 Blues, Jazz & Rock3 F
This course examines the origins and developments of three uniquely
American musics and their cultural impact upon, and within, American
society.
Mus 210 Intermediate Theory & Musicianship III4 F
Continuation of Mus 111. Harmonic and melodic techniques of the
Romantic period – analysis, composition, dictation, sight singing and ear
training. P, 111.
Mus 210A Intermediate Theory & Musicianship III Lab0
Mus 211 Intermediate Theory & Musicianship IV4 S
Continuation of Mus 210. Integrated study of melodic and harmonic
techniques in Romantic and early twentieth century literature – analysis,
composition, and score study. Continuation of sight singing, ear training, and dictation. P, 210.
Mus 211A Intermediate Theory & Musicianship IV Lab0
Mus 230 Music Literature & History III
Baroque and Classical Music literature – analysis of style and form, study
of historical development and significance, comparison to similar works
in other periods of music history. Emphasis on listening and score study.
May be taken as humanities elective.
Mus 231 Music Literature & History IV2 S
Romantic Music Literature - analysis of style and form, study of
historical development and significance, comparison to similar works in
other periods of music history. Emphasis on listening and score study.
May be taken as humanities elective.
Mus 260 Conducting Fundamentals2 F
Basic principles in conducting - rehearsal and performance. Score
reading and preparation. P, 110 and 111. (Concurrent with Mus 210 or
211.)
Mus 260A Conducting Fundamentals Lab0

76 AFOR 1 1 12 F	Mus 370 Pedagogy III1-2 F
Mus 270 Pedagogy I1-2 F Pedagogical considerations in teaching music. Methods and concepts in	Continuation of Mus 271, sections 1-8 as in 270. Voice offered odd years
specialized areas: Section 1 - Voice; Section 2 - Strings; Section 3 -	only; Keyboard even years only.
Keyboard; Section 4 - Clarinet & Flute; Section 5 - Double Reeds &	Mus 371 Pedagogy IV1-2 S
Saxophone; Section 6 - High Brass; Section 7 - Low Brass; Section 8 -	Continuation of Mus 370, sections 1-8 as in 270. Voice offered even years
Percussion. Voice offered even years only, Keyboard odd years only.	only; Keyboard odd years only.
Mus 271 Pedagogy II1-2 S	Mus 391 Directed Studies1-3
Continuation of Mus 270 sections 1-8 as in 270. Voice offered odd years	Special projects in music for which there is no course. Projects must be
only; Keyboard even years only.	approved by Music Department staff. Consent.
Mus 293 Topics in Music1-5	Mus 392 Independent Studies1-3
Any subject within the discipline of music which may be taught as a	Consent. May be used as substitute for music requirement.
group experience for which there is instructor expertise and student	Mus 420 Orchestration & Arranging
interest, but for which there is no regularly scheduled class.	Advanced study and analysis of scores with projects in scoring for a
Mus 294 Exploring Music in Western Europe3	variety of mediums. P, 311, 313, or consent. Mus 433 Music Literature and History V2 F
An intensive three-week period of rehearsals, performances, lectures,	This course examines the musical and cultural developments associated
attendance at plays and concerts, educational touring, and travel in a mix	with contemporary music. The focus is upon developing a knowledge of
of West European countries. Mus 294A Exploring Music in Western Europe Ensemble0	and an appreciation for the genres, styles, techniques, philosophies, and
Mus 302 Introduction to the Recording Industry2	forms utilized by the major compositional figures of the twentieth
This course explores the scope of the record industry, record markets,	century.
artists' recording contracts, record production, the recording studio	Mus 465 Music Education V: Instrumental Techniques2 F
business, and record promotion and distribution. Off-campus speakers	Three major technical topics for the prospective music teacher will be
will be utilized in their specialty areas, and area recording studios will	covered: Marching Band techniques, Jazz Ensemble techniques, and
provide practical support for classroom work. P, 202.	Instrumental Repair. Emphasis on in-depth development of skills and
Mus 313 Form & Analysis2-3 S	practical application.
Analysis of small and large forms. Concentrated study of selected scores	Mus 483 Public Recital0-1-2 FS
and writing of original compositions. P, 211 or consent.	All music majors are required to present a Senior Recital. Students may
Mus 351 Music Education I: Elementary Music Concepts2 F	elect to enroll for Public Recital as follows: 0 credits, 1 credit, or with
This course deals primarily with curriculum appropriate for grades K-5	permission from the Department Head and Applied Instructor, for 2
with suggested materials to implement the music concepts presented. An	credits. The latter option requires a research paper on the literature
eclectic approach to music education curriculum, methods and materials	performed, a recital preview with an oral defense of the research paper,
is taken. There is a special focus on materials from the curriculums of	and the public performance. Students enrolled in Mus 483 must be concurrently enrolled in 400 level Applied Lessons.
Karl Orff, Zoltan Kodaly, and noted Twentieth Century music educators.	Mus 488 Supervised Teaching in Secondary Schools
Mus 351A Music Education I: Elementary Music Concepts Lab0	5 (TBA) FS (second half of semester)
Mus 361 Music Education II: Conducting2 S Section 1: Instrumental music methods and materials. Emphasis on	Students may register for 5 hours under SeEd 488 and 5 hours under Mus
rehearsal techniques, conducting and study of appropriate materials.	488.
Section 2: Choral music methods and materials. Emphasis on	Mus 495 Internship3-12
rehearsal and conducting techniques through study of appropriate	Planned and supervised professional experience which takes place
materials.	outside the formal classroom with private business or industry, or public
Mus 361A Music Education II: Conducting Lab	agencies. P, consent of department program coordinator.
Mus 362 Music Education III: Methods and Materials2 F	1
Section 1: Instrumental Music Methods and Materials. Emphasis on	Dual Numbered Courses
lesson, solo and ensemble materials and pedagogy for the school	Mus 492-592 Independent Studies1-3
instrumental music teacher. History of instrumental music education,	Consent. May be used as substitute for music requirement.
curriculum development and teaching techniques for individual, class,	Mus 493-593 Course Specials1-5
small and large instrumental music ensembles are offered. Students	17 dus 473-373 Course Specials
participate in supervised on-site teaching experiences in elementary	
instrumental music.	NECH OLASS Traditions and
Section 2: Vocal Music Methods and Materials. Emphasis on choral	NFSH (Nutrition, Food Science and
teaching materials and teaching concepts and techniques for individual,	Hospitality)
class and ensembles for the school vocal teacher. Students participate in	
supervised on-site teaching experiences in choral music and general	Undergraduate Courses
music classes. Mus 362A Music Education III: Methods and Materials Lab0	NFSH 110 Perspectives in Nutrition3 F
Mus 365 Music Education IV: Supervision & Administration of	Interdependence of the principles of human nutrition and food behavior
School Music2 FS	to health of individuals and groups.
A goal and objective approach to developing student skills in managing	NFSH 111 Food and People3 FS
the total school music program, including choral and instrumental at the	
elementary and high school levels. Organizational and administrative	
skills are offered with hands-on opportunities for practical application.	
Units are also offered in music education history and philosophy.	NFSH 141 Food Principles4 FS
Mus 365A Music Education IV: Supervision & Administration of	Scientific investigation of basic foods used to maintain optimum
School Music Lab0	nutrition.
	NFSH 141A Food Principles Lab0

NESH 151 Food Technology	NEGH ACAA E. A.C.
NFSH 151 Food Technology	NFSH 360A Food Chemistry Lab
finished food products suitable for human consumption. World and	NFSH 361 Hospitality Industry Law2 S (even years) This course presents common and civil law as it relates to the operation
domestic food needs, chemical additives and food safety will be	of various hospitality industry enterprises. Preventative law is presented
discussed.	to permit managers to be aware of potential legal pitfalls and steps
NFSH 171 Introduction to the Hospitality Industry3 F	required to minimize legal problems. P, BAdm 350.
A review of the basic components of the hospitality and tourism industry	NFSH 371 Food Service Purchasing3 S
in the state, national and international economy. Future trends and career	Purchasing food and supplies for restaurants and institutions. Functions
opportunities within these areas will be explored.	of management as applied to supplier selection, procurement, receipt,
NFSH 221 Survey of Nutrition	storage, and issue, record keeping, and inventory control systems. This
plays in meeting the nutritional requirements of individuals. Designed for	course involves an in depth analysis of commodity groups and the
the student who lacks a science background but wishes to study human	development of purchase specifications and quality evaluation. P, 261. NFSH 372 Property Maintenance and
nutrition in some detail.	Housekeeping3 F (even years)
NFSH 251 Meal Service Management3 S	Application of various systems, procedures and controls associated with
Planning, costing, pricing, preparing, and serving nutritious meals for	the housekeeping and maintenance departments of lodging and
various events in commercial and institutional operations.	foodservice operations. The course will include the decision making
NFSH 251A Meal Service Management Lab0	process used in planning, site selection, layout, and equipment selection
NFSH 261 Food Service Operations3 F	and purchase.
Planning, preparing, and evaluating menus. Safe and sanitary use of	NFSH 381 Quantity Food Production & Service3 S
equipment for quantity food preparation and service. Recipe standardization, menu costing and pricing, and food, beverage and labor	Management of production and service of quantity food in institutions
cost controls. P, 141 or consent.	and commercial establishments. Experience in planning, preparing and
NFSH 271 Lodging and Casino Operations3 S	serving meals in a variety of food service establishments. NFSH majors only. P, 371 concurrent or consent of instructor.
Functions of management as applied to the lodging and casino industries,	NFSH 381A Quantity Food Production & Service Lab0
including terminology, the organizational structure, staffing, management	NFSH 421 Diversity in the Workplace3 F
responsibilities, front office, guest services, and controller. Lab portion	Course addresses the role of culture and its effect on organizational
will include on-site workshops as well as field experiences. P, 171 or	behavior. Issues in the workplace include personal and cultural values,
consent.	group norms, workplace policies and procedures, and diversity in culture,
NFSH 271A Lodging and Casino Operations Lab	gender, age and physical differences. Crosslisted with CA 421.
NFSH 292 Special Problems1-3 A program of directed studies in specialized areas not covered by normal	NFSH 422 Advanced Human Nutrition4 S
class offerings. May be repeated for credit.	Principles of physiological chemistry and physiology applied to nutrition.
NFSH 297 Professional Practicum1-6 Su	P, 321, Zool 221 and 325, Chem 108 or 361 or consent. NFSH 423 Clinical Nutrition I
Supervised work or clinical experience in dietetics, foodservice or	This course introduces the role of nutritional intervention in pathological
lodging operations, nutrition programs or in the food industry. May be	conditions. Students will demonstrate the ability to screen for nutritional
repeated for credit. P, consent.	risk, collect data for nutritional assessment and calculate and/or define
NFSH 321 Human Nutrition3 FS	diets for common conditions. P, 422 or consent.
The science of food, the nutrients and other substances therein, their	NFSH 423A Clinical Nutrition I and Lab0
action, interaction, and balance in relation to health and disease and the	NFSH 424 Community Nutrition3 S
processes by which the organism ingests, digests, absorbs, transports, utilizes and excretes food substances. P, Chem 108 or 120 or consent.	Application of learning principles, teaching methods and knowledge of
NFSH 322 Assessment Skills in Nutrition4 F	nutrition in community nutrition education programs and out-patient
Study of medical terminology, nutritional assessment, cultural and	nutrition counseling. P, 321. NFSH 424A Community Nutrition Lab0
therapeutic dietary modifications, interviewing and counseling,	NFSH 425 Clinical Nutrition II
documentation in the medical record, and quality assurance. Review of	Continuation of NFSH 423. P. NFSH 423.
principles of dietetics and the role of the professional dietitian. P, 321 or	NFSH 425A Clinical Nutrition II Lab0
consent.	NFSH 455 Meeting & Convention Management3 F (even years)
NFSH 322A Assessment Skills in Nutrition Lab0	The roles and responsibilities of professional hospitality meeting
NFSH 341 Food Science	planners and convention sales and service managers are examined for
Study of physical/chemical factors affecting food quality resulting from preparation and processing methods. Students will become familiar with	purposes of securing, planning, hosting and rebooking a major
techniques in sensory evaluation and basic principles of food analysis. P,	convention or corporate, association, or special meeting event. P, junior, senior, or consent.
141 and Chem 120.	NFSH 465 Cost Controls in the Hospitality
NFSH 341A Food Science Lab0	Industry3 S (even years)
NFSH 351 Principles of Food Processing3 F (odd years)	The application of financial systems to control food, beverage and labor
Study of the physical/chemical principles and approaches used in heat	costs in hospitality operations. P, BAdm 310.
processing, freezing, dehydration, and fermentation of foods. Current	NFSH 482 Hospitality Marketing3 S (even years)
processing methods will be considered in terms of preparation,	Applied marketing covering case studies in the hotel and restaurant
processing, packaging, and quality control of food products. P, 151,	industry. Emphasis on implementing marketing strategies including:
Chem 106 or 114, or consent. NFSH 351A Principles of Food Processing Lab0	demographics, image development, advertising, sales promotion, public
NFSH 360 Food Chemistry4 S (odd years)	relations, administering and controlling a marketing plan. P, Econ 370.
The study of chemical properties of basic food constituents and chemical	NFSH 487 Transition to the Professional World1 F Transition to the professional world will identify expectations for the
changes occurring during storage and processing. P, Chem 120 or	world of work. Emphasis on effective written and verbal communication
consent.	skills as related to work experiences, issue analysis, and goal setting for
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the future. Students will prepare for professional experiences such as **Nurs** (Nursing) internships, graduate school and professional positions upon graduation. P, senior standing or consent. Crosslisted with CA 487. **Undergraduate Courses** NFSH 491 Professional Issues in Nutrition, Food Science and Nurs 110 Orientation RN Upward Mobility Program0 Hospitality......3 F Registered Nurse orientation. P, RN license, consent.

Nurs 200 Nursing Workshops1-3 This course is the capstone experience for students in Nutrition, Food Science and Hospitality. Course will integrate knowledge with breakout Special session in specific areas of nursing. Approximately 45 hours of sessions for the different subject matter areas in NFSH. Professionalism work required for each credit, including lecture, conference, committee and professional ethics, management and employment principles, and group activity, and outside assignments. Workshops in nursing may diversity issues, leadership styles, networking and mentoring will be range from 1 to 3 weeks. Students limited to 4 credits to apply toward discussed. P, senior standing in dietetics, food science, or hotel and degree. P, consent. Nurs 201 Medical Terminology1 FS foodservice management. NFSH 492 Special Problems1-3 Study of definition and use of medical terms common to many health-A program of directed studies in specialized areas not covered by normal related disciplines. Enrollment is limited to freshman and sophomores, or class offerings. May be repeated for credit. with permission of the instructor. NFSH 493 Current Topics1-3 FSSu Nurs 222 Transition to B.S. in Nursing1 FSSu Study of selected topics in the fields of nutrition, clinical dietetics, Introduces the RN student to the nature of baccalaureate nursing foodservice systems management, hospitality industries. P, junior education. Students participate in self-assessment of strengths within the standing in dietetics, food science or hotel and foodservice management various professional nursing roles. Includes an overview of the curriculum concepts as applied to RN education. Introduces to nursing and consent. NFSH 497 Professional Practicum1-6 Su informatics as a tool for lifelong learning. P, RN licensure. Supervised work or clinical experience in dietetics, food service or Nurs 264 Professional Perspectives I1 FS lodging management, nutrition programs or in the food industry. May be Introduces the profession of nursing within the context of a changing health care system. Focuses on nursing role development with emphasis repeated for credit. P, consent. on educator, provider and researcher roles. P, admission to nursing major. Concurrent with 265, 280, 282. **Dual Numbered Courses** NFSH 450-550 Food Analysis4 F (even years) Nurs 265 Health Assessment and Interventions4 FS Introduces beginning assessment skills and interventions for systematic Principles and techniques of physical and chemical analysis of food data collection about health. Emphasis on role of nurse as provider in products. It will include proximate analysis of moisture, protein, lipid, simulated laboratory and health oriented environments. P, admission to and carbohydrates and chemical or instrumental analysis of vitamins, Nursing major. Concurrent with 264, 280, 282, 323. minerals and food additives. P, 360, Chem 120, or consent. Nurs 265B Health Assessment and Interventions Lab0 NFSH 450A-550A Food Analysis Lab.....0 Nurs 280 Professional Communication4 FS NFSH 451-551 Advanced Food Processing4 S (even years) Concentrates on the nursing profession and skills required for This course is designed as a capstone course for undergraduate Food communication in professional nursing practice. P, admission to Nursing Science students and an introductory course for graduate students in major. Concurrent with 264, 265, 282, 323. food-related majors. The principles and technologies of food storage, Nurs 280B Professional Communication Lab0 process and packaging will be discussed in depth. Emphasis will be Nurs 282 Health Promotion2 FS placed in the development of new food products. P, 151, 360, or consent. Focuses on learning about holistic health of self, individuals and groups. NFSH 451A-551A Advanced Food Processing Lab......0 Wellness and teaching/learning principles are used. P, admission to NFSH 490-590 Seminar in Food & Nutrition1 F nursing major. Concurrent with 264, 265, 280,323. This seminar is designed to explore in depth topics related to the role of Nurs 304 Professional Perspectives II1 FS nutrition in health promotion and disease prevention in the community. Continuation of professional role development with emphasis on the roles of provider, designer/manager/coordinator, and member of the profession. Presents an overview of nursing ethics and the core values of **Graduate Courses** NFSH 592 Special Problems1-3 integrity. Focuses on the multifaceted factors influencing the profession. P, 264, 265, 280, 282, 323. Concurrent with 320 and 330; Pha 241; HSc NFSH 593 Current Topics1-3 NFSH 634 Techniques in Food and Nutrition Research3 Nurs 320 Family as Client: Emerging and Developing6 FS NFSH 634A Techniques in Food and Nutrition Research Lab0 Explores the nurse's role in promoting and maintaining family health. NFSH 660 Maternal and Child Nutrition......3 FSSu (every third term) Emphasis on reproductive health and anticipatory guidance related to common and predictable developmental changes of children and families. NFSH 662 Sociocultural Aspects of Nutrition2 Clinical application of the concepts will occur in a range of practice NFSH 704 Phytochemicals2 F environments. P, 264, 265, 280, 282, 323. Concurrent with 304, 330; and NFSH 725 Nutrition and Human Performance3 Pha 241: HSc 443. NFSH 760 Vitamins and Minerals in Human Nurs 320A Family as Client: Emerging and Developing Clinical Nutrition3 FSSu (every third semester) Lab0 NFSH 761 Nutrition of the Aged3 NFSH 792 Special Problems1-3 NFSH 793 Current Topics1-3

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Nurs 323 Introduction to Pathophysiology	Nurs 410A Acute Health Care II Clinical Lab0
This course covers topics which will provide a current understanding of the major disease processes across the lifespan. The course will lay the	
foundation for the study of pharmacological machanisms of action	
foundation for the study of pharmacological mechanisms of action of	b and a second of marbing in providing care to
drugs and their rational clinical use. Of interest will be the linkage of	i i i i i i i i i i i i i i i i i i i
relevant modern biology to the different disease states, attention to	
gender differences, especially regarding epidemiology and pathological	
changes, and the integration of health promotion and disease prevention,	Nurs 416A Community Health Nursing Clinical Lab0
by emphasizing risk factors, nutritional requirements, and other relevant	Nurs 420 Chronic Health Care II4 FS
therapeutic practices. P. 3rd year Pharmacy standing or Nursing major,	Expands upon previous nursing knowledge and skills to provide to clients
and Zool 325.	experiencing a wide range of chronic complex health problems with
Nurs 330 Family Health Environment Across the Lifespan3 FS	unpredictable outcomes. P, 364, 370, 375. Concurrent with Nurs 404,
Emphasis on nursing care of individuals and families in a community	410, Stat 281 or Hsc 440.
setting. Home visit process, continuum of care, discharge planning,	Nurs 420A Chronic Health Care II Clinical Lab0
identification of available community support services and referral are	Nurs 422 Women in Health Care Professions2
introduced. Health promotion and disease prevention are explored in a	Women's roles and contributions in health care professions from ancient
variety of environments. P, 264, 265, 280, 282, 323. Concurrent with	to modern times. Factors affecting women's activities in these fields.
304, 320; Pha 241; HSc 443.	Movements and developments in these fields where women have made
Nurs 330A Family Health Environment Across the Lifespan-	significant contributions. Open to nursing and non-nursing students.
Clinical Lab0	Elective for junior or senior in nursing or for registered professional
Nurs 350 Nursing in the Community1-6	nurses. Elective to apply to women's study minor.
Community aspects of planning for health needs. Designed for non-credit	Nurs 450 Nursing Physical Assessment
or variable assignment of credits. May include some practice.	Theory and clinical application of theory in relationship to diagnosing
Nurs 364 Professional Perspectives III1 FS	human responses in health and disease. Emphasizes independent nursing
Application of research process to issues in nursing and related areas with	actions in promotion of health, health maintenance, prevention of injury
emphasis on the roles of researcher and provider. Presents an introduction	and disease and in determining care for clients in all health settings. P,
to nursing informatics in the health care setting and the core value of	Senior standing or consent.
autonomy. Explores career pathway development, patient self-	Nurs 454 Leadership and Management3 Su
determination and nursing liability. P, 304, 320, 330, HSc 443, Pha 241.	This course focuses on three areas: management theory, leadership theory
Concurrent with 370, 375.	and political and economic issues within professional nursing practice.
Nurs 370 Acute Health Care I5 FS	Resource management, change theory, organization and other group
Focuses on the nursing process to provide care to clients experiencing a	behavior will be discussed. Conflict resolution, negotiation, and group
wide range of acute health problems with predictable outcomes. P, 304,	process skills are also addressed. P, 222, 381, 385, RN licensure.
320, 330, HSc 443, Pha 241. Concurrent with 364, 375.	Nurs 464 Professional Perspectives V2 FS
Nurs 370A Acute Health Care I Clinical Lab0	Synthesis of professional role development. Focus of this course is on
Nurs 375 Chronic Health Care I5 FS	leadership and management. P, 404, 410, 420. Concurrent with 475, 491;
Focuses on the nursing process to provide care to clients experiencing a	Stat 281 or HSc 440.
wide range of chronic health problems with predictable outcomes. P, 304,	Nurs 474 Nursing Research and Nursing Theory3 S
320, 330, HSc 443, Pha 241. Concurrent with 364, 370.	Prepares the baccalaureate nurse to analyze, critique, and apply nursing
Nurs 375A Chronic Health Care I Clinical Lab0	research in a practice environment and to utilize selected nursing
Nurs 381 Family and Communication4 F	theories. Various models of research utilization will also be presented and
This course focuses on communication as an intervention with family as	discussed. P, 222, 381, 385, RN licensure.
client. The student will be exposed to major family and communication	Nurs 475 Community as Client
theories. Emphasis is on holistic family assessment and interventions.	Focuses on application, analysis and evaluation of community health
Includes a clinical components in which the nursing process is applied to	nursing with emphasis on aggregate populations and communities.
clients across the age continuum in the home setting. P, RN, licensure.	Practice experiences are planned in rural/urban community
Nurs 381A Family and Communication Clinical Lab0	environments. P, 404, 410, 420. Concurrent with Nurs 464, 491; Stat 281
Nurs 385 Health Assessment, Clinical	or HSc 440.
Decision Making and Nursing Interventions4 F	Nurs 475A Community as Client Clinical Lab0
This course concentrates on the deliberative process utilized by the	Nurs 483 Computer Applications in Health Care3
baccalaureate prepared nurse. The course will build upon the assessment	Capabilities and limitations of computers; basic concepts and principles
and intervention skills acquired in the student's previous education and	of system organization and operation; application of computer programs
will emphasize clinical decision making and use of research based	in health diagnosis, treatment and facilities operations; teaching,
interventions. P, RN licensure.	continuing education and research. P, Math 102 or 113. Open to upper
Nurs 385A Health Assessment, Clinical	division undergraduate students
Decision Making and Nursing Interventions Lab0	Nurs 490 Seminar in Nursing1
Nurs 404 Professional Perspectives IV1 FS	Discussion and evaluation of the impact of nursing action in care of
Continuation of professional role development with emphasis on the	nationts. Students limited to A gradity to analy toward decision in care of
collaborator and leader roles. Focus of this course is on the function of	patients. Students limited to 4 credits to apply toward degree. Nurs 491 Directed Study in Nursing
change agent and group facilitator as it impacts health care delivery. P,	Nurs 491 Directed Study in Nursing
364, 370, 375. Concurrent with 410, 420, Stat 281 or HSc 440.	Application and synthesis of reflective decision making within the
Nurs 410 Acute Health Care II5 FS	practice of nursing. Includes a preceptored experience in a selected
Expands on previous nursing knowledge and skills to provide care to	practicum setting. P, 404, 410, 420. Concurrent with Nurs 464, 475; Stat
clients with acute complex health problems with unpredictable outcomes.	281 or HSc 440. Nurs 401 A Directed Study in Naucina Clinical Lab
P, 364, 370, 375. Concurrent with 404, 420, Stat 281 or HSc 440.	Nurs 491A Directed Study in Nursing Clinical Lab0
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Nurs 492 Special Problems in Nursing1-3	Nurs 790 Thesis in Nursing1-7
Open to upper division students by permission. Students limited to 4	Nurs 791 Thesis Sustaining, M.S0
credits to apply toward degree. P, consent.	Nurs 792 Problems in Nursing Research1-2
Nurs 493 Special Topics in Nursing1-4	Nurs 795 Problems in Nursing Research Sustaining0
Study of selected topics in nursing under direction of faculty. Offered on	Title // D 110010mb m 1 massing account on a control of the contro
sufficient demand. Senior or consent of instructor.	
Nurs 494 Cooperative Education in Nursing1-4 Su Opportunity to receive academic credit for work experience related to	PE (Physical Education)
nursing. Course requirements and amount of credit granted will be	Undergraduate Courses
determined on an individual basis. Up to four credits may apply toward	PE 101-144 Fitness and Lifetime Activities0.5-1 FSSu
graduation. P, completion of two semesters of nursing major; permission	Activities stressing individual physical fitness and lifetime activities
of department head.	according to student needs and interest.
	PE 101 Aerobics1.0
Graduate Courses	PE 102 Aerobics, Water1.0
Nurs 610 Advanced Practice Nursing: Introduction Roles and	PE 103 Archery0.5
Issues3	PE 104 Badminton0.5
Nurs 623 Pathophysiology Applied to Advanced Practice	PE 105 Baseball0.5
Nursing4	PE 106 Basketball1.0
Nurs 624 Neonatal Pathophysiology4	PE 107 Billiards
Nurs 625 Human Sexuality in Health Care3	PE 108 Bow Hunting, Beginning0.5
Nurs 626 Advanced Nursing Research3	PE 109 Bowling0.5
Nurs 630 Advanced Assessment of the Neonate2	PE 110 Camping Skills1.0
Nurs 630A Advanced Assessment of the Neonate Clinical Lab0	PE 111 Canoeing/Hiking1.0
Nurs 631 Advanced Assessment Across the Lifespan3 Su	PE 112 Cross-Country Skiing1.0
Nurs 631A Advanced Assessment Across the Lifespan Clinical	PE 113 Cross Training
Lab0	PE 114 Cycling0.5 PE 115 Dance, Country1.0
Nurs 635 Dying, Death, and Bereavement	PE 116 Dance, Jazz1.0
Nurs 640 Legal & Ethical Accountability in Health Care	PE 117 Dance, Social1.0
Nurs 645 Management of Acute and Chronic Pain3	PE 118 Dance Variety1.0
Nurs 655 Health and the Older Adult	PE 119 Fishing Techniques1.0
Nurs 670 Health Policy, Legislation, Economics and Ethics3 Nurs 690 Seminar: Guided Study in Nursing1-4	PE 120 Fitness Thru Running1.0
Nurs 692 Special Problems1-3	PE 121 Fitness Thru Walking1.0
(the arm on lab on combination of those)	PE 122 Football, Flag
Nurs 695 Special Topics 1-3	PE 123 Frishee, Ultimate0.5
Nurs 710 Curriculum Development in Nursing2	PE 124 Golf0.5
Nurs 725 Patient Care Management3	PE 125 Racquetball0.5
Nurs 760 Health and Communication in Advanced Practice	PE 126 Recreational Activities0.5
Nursing4	PE 127 Restricted. P, consent1.0
Nurs 760A Health and Communication in Advanced	PE 128 Scuba Diving1.0
Practice Nursing Clinical Lab0	PE 129 Soccer0.5
Nurs 765 Interventions for Complex Problems in	PE 130 Softball0.5
Advanced Practice Nursing4	PE 131 Springboard Diving1.0
Nurs 765A Interventions for Complex Problems in Advanced	PE 132 Swim Conditioning0.5
Practice Nursing Clinical Lab0	PE 133 Swim, Beginning (Level 3)1.0
Nurs 770 Clinical Nurse Specialist Practicum6	PE 134 Swim, Intermediate (Level 4)1.0
Nurs 770A Clinical Nursing Specialization-Practicum Clinical	PE 135 Swim, Swimmers (Level 5-6)1.0
Lab0	PE 136 Tae-Kwon-Do1.0
Nurs 771 Family Nurse Practitioner: Primary Care6	PE 137 Tennis
Nurs 771A Family Nurse Practitioner: Primary Care Clinical	PE 138 Volleyball
Lab0	PE 139 Volleyball, Sand
Nurs 772 Neonatal Nurse Practitioner: Practicum I6	PE 140 Weight Training1.0 PE 141 Weight Training, Advanced1.0
Nurs 772A Neonatal Nurse Practitioner: Practicum I Clinical	PE 141 Weight Training, Advanced
Lab	PE 143 Special Topics1.0
Nurs 774 Nurse Administrator: Practicum	PE 144 Special Topics
Nurs 774A Nurse Administrator: Practicum Clinical Lab	PE 144 Special TopicsPE 155 Community Water Safety
Nurs 776 Family Nurse Practitioner: Small Group	PE 170 Fundamental Movement1 FS
Nurs 778 Nurse Educator: Practicum	Defining, analyzing and evaluating fundamental locomotor, non-
Nurs 778A Nurse Educator: Practicum Clinical Lab0	locomotor (axial) and manipulative skills, progressions in skill
Nurs 779 Neonatal Nurse Practitioner: Practicum II12	development.
Nurs 779 Neonatal Nurse Practitioner: Practicum II Clinical	<u>-</u>
Lab0	
Nurs 780 Seminar in Advanced Nursing1-3	l,
Nurs 785 Self Care of the Older Adult3	' '

PE 200 Skill Concept: Fitness1 F	PE 354 Prevention & Care of Athletic Injuries 2 FS
Knowledge and skill necessary to enable students to lead, analyze and	General care and treatment of athletic injuries, conditioning and training
prescribe movement skills and activities which are part of lifetime fitness	equipment of training room, taping for athletic injuries. P, junio
development. P, consent.	standing.
PE 201 Skill Concept: Gymnastics1 S	PE 354A Prevention & Care of Athletic Injuries Lab0
Knowledge and skill necessary to enable students to lead, analyze and	PE 360 Methods of Elementary School Physical Education 2 S
prescribe movement skills and activities which are part of gymnastics	Needs, characteristics, capacities of elementary school children (grades
movement. Focus will be on developmentally appropriate activities at the	K-6); curriculum planning; organizational problems; and methods and
elementary, middle and high school levels. P, consent.	materials essential to program progression in movement exploration
PE 202 Skill Concept: Individual and Dual Activity1 S	games, rhythms, fitness and basic skills. P, sophomore standing.
Knowledge and skill necessary to enable students to lead, analyze and	PE 360A Method of Elementary School Physical Education Lab0
prescribe movement skills and activities involved in participating in	PE 400 Exercise Testing and Prescription2 F
individual and dual sport and game activities. Focus will be on activities	This course is designed to provide the student with the knowledge and
and lead-ups appropriate for school settings, leading to personal skill	skills to assess physical fitness and prescribe individualized exercise
development. P, consent.	programs for healthy populations. P, 350 or consent.
PE 203 Skill Concept: Team Sport Activity1 F	PE 400A Exercise Testing and Prescription Lab0
Knowledge and skill necessary to enable students to lead, analyze and	PE 461 Methods of Teaching Physical Education 3 F
prescribe movement skills and activities involved in participating in team	Methods of teaching physical education activities in public schools, with
sport activities. Focus will be on activities appropriate for school settings,	emphasis on curriculum planning, principles of motor learning, special
which contribute to personal development. P, consent.	needs/diverse populations as they apply to structuring appropriate K-12
PE 204 Skill Concept: Rhythms and Dance1 S	activities. A significant amount of time will be spent learning and
Knowledge and skill necessary to enable students to lead, analyze and	applying skills related to technology and its use in the gymnasium, the
prescribe movement skills and activities involved in participating in	use of teaching models, and development of assessment packages
rhythms and lifetime dance activities. Focus will be on activities	intended to meet requirements of state and national physical education
appropriate for school settings, which contribute to personal	content standards for K-12.
development. P, consent.	PE 461A Methods of Teaching Physical Education Lab0
PE 205 Skill Concept: Recreational Activities1 F	PE 467-483 Coaching and Officiating 2 FS
Emphasis on student planning and leadership of recreational activities	Theory and practice of individual fundamentals and team strategies.
involving equipment, developing a resource notebook and gaining an	Organization and management procedures specific to each sport.
appreciation for the variety of recreational opportunities. Crosslisted with	Textbook work, lectures, visual aids, demonstrations. Techniques of
Recr 205.	officiating. ASEP Coaching Principles workshop required. P, junior
PE 241 Curriculum in Physical Education2 F	standing.
Philosophy, theory and application of current curriculum foundations in	PE 467A-483A Coaching and Officiating Lab0
physical education, including curriculum theory and design, curriculum	PE 467 Swimming
content, curriculum organization and assessment. P, sophomore standing.	PE 470 Basketball
PE 320 Lifeguard Training2 FS (alternate years)	PE 471 Football
The course focuses on skills and knowledge to properly assume	PE 472 Softball/Baseball
responsibilities of lifeguards at swimming pools and non-surf beaches.	PE 473 Track/Field
PE 320A Lifeguard Training Lab	PE 474 Wrestling
PE 321 Water Safety Instructor	PE 475 Volleyball
Method of instruction and evaluation of water safety techniques.	PE 476 Gymnastics
Participation may lead to American Red Cross Water Safety Instructor's	PE 483 Golf
certification. Does not substitute for PE 100. P, consent.	
PE 321A Water Safety Instructor Lab	Dual Numbered Courses
PE 322 Lifeguard Instructor	PE 450-550 Clinical Exercise Physiology2 SSu (alternate years)
Certification as a Lifeguard Instructor will qualify an individual to teach basic water safety, emergency water safety and the lifeguard training	This course is designed to provide the clinical exercise physiology
course. P, 321, CPR and First Aid Certificate.	student with assessment and prescription techniques appropriate to
PE 334 Assisting Teaching1 FS	special populations. P, consent.
Application of movement analysis, prescription knowledge and skills to	Spottar populations: 1, combonic
a team activity setting in a basic physical activity course. P, consent.	
PE 350 Exercise Physiology3 FS	Graduate Courses
Body processes and exercise; efficiency of muscular work, fatigue and	PE 730 Physical Education Teacher
exercise; age, sex and body type as related to exercise; nervous control of	Education3 FSSu (alternate semesters)
muscular activity; effect of exercise on the circulatory system. P, Zool	PE 732 Analysis and Strategies of Teaching and Supervising
221, junior standing.	Physical Education and Sport3 FSSu (alternate semesters)
PE 350A Exercise Physiology Lab0	PE 750 Applied Exercise Physiology3 F
PE 352 Adapted Physical Education2 S	PE 751 Laboratory Techniques in Exercise
Course designed to give the HPER major a better understanding of	Physiology2 (alternate years)
requirements of special needs students in PE environment. Includes	PE 751A Laboratory Techniques in Exercise Physiology Lab0
instruction on IEP, writing goals and objectives, working with disabling	PE 770 Advanced Administration of Interscholastic
conditions.	Athletics2 SSu (alternate years)
	PE 771 Current Trends in HPER &
PE 353 Biomechanics	Athletics 3 SSu (alternate years)
P, Zool 221 or 325, junior standing.	PE 772 Financial Aspects of Sports
, — or and or one, juntor standing.	Management 2 F (alternate years)
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Pha (Pharmacy)	Pha 442 Principles of Drug Action III
Undergraduate Courses	introduction to pharmacotherapy. P, 4th year standing.
Pha 201 Medication and the Consumer	Pha 442A Principles of Drug Action III Lab0
Principles of drug action, examination of medical and legal aspects of use	Pha 443 Principles of Drug Action IV 5 S
and misuse of prescription, non-prescription and illicit drugs. Not open to	Principles of medicinal chemistry, pharmacology, toxicology and
pharmacy students.	introduction to pharmacotherapy. P, 442.
Pha 241 Pharmacology 3 FS	Pha 443A Principles of Drug Action IV Lab0
Basics of pharmacology and therapeutics for nurses and others. P, Chem	Pha 445 Drug Literature and Research Design4 S
108, current enrollment in Zool 325.	Study in critical assessment of the medical literature, the exploration of available resource materials, and introduction of the elements required
Pha 310 Introduction to Pharmaceutical Care3 F	for performing clinical research. P, 4th year standing.
An introduction to the contemporary practice of pharmacy. Includes the	Pha 445A Drug Literature and Research Design Lab
historical basis of the profession, medical terminology, roles of	Pha 450 Drug Distribution Systems
pharmacists, and an introduction to the clinical care setting. P, 3rd year	Principles of contemporary pharmacy services in institutional and
standing.	community settings. P, 4th year standing.
Pha 310A Introduction to Pharmaceutical Care Lab	Pha 450A Drug Distribution Systems Lab0
Pha 311 Professional Communication Skills	Pha 460 Pharmaceutical Care Experiences1 S
Current theories and practice, oral and written, in interpersonal and professional communication. P, 3rd year standing, SpCm 101.	Introductory clinical experience which focuses on screening for disease
Pha 311A Professional Communication Skills Lab	risk factors, preventative care strategies and obtaining medical and
Pha 313 Pharmaceutical Calculations	medication histories.
Systems of weights and measures and mathematical problems	Pha 465 Professional Resources Management4.S
encountered in pharmaceutical practice. P, 3rd year standing.	Professional, economic, and social considerations influencing the
Pha 320 Introduction to Pathophysiology3F	organization and management of the delivery of pharmaceutical services.
Pathophysiology of significant and more common diseases will be	P, 430, 4th year standing.
discussed at a systems level with limited discussion at the cellular level.	Pha 465A Professional Resources Management Lab
Appropriate patient information will also be integrated for each disease.	Pha 491 Directed Studies
P. 3rd year Pharmacy standing or Nursing major, and Zool 325.	A study of an area of student's interest in which a pharmacy faculty member is competent but which is not covered by the regular courses. P,
Pha 323 Pharmaceutical Biochemistry4 F	consent.
Chemical structure, function, biosynthesis and catabolism of	Pha 492 Research Problems1-3 FS
biomolecules in order to understand the biochemical basis of disease and	Students may elect research problems in one of the pharmaceutical
the metabolism and mechanism of action of medicinal agents. P, 3rd year	sciences, biopharmaceutics, pharmaceutical chemistry, or
standing.	pharmacology; or in an appropriate area of pharmacy practice. P, consent.
Pha 324 Biomedical Science	Pha 493 Special Topics1-3 FS
Properties, activities, mechanism of action and therapeutic use of	Organized by an instructor in consultation with the Department Head and
biologics (e.g., monoclonal antibodies, vaccines, therapeutic proteins)	a group of students. The course will normally be taught only once or
and technologies involved in their production. P, 3rd year standing, 323. Pha 331 Pharmaceutics I	sporadically for a unique group of students.
Theory, preparation and application of pharmaceutical dosage forms and	Pha 645 Pharmacotherapeutics: Application to Advanced
drug delivery systems. P, 3rd year standing.	Practice4
Pha 332 Pharmaceutics II4 S	Current drug therapy principles with emphasis on drugs and
Theory, preparation and application of pharmaceutical dosage forms and	pharmacotherapeutics used in Family Nurse Practitioner practice. P, FNP
drug delivery systems, P. 331.	program enrollment.
Pha 332A Pharmaceutics II Lab0	Pha 646 Neonatal Pharmacotherapeutics
Pha 340 Principles of Drug Action I4 F	Principles of pharmacology in relation to unique neonatal physiologic
Principles of medicinal chemistry, pharmacology, toxicology and	and behavioral responses. Emphasis will be placed on drug administration, reasoned prescribing practices, and therapeutic drug
introduction to pharmacotherapy. P, 3rd year standing.	monitoring. Drug categories and specific preparations which are
Pha 340A Principles of Drug Action I Lab0	commonly used in the neonate will be reviewed in tandem with disease
Pha 341 Principles of Drug Action II	specific content.
Principles of medicinal chemistry, pharmacology, toxicology and	Pha 700 Directed Studies Clerkship4
introduction to pharmacotherapy. P, 340.	Pha 701 Home Health Care/Hospice Clerkship4
Pha 341A Principles of Drug Action II Lab0	Pha 702 Indian Health Service Clerkship4
Pha 415 Biopharmaceutics and Pharmacokinetics5 F Relationship of the physicochemical properties of drug formulations to	Pha 703 Pharmacy Administration Clerkship 4
the bioavailability of drugs. Application of pharmacokinetics to the safe	Pha 704 Nutrition Clerkship4
and effective therapeutic management of the individual patient. P, 331,	Pha 705 Clinical Research Clerkship4
332, and 4th year standing.	Pha 706 Critical Care Clerkship4
Pha 430 Pharmaceutical Jurisprudence3 F	Pha 707 Infectious Disease Clerkship4
State and federal laws and regulations. P, 4th year standing.	Pha 708 Surgery Clerkship4
Pha 441 Chemotherapeutic Agents2 F	Pha 709 Nephrology Clerkship4
Principles of medicinal chemistry, pharmacology, toxicology, and	Pha 710 Pharmacokinetics Clerkship4
introduction to pharmacotherapy of chemotherapeutic agents. P: 4th year	Pha 711 Oncology Clerkship4
standing.	Pha 712 Nuclear Pharmacy Clerkship4
	Pha 713 Managed Care Clerkship4 Pha 714 Community Pharmacy
	Clerkship experience at an affiliated site. P, 6th year standing.
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Clerkship experience at an affiliated site. P, 6th year standing. Pha 717 Community Pharmaceutical Care Clerkship	Discussion of drug therapy principles for the development of patient specific drug regiment in the areas of neurology and psychiatric medicine. P, 5th year standing. Pha 737 Therapeutics-Cardiopulmonary Discussion of drug therapy principles for the development of patient specific drug regimens in the area of cardiopulmonary disease. P, 5th year standing. Pha 738 Therapeutics-Hematology/Oncology Pha 738 Therapeutics-Hematology/Oncology 2 S Discussion of drug therapy principles for the development of patient specific drug regimen in the areas of hematology and oncology. P, 5th year standing. Pha 739 Therapeutics-Rheumatology/Skin/Skeletal 2 F Discussion of drug therapy principles for the development of patient specific drug regimen in the areas of rheumatology, dermatology, and skeletal diseases. P, 5th year standing. Pha 740 Advanced Pharmacology An advanced and comprehensive study of the therapeutic and toxicological effects of drugs including the mechanism of action.
professional-client relationship. P, 5th year standing. Pha 724 Pharmacoeconomics2 S	Emphasis will be placed on their rational application to the treatment of disease. P, Pha 443 or consent.
The pharmacoeconomic principles used to evaluate medications, with emphasis on the use of therapeutic outcomes to compare cost effectiveness of therapeutic agents. P, 5th year standing. Pha 725 Topics in Medicinal Chemistry Selected areas covering more advanced concepts in medicinal chemistry.	Pha 743 Pharmacy Care in the Community
new research techniques. P, Pha 341 or consent.	A study of current advanced theories in pharmacology. P, Pha 443 or
Pha 727, U.S. Health Care Systems2 F An overview of the health care system in the U.S. and its impact on	consent. Pha 750 Critical Care Therapeutics2 S
pharmacy practice will be addressed. Emphasis will be placed on managed care, non-pharmacist health care providers, pharmaco-	Principles of medication use in the critically ill patient. P. 5th year standing.
economics, drug utilization, and quality assurance and improvement. P. 5th year standing.	Pha 751 Immunotherapeutics2 S Therapeutic use and pharmacology of newer immunologic agents,
Pha 728 Current Issues in Pharmacy Practice3 F	engineered drugs, and biotechnological products. P, 5th year standing.
Theory and development of pharmaceutical care concepts. Discusses role of a contemporary pharmacy practitioner within the framework of the U.S. health delivery system. Pharmacy ethics is discussed. P, 5th year	Discussion of psychoactive drugs, both legal and illegal, that have potential for abuse. P. 5th year standing
standing. Pha 729 Pharmaceutical Marketing2 F	Pha 753 Women and Children's Health2 F
Discussion of the marketing functions of the pharmaceutical	•
manufacturer, the wholesaler, and the pharmacy practitioner. P, 5th year standing. Pha 730 Advanced Pharmacotherapeutics I	Pha 754 Alternative Medicines
Organ-based approach to the use of patient-specific factors for drug therapy in individualized patient situations. Integrates pathophysiology	emphasis on their appropriate evaluation and use. Pha 755 Research Design and Drug Information4 F Advanced study in critical assessment of the medical literature with
and drug therapy principles. Pha 730A Advanced Pharmacotherapeutics I Lab0 Pha 731 Advanced Pharmacotherapeutics II	emphasis on the elements of scientific research. Studies components of viable research proposals and includes independent work to develop a proposal.
Continuation of 730. P, 730.	Pha 755A Research Design and Drug Information Lab0
Pha 731A Advanced Pharmacotherapeutics II Lab	Pha 759 Advanced Pharmaceutics
specific drug regimens in the areas of renal and fluid and electrolytes. P,	Pha 760 Clinical Pharmacokinetics3 S
5th year standing. Pha 733 Therapeutics-Gastrointestinal and Nutrition3 S	Advanced pharmacokinetic principles, with emphasis on drug dosing on individual patient basis.
Discussion of drug therapy principles for the development of patient	Pha 765 Topics in Pharmaceutics3
specific drug regimens in the areas of gastrointestinal disease and nutrition. P, 5th year standing.	Selected areas covering more advanced concepts in pharmaceutics, new research techniques. P, Pha 415 or consent.
Pha 734 Therapeutics-Endocrine/Reproduction2 F Discussion of drug therapy principles for the development of patient	Pha 770 Pediatrics Clerkship
specific drug regimens in the area of endocrine and reproductive	Pha 771 Geriatrics Clerkship4 Pha 772 Internal Medicine I Clerkship4
medicine. P, 5th year standing.	Pha 773 Internal Medicine II Clerkship4
Pha 735 Therapeutics-Infectious Disease	Pha 774 Ambulatory Care Clerkship4 Pha 775 Psychiatry Clerkship4
specific drug regimens in the area of infectious disease principles. P, 5th year standing.	4
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Pha 780 Seminar	Selected topics of current interest in the discipline.
Contemporary topics in the pharmaceutical sciences. Required of all graduate students in pharmaceutical sciences. Maximum of two credits.	Phil 495 Internship1-12 FSSu
Pha 784 Seminar I1 S	Planned and supervised professional experience which takes place
Discussion of current pharmacy and other health care issues and includes	outside the formal classroom with private business or industry, or public
developing and delivering a short presentation. P, 5th year standing.	agencies. P, consent of department program coordinator.
Pha 785 Seminar II1 S	1 1 0
Continuation of 784, with emphasis on discussion of clinical pharmacy	Decal Marish and Counges
concepts and professional presentations. P, 784.	Dual Numbered Courses
Pha 790 Thesis in Pharmaceutical Sciences1-7	Phil 492-592 Special Problems in Philosophy1-3
Pha 791 Directed Studies1-3 FS	Individual guided research culminating in formal research paper or series
In-depth study in a subject area compatible with the student's interests.	of essays. May be repeated until 6 credits are earned.
Pha 793 Special Topics in Pharmacy1-3 FS	
Selected topics of current interest in pharmacy. P, consent of instructor	
and 5th year standing.	Phys (Physics)
and but John Dimining.	· · · · · ·
	Undergraduate Courses
Phil (Philosophy)	Phys 101 Survey of Physics4 FSSu Survey of Physics is a one-semester course designed to cover broad
	topics such as mechanics, states of matter, wave motion, sound, and
Undergraduate Courses	electricity and magnetism. Focus will be given to development of
Phil 100 Introduction to Philosophy3 FSSu	students' critical thinking skills. Students will be challenged to apply
Inquiry into some of the basic problems of philosophy leading to an	these skills to conceptual-type situations as well as problems that require
appreciation of the place and value of philosophy in the intellectual	a fundamental knowledge of basic algebra. Emphasis will also be placed
community, and intellectual activities of the student.	on empowering students to make application of the concepts developed.
Phil 200 Introduction to Logic3 FSSu	to their own areas of study. Concurrent registration in Phys 102 is
Investigation of informal and formal (symbolic) reasoning to promote	required. P, Math 102 or 113. (Credit will not be allowed for both Phys
thoughtfulness in one's academic and personal life.	101 and 111-113 or 211-213.)
Phil 215 Introduction to Social/Political Philosophy3 FS	Phys 102 Survey of Physics Lab0 FSSu
The search for order for society; major political and social theories from	Laboratory for Physics 101, Survey of Physics. Concurrent registration in
Socrates to the present and critical analysis of these theories. The relation	Phys 101 is required.
of theories of human nature, metaphysics, epistemology, and ethics to the	Phys 111 Introduction to Physics I4 FSSu
order in society.	First semester of a year course, primarily for students in the biological,
Phil 220 Introduction to Ethics	agricultural, and health sciences. Mechanics, heat, wave motion.
Major ethical theories, investigation of some of the problems arising from	Concurrent registration in Phys 112 is required. P, Math 102 or 113.
these theories, and a critical analysis of the validity of these theories in	(Credit will not be allowed in both Phys 111-113 and 211-213.)
light of the students' ethical intuitions.	Phys 112 Introduction to Physics I Lab0 FSSu
Phil 313 Great Philosophers: (Topical)2-3 FSSu	Laboratory for Physics 111, Introduction to Physics I. Concurrent
Explores the thinking of a selected philosopher. Seeks to understand the ideas behind the philosopher's thinking and their implication for the	registration in Phys 111 is required.
modern world. (May be repeated for a total of 9 hours).	Phys 113 Introduction to Physics II4 FSSu
Phil 320 Professional Ethics3 S (alternate years)	Continuation of Phys 111. Electricity, light, atomic and nuclear physics.
The study of major normative ethical theories and their application to	Concurrent registration in Phys 114 is required. P, 111.
concrete ethical situations likely to arise in the professional workplace.	Phys 114 Introduction to Physics II Lab0 FSSu
Emphasis placed on potential conflicts between the goals of the	Laboratory for Physics 113, Introduction to Physics II. Concurrent
professions and the imperatives of the ethical life, and possibilities for	registration in Phys 113 is required.
resolution of such conflicts.	Phys 185 Introduction to Astronomy 3 FS
Phil 331 Philosophy of Science3 FS	Introductory course: moon, sun, planets, constellations, galaxies, stellar
An investigation into the nature of science from the perspectives of the	evolution, radio astronomy, black holes, instrumentation, use of
scientific disciplines themselves and from the study of the history of	telescopes for viewing.
scientific development. Inquiry into the structure of scientific method, the	Phys 211 University Physics I
scope and limitations of scientific knowledge, and the implications of	For students in physical science and engineering, Mechanics and
competing paradigms of scientific world view.	Thermodynamics. Concurrent registration in Thys 212 is required. 1,
Phil 332 Environmental Ethics	Math 123. (Credit will not be allowed in both Phys 111-113 and 211-
Crosslisted with Rel 332.	213.)
Phil 370 Philosophy of Religion3 FS	Phys 212 University Physics I Lab FSSu
Topics such as proofs for the existence of God, religious knowledge,	Laboratory for Physics 211, University Physics I. Concurrent registration
religious language, the nature of God, the nature of the holy, and the	in Phys 211 is required.
nature of religious experience. Crosslisted with Rel 370. No	Phys 213 University Physics II
prerequisites.	Continuation of Filys 211. Electricity, waves, and optics. Concurrent
Phil 383 Bioethics4	registration in Phys 214 is required. P, 211.
Crosslisted with Bio 383.	Phys 214 University Physics II Lab FSSu
Phil 423 Political Philosophy3 FS	Laboratory for Physics 213, University Physics II. Concurrent
Crosslisted with PolS 461.	registration in Phys 213 is required.
Phil 424 Modern Political Philosophy3 FS	
Crosslisted with PolS 462.	

Crosslisted with PolS 462.

Phys 312 Measurement Theory and Experiment Design	Phys 471 Quantum Mechanics
Phys 314 Advanced Laboratory I	The formulation and solution of problems in the various fields of physics. Topics chosen from: series solutions, special functions, computational methods, complex variables, multi-variate methods and transform methods. P, 331, Math 331, or consent.
collection and analysis. P, 312 and 331 or consent. Phys 331 Introduction to Modern Physics	Phys 490 Physics Colloquium
Phys 341 Thermodynamics & Statistical Mechanics	Phys 492 Special Problems in Physics1-3 FSSu Individual study in physics for qualified students at the junior or senior level. The course may be repeated for a maximum of six credits toward the B.S. degree in physics or engineering physics. P, consent.
mechanics. P, 331 and Math 225. Phys 343 Statistical Physics and Thermodynamics	Phys 493 Special Topics
Phys 351 Classical Mechanics	Experience1-4 FSSu
Newton's Laws, motion in one and three dimensions, central forces, harmonic oscillations, non-inertial reference frames, rotations of rigid bodies, and Lagrangian Mechanics. P, 113 or 213 and concurrent registration in Math 321.	Planned and supervised professional experience related to physics or engineering physics which takes place outside the formal classroom with private business or industry, or public agencies. P, consent.
Phys 361 Optics	Dual Numbered Courses
Intermediate course in geometrical and physical optics with emphasis on	Phys 433-533 Nuclear and Elementary Particle Physics
physical optics. Analysis of refraction phenomena, thick lenses, wave nature of light, interference, diffraction, and polarization. P, 213 or 113	Radioactivity, nuclear spectra and structure, nuclear models, elementary particle theories and high energy physics. P, 471.
with consent and Math 225. Phys. 412 Advanced Lob II	Phys 441-541 Science of Solids3 F
Phys 412 Advanced Lab II	Topics covered to satisfy student interests in areas such as magnetism,
life, beta decay, positron annihilation, neutron capture, bubble chamber events, nuclear statistics, etc.	semi-conductors, superconductors, ferroelectrics, and devices based on these aspects of solids. The role of defects in solids and strength of
Phys 421 Electromagnetism	materials may also be included. P, 439 or consent.
and magnetic materials. Development of Maxwell's equations, and	Graduate Courses
applications. P, 213 and Math 321. Phys. 431 Introduction to Astrophysics.	Phys 693 Special Topics
Phys 431 Introduction to Astrophysics	Phys 694 Special Problems1-3 FSSu Phys 700 Seminar0-1
application of the principles of atomic structure and radiation laws to the	Phys 721 Electrodynamics I
interpretation of stellar and nebular spectra, energy generation by	Phys 723 Electrodynamics II
thermonuclear reactions and nucleosynthesis, theoretical and	Phys 743 Statistical Mechanics3
observational aspects of stellar evolution and the constituents and	Phys 751 Theoretical Mechanics
structure of stellar systems. P, 331. Phys 435 Introduction to Nuclear Engineering	Phys 771 Quantum Mechanics I
Design of nuclear fission and fusion reactors and particle accelerators	Phys 773 Quantum Mechanics II
including discussion of basic nuclear properties, the fission process and	Phys 779 Group Theory in Quantum Mechanics
reactor control, fusion reactors, environmental effects and nuclear waste	Phys 780 Theoretical Physics3-18
management. P, 331 or consent.	Phys 790 Thesis5-7
Phys 439 Physics of the Solid State3 S	Phys 791 Thesis Sustaining0
Electronic processes with reference to electrical properties of metals,	Phys 792 Research or Design Paper
semiconductors and insulators. P, 331 and Math 321. Phys 464 Senior Design I1 FSSu	Phys 793 Special Topics
Capstone senior design project. The student will write the specifications	Phys 794 Special Problems1-3 Phys 795 Research or Design Paper Sustaining0
for a design project and complete the initial design phase for this project	Phys 797 Research1-9
addressing economic, environmental, social and success criteria.	PHST 601 Physics Topics for Educators1-12 FSSu
Phys 465 Senior Design II2 FSSu	
Capstone senior design project. The student will construct, assemble, and	
test the project they designed in Phys 464, P. 464.	

Laboratory portion of Phys 465.

test the project they designed in Phys 464. P, 464.

Phys 465A Senior Design II Research0 FSSu

PolS 316 SD Legislative Issues1 S Plan (Planning) Study of the South Dakota legislative process and the issues being considered by the South Dakota legislature. Course involves class trip to **Dual Numbered Courses** Pierre to observe the legislature in action. Plan 471-571 Principles of State, Regional and Community Planning3 F U.S. public administration; basic elements of administration: personnel, Purpose, structure, and dynamics of the planning process. Identification budgeting, planning, organization and management; and importance of of different types of planning. Inter-dependencies among persons who federal executives in shaping public policy. contribute to the planning process and are trained in separate academic PolS 330 Constitutional Law......3 F disciplines. Basic techniques employed within different phases of the Structure and jurisdiction of federal judiciary. Legal basis of American planning process. P, Enrollment within a minor in planning at the federalism. Constitutional powers of American Presidency, U.S. Master's level or consent. Congress and state governments as interpreted through U.S Supreme Plan 472-572 Techniques of State, Regional and Community Court decisions. Reasoning of the Court and evolutionary nature of Planning......3 S (even years) American constitutional law. Brief review of basic approaches, procedures and methods employed PolS 331 Civil Rights and Liberties3 S within different phases of the planning process. Coordination required Individual First Amendment guarantees, constitutional rights of the among persons trained in separate academic disciplines in order to carry accused in the criminal process and equal protection of the law as out these basic techniques. Exercises in the practical application of interpreted through U.S. Supreme Court decisions. Crosslisted with CJus selected techniques and review of their applications in ongoing to completed planning efforts. P, 691. PolS 341 European Democratic Governments 3 F Comparative study of selected governments of West Europe, especially See also specialized courses in planning within departmental listings Britain, France, Germany and Italy; decision-making institutions; in Economics; Education; Engineering; Geography; Horticulture, political culture; political parties. Forestry, Landscape and Parks; Political Science; and Sociology. PolS 343 Russian Politics3 F Study of government, politics, and some aspects of society in Russia and the region; emphasis on current politics. **PolS** (Political Science) PolS 345 Canada...... 3 S Political institutions and patterns; The Constitution and federalism; **Undergraduate Courses** Ouebec and Canada; U.S. – Canadian relations. PolS 100 American Government 3 FSSu PolS 347 Latin American Politics3 S Origins, development and operation of American government at the Comparative analysis of mainly larger Latin American countries. national level. Concentration on political institutions. (Credit not allowed Political institutions, social movements and patterns of change, political for both 100 and 101.) culture, civil-military relations, development strategies. PolS 101 American Government Honors3 F PolS 350 International Relations 3 S Small group discussion of principles of American government for How nations/states behave and why they behave as they do in their students with superior high school background. By invitation (credit not relations with each other. PolS 352 European Union.....3 F allowed for both 100 and 101). PolS 102 American Political Issues3 FSSu An interdisciplinary offering which examines integration theory and the Current major issues in American politics, governmental policies and structures and politics of the European Community. The theme of the various alternatives being considered in Congress. course's content will vary from offering to offering in order to accommodate the availability of cooperating instructors from other Ideas defending communism, fascism, and democracy, including variations such as democratic socialism, Christian democracy, capitalism, PolS 428 Personnel & Budgetary Administration3 S liberalism, New Left, neo-conservatism, liberation theology. Practice of Contemporary personnel and budgetary systems in the public sector. Role ideology. Concepts of comparative analysis. of the civil servant in government and society, and the political and PolS 210 State & Local Government....... 3 FSSu technological factors which influence the budget. Legal status, forms and functions, interrelationships, current trends and PolS 432 The American Presidency3 F suggested reforms. The Presidency in the American political system, its powers and PolS 253 Current World Problems...... 3 F limitations, and the role individual presidents have played in its An examination of several current world problems with a focus on development in the 20th century. creating world order. Course content varies to accommodate current PolS 433 Administrative Law and Government 3 F Meaning and historical development of administrative law, legislative PolS 305 Women & Politics3 S and judicial controls, the administrative process and remedies against Study of the role women play in the American political process as improper administrative acts. activists as well as voters in the late 20th century. Particular emphasis is PolS 435 Political Parties and Campaigns3 S placed on barriers women face in gaining access to political power in U.S. political parties; functions, organization, techniques and public and private institutions, and the impact legislation and court significance of parties; varieties of state and local systems; and behavior decisions have had on the role of women in American society. No of the electorate and interest groups. prerequisites. Crosslisted with WmSt 305. PolS 438 The Legislative Process 3 F PolS 310 Tribal Government and Politics3 Congress and state legislatures: functions, organization, leadership,

A comparative examination of the structures and the politics of several

contemporary tribal governments and their relationship to both the

federal and state governments. Brief examination of modern Indian

movements and their impact on politics at both the tribal and federal

levels. Crosslisted with AIS 310.

procedures, and participants. Influence of chief executives,

PolS 446 China & Asian Politics3 S

Historical factors and events contributing to present governmental

structures, ideologies, and political issues in the area. Emphasis on China

bureaucracies, interest groups, and political parties.

and Japan.

Pols 454 International Law and Occurrent to the Care	DD cool D is a
PolS 454 International Law and Organizations 3 F (even years) An examination of the rules and principles accepted by the members of	PR 300A Park Operations and Facility
the community of nations and some of the organizations that they create	Management Lab
under these rules and principles.	Principles and methods employed to promote resource awareness and
PolS 461 Early Political Philosophy 3 S	communicate information about natural, cultural, and managerial features
Types of political theory in historical development. Basis on which these	of parks and recreation areas to park visitors and resource users. The
theories rest and the explanatory power of the various thought structures.	planning, development and use of interpretive techniques and media such
Includes Plato, Aristotle, Machiavelli, and Hobbes. Crosslisted with Phil 423.	as personal services, public relations, publications, audio-visual
PolS 462 Modern Political Philosophy3 F	programs, exhibits, and environmental education activities. P, 101, 202 or by consent.
Same approach as 461. Major political theorists after Hobbes including	PR 301A Park Interpretation Lab0
Locke, Rousseau, Mill, Marx, Nietzsche, and others. Crosslisted with	PR 302 Commercial Recreation Areas3 S (alternate years)
Phil 424.	Factors represented by commercial recreation areas to include history,
PolS 490 Seminar in Political Science	trends, supply, demand, relationships to tourism, management,
Selected Political Science fields. May be repeated until 6 credits are earned.	development and technical assistance. P, 101, 202 or by consent.
PolS 492 Special Problems 1-3	PR 303 Forest Ecology and Management3 F The basics of environmental factors which control the growth of trees and
Individual guided research. May be repeated until 6 credits are earned.	forests and how forests in North America are managed.
PolS 493 Topics in Political Science1-5	PR 401 Advanced Park Management
Study of current issues or concerns in political science.	Current philosophies, advanced techniques, and synthesis of park
PolS 495 Internship in Political Science1-12 FSSu	management principles. P, 101, 202, 300 and 301 or by consent.
Approximately one credit for each week spent in internship projects off- campus. Written reports and/or a final oral examination will be required.	PR 401A Advanced Park Management Lab0
Application for permission to register must be made prior to registration.	PR 492 Special Problems1-2 FS
Non-Political Science majors must show appropriate background. Credits	Directed independent study into specific problems or topics related to park and recreation resource management. Maximum of 4 credits. P,
do not count toward meeting the minimum requirements in the major or	consent.
minor. May be repeated until 12 credits are earned. Graded P or F.	PR 493 Special Topics1-4 FS
	Special course offering to address specific topics of current interest to
Dual Numbered Courses	students and professionals in the field of park and recreation resource
PolS 460-560 Topics in Political Science1-4	management. PR 494-495-496 Cooperative Education/Internship/Field
An intensive examination of significant political themes, issues, or	Experience in Park Management1-12 FSSu
problems. Topics will include, but are not limited to, the following:	Select either (a) or (b):
Republics and Self-Government; The Constitution and Civil Liberties; Parties, Elections and Campaigns; Presidential-Congressional	(a) Field Work Experience. Summer work experience with department
Relationships.	approved park or recreation system, agency, or institution. One credit per
	semester or equivalent time unit.
Graduate Courses	(b) Professional Internship. A supervised on-the-job practical experience program for selected Park Management students. P, Junior
Consent required of those students not majoring or minoring in	standing and must have completed 2 years of the Park Management
Political Science.	curriculum, or consent of adviser. 3-12 credits per semester.
PolS 592 Special Problems 1-2-3 FSSu	
	PS (Plant Science)
PR (Park Management)	Undergraduate Courses
	PS 101 Opportunities in Plant Science1 F
Undergraduate Courses	An introduction to the diversity of disciplines within the Plant Science
PR 101 Parks and Society	Department; an overview of career opportunities; resume development;
fundamentals governing public park and recreation agencies. Includes	and career goal setting for professions within the plant sciences.
administrative organization, history, types and benefits of parks.	PS 103 Crop Production2 FS
PR 202 Outdoor Recreation Resource	Practices and principles; crop distribution; growth processes; response to
Management3 S (alternate years)	environment. Grain and forage crops, including their distribution, use, improvement, growth, harvesting, and marketing.
Development and management of outdoor recreation areas and resources	PS 103A Crop Production Lab
including planning, administration, and management practices as they	PS 213 Soils2 FSSu
relate to parks, forests, land and water resources, wildlands, and private areas. Analysis of participation trends, opportunities, and resource	Development and classification of soils; physical, biological, and
supply P, 101 or consent.	chemical properties; management aspects, including water, fertility, and
PR 202A Outdoor Recreation Resource Management Lab	erosion; soils in the environment. P, Chem 106-107.
PR 300 Park Operations and Facility	PS 213A Soils Lab1 PS 223 Principles of Plant Pathology
Management3 F (alternate years)	Principles underlying cause, spread, symptomology, diagnosis, and
Principles and practices of park operations and facility management	control of plant diseases. Principles exemplified by detailed study of
including planning, fiscal and personnel management, regulations,	specific diseases. Laboratory stresses diagnosis and experimental
liability, visitor safety and control, and the maintenance and protection of natural resources, equipment, and related facilities. P, 101, 202 or	elucidation of principles. P or concurrent registration in, Bio 103-104 or
consent.	153-154 or Bot 201-202.
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	PS 223A Principles of Plant Pathology Lab1	during the fall semester to compete in regional and national contests. P,
	PS 243 Geology 3 FS	103-103A and 308-308A.
	The earth's crystalline and sedimentary materials, their characteristics	PS 321 Soil Judging
	and economic uses together with soil development and water flow	Practical experience in evaluating the physical and chemical properties of
	through these materials are examined as a basis for conservative	soils important in soil judging and in making land use decisions. Soil
,	management of the earth's surface. The hazards of flooding, earthquakes,	forming factors, soil classification, land use interpretations, and soil
	volcanism, mass movement, etc. are also studied from a minimization-of-	morphology. Participation in regional intercollegiate soil judging contests and field trips. May be repeated for a maximum of 3 credits. P, 213-213A,
	risk perspective. P, 213-213A.	310-310A recommended.
	PS 244 Geology Lab	PS 323 Soil Fertility & Fertilizers3 S
	One week of hands on travel and study. The course will begin with the	Soil fertility management and its effects on the growth of crops, including
	study of glacial geology of eastern South Dakota. The class will then travel to west central South Dakota where sedimentary formations will be	evaluation, uptake and utilization of specific ions by plants, use of
	observed. In the Black Hills of western South Dakota metamorphic and	fertilizer elements to alter soil fertility, importance of crop residue
	igneous rock formations will be studied. Mountain building and mountain	management to maintain and improve productivity, and chemical
	leveling processes will be observed and discussed. P, 243, or concurrent	composition of fertilizers and their characteristics. P, 213-213A.
	registration in 243.	PS 333 Diseases of Field Crops2 S (odd years)
	PS 303 Seed Technology1 F	Extensive survey of diseases affecting major food, fiber, and oilseed
	Seed testing; history, testing methods, and seed testing organizations.	crops of the world. Emphasis is on diagnosis and disease management
	Seed development, maturation, anatomy, physiology, dormancy, and	strategies. P, 223-223A.
	aging processes. Identification and classification of crop and weed seeds.	PS 333A Diseases of Field Crops Lab1
	P. 103-103A or Ho 111-111A, Bot 201-202.	PS 334 Diseases of Horticultural Crops 2 F (odd years)
	PS 303A Seed Technology Lab1	Diagnosis and control of horticultural crop diseases. Emphasis is placed
	PS 305 General Entomology2 F	on diagnostic skills. Crops covered include shade trees, fruit crops,
	An introduction to the general biology and classification of insects.	vegetables, bedding plants, tropicals, and turf. P, 223-223A.
	Course emphasis placed on taxonomy, methods of identification, and	PS 334A Diseases of Horticultural Crops Lab
	ecological role of insects. Students will become familiar with basic insect	PS 343 Weed Science 2 F
	anatomy and morphology, classification at the order level with exemplary	Fundamentals of mechanical, cultural, biological and chemical weed control practices and factors affecting control. Herbicide classification
	families that include taxa of agricultural or environmental interest, and	and mechanism of action. Plant and seed identification of common weeds
	acquire an ability to sight recognize particular species that have	of North Central States and their interaction with desirable plants. P, 103-
	agricultural, environmental, wildlife, and human and livestock health importance. Field trips and a collection are required.	103A or Ho 111-111A, and Chem 120-121.
	PS 305A General Entomology Lab	PS 343A Weed Science Lab
	PS 307 Insect Pest Management	PS 362 Environmental Soil Management
	Covers the major insect pests of the Northern Great Plains with emphasis	Management systems designed to maintain soil productivity and
	on field biology, recognition, field scouting, and economic thresholds.	environmental quality are examined. Soil problems important in
	Pest management strategies of insects affecting row crops, small grains,	production systems and environmental management including
	hayland and rangeland will be included. Pesticide application methods	compaction, erosion, and nonpoint pollution are analyzed based on
	and safety are included.	underlying environmental and agronomic principles. Computer
	PS 307A Insect Pest Management Lab1	simulation models are used and applied to soil problems. P, 213-213A.
	PS 308 Grain Grading1 S	PS 362A Environmental Soil Management Lab
	Grain grading, crop and weed seed identification. Grain market grading	PS 373 Rural Real Estate Appraisal2 F Principles and practices of rural real estate appraisal. Principles of soils
	and quality determinations. Plant identification of field crops and weeds	valuation and their application for farmland appraisal. Cost, market data,
	of major importance in the United States. P, 103-103A, and 303-303A	and income approaches to farmland and building appraisal. Tax loan and
	recommended. PS 308A Grain Grading Lab1	other specialized rural appraisal procedures. Half-day field trips to area
		farms are required. P, 213-213A and AgEc 271-271A. Crosslisted with
	PS 310 Soil Geography & Land Use Interpretation	AgEc 373.
	Relationship of soil characteristics and soil classification to land use	PS 373A Rural Real Estate Appraisal Lab1
	interpretations. Laboratory exercises involve field and laboratory	PS 383 Principles of Crop Improvement2 F
	procedures used in soil survey investigations. Field trip. P, 213-213A or	Evaluation of crop species, reproduction in crop plants, use of genetic
	Geog 132-132A. Crosslisted with Geog 310.	variability, traits of interest, breeding programs, designs and
	PS 310A Soil Geography & Land Use Interpretation Studio1	management. Heritability, plant introduction, vegetative propagation,
	PS 312 Grain & Seed Production & Processing 2 S (even years)	hands-on lab demonstrations. P, PS 103-103A or Ho 111-111A and Bio
	Distribution, adaptation, and culture of grain crops. Production and	103-104, or Bio 153-154, or Bot 201-202. Crosslisted with Ho 383.
	harvesting of seed crops. Seed processing, cleaning procedures,	PS 383A Principles of Crop Improvement Lab1
	machinery, conditioning drying, storage, and marketing; production of	PS 440 Crop Management with Precision Farming2
	certified and hybrid seed crops. P, 103-103A or Ho 111-111A.	Principles of precision farming for crop production will be the focus. An
	PS 313 Forage Crops & Pasture Management2 F	integrated approach to crop management based on global positioning, geographic information systems, soil testing and fertility
	Grasses and legumes; their establishment, management, and use for hay,	recommendations, spatial data storage, and data interpretation for
	pasture, and silage. P, 103-103A. PS 313A Forage Crops & Pasture Management Lab	farming and land use decisions will be covered. The use of spatial
	PS 320 Crop Judging 1 or 2 F	statistics to make site specific management recommendations will be
	Advanced course in seed and plant identification of crops and weeds,	discussed. P, PS 223-223A, 305-305A or 307-307A, 323, 343-343A, and
	seed analysis and grain grading. Students are expected to enroll in Grain	Stat 281.
	Grading (PS 308) the preceding spring semester and to enroll in PS 320	PS 440A Crop Management with Precision Farming Lab1
	- F	PS 475 Water Quality in Agriculture 3 S (even years)

PS 450-550 Field Studies in Plant Disease Diagnosis1 An integration of a wide variety of topics intended to give students an introduction to the complex interactions between water supplies, Diagnoses of diseases in field and horticultural crops; observing and demands, and water quality. P, Chem 106-107 and Bio 101-102 or 151studying the relationships among hosts, pathogens, and their 152. Crosslisted with Bio 475. environments. Emphasis on field disease recognition and laboratory PS 483 Irrigation - Crop & Soil Practices...... 3 S (even years) diagnostic techniques. Alternate years. P, consent. Problems of irrigated agriculture. Soil salinity and salt-affected soils, PS 450A-550A Field Studies in Plant Disease Diagnosis Lab...........1 water quality, management of irrigated crops; cropping systems; water, PS 453-553 Advanced Genetics3 F (even years) fertility requirements of irrigated agriculture, water movement, storage, Procedures in genetic studies as they relate to molecular and classical and release in soils. P, 213-213A and Math 102. genetic applications. P, Bio 371. Crosslisted with Bio 453-553. PS 490 Undergraduate Seminar1 FS PS 462-562 Molecular Biology I2 F Review of literature and original investigations in field crops, Charge, Partitioning Migration of Molecules; Protein Structure, entomology, plant pathology, and soils with written and oral reports. Enzymes; DNA Structure and Properties, Prokaryotic and Eucaryotic PS 492 Special Problems1-4 FSSu Conjugation, Transduction and Transformation; DNA Replication and Assigned readings, research, and written reports. Limit of four hours for Repair; Genetic Recombination; RNA Structure and Properties; RNA B.S. degree. P, consent. Replication and Repair; mRNA Synthesis and Processing; Kinetics; PS 494 Cooperative Education/Internship in Plant Chromosomes and Chromosome Replication. P, Micr 436 and Chem 361. Science1-2 FSSu Crosslisted with Bio 462-562. Planned and supervised professional experience related to the plant sciences which takes place outside the formal classroom with private Structure of the nucleus; endocytosis; genome of mitochondria and business, industry, or public agencies. Provides practical experience to chloroplasts; cell growth and division; cancer; immune system; pattern formation; homeoboxes; intracellular transport; gene expression and supplement classroom training and reinforce career objectives. Written and oral reports required. Application for permission to register must be regulation. P, 562-662. Crosslisted with Bio 464-564. made prior to the experience. May be repeated for a maximum of 4 PS 465-565 Molecular Biology II Laboratory 2 S credits. P, consent of department program coordinator. Screening recombinant DNA libraries; DNA sequencing; analysis of proteins; detection of proteins; RNA transfer and hybridization analyses; use of nucleic acid and protein databases. P, 562-662 and 563-663. **Dual Numbered Courses** Crosslisted with Bio 465-565. PS 412-512 Environmental Soil Chemistry3 S (odd years) PS 480-580 Environmental Stress Physiology.......3 S (even years) Fundamentals of soil chemical properties and processes important for the Physiology and cellular response of plants to environmental stresses. P, sound management of soil resources. Topics include sorption/desorption Bot 327. Crosslisted with Bio 480-580 and Ho 480-580. of inorganic and organic compounds, bioavailability of nutrients and PS 493-593 Special Topics1-6 (1-3 per credit) FSSu contaminants, oxidation/reduction, phase equilibria, soil organic matter, Concentrated study, work, or discussion of a particular field in the plant soil mineralogy, ion exchange, and saline/sodic soils. P, Chem 120-121 or science disciplines. Subject areas vary from semester to semester. Based 112-113, and PS 213-213A. on interest of students and professionals needing additional study and PS 415-515 Mycology2 F (odd years) investigation of topics for which there is a current need but which are not Comprehensive taxonomic survey of the Kingdom Fungi; reproductive part of a regular class. Offered on sufficient demand. P. consent of biology, physiology, genetics, and ecology of fungal organisms; instructor. relationship of fungi to human affairs. Crosslisted with Bio 415-515. PS 415A-515A Mycology Lab1 **Graduate Courses** PS 420-520 Biological Control of Arthropods2 F (odd years) PS 700 Special Topics 1-6 (1-3 per credit) FSSu Introduction to the principles of biological control of arthropod pest populations through the use of natural enemies, including parasites, PS 704 Virus & Bacterial Diseases of Plants2 F (even years) parasitoids and predators. Topics will include the history, theory, and PS 704A Virus & Bacterial Diseases of Plants Lab......2 practice of biological control, and relevant aspects of the genetics, PS 714 Genetics of Disease Resistance and ecology and behavior of natural enemies. P, 305-305A or equivalent. Host-Plant Pathogen Interaction3 PS 420A-520A Biological Control of Arthropods Lab1 PS 714A Genetics of Disease Resistance and PS 421-521 Soil Microbiology 3 S Host-Plant Pathogen Interaction Lab1 Microbial species of agricultural soils, environmental factors affecting PS 720 Insect Anatomy and Physiology2 S (odd years) PS 720A Insect Anatomy and Physiology Lab 1 their numbers and activity, and biochemical changes brought about by these organisms. P, 213-213A. Crosslisted with Micr 421-521. PS 421A-521A Soil Microbiology Lab 1 PS 722 Behavioral Management of Insects2 F (even years) PS 431-531 Applied Insect Ecology2 S (odd years) PS 722A Behavioral Management of Insects Lab1 An introduction to the principles of insect ecology and their application PS 732 Field Studies in Pedology 2 Su (even years) to pest management tactics. Ecological factors that affect pest and PS 733 Advanced Soil Genesis....... 3 S (even years) beneficial insects in agricultural environments will be examined. Topics PS 741 Crop Breeding Techniques1 Su (even years) include trophic relationship, population dynamics, sampling and life-PS 743 Physical Properties of Soils3 F (even years) table analysis, environmental heterogeneity and dispersal. P, 305-305A. PS 744 Soil N, P, & K...... 3 S (odd years) PS 431A-531A Applied Insect Ecology Lab1 PS 745 Soil/Plant Secondary Macronutrients and PS 446-546 Agroecology 3 S (odd years) Micronutrients 2 S (even years) Agroecology uses the science of ecology to study agricultural systems PS 746 Plant Breeding 3 S PS 754 Chemical Properties of Soils 3 F (odd years) and solve agricultural problems using comparisons between altered and unaltered ecosystems. Including: nutrient cycling, energy flow, PS 756 Quantitative Genetics3 S (even years) hydrology, climatology, species diversity, and population dynamics. Field PS 761 Taxonomy of Insects......3 F (odd years)

PS 761A Taxonomy of Insects Lab1

Production2 S (odd years)

PS 763 Environmental & Physiological Aspects of Crop

trips required. P, 213-213A and Bio 101-102.

PS 773 Cytogenetics2 F (odd years)	Psyc 324 Psychology of Aging3 F (alternate years)
PS 773A Cytogenetics Lab1	Focuses on theories, research and practice concepts relevant to
PS 780 Advanced Special/Research Problems1-2 FSSu	psychological factors in the aging process. Topics covered include
PS 781 Plant Science Graduate Seminar1 FS	cognition, personality, and death and dying. P, 101 or 102.
PS 783 Crop-Water Relationships 2 F (odd years)	Psyc 327 Child Psychology 3 SSu
PS 790 Thesis, M.S1-7 FSSu	Physical, social, emotional and intellectual aspects of child development.
PS 791 Thesis Sustaining0 FSSu	May be counted as an education elective. P, 101 or 102.
PS 797 Soil and Plant Analysis2 F (odd years)	Psyc 331 Business & Industrial Psychology 3 F
PS 797A Soil and Plant Analysis Lab1	Application of psychological principles to such problems as employee
PS 798 Biometrical Genetics3	selection, supervision, job satisfaction, work efficiency and human
PS 799 Advanced Plant Breeding3	engineering. P, 101 or 102.
PS 890 Dissertation, Ph.D1-7 FSSu	Psyc 356 Psychological Assessment3 F
PS 891 Dissertation Sustaining, Ph.D 0 FSSu	Diagnosis and classification by interview and observation techniques,
	and by intellectual achievement and aptitude, temperament and
	personality tests. Familiarization at the level of the professional assistant.
Dovo (namelalana)	P, 101 or 102.
Psyc (Psychology)	Psyc 357 Psychological Therapies3 S
Undergraduate Courses	Traditional and contemporary methods of psychotherapy. Interviewing
	techniques and the professional assistant's role. P, 101 or 102.
Psyc 101 General Psychology	Psyc 358 Behavior Modification
Concepts of development, learning, motivation, emotion, frustration,	Principles of learning applied to human behavior modification. P, 101 or
personality, and other basic behavioral processes. Prerequisite for all	102.
courses in psychology except 102. Note: credit will not be given for both	Psyc 362 Theories of Personality 3 S
Psyc 101 and 102.	Major personality theories, including psychoanalytic, stimulus-response
Psyc 102 Introduction to Psychology 4 F	and constitutional formulations. P, 101 or 102.
Fundamentals of behavior, including maturation, physiological	Psyc 366 Psychological Gender Issues3 S
processes, sensation and perception, learning, motivation, emotion and	This course surveys the current theoretical and research issues in the
frustration, personality, abnormal processes, and methods of	development of gender and explores the impact of gender on the lives of
investigation. P, major or minor in psychology or consent of instructor.	women and men. Topics include societal and biological influences on
Prerequisite for all courses in psychology taken by majors except	psychological development, achievement motivation, sex roles,
transfers who have taken Psyc 101. Note: credit will not be given for both	stereotyping, socialization, sexuality, and personality. P, 101 or 102.
Psyc 101 and 102.	Crosslisted with WmSt 366.
Psyc 202 Advanced General Psychology3 FS	Psyc 409 History & Systems of Psychology3 S
Contemporary research related to psychological concepts expounded in	Origins and channels of psychological thought, from the British
Psyc 101 and 102. P, 101 or 102.	empiricists through major contemporary developments. P, 101 or 102.
Psyc 290 Fundamentals of Professional Psychology3 FS	Psyc 411 Physiological Psychology 3 F
This course will guide students in preparing for a career in psychology by	Role of physiological mechanisms in behavior. Nervous, biochemical and
reviewing career options and providing intense training in skills	muscular systems that control or modify human and animal adjustment.
necessary for a successful career in professional psychology (finding	
information, writing, preparing and delivering oral presentations). P, 101	P, 101 or 102. Psyc 414 Drugs and Behavior
or 102; For majors only.	PSyc 414 Drugs and Deliavior
Psyc 301 Sensation and Perception 3 S	Effects of psychoactive drugs on human behavior. History of social drug
Examination of processes of sensation and perception including sensory	use. P, 101 or 102.
mechanisms, cognitive analysis of sensory information, and attentional,	Psyc 441 Social Psychology
motivational and conditioning effects on perception. P, 101 or 102.	Basic principles, concepts and methods utilized in analyzing individual
Psyc 302 Psychological Investigations 3 F	and group interactions. P, 101 or 102.
Methods of investigating human and animal behaviors. P, 101 or 102, Stat	Psyc 442 Health Psychology
281.	Provides an overview of research and theory on the psychological issues
Psyc 303 Experiments in Psychology3 S	involved in health, focusing on wellness as well as on illness. The
Review of representative past research in experimental psychology and	mechanisms underlying health and illness are examined. Interventions
execution of class laboratory projects. P, 302 or consent.	designed to implement healthy lifestyles and to manage illness and
Psyc 305 Simple Learning & Conditioning3 F	disability are presented. P, 101 or 102
Traditional conditioning experimentation and phenomena, primarily as	Psyc 451 Abnormal Behavior 3 FSSu
revealed through animal research. Principles of reinforcement and factors	Causative factors, symptoms and treatment of major forms of abnormal
which influence the conditioning process are discussed in detail. P, 101 or	behavior, including neurosis, psychosis and the psychophysiologic
102.	disorders. P, 101 or 102.
Psyc 306 Human Learning & Cognitive Behavior3 S	Psyc 490 Psychology Seminar1 F
Traditional human learning experimentation and human cognitive	Current employment trends and developments within the profession.
behavior such as perceptual-motor skills, verbal learning and behavior,	Required of all majors. P, senior standing or consent.
transfer of training, concept formation, memory, natural language	Psyc 492 Problems in Psychology 1-3 FSSu
behavior, information processing, etc. P, 101 or 102.	Independent investigations. May be repeated for a total of 6 credits. P,
Psyc 315 Research Methods in Psychology	101 or 102, consent of a supervising staff member.
Overview of research methodology and literature for Psychology majors	Psyc 493 Topics in Psychology1-5
in the Applied or Psychological Services curricula. P, 101 or 102, Stat	Selected topics of current interest in the discipline.
281.	

Psyc 495-496 Internship/Field Experience (Topical)3-12 FSSu Planned and supervised professional experience which takes place outside the formal classroom with private business or industry, or public agencies. P, consent of department program coordinator. Will not count toward minimum credit requirements in the major.

Dual Numbered Courses

Psyc 460-560 Topics in Psychology: (Topical)1-4 An intensive examination of significant psychological issues, themes, or problems. May be repeated as topic changes for a total of 8 credits. P, 101 or 102.

Graduate Courses

Psyc 592 Special Problems in Psychology 1-4 FSSu

PT (Physical Therapy)

Undergraduate Courses

PT 142 Intro to Physical Therapy &Occupational Therapy1 F Introduces students to the professions of physical and occupational therapy.

PT 492 Special Problems in Sports Medicine1-3
P, consent.
PT 495 Internship1-12

PT 496 Field Experience1-12 FSSu See HPER 496.

Rang (Range Science)

Undergraduate Courses

Rang 325 Measurement Topics3 Su

This course will be offered yearly. The two sections will be offered in alternate summers, scheduled independent of regular summer sessions. May be repeated for a total of 6 credits, but only if both sections are taken.

Section 1 - Natural Resource Measurements

Two week field course, with reports and assignments due within one month of formal course completion. Principles of sampling, field sampling methods, analysis of data, and problem solving. Emphasis will be on measurement of important plant, animal, and climatic attributes, and on factors important in interpretation of that information. Course will provide substantial field experience, as well as experience using computers to analyze data and develop scientific reports. P, Stat 281, or consent of instructor. Desirable antecedent*, 205.

Section 2 - Rangeland Analysis and Monitoring

Two week field course, with reports and assignments due within one month of formal course completion. Emphasis will be on a variety of methods for evaluating rangeland "health", range condition, successional status, and trend, and for monitoring rangelands, including rationale, establishment of monitoring sites, monitoring methods, and analysis of data. Students will gain hands-on experience in field sampling, data collection, data analysis, and report writing. P, Stat 281, or consent of instructor. Desirable antecedent*, 205.

Rang 415 Range Improvements and Plant-

Rang 485A Advanced Integrated Ranch Management Lab..............0
Rang 494-495 Cooperative Education/Internship1-12 FSSu
Supervised experience in range management activities for exposure to range management problems and solutions, evaluation of career objectives and final career planning. P, consent of program coordinator.

 * All courses listed with desirable antecedents will be taught assuming subject matter knowledge in those desired courses.

Dual Numbered Courses

7 400 500 G 1 1 17 1	D 1444 O11 E 4 4 4
Rang 492-592 Special Topics	Rel 224 Old Testament
including Grassland Fire Ecology and Grazing Management.	Testament.
morading of modern and proving a management	Rel 225 New Testament 3 S
Graduate Course	The history, writings and selected theological themes of the New
Rang 621 Grassland Fire Ecology3	Testament.
Rang 621A Grassland Fire Ecology Lab	Rel 237 Religion in American Culture
Rang 021A Grassianti File Ecology Lab	Examines both the diversity of religious expression and tradition found within American culture (from Adventism to Zen) and the impact of
	American culture upon those traditions. Religious dimensions of selected
Door (Barredian)	features of the American enterprise: popular culture; politics;
Recr (Recreation)	construction of the landscape; war and peace; social conflict; race,
Undergraduate Courses	ethnicity, and gender.
Recr 205 Skill Concept: Recreational Activity1 F	Rel 238 Native American Religions3 S A survey of Native American religious traditions and their relation to both
Emphasis on student planning and leadership of recreational activities	traditional and contemporary cultures. Focus on ritual, myth and practice
involving equipment, developing a resource notebook and gaining an	in traditional settings, as well as forms of religious resurgence in the 20th
appreciation for the variety of recreational opportunities. Crosslisted with PE 205.	century. Crosslisted with AIS 238.
Recr 260 Recreation Leadership 2 S	Rel 250 World Religions 3 FS
Philosophy and interpretations of leadership as it relates to recreational	Hinduism, Buddhism, East Asian religions, Judaism, Christianity, Islam,
activities.	tribal religions, and new religions.
Recr 330 Therapeutic Recreation	Rel 331 Feminism and Theology3 S A critical examination of traditional theological areas from the
Theoretical and philosophical foundations of therapeutic recreation,	perspective of feminist theologians. Areas covered include women in the
behavioral, therapeutic use of activity; recreative interaction-intervention techniques; survey of major services and agencies. P, HPER 180.	Bible, Church history, and the contemporary Church.
Recr 342 Recreational Sports Programming and	Rel 332 Environmental Ethics 3 F
Administration2 F	Focus on contemporary and traditional efforts to think about the
Organization and administration of intramural sports on elementary,	environment in moral terms, with attention to practical issues illustrating the role of moral reflection in the shaping of public policy. Crosslisted
secondary, college, and university levels. Program planning, facilities,	with Phil 332.
equipment and financing of intramural sports program. P, sophomore	Rel 360 Moral and Ethical Perspectives on Death and
standing. Crosslisted with PE 342. Recr 350 Recreation Facilities and Area Design 3 F (even years)	Dying 3 FSu
An introduction to the principles and practices of planning, financing,	Attitudes and issues that focus on death and dying in society, the religious
management and maintenance of recreation facilities. P, junior or senior	and moral dimensions of these attitudes and issues.
standing.	Rel 370 Philosophy of Religion
Recr 395 Practicum in Recreation1-3 FSSu	religious language, religious pluralism, and the nature of religious
Practicum in a supervised recreational experience with a strong emphasis on leadership and supervisory responsibilities. Required of Public	experience. Crosslisted with Phil 370. No prerequisites.
Recreation majors before the internship. P, consent.	Rel 401 History of Western Religious Thought I3 F
Recr 414 Current Issues in Recreation3 S	This course surveys important issues in western religious thought from
Individual reports and group discussions on recent research and	first century Christian origins through the "great medieval synthesis" of
management developments in recreation; employment opportunities and	the thirteenth century. While both Jewish and Islamic developments are examined, emphasis is placed upon emergence and growth of Christian
procedures for employment. Taken before the internship. P, consent.	doctrine and ecclesiology. Crosslist with Hist 401.
Crosslisted with HPER 490. Recr 440 Administration of Leisure Services	Rel 402 History of Western Religious Thought II3
Organization and administration of community recreation, program	This course surveys important issues in western religious thought from
planning and recreational program areas. P, junior or senior standing,	"great medieval synthesis" of the thirteenth century through the
HPER 180.	Reformation and Counterreformation of the sixteenth century. While both Jewish and Islamic developments are examined, emphasis is placed upon
Recr 491 Independent Study in Recreation1-9 FSSu	the development of Christian doctrine. Crosslist with Hist 402.
Designed to help students learn about areas of recreation for which there are no courses. P, consent.	Rel 493 Topics in Religion 1-5
Recr 495-496 Recreation Internship/Field Experience 1-12 FSSu	Selected topics of current interest in the discipline.
Planned and supervised professional experience related to recreation	Rel 495 Internship 1-12 FSSu
administration which takes place outside the formal classroom with	Planned and supervised professional experience which takes place
public agencies, governmental units or private business. P, consent and	outside the formal classroom with private business or industry, or public agencies. P, consent of department program coordinator.
2.4 GPA.	agonotos. 1, consont of department program coordinator.
	Dual Numbered Courses
Rel (Religion)	Rel 492-592 Special Problems in Religion 1-3 FSSu
	Individual guided research culminating informal research paper or series
Rel 213 Introduction to Religion3 FS	of essays. May be repeated until 6 credits are earned.
An introduction to the academic study of religion, focusing on the variety of methods which can be used to facilitate discussion about religion	
issues in a public and pluralistic setting.	
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RTVF (Radio, Television, and Film)	Graduate Courses
Undergraduate Courses	RTVF 762 Special Problems in Radio, TV, or Film 1-2 FSSu RTVF 792 Research Methods in Communications
RTVF 130 Introduction to Radio & TV 3 FS	XI VI 1/2 Research Methods in Communications
History, structure, regulation, and financial support; potentialities and	
limitations; public responsibilities, impact on society. Crosslisted with MCom 130.	SCST (Science Topics)
RTVF 144-445 Mass Communication Activities1 FSSu	Graduate Courses
Credit earned by active participation in broadcasting and film activities.	SCST 601 Science in Our World1-7 FSSu
May be repeated until eight activity credits are earned. P, consent.	SCST 602 Modeling and Mathematics
Section I: Radio. P, consent of instructor. Section II: Television. P, consent of instructor.	SCST 792 Capstone2 FSSu
Section III: Film. P, consent of instructor	
RTVF 160 Introduction to Film	Cord of the second
Film as art; themes and inventions; films and society; introduction to the	SeEd (Secondary Education)
camera. RTVF 330 Writing for Radio & TV3 S	Undergraduate Courses
Preparation of continuities such as commercials, public service	SeEd 287 Practicum & Professional Lab Experience1 FS
announcements, talks, interviews, drama, documentaries, and educational	Observation and work experience in elementary, junior high, and senior
programs. Crosslisted with MCom 330.	high schools. SeEd 314 Supervised Clinical/Field Experience1 FS
RTVF 330A Writing for Radio & TV Lab	Supervised students will observe and practice various teaching strategies
Experience in the production and direction of television programs.	in lab setting, middle schools, and high schools. P, 287, EdFn 338 or CTE
Includes preparation and presentation of talks, interviews, discussion,	405, CTE 287 or FCS 293. SeEd 400 Curriculum and Instruction in Middle and Secondary
extension and community services for TV broadcast. Crosslisted with MCom 331.	Schools4 FS
RTVF 331A Television Production Lab	Planning units and semester plans for use in student teaching. Includes
RTVF 332 Radio News Reporting	goal-setting and evaluation/ measurement methods. Admission to
Crosslisted with MCom 332.	Professional Semester III. Required for Certification. SeEd 405 Audio-Visual Methods & Materials 1 FS
RTVF 332A Radio News Reporting Studio	Media used in instruction and communication. Emphasis on developing
Crosslisted with MCom 333.	materials for use in the classroom. Small group laboratory sessions
RTVF 333A Television News Reporting Studio 0	correlate with large group demonstration/ lectures. You will also become
RTVF 335 Broadcast Programming	familiar with the operation of audio-visual equipment. Education elective.
Program types and essentials of effective structure. Audience characteristics and preferences. Managerial problems. Special	SeEd 405A Audio-Visual Methods & Materials Lab 0
consideration of agricultural, commercial, and educational broadcast	SeEd 410 Social Foundations, Management, & Law 2 FS
requirements. Crosslisted with MCom 335.	Focus on management strategies and models as vehicles for maintaining
RTVF 336 Radio News Lab1-3	an effective learning environment. Law and foundations relevant to the classroom teacher. Admission to Professional Semester III. Required for
RTVF 360 Film Narrative	Certification.
and directors. P, RTVF 160.	SeEd 412 Methods of Teaching Social Studies in Secondary
RTVF 431 Advanced Television Production3 S (alternate years)	Schools
Integration of various aspects of broadcasting techniques and production.	theories, methods, processes, organization patterns and materials used for
RTVF 431A Advanced Television Production Lab	teaching social studies and the individual disciplines of economics,
RTVF 433A Advanced TV News Reporting Studio0	geography, history, political science, psychology and sociology. Course
RTVF 492 Special Problems in Radio, TV, Film1-2 FSSu	includes focus on practice teaching in classroom settings using models of instruction most appropriate for social studies. Required for majors in all
Directed research. May be repeated for a total of 6 undergraduate credits. P, consent.	of the social sciences. Strongly recommended for social science minors.
RTVF 493 Topics in Radio, TV and Film1-5	SeEd 416 Strategies in Science Teaching
Selected topics of current interest in the discipline.	Theories, methods, applications, and training common to all sciences and
	scientific behavior. Emphasis will be given to individual science majors who plan to teach in Biology, Chemistry, Physics, and General Science.
Dual Numbered Courses	Required of all science majors. Strongly recommended for science
RTVF 437-537 Educational & Corporate TV 3 (offered on demand)	minors.
Educational broadcasting with practical work in preparation and	SeEd 420 Teaching Special Needs Students1 FS
presentation of educational and instructional materials for radio, TV, and film and their use in the classroom. Crosslisted with MCom 437-537.	Explores educational and legal perspectives involved in teaching students with special needs in the content area classroom. Instructional and
RTVF 464-564 Film Studies	classroom management strategies will be addressed. P, Admission to
Film art forms, artists and critics. Viewing and making films. Emphasis	Professional Semester III.
on major film theories.	SeEd 450 Teaching Reading in the Content Area2 FS
	Designed for secondary content teachers. Basic principles of reading and comprehension, and practical experience in relating principles to
	everyday demands of the content classroom. A special emphasis upon
	content instruction which meets the reading/comprehending abilities of

individual students. P, EdFn 375, SeEd 287, junior standing, must be Soc (Sociology) taken concurrently with EPsy 302 and SeEd 314, education student. **Undergraduate Courses** Required for certification. SeEd 488 Supervised Teaching Internship 10 FS Soc 100 Introduction to Sociology3 FSSu Assigned in the individual student's major, or if appropriate, the teaching Comprehensive study of society, with analysis of group life, and other minor. An experiential application of teaching pedagogy and content for forces shaping human behavior. an extended period of time. Application must be made through the Soc 150 Social Problems3 FS Placement Supervisor. P. Professional Semester I courses, Professional Present day problems in American society, such as racism, sexism, Semester II courses, acceptance and admittance into Professional ageism, alcoholism, drug addiction, physical and mental health, war and Semester III. Application procedure required. environmental issues—their significance and current policies and action. SeEd 491 Directed Studies in Selective Topics 1-9 FSSu Soc 233 Introduction to Leadership1 A student who is interested in studying a certain topic or acquiring a Learn basic skills and theory necessary to be an effective leader. Areas particular skill in which a faculty member is competent but which is not such as time and conflict management, communication skills, motivation, covered by regular courses at SDSU, may undertake a program of self-analysis are stressed. directed study. The work will be planned and implemented by the student Soc 240 Sociology of Rural America 3 FS and the instructor, with department head approval. Written permission of Rural society, rural communities, population composition and trends, Department Head required. social processes; social participation in rural organizations and agencies; SeEd 492 Problems in Education 1-3 and changing relationship between country and city in contemporary Selected studies and activities to meet the needs of undergraduate society. students. Written permission of Department Head required. Soc 250 Marriage3 FS SeEd 493 Undergraduate Course Specials: (Topical)1-5 FSSu Courtship and marriage period given special emphasis. Mate selection Ten or more students who wish to study a topic in which a faculty problems, adjustments in marriage, reproduction, child-parent relations, member is competent but which is not covered by regular courses at divorce, and later years of marriage. SDSU may propose a Special. The duration, subject matter, amount of Soc 270 Introduction to Social Work 3 FS credit and mode of grading will be planned by the instructor and students, History of social work methods, social services to children, family, aged, under the general supervision of the head of the department in whose public welfare clients, mentally ill, and the criminal justice system. discipline and under whose supervision the Special will be taught. If Soc 292 Service Learning1-3 FS more than one department is involved, a committee composed of the Opportunity to gain service learning and/or mentoring experience. various department heads and the dean will exercise these supervisory Learning credit will not count toward credits for major or minor. (Limit duties. In such cases the Special will be crosslisted. The project will of 4 credit hours). P, 100, major or minor in Sociology, minimum GPA of require the approval of the faculty of the department or departments 2.0 to enroll. Graded Pass/Fail. affected. Soc 307 Research Methods I 3 FS SeEd 494-495-496 Cooperative Education/Internship/ Field The research process; selection and formulation of research problems; Experience3-12 concepts, propositions and scientific theories; elementary research Planned and supervised professional experience related to Secondary design; data collection procedures and computer applications. Course Education which takes place outside the formal classroom with private research projects when possible. P, 100. business or industry, or public agencies. Written permission of Soc 308 Research Methods II3 FS Department Head required. Method for data manipulation and presentation; discussion of principles for selection of analysis techniques; index and scale construction; tabular presentation and interpretation; and oral and written report development. **Dual Numbered Courses** SeEd 481-581 Workshop 1-3 FSSu Special areas in secondary education are comprehensively explored in an A seminar focusing on the problems associated with violent behaviors in intensive time framework. Designed to increase specific skills and American households. Special attention will be devoted to the structural, understanding in a current area. cultural and social-psychological factors contributing to the abuse and SeEd 490-590 Special Topics1-3 FSSu battering of family members. In addition, the use of force as a problem Advanced courses taught on demand covering such topics as questioning solving mechanism will be examined. techniques, classroom management, systematic observations of teaching, Soc 330 Self and Society3 school policy making, changing roles in education, computer Focus of attention on the nature of social interaction and the dynamic applications, etc. social activities taking place. Includes examination of self-concept, selfattitudes as well as the perception and interpretation of others. **Graduate Courses** Soc 340 Urban Sociology 3 S SeEd 672 Motivation and Discipline3 FSu Patterns of urban growth, demographic and ecological processes, institutions, folkways, dynamics of social class, and social problems of SeEd 682 Seminar 1-3 FSSu modern city and urban fringe areas. SeEd 691 Problems...... 1-3 FSSu Soc 350 Ethnic and Racial Groups 3 SeEd 740 Secondary School Curriculum 3 FSu Intergroup relations. Particular focus on ethnic and racial groups in the SeEd 748 Secondary Curriculum Practicum1 FSu U.S. and Upper Midwest. Cross-Cultural Comparisons. Soc 351 Criminology 3 FS

Nature and causes of crime. Theories of punishment. Agencies and methods of arrest, conviction, and segregation of criminals. Jails, prisons

and reformatories. Probation and parole.

Focus on human behavior in work environments. Topics include social organizations of work; managing human resources, management—labor relations; role of pay and benefits; groblems of personnel adjustment; and work related social benefits and conflict. Soc 534 Victimology	Soc 353 Sociology of Work 3 F	Dual Numbered Courses
segulation of pays and beachins, problems of personnel adjustments and the process of population control of the control of the process of population policy. 3 (on demand with sufficient carollment) social and programs designed to anneliorate physical, emotional and federal programs designed to annelional and maniputations. Social consequences of population federal programs and statements and maniputations and annelional programs designed to anneliorate physical, emotion of an designation of the federal programs of designations and federal programs designed to an anneliorate physical and annelional programs and designation of industrial societies with attention given to scalar deviations, truits and according to the programs and programs of social development programs of social development programs o	Focus on human behavior in work environments. Topics include social	
swork related social teasions and conflict. Soc 363 Verbinology		This course will examine the nature of negatively evaluated behaviors
Soc 354 Victimology	work related social tensions and conflict.	
the up-to-used extentionation of the Vertim controllor relationship, including the characteristics of those victimized from so victimization, the role of the victim in contributing to their own injuries and losses; and, state and federal programs designed to smeltorate physical, emotional and economic suffering. 3 FS Theories of population: factors involved in birth rate, deaft rate, and imparisons. Social consequences of population composition and population policy. 3 FS Theories of population: factors involved in birth rate, deaft rate, and imparisons. Social consequences of population composition and population policy. 3 FS Theories of population composition and population policy. 3 FS Development of social welfare legislation; current trends and issues in the consequence of the family as a social institution with emphasis to comparative family systems and the contemporary American family from the standpoint of social class, ethnic background and family from the standpoint of social class, ethnic background and family rose the focus of this course. The nature of sex roles, their origin, and their winking they work, and the implications of the cross of this course. The nature of sex roles, their origin, and their winking they work, and the implications of their contributions. P. 100 and 301 or consent. 3 Sec 440 Scolological Theory. 3 SS Data investigation of industrial socicies with attention given to social throughout after the major related to Social class, ethnic process on developing interactional skills. P. 270, to be taken prior to internality. Soc. 491 Steplat of the classical and modern theorists, the social environment of the consent of instruction. (Limit of 6 hours of Special Problems 1-12 PSSN (on demand) 1-13 PSN (on demand) 1-14 PSN (or demand) 1-15 PSN (or demand) 1-		
consent of instructor. victim in contributing to their own injuries and losses; and, state and federal programs designed to ameliorate physical, encolonal and economic suffering. Soc 362 Population Problems		
seconomic suffering. Soc 362 Population Problems. 3 185 Soc 362 Population Problems. 3 185 Soc 363 Social consequences of population change; problems of population polocy. 3 FN Development of social with the seath rate, and migrations. Social consequences of population polocy. 3 FN Development of social with seath rate legislation: current trends and issues in, and implementation and administration of social policy in a variety of practice areas. 3 FN Soc 370 Social Policy. 3 FN Soc 382 The Family. 3 FN Soc 382 The Family are a social institution with emphasis on comparative family systems and the contemporary American family from the standpoint of social class, ethnic background and family crises. 50c 383 Sociology of Gender Rolles. 3 FN Soc 383 Sociology of Gender		
seconomic suffering. Soc 362 Population Problems 3 FS Theories of population factors involved in birth rate, death rate, and ingristions. Social consequences of population change; problems of population composition and population policy. Soc 370 Social Policy 3 FS Development of social welfare legislation; current trends and issues in, and implementation and administration of social policy in a variety of practice areas. Soc 382 Social sonsequences of population with the contemporary American family or practice areas. Soc 383 Social sonsequences of population with the standpoint of social consequence and family as a social institution with emphasis on comparative family as a social institution with emphasis on comparative family systems and the contemporary American family rosts. Soc 383 Socialogy of Gender Roles 3 Soc 383 Social Social Roles 3 Soc 383 Social Social Roles 3 Soc 383 Social Roles 3 Soc 383 Social Roles 3 Soc 3843 Social Roles 3 Soc 384		Soc 433-533 Leadership & Group Organization
onsent of instructor. Incorrise of population: Actors involved in birth rate, death rate, and migrations. Social consequences of population change; problems of populations composition and population policy. 3 FS populations composition and population policy. 3 FS Development of social welfare legislation; current trends and issues in, and implementation and administration of social policy in a variety of practice areas. 3 FS Development of social content of social policy in a variety of practice areas. 3 FS Development of the family as a social institution with emphasis on comparative family systems and the contemporary American family from the standpoint of social class, stehic background and family crises. 3 FS Development of social class, stehic background and family crises. 3 FS Cost 38 Sociology of Gender Roles 3 FS Cenuals and male roles in relation to one another in a changing world are the focus of this course. The nature of sex roles, their origin, and their variations over time and across cultures are examined. Consisted with Winsi 33. 3 FS Cost 401 Sociological Theory		
Theores of population: factors involved in birth rate, death rate, and migrations. Social consequences of population change; problems of population composition and population policy. Soc 370 Social Consequences of population change; problems of population composition and population policy. Soc 370 Social Consequences of population composition and population policy. Soc 370 Social consequences of population composition and population policy. Soc 370 Social consequences of population composition and population policy. Soc 381 The Family and implementation and administration of social policy in a variety of practice areas. Soc 382 The Family as a social institution with emphasis on comparative family systems and the contemporary American family form the standpoint of social class, ethnic background and family crises. Soc 383 Sociology of Gender Roles are examined. Crossilisted with wind the social discount on the control of the classics in social theory, various schools of social throught, and modern developments in the discipline. Introduction to the major ideas of the classical and modern theorists, the social environment in which they wrote, and the implications of their contributions. P. 100 and 301 or consent. Soc 431 Sociology and Sociology and Social More than the provides of the classical and modern theorists, the social environment in which they wrote, and the implications of their contributions. P. 100 and 301 or consent. Soc 431 Sociology and Sociology and Social So		
Causes of delinquency: patterns of delinquent behavior, Javenile and population composition and population policy. Soc 37 Social Policy The provelopment of social where glegislation; current trends and issues in and implementation and administration of social policy in a variety of practice areas. Soc 382 The Family Development of the family as a social institution with emphasis on comparative family systems and the contemporary American family from the standpoint of social class, etchie background and family crises. Soc 383 Sociology of Cender Roles Soc 393 Sociology of Cender Roles Soc 401 Sociological Theory Soc 401 Sociological Theory Soc 401 Sociological Theory Soc 401 Sociological Theory An investigation of industrial societies with attention given to social trends creating industrialization, the development of organizations, the evolution of words-roles, international relations between industrial and non-industrial nations, and the future of industrial societies. Soc 473 Social Work Skills & Methods I Soc 493 Social Problems Soc 493 Topics in Sociology Methods I Soc 493 Topics in Sociology Methods I Soc 494 Sociology of Corrections Soc 493 Social Problems Soc 494 Sociology Social Problems 1-3 FSG (on demand) Fisc ourse crisularly covered in past seminars horder of the standard protein throughly, and more many problems and protein throughly and protein throughly and problems are so sociology, and protein throughly and prot		
Soc 370 Social Policy	migrations. Social consequences of population change; problems of	Causes of delinquency; patterns of delinquent behavior; Juvenile and
Development of social welfare legislation; current trends and issues in and implementation and administration of social policy in a variety of practice areas. Soc 382 The Family ———————————————————————————————————		
An examination of the history of adult and juvenile treatment and practices areas. Soc 382 The Family Development of the family as a social institution with emphasis on comparative family systems and the contemporary American family from the standpoint of social class, tehine background and family rises. Soc 383 Sociology of Gender Roles Soc 383 Sociology of Gender Roles Soc 383 Sociology of Gender Roles Female and male roles in relation to one another in a changing world are the focus of this course. The nature of sex roles, their origin, and their variations over time and across cultures are examined. Crossisted with Winks; 335. Soc 401 Sociological Theory Soc 401 Sociological Theory Soc 403 Sociological Theory An investigation of industrial Societies, with attention given to social thought, and modern developments in the discipline. Introduction to the classics and modern theorists, the social environment in which they wrote, and the implications of their contributions. P, 100 and 301 or consent. Soc 431 Industrial Societies An investigation of industrial societies with attention given to social thought, and modern development of organizations, the evolution of work-roles, international relations between industrial anon-industrial nations, and the future of industrial societies. Soc 437 Social World Sociology As Soc 400 Society and methods common to all social service practice, focus on developing interactional skills. P, 270, to be taken prior to internship Fole Assist concepts and methods common to all social service practice, focus on developing interactional skills. P, 270, to be taken prior to internship Fole Assist concepts of control and proposed problems 1.1 2 FSSu P, major or minor and junior or senior standing and prior consent of instructor. Limit of 6 hours of Special Problems 1.1 2 FSSu (on demand) Focus will vary in areas of sociology, anthropology, teaching and prior or minor and junior or senior standing and prior consent of surface, and the proposed problems 1.1 2 FSSu (on	Development of social welfare legislation; current trends and issues in,	
Soc 382 The Family		
Development of the family as a social institution with emphasis on comparative family systems and the contemporary American family from the standpoint of social class, ethnic background and family crises. Soc 333 Sociology of Gender Roles Female and male roles in relation to one another in a changing world are the focus of this course. The nature of sex roles, their origin, and their variations over time and across cultures are examined. Crosslisted with WmSt 383. Soc 401 Sociological Theory	-	
comparative family systems and the contemporary American family from the standpoint of social class, chuic background and family crises. Soc 383 Sociology of Gender Roles Soc 383 Sociology of Gender Roles Note 385 Female and male roles in relation to one another in a changing world are the focus of this course. The nature of sex roles, their origin, and their variations over time and across cultures are examined. Crosslisted with WimSt 383. Soc 401 Sociological Theory Introduction to the classics in social theory, various schools of social thought, and modern developments in the discipline. Introduction to the major ideas of the classical and modern theorists, the social environment in which they wrote, and the implications of their contributions. P. [100] and 301 or consent. Soc 453 Industrial Societies with attention given to social trends creating industrialization, the development of organizations, the evolution of work-roles, international relations between industrial and non-industrial nations, and the future of industrial societies. Soc 471 Social Work Skills & Methods 1		
Soc 383 Sociology of Gender Roles		
Female and male roles in relation to one another in a changing world are the focus of this course. The nature of sex roles, their origin, and their variations over time and across cultures are examined. Crosslisted with WmSt 383. Soc 401 Sociological Theory		
the focus of this course. The nature of sex roles, their origin, and their variations over time and across cultures are examined. Crosslisted with WmSt 383. Soc 401 Sociological Theory	77	A variable topics course concentrating on the most current trends and
wariations over time and across cultures are examined. Crosslisted with WmSt 383. Soc 401 Sociological Theory		
Soc 401 Sociological Theory	-	
activities. Introduction to the classics in social theory, various schools of social thought, and modern developments in the discipline. Introduction to the major ideas of the classical and modern theorists, the social environment in which they wrote, and the implications of their contributions. P. 100 and 301 or consent. 3 Soc 453 Industrial Sociology		
thought, and modern developments in the discipline. Introduction to the major ideas of the classical and modern theorists, the social environment in which they wrote, and the implications of their contributions. P. 100 and 301 or consent. Soc 435 Industrial Sociology An investigation of industrial societies with attention given to social trends creating industrialization, the development of organizations, the evolution of work-roles, international relations between industrial and non-industrial nations, and the future of industrial societies. Soc 471 Social Work Skills & Methods I Basic concepts and methods common to all social service practice; focus on the relationship between law and society. Topics will also look at alternative dispute resolution techniques, for example mediation. Comparative, and cross-cultural materials will be used throughout the class to emphasize diversity in law. P, 351. Soc 471 Social Work Skills & Methods I Basic concepts and methods common to all social service practice; focus on the relationship between law and society. Topics to a method of conflict resolution, law as a method of conflict resolution. Comparativ		activities.
major ideas of the classical and modern theorists, the social environment in which they wrote, and the implications of their contributions. P, 100 and 301 or consent. Soc 453 Industrial Sociology		
an which they wrote, and the implications of their contributions. P. 100 and 301 or consent. Soc 453 Industrial Sociology	major ideas of the classical and modern theorists, the social environment	
Soc 453 Industrial Sociology An investigation of industrial societies with attention given to social trends or entaining industrial societies with attention given to social trends or entaining industrial societies with attention given to social trends or entaining industrialization, the development of organizations, the evolution of work-roles, international relations between industrial and non-industrial nations, and the future of industrial societies. Soc 471 Social Work Skills & Methods I		
An investigation of industrial societies with attention given to social trends creating industrialization, the development of organizations, the evolution of work-roles, international relations between industrial and non-industrial nations, and the future of industrial societies. Soc 471 Social Work Skills & Methods I		
creating industrialization, the development of organizations, the evolution of work-roles, international relations between industrial and non-industrial nations, and the future of industrial societies. Soc 471 Social Work Skills & Methods I		
soc 471 Social Work Skills & Methods 1		-
Soc 471 Social Work Skills & Methods I		
Basic concepts and methods common to all social service practice; focus on developing interactional skills. P, 270, to be taken prior to internship. Soc 490 Seminar		
on developing interactional skills. P, 270, to be taken prior to internship. Soc 490 Seminar		
Focus will vary in areas of sociology, anthropology, teaching and research, and by option. Can be repeated. P, 100. Soc 492 Special Problems		
research, and by option. Can be repeated. P, 100. Soc 492 Special Problems		justice, recreation, social services, educational facilities, and additional
Soc 492 Special Problems		areas of student interest.
instructor. (Limit of 6 hours of Special Problems toward major.) Soc 493 Topics in Sociology	Soc 492 Special Problems1-3 FSSu	
Soc 493 Topics in Sociology		
Selected topics of current interest in Sociology. Subject areas vary from semester to semester based on general interest appeal. Soc 494-495-496 Cooperative Education/Internship/ Field Experience		
Soc 494-495-496 Cooperative Education/Internship/ Field Experience		
Experience		
Planned and supervised professional experience related to Sociology which takes place outside the formal classroom with business, industry, private/public agencies. Credit will not count toward meeting minimum requirements of the major or minor. May be repeated until 12 credits are earned. Graded P or F. P, major, consent of department program coordinator, minimum GPA of 2.2 to enroll in program. Soc 710 Research Methods		
which takes place outside the formal classroom with business, industry, private/public agencies. Credit will not count toward meeting minimum requirements of the major or minor. May be repeated until 12 credits are earned. Graded P or F. P, major, consent of department program coordinator, minimum GPA of 2.2 to enroll in program. Soc 711 Qualitative Research Methods		
private/public agencies. Credit will not count toward meeting minimum requirements of the major or minor. May be repeated until 12 credits are earned. Graded P or F. P, major, consent of department program coordinator, minimum GPA of 2.2 to enroll in program. Soc 712 Sociological Theory I	· · · · · · · · · · · · · · · · · · ·	
earned. Graded P or F. P, major, consent of department program coordinator, minimum GPA of 2.2 to enroll in program. Soc 714 Theory Construction	private/public agencies. Credit will not count toward meeting minimum	Soc 712 Sociological Theory I3 F
coordinator, minimum GPA of 2.2 to enroll in program. Soc 716 Symbolic Interaction		
Soc 720 Profession of Sociology	· · · · · · · · · · · · · · · · · · ·	
Soc 762 Applied Demography 3	· · · · · · · · · · · · · · · · · · ·	
Soc 764 Modern Demographic Theory		Soc 762 Applied Demography3
		Soc 764 Modern Demographic Theory
Soc 766 World Population Issues		
Soc 781 Internship in Planning		
Soc 790 Thesis 1-7 (Pass/Fail)		

Soc 791 Thesis Sustaining	SpCm (Speech Communication)
Soc 890 Dissertation, Ph.D. as arranged	Undergraduate Courses
Soc 891 Dissertation Ph.D. Sustaining 0 FSSu	SpCm 101 Fundamentals of Speech3 FSSu
	Required of all students unless granted advanced placement. Emphasis on
	skill development in research, organization, style, delivery, and listening
Span (Spanish)	necessary for effective oral communication.
-	SpCm 101A Fundamentals of Speech Lab0
Undergraduaté Courses	SpCm 201 Interpersonal Communication 3 FS
Span 101-102 Introductory Spanish I-II 4 FS	Current theories and practice in interpersonal communication; stress
Fundamentals of Spanish are introduced to aid students in learning to	verbal and non-verbal activity.
understand, speak, read, and write simple Spanish. Hispanic culture is	SpCm 215 Public Speaking
discussed. Classwork may be supplemented with required aural/oral practice outside of class.	Theory and practice of public speaking, including speaking for special occasions. P, 101 or consent of instructor.
Span 201-202 Intermediate Spanish I-II3 FS	SpCm 222 Argumentation and Debate
Aims of First Year Spanish continued. Students work more intensively on	Focuses on theories of argumentation and debate practice. P, SpCm 101
the development of all skills and on their knowledge of the Hispanic	or consent of the instructor.
world. Students planning to receive a Spanish major or minor are	SpCm 281 Forensic Activities1 FS
encouraged to take 311-312 concurrently. P, 102 or equivalent.	Active participation in the intercollegiate Forensics program. Activities
Span 283 Applied Spanish (Topical)1-3	include competitive debate, oral interpretation, and public speaking.
Practical Spanish useful in diverse situations, such as conversation,	Workshops and non-competitive public performances may also be
foreign travel, commerce, the theatre, etc. Topics will vary. May be	included. A minimum of 4 performances is required. May be repeated for
repeated for a maximum of nine (9) credits. P, 102 or consent. Classwork	a total of 8 credits. P, consent of the Director of Forensics.
may be supplemented by work in the language laboratory.	SpCm 334 Discussion3 FS
Span 311-312 Spanish Composition & Conversation	Nature, values, and limitations of discussion. Theory and practice.
Intensive practice in composition and conversation. Classwork may be supplemented by work in the language laboratory. P, 202 or concurrent.	SpCm 340 Oral Interpretation
Span 353-354 Spanish Literature	the study of prose, poetry, and drama for oral performance. Includes
Introduction to Spanish literature through reading and discussion in	methods of analysis, interpretation, delivery techniques, and preparation
Spanish of recognized works. P, 202 or consent.	leading to the public oral performance of literature.
Span 355-356 Spanish American Literature	SpCm 375 Teaching of Speech3 F (alternate years)
Introduction to Spanish American literature through reading and	Problems of the speech teacher. Curriculum, instructional materials, and
discussion in Spanish of recognized works. P, 202 or consent.	methods.
Span 383 Business Spanish2-3	SpCm 442 Group Performance of
An introduction to the Spanish language of everyday business dealings	Literature3 S (alternate years)
and an overview of practical and relevant information necessary for	Various styles of Reader's Theatre are studied. Includes solo and group
people doing business in Spanish-speaking countries. P, 312 or consent. Span 411-412 Spanish Advanced Composition & Conversation 2	performance of multiple literary selections. P, 340 or consent. SpCm 492 Special Problems1-2 FSSu
Development of all language skills to achieve greater accuracy and	Directed research. May be repeated for a total of 6 undergraduate credits.
fluency. P, 312 or consent.	P, consent.
Span 433-434 Spanish Culture and Civilization1-3	SpCm 493 Topics in Speech Communication1-5
Study of the daily life-ways and significant accomplishments of Spain in	Selected topics of current interest in the discipline.
the past and present.	
Span 435-436 Spanish American Culture and Civilization 1-3	Dual Numbered Courses
Study of the daily life-ways and significant accomplishments of Spanish	•
American countries in the past and present.	SpCm 416-516 Rhetorical Criticism3 F (alternate years) Critical evaluation of American speakers from Colonial to contemporary.
Span 443 Advanced Spanish Grammar3	P, consent.
In-depth study of traditional grammar as well as an introduction to	SpCm 452-552 General Semantics3 F (alternate years)
linguistics as it applies to Spanish. Practical application. Strongly	Relations between symbols; human behavior in reaction to symbols
recommended for future teachers and bilingual secretaries. P, 202.	including unconscious attitudes, linguistic assumptions; and the objective
Span 476 19th and 20th Century Spanish Literature	systematization of language. Crosslisted with Ling 452-552.
Spanish. Topics vary. P, 353-354 or consent.	
Span 484 20th Century Spanish American Literature	Graduate Courses
Major movements and works. Reading, writing and discussions in	SpCm 700 Instructional Methods in Communication3 F
Spanish. Topics vary. P, 355-356 or consent.	SpCm 707 Speech/English/Drama for Teachers
Span 492 Special Problems1-3	SpCm 766 Rhetorical Theory3 F (alternate years)
Readings and discussions in Spanish as directed by the instructor. May be	SpCm 790 Thesis
repeated for credit. P, 202 and consent of the instructor.	SpCm 791 Thesis Sustaining 0 (Pass/Fail)
Span 493 Topics in Spanish1-3	SpCm 792 Special Problems in Oral Interpretation 1-2 FSSu
Special courses designed to complement the existing curriculum. Will be	SpCm 794 Special Problems in Public Address1-2 FSSu
offered only when student demand and staff availability warrant.	
Graduate Course	•
Cross 502 Crossial Ducklams	•

Span 592 Special Problems1-3

Stat (Statistics)	Thea 355 Children's Theatre
Undergraduate Courses	Children's theatre as an art form. Students become proficient in organization, design, and presentation of a children's theatre program. P,
Stat 281 Statistical Methods I3 FSSu	131 or 100.
Concepts in probability, data description, distributions, sampling,	Thea 397 Theatre Arts Management3 F (alternate years)
statistical inferences (parametric and non-parametric). P, Math 113 or	Emphasis on theory and practice of Arts Management as an important feature of the Theatre Arts discipline. Students will become proficient in
102. Stat 291 Mathematical Statistics 4 FS	the organization, promotion, budgeting, and operation of a performing
Stat 381 Mathematical Statistics4 FS Statistical methods and probability, especially in engineering and	arts program. P, 100, 131.
physical sciences. Common single and multiple variable densities and	Thea 435 History of the American Musical3 S (alternate years)
moment generating functions. Applications of random sampling to	History and development of American Musical Theatre from 1866 to the
hypothesis testing, confidence limits, correlation, and regression. P, Math	present. P, consent. Thea 441 Scene Design
225 or consent. Crosslisted with Math 381. Stat 442 Analysis of Variance and Regression	History of set design, planning and designing for stage.
Data interpretation, hypothesis testing and modeling with analysis of	Thea 445 Lighting for Stage & TV 3 F (alternate years)
variance and regression. P, 341 or 381.	Theatre and TV lighting. Lab and production participation
	Thea 445A Lighting for Stage & TV Lab
Dual Numbered Courses	Textual analysis, movement and acting styles for the theatre. P, consent.
Stat 441-541 Statistical Methods II3 FS	Thea 485 Summer Theatre 5 Su
P, 281 or Math/Stat 381, CSc 210 or 410 or consent of instructor.	Credit earned by participation with Prairie Repertory Theatre Company.
Stat 445-545 Nonparametric Statistics	May be repeated to a total of 10 credits, but only 5 may be applied to a
Stat 481-581 Statistics for the Physical Sciences	minor. P, consent. Thea 492 Special Problems1-2 FSSu
	Directed research. May be repeated for a total of 6 undergraduate credits.
Graduate Courses	P, consent.
Stat 662 Quality Control 3 FS	Thea 493 Topics in Theatre1-5
Stat 751 Interpretation of Statistical Software Output2 S	Selected topics of current interest in the discipline.
Stat 761 Experimental Design3 S	Dwal Nambared Coverses
Stat 780 Advanced Statistical Methods1-18 FSSu	Dual Numbered Courses The 410 510 Proposite Literature 3 E (alternate years)
Stat 792 Special Topics in Statistics 1-3 (6 max/student)	Thea 410-510 Dramatic Literature
	Thea 460-560 History of Theatre
	incu 400-500 instory of incutic minimum 5 5 (afternate years)
Thea (Theatre)	Periods, theatres, and representative dramatic literature from the classical
Thea (Theatre)	
Undergraduate Courses	Periods, theatres, and representative dramatic literature from the classical to the present day.
Undergraduate Courses Thea 100 Introduction to Theatre3 FS	Periods, theatres, and representative dramatic literature from the classical to the present day. Graduate Courses
Undergraduate Courses	Periods, theatres, and representative dramatic literature from the classical to the present day.
Undergraduate Courses Thea 100 Introduction to Theatre	Periods, theatres, and representative dramatic literature from the classical to the present day. Graduate Courses
Undergraduate Courses Thea 100 Introduction to Theatre	Periods, theatres, and representative dramatic literature from the classical to the present day. Graduate Courses Thea 792 Special Problems
Undergraduate Courses Thea 100 Introduction to Theatre	Periods, theatres, and representative dramatic literature from the classical to the present day. Graduate Courses Thea 792 Special Problems
Undergraduate Courses Thea 100 Introduction to Theatre	Periods, theatres, and representative dramatic literature from the classical to the present day. Graduate Courses Thea 792 Special Problems
Undergraduate Courses Thea 100 Introduction to Theatre	Periods, theatres, and representative dramatic literature from the classical to the present day. Graduate Courses Thea 792 Special Problems
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Undergraduate Courses Thea 100 Introduction to Theatre	Periods, theatres, and representative dramatic literature from the classical to the present day. Graduate Courses Thea 792 Special Problems
Undergraduate Courses Thea 100 Introduction to Theatre	Periods, theatres, and representative dramatic literature from the classical to the present day. Graduate Courses Thea 792 Special Problems

	Dual Numbered Courses	WL 220 Introduction to Wildlife and Fisheries Management3 F
	·	An introduction to the basic principles used in the management of
	Vet 424-524 Medical and Veterinary Virology 4 S (odd years)	wildlife and fish populations. The course is directed toward the
	Basic course discussing the characterization, structure, and replication of	
	viruses and the pathogenesis of viral disease in man and animals.	presentation of general concepts.
	Laboratory exercises emphasize techniques in virus isolation,	WL 230 Wildlife and Fisheries Techniques 3 S (even years)
		Techniques involved with the collection and analysis of wildlife and
	characterization, and detection by immunological assays. P, Micr 422 or	
	consent. Crosslisted with Micr 424-524.	fisheries population and habitat information and data are the primary
	Vet 424A-524A Medical and Veterinary Virology Lab 0	contents of the course. P, 220.
	· · · · · · · · · · · · · · · · · · ·	WL 292 Research Problems1-3 FSSu (as arranged)
	Vet 490-590 Problems in Veterinary Science	Individualized instruction on specific research problems. P, consent of
	1-3 (as arranged) FSSu	
	Consent of department head required.	instructor.
		WL 363 Ornithology 4 S
		Identification of bird species; life histories, ecology, habits, and special
	Graduate Courses	structural and physiological adaptations of various groups.
	Vet 503 Animal Diseases and their Control3 F	WL 363A Ornithology Lab 0
	Vet 723 Systemic Physiology4 F (odd years)	WL 367 Ichthyology3 F
	Vet 723A Systemic Physiology Lab0	Characteristics and relationships of fishes; adaptations, modifications,
	Vet 792 Special Problems1-4 FSSu	and ecological relationships; identification of common fishes; economic
	Vet 793 Special Topics 1-3 FSSu	and recreational importance of various groups.
		WL 367A Ichthyology Lab0
,	•	WL 370 Limnology3 F (even years)
		District of the state of the factor of the state of the s
•	WEL (Wellness)	Physical, chemical, and biological characteristics of water bodies.
	VV 1212 (VVCIIICSS)	Analysis of factors and processes that operate in freshwater systems.
	Undergraduate Courses	Methods of measuring and evaluating these factors and processes. P, one
	•	semester of chemistry.
	WEL 100 Skills for Healthy Living1	
	This course is designed to introduce students to wellness and provide the	WL 370A Limnology Lab0
	necessary knowledge and skills to make informed decisions which will	WL 411 Principles of Wildlife Management4 F
		Application of ecological principles to the management of wild birds and
	lead to the development of a healthy lifestyle. Various wellness issues	mammals. History and development of wildlife management as a science;
	will be addressed through interdisciplinary lectures. In addition, the	
	student will be involved in physical activity as part of the laboratory	characteristics of, and factors affecting wildlife populations; techniques
	component. Students must register for WEL 101-119 when registering for	and theory of management; wildlife conservation. P, 363, Zool 355, or
	· · · · · · · · · · · · · · · · · · ·	consent of instructor.
	WEL 100.	
		WL 411A Principles of Wildlife Management Lab0
	WEL 101-119 Skills for Healthy Living Labs 1	WL 412 Principles of Fisheries Management 3 S
		Fisheries management as a science with emphasis on freshwater game
	Students must register for WEL 100 when registering for wellness lab	fishes and freshwater ecosystems. Fish life histories, food habits, length-
	(WEL 101-119).	
	101 Aerobics	weight relationships, and age and growth characteristics. Methods of
	102 Racquet Activities	study of fish habitat, fish populations, and yield. Managing lakes,
		streams, and ponds for fish production. P, 367 or consent of instructor.
	103 Road Work	WL 412A Principles of Fisheries Management Lab 0
	104 Dance	
	. 10 i Buildo	
		WL 430 Human Dimensions in Wildlife and
	105 Running and Walking	
	105 Running and Walking 106 Cross Training	WL 430 Human Dimensions in Wildlife and Fisheries4 S
	105 Running and Walking 106 Cross Training 107 Court Activities	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted 119 Special Topics	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted 119 Special Topics	WL 430 Human Dimensions in Wildlife and Fisheries
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	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted 119 Special Topics WL (Wildlife & Fisheries Sciences)	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted 119 Special Topics WL (Wildlife & Fisheries Sciences) Undergraduate Courses	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted 119 Special Topics WL (Wildlife & Fisheries Sciences) Undergraduate Courses WL 110 Environmental Conservation	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted 119 Special Topics WL (Wildlife & Fisheries Sciences) Undergraduate Courses WL 110 Environmental Conservation	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted 119 Special Topics WL (Wildlife & Fisheries Sciences) Undergraduate Courses WL 110 Environmental Conservation 2 FS Ecological approach to conservation; humans' past and present impact on	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted 119 Special Topics WL (Wildlife & Fisheries Sciences) Undergraduate Courses WL 110 Environmental Conservation 2 FS Ecological approach to conservation; humans' past and present impact on world environments; wise use of natural resources, including soil, water,	WL 430 Human Dimensions in Wildlife and Fisheries
	105 Running and Walking 106 Cross Training 107 Court Activities 108 Field Activities 109 Water Conditioning 110 Strength Training 111 Circuit Weight Training 112 Cardiovascular Training 113 Outdoor Activities 114 Walking/Hiking 115 Individual Activities 116 Challenge Activities 117 Mind-Body 118 Restricted 119 Special Topics WL (Wildlife & Fisheries Sciences) Undergraduate Courses WL 110 Environmental Conservation 2 FS Ecological approach to conservation; humans' past and present impact on	WL 430 Human Dimensions in Wildlife and Fisheries

WL 494-495-496 Cooperative Education/Internship/ Field	WL 719 Stream Ecology and Management3 F (odd years)
Experience1-12 FSSu	WL 719A Stream Ecology and Management Lab0
Planned and supervised professional experience related to wildlife and	WL 790 Thesis1-7 FSSu
fisheries conservation which takes place outside the formal classroom	WL 791 Thesis Sustaining0 FSSu
and is associated with federal, state, or private operations.	WL 792 Graduate Seminar 1 FS
•	WL 793 Research Problems1-3 FSSu
Dual Numbered Courses	
WL 413-513 Advanced Fisheries Management3 F (even years)	WmSt (Women's Studies)
Principles and techniques of selected practices for reservoir, lake, pond,	VVIIIDE (VOINCII S Studies)
and lotic fisheries management. P, WL367, WL412, and/or consent of	Undergraduate Courses
instructor. WI 412A 512A Advanced Fisherica Management Lab	WmSt 101 Introduction to Women's Studies3 F
WL 413A-513A Advanced Fisheries Management Lab0	Exploration of women's issues in both historical and contemporary
WL 415-515 Upland Game Ecology and	contexts, including introduction to feminist theory.
Management	WmSt 248 Women in Literature3 (alternate years)
Upland game birds and mammals as components of ecosystems. Effects	Study of literature by and about women. Course materials may range
of farming; industry; social change; technology; and federal, state, and	from early times to the present and may also include non-American
private programs on game and non-game species. Techniques for	literature. Crosslisted with Engl 248.
individual species management. P, 411 and/or consent of instructor.	WmSt 300 Topics in Women's Studies3
WL 415A-515A Upland Game Ecology and Management Lab0	An interdisciplinary examination of women's issues within a larger
WL 417-517 Large Mammal Ecology and	framework, e.g., the Social Sciences, the Humanities and Fine Arts, and
Management	the Natural Sciences. (May be repeated for credit when the topic is
Large mammal life histories and distributions. Relationships of nutrition,	different.)
reproduction, interspecific competition, and predation to management of large mammal habitat and harvest. Techniques for research and	WmSt 305 Women in Politics3 S
management of large mammals. P, 411 and/or consent of instructor.	Study of the role women play in the American political process as
WL 417A-517A Large Mammal Ecology and Management Lab0	activists as well as voters in the late 20th century. Particular emphasis is
WL 419-519 Waterfowl Ecology and Wanagement Lab0	placed on barriers women face in gaining access to political power in
· -	public and private institutions, and the impact legislation and court
Management	decisions have had on the role of women in American society. No
habitat and waterfowl populations. State and federal programs affecting	prerequisites. Crosslisted with PolS 305.
wetland drainage and wetland preservation. Field inspection of waterfowl	WmSt 349 Women in History3 S
production habitat in the north-central states. P, 411 and/or consent of	This course will investigate the role of women in the history of the
instructor.	western world. It will attempt to discover what impact women have had
WL 419A-519A Waterfowl Ecology and Management Lab	on the course of events. Selected women and their careers will be
WL 421-521 Grassland Fire Ecology 3 F (even years)	highlighted. The course will focus on either European or American
The course is designed to describe the ecological effects of fire on	women at the discretion of the instructor. Crosslisted with Hist 349.
grassland ecosystems. It also provides insight into the history of fires, the	WmSt 366 Psychological Gender Issues3 S
people who used them and why, the parts of a fire, how fires behave in	This course surveys the current theoretical and research issues in the
relation to fuel and weather, and the conducting and safety of prescribed	development of gender and explores the impact of gender on the lives of
burns. P, consent of instructor.	women and men. Topics include societal and biological influences on
WL 421A-521A Grassland Fire Ecology Lab	psychological development, achievement motivation, sex roles,
WL 423-523 Fish Culture 3 F (odd years)	stereotyping, socialization, sexuality, and personality. P, 101 or 102.
Extent and potential for aquaculture. Emphasis placed on culture methods	Crosslisted with Psyc 366.
of important commercial and sport fishes and invertebrates of North	WmSt 383 Sociology of Gender Roles3 S
America. P, consent of instructor.	Female and male roles in relation to one another in a changing world are
WL 423A-523A Fish Culture Lab	the focus of this course. The nature of sex roles, their origin, and their
WL 493-593 Special Topics in Wildlife and	variations over time and across cultures are examined. Crosslisted with
Fisheries1-3 FSSu	Soc 383.
Students may secure small-group instruction in a variety of special topics.	WmSt 418 Women in Media3 F
Contact department head concerning planned special topics. P, graduate	This course examines contributions of women to the mass media from
or senior undergraduate and consent of instructor.	colonial era to present. It also studies the portrayal of women by the news
· ·	media and by advertising, and it studies the roles currently played by
Graduate Courses	women in the media and in supporting areas of advertising and public
WL 712 Wetland Ecology and Management 3 F (odd years)	relations. Crosslisted with MCom 418.
WL 712 Wetland Ecology and Management Lab	WmSt 492 Special Problems in Women's Studies 1-3 FSSu
WL 713 Animal Population Dynamics3 F (even years)	In depth study in a topic area in which the student has taken the course
WL 713A Animal Population Dynamics Lab	offered or in a topic area in which there is currently no course available.
	Three credits required for minor. May be repeated for a total of six
WL 714 Fish Structure and Function	credits. P, 101 and consent of supervising faculty.
WL 715 Wildlife Research Design	WmSt 493 Current Topics in Women's Studies3
WL 7154 Wildlife Research Design Lab	Selected topics of current interest in this discipline.
WL 717 Advanced Limnology3 S (even years)	·
WL 717A Advanced Limnology Lab0	
WL 718 Ecology of Aquatic Invertebrates 3 F (even years)	

$Zool \; (Zoology)$

Undergraduate Courses

Undergraduate Courses
Zool 221 Anatomy3 FSSu
Structure of various systems of the body as basis for physiology. Models
and charts are used with references to skeletons.
Zool 222 Anatomy Lab0
Zool 301 Animal Behavior3 F
Animal behavior from many aspects, including communication, social
organization, orientation, imprinting, courtship and mating, agonistic
behavior, control systems, and the evolution of behavior patterns. P, Bio
101 or 151 or consent.
Zool 325 Mammalian Physiology 4 FS
Basic cell physiology, neural, hormonal and neuroendocrine control
systems. coordinated body functions. P, 8 credit hours of Chemistry and
Zool 221 or consent.
Zool 325A Mammalian Physiology Lab 0
Zool 355 Mammalogy 3 F
Identification of game, furbearing, and small mammals; taxonomy of
these groups, life histories and habits, preparation of study skins and
skeletons; special reference to those occurring in Northern Great Plains
areas. P, Bio 101 or 151.
Zool 355A Mammalogy Lab 0
Zool 365 Vertebrate Zoology4 S (odd years)
Structure and ways of life of the vertebrate classes. General anatomy,
organ systems, and special characteristics of each class of vertebrates as
well as detailed classification of the major taxa down to the family level.
P, Bio 101 or 151.
Zool 365A Vertebrate Zoology Lab0
Zool 383 Embryology4 S
Classical and current concepts of embryology. Introduction and
elementary aspects of embryological development in the animal

kingdom. P, Bio 101 or 151. Bio 371 desirable antecedent.

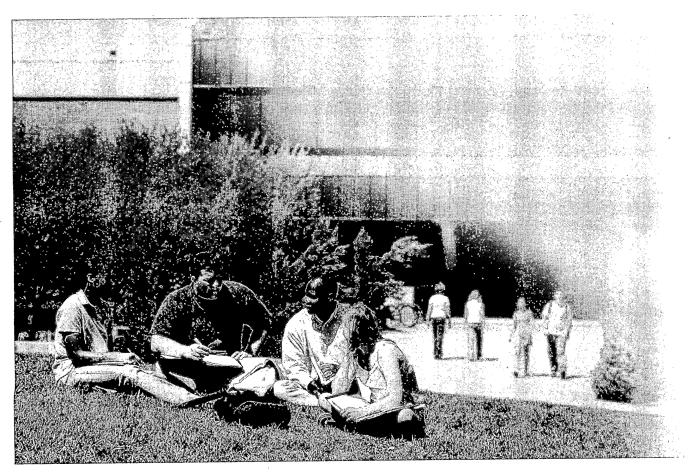
Zool 383A Embryology Lab	0
Zool 441 Vertebrate Histology	.4 F
Microscopic study of cells and fundamental tissues. Structures of or and systems are stressed to integrate structure and function. P, Bio 10	gans
51.	
Zool 441 A Vertebrate Histology Lab	0

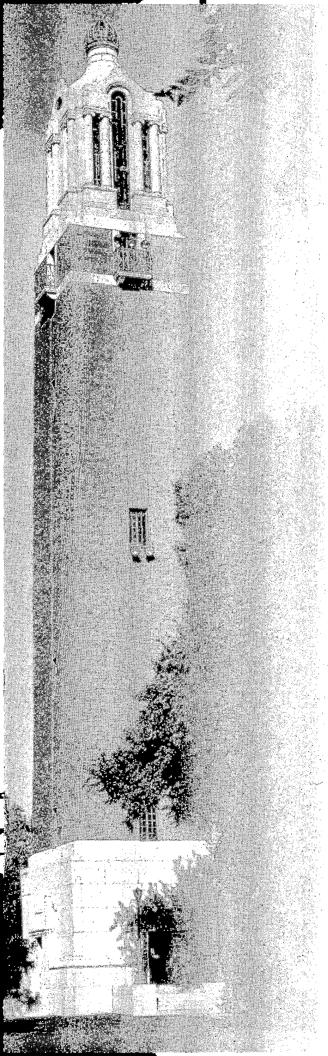
Z001 441A vertebrate histology Lab
Zool 467 General Parasitology3 F
The broad field of animal parasitology, including protozoa, helminths
and arthropods. Emphasis on identification, life histories, control, and
economic and medical importance. Laboratory includes morphology and
identification of representative groups of parasites, as well as techniques
of diagnosis of parasitic disease, P. Bio 101 or 151.

01 diagnosis as F	
Zool 467A General Parasitology Lab	0
Zool 492 Special Problems	
Independent study in specialized area of zoology. Objective	
work and plan of study specified by instructor and student(s)	
or 151 and consent of instructor and department.	

Graduate Courses

Zool 723 Systematic Physiology	4
Zool 723A Systematic Physiology Lab	
Zool 782 Special Problems	
Zool 797 Special Topics in Zoology	1-5 FS





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Agricultural Experiment Station

The research function of the College of Agriculture and Biological Sciences results from carefully designed experiments providing a base of new knowledge and service to the citizens of South Dakota.

This new knowledge is effectively used by farmers, ranchers, homemakers, by industry, in the campus classroom, and in Extension education programs throughout the state. Courses in the College of Agriculture and Biological Sciences and in the College of Family and Consumer Sciences are especially strengthened by this new knowledge. State, area, and county Extension educators in agriculture and family and consumer sciences have immediate access to this information.

Much of the Agricultural Experiment Station research is done at Brookings. However, a considerable amount is conducted at six field stations and at the West River Agricultural Research and Extension Center at Rapid City. Field stations are maintained to conduct research designed to solve local or special purpose problems. Beyond this, research on farms and ranches, in wildlife areas, in watersheds and with cooperating businesses and institutions results in scientific investigation being conducted in nearly every county of the state.

Research may be grouped in the following subject matter areas: livestock, crops and soils, community and public affairs, animal health, fertilizers, garden and orchard, home and consumer, water resources and irrigation, forestry, insects, farm machinery, marketing, business management, farm buildings, pollution, range and forages, fisheries, plant diseases, wildlife, sociology, and stress in plants, animals, and humans.

Research is financed by state and Federal appropriations, industry grants, and Federal and state grants. Research results are published in Agricultural Experiment Station or Extension bulletins, journals of scientific societies, and a quarterly publication, Farm and Home Research. Many of these publications are available from County Extension Offices or the Experiment Station Bulletin Room on campus.

For information contact the Director, Agricultural Experiment Station, South Dakota State University, Box 2207, Brookings, SD 57007-0291, phone 605-688-4149 or e-mail: Sandra_Rusten@sdstate.edu

Alumni Association

The purpose of the SDSU Alumni Association, a separate entity from the University, shall be to foster a spirit of loyalty and fellowship among graduates, faculty, students, former students, and friends of the University, and to direct and/or participate in an organized cooperative effort for the advancement, development, achievement, and honor of both South Dakota State University and its alumni.

The Executive Director, V.J. Smith, can be reached at (605) 697-5198, e-mail: vj@alumni.sdstate.edu, or Box 515, Brookings, SD 57007-0299.

Animal Disease Research and Diagnostic Laboratory (ADRDL)

The South Dakota Animal Disease Research and Diagnostic Laboratory is a public service laboratory that is totally integrated with the Veterinary Science department. Career service personnel and professional diagnosticians that are also department faculty staff the lab. The faculty is actively involved with the traditional roles of service (professional outreach), research and teaching/advising. State general funds and user fees pay for the laboratory's operation. The lab is a

reference lab and only receives cases by referral from veterinarians or state officials. The ADRDL mission is to provide high quality veterinary diagnostic services and research as a means to promptly and accurately establish causes of animal health problems. Such diagnoses will aid attending veterinarians and health officials in the treatment, control, prevention, and surveillance of animal diseases to the benefit of the SD livestock industry, other animal owners, and society at large.

Career and Academic Planning Center

I. Introduction

Planning for the type of career you want after graduation should begin with your first advising session at SDSU. The Career and Academic Planning (CAP) Center, located in Medary Commons, supports the following services to assist you with that planning.

II. College of General Registration

The College of General Registration is for students who would like to explore their interests and abilities and the majors at SDSU before declaring a major. At SDSU, each student is assigned to an academic adviser who is responsible for providing guidance intended to help them investigate, identify, and accomplish their academic and career plans. Students in the College of General Registration are assigned to advisers who are specially trained to help them decide about their academic goals. Students from all colleges and majors are welcome to

consult with CAP Center staff about their academic plans if they need special academic advising assistance.

III. Career Planning Services

If you're looking for assistance in selecting a major, planning for a career or finding a job, the CAP Center is the place for you. Through this office you can visit with a career counselor; take an interest/skill inventory; or participate in career development workshops. The CAP Center's Career Resource Library provides information on careers, major employers in the United States, various academic majors at SDSU, and the employment status of SDSU graduates. The College of General Registration offers Academic and Career Exploration (GR 101), a one credit class for students who desire help in exploring the world of work.

IV. Employment Services http://www.sdstate.edu/capcenter

The CAP Center is the place to go for help in your search for parttime, summer, intern, or full-time employment. The staff at the Career and Academic Planning Center offer workshops and individual assistance to help you prepare a resume, develop interview skills, improve your job hunting strategies, and contact employers. Over 150 companies recruit on campus each year. In addition, the CAP Center annually receives between 6,000 and 8,000 job vacancy notices. These openings are published in a weekly job vacancy listing called "Job Notes." Students may also establish a professional reference file at the Career and Academic Planning Center. Finding the best employment

opportunities takes time and effort. The CAP Center staff can help you learn a variety of techniques for effective job searching.

V. Academic Support Services

Staff at the CAP Center instruct a two credit course designed to help students become more effective learners. The course is called "Mastering Lifetime Learning Skills" (GR 143) and is offered each semester. In addition, students who need individual assistance in developing good study habits or overcome test anxiety may make individual appointments with professional staff in the office.

Computing Services

SDSU Computing Services provides computer access and support to SDSU faculty, staff and students to support quality instruction and an environment of multiple educational opportunities, both in the classroom and in other settings. Our goal is to equip SDSU with currently available computer based technology options, always keeping in mind the implementation of new and expanding technologies.

For students, we provide six general access computer labs, plus a computer design lab, with 18 to 32 Windows compatible machines in each lab. These computer labs provide students with access to a variety of major computer application programs, e-mail, and the Internet. Many individual departments and colleges provide separate labs for the special needs of students in particular majors. Among these, four departments provide Macintosh based labs for their students. Most residence halls are also equipped to offer computer access to students who live in these facilities. All residence halls offer direct Internet connections in student rooms.

Computing Services coordinates planning and implementation of campus-wide local area networks and management of access into state

and national computer networks. Besides offering free e-mail services for students, the opportunity is provided for students to create their own WWW homepages. Students can access these two services through all general access computer labs and residence hall rooms.

Training for students, student computer hotline, and computer lab monitors are available to assist students who need computer assistance or have technical questions. The User Services office also provides both students and faculty with access to laser printers (both for Windows compatible and Macintosh machines), virus-protection software, scanners, and other miscellaneous services.

To assist faculty members, Computing Services provides computers to instructors through the Academic Computer Technology Service (ACTS) program. Also, in-house repair of university computers, computer training classes, and network support are provided to enable quality education. Research support is provided through local and wide-area network access to desktop, UNIX based mid-range and mainframe computers.

Cooperative Extension Service

The SD Cooperative Extension Service (CES) provides the offcampus informal educational function of SDSU and encompasses the following broad areas of educational programming: Agriculture, Family and Youth Development/4-H. The mission of the CES is to disseminate and encourage the application of research-generated knowledge and leadership techniques to individuals, families, and communities in order to improve agriculture and strengthen the South Dakota family and community.

The Cooperative Extension Service brings the SDSU campus to every community across the state. Through the Extension educators and specialists, CES disseminates the findings of research and encourages the application of knowledge for solutions of problems and for opportunities encountered in everyday living. Much of the economic progress of farmers and ranchers can be traced to this unique type of non-formal, out-of-classroom learning opportunity provided to them for more than 85 years by SDSU in cooperation with the U.S. Department of Agriculture and county governments.

Approximately 50% of the funds supporting Cooperative Extension educational programs is appropriated to SDSU by the SD Legislature with 41% from Federal appropriations. Additionally, over \$2.3 million is provided by SD counties in the form of in-kind support. Extension program emphasis is constantly changing to meet the needs and opportunities (circumstances) of people who help determine instructional needs.

In 1998, CES staff and South Dakota stakeholders identified the following core values which describe the Cooperative Extension Service as we embark on the 21st century:

Responsive – Extension will exceed client expectations in the timeliness and quality of programs and information presented.

Excellence – The motivating factor for Extension's continued growth and improvement will be continued commitment to excellence.

Accountable – Relevant and useful data will be gathered and applied to decision-making about organizational changes, allocation of resources, program priorities, staffing patterns, and professional development for Extension personnel.

Credibility – Extension will address problems and issues with unbiased analysis and research-based answers.

Respectful – Rather than make decisions for the citizens of South Dakota, Extension will present alternatives and provide assistance in the decision-making process.

Catalytic - Through cooperative and collaborative partnerships, Extension will help cause changes across South Dakota.

The CES staff is dedicated to assisting individuals and groups meet the challenges of change in farming, ranching, marketing, the home, state and nation. The press, radio, TV, satellite, interactive audio-visual, the Internet, educational publications, group methods and individual contacts are used to inform and teach. Students are encouraged to become acquainted with the CES staff on campus and take advantage of the information available in Extension publications to enrich their course of study. Extension also offers rewarding career opportunities for graduates in agriculture, family and consumer sciences, natural resources, and other social sciences.

For information contact Larry Tidemann, Associate Dean, College of Agriculture and Biological Sciences and Director of SD Cooperative Extension Service, South Dakota State University, Box 2207D, Brookings, SD 57007 or phone 605-688-4792 or e-mail: tidemann.larry@ces.sdstate.edu.

Crime Reports

South Dakota State University publishes an annual report each Fall in compliance with the Campus Security Act of 1990. The report which describes policies, enforcement, statistics, and prevention and

information programs is distributed to all staff and students at registration time and is also available upon request from the office of the Dean of Student Affairs.

Endowed Chairs

An endowed chair is a prestigious faculty position supported entirely by private contributions. Individuals appointed to serve in such positions will be renowned in their fields of expertise and will add a special dimension of quality to the academic environment at South Dakota State University.

Nutrition

An endowment fund established by the late Dr. Ethel Austin Martin, a 1916 SDSU graduate, has, for two decades, maintained an ongoing program of visiting professorships in human nutrition and now supports in perpetuity an endowed chair entitled the *Ethel Austin Martin–Edward Moss Martin Chair of Human Nutrition*.

The Chair of Human Nutrition was established at SDSU to ensure scholarly instruction in the broad aspects of the science of nutrition. This is a continuing campus position with faculty rank filled by a nutrition scientist selected for qualifications in the science of nutrition, and for understanding, skill and experience in advancing the multidisciplinary approach to nutrition education. This position is funded solely by the endowment.

The Visiting Professorships will continue to be conducted periodically as a major multidisciplinary function of the Chair Program.

Typically, visiting professorships are for a period of days or weeks.

Programs supported by the Ethel Austin Martin endowment have no administrative affiliation with any one college or department of SDSU. The program is administered directly under the Vice President for Academic Affairs.

Dairy Science

The Chair in Cheese Chemistry and Technology in Dairy Science has been established in recognition and in memory of Alfred Gonzenbach and the late Alfred Nef for their contributions to the cheese industry and economic development through establishment of Valley Queen Cheese Factory, Inc., in Milbank.

The Alfred Chair was created on July 1, 1991, and is funded by the SA Education Foundation in Watertown.

The Alfred Chair will be a continuing campus position with faculty rank filled by a dairy/food scientist with experience in cheese chemistry and technology. The addition of the Alfred Chair, a prestigious faculty appointment, is expected to maintain national prominence of the SDSU Dairy Science Department in the dairy processing profession.

Engineering Resource Center (ERC)

The ERC, established in 1986, exists to serve the University, citizens, and industry in South Dakota. Five complementary outreach and/or technology transfer programs make up the ERC. Thus, the knowledge gained from one program often supports or strengthens another program. The five programs are: Engineering Extension; Office of Remote Sensing; South Dakota Space Grant Consortium; Local Transportation Assistance Program; and the University/Industry Technology Service.

The ERC may undertake projects directly or use project teams composed of students, university faculty, and non-university experts. These teams may be discipline-specific or interdisciplinary. The ERC has an on-line expertise database to identify potential faculty and industrial consultants. Another database contains information on the manufacturers and processors in South Dakota.

The mission of **Engineering Extension** is to assist the private and public sectors of the state with their technical needs for the purpose of economic development. The primary activities of the program are:

- Occupational safety and health surveys of the workplace for South Dakota employers.
- Training and workshops and seminars to update skills regarding technical needs and to certify individuals who are required to work under specific government regulations.
- 3. Technical assistance that provides "hands-on" expertise that will solve safety and health technical problems for small industries, government agencies and others through industrial/mechanical engineering technologies.

The Office of Remote Sensing (ORS) uses multispectral remotely sensed imagery and geographic information system (GIS) for natural resource studies and mapping projections in South Dakota and throughout the world.

The South Dakota Space Grant Consortium is a program funded in part by the National Aeronautics and Space Administration. Consortium members are SDSU, SDSM&T, Augustana College and the EROS Data Center. Goals of the Consortium are to create an enthusiasm for aerospace sciences among students and faculty and to encourage them to pursue careers in related fields.

The South Dakota Local Transportation Assistance Program (LTAP) assists local governments with technology and information needed to operate their transportation related agencies.

The University/Industry Technology Service (UITS) links University resources to industry, business and government to solve technological problems and enhance economic development in South Dakota.

For information, contact Kevin Dalsted, Director, Engineering Resource Center, SDSU, Box 2220, Brookings, SD 57007-0199; phone 605-688-4184; e-mail: Kevin_Dalsted@sdstate.edu

Fees

Application Fee – Non-refundable charge assessed all applicants for initial admission unless you have previously attended South Dakota State University or another South Dakota public university.

Activity Fee – A fee charged per semester to cover health, student union and other university services, such as: admission to plays, athletic events, athletic facilities, and partially funded judging, music and forensic programs.

University Support Fee – A fee assessed per credit to replace expendable supplies, defray cost of maintenance, repair and replacement of equipment, testing and other instruction related costs. Also, to assist in providing services that benefit students which are not funded from other sources.

Late Charge – If you do not pay tuition and fees during the regular established payment periods, you will be assessed a late charge. If you fail to satisfy financial obligations when due, you will be administratively withdrawn from the University.

Field Trip Charge – Students enrolled in selected courses that involve field trips may be assessed for transportation, group admission, and entry fees. The amount charged will vary per course.

Special Expenses for Education Students – Education students enrolled in selected Education courses are assessed a fee of \$120 per semester for Junior Field Experience, \$240 per semester for Senior Student Teaching, and \$120 one-time fee for Master's Level Internships.

Special Expenses for Engineering Courses –A fee of \$14.54 per credit hour is charged for courses in the College of Engineering. This fee applies to Mathematics and Computer Science courses as well.

An Engineering/Science Lab Fee of \$21.00 per designated course is charged to all lab classes in engineering, mathematics, and selected sciences. These funds are used for supplies and materials and to purchase equipment.

Special Expenses for Nursing Students – Uniforms must be purchased by second year nursing students. Transportation must be provided by the student in Community Health Nursing and selected independent experiences. Nursing majors enrolled in more than 2 credits of nursing courses are assessed a major fee of \$313.35 for the Undergraduate program, \$144.18 for the RN Upward Mobility program, and \$144.18 for the Graduate program. Students enrolled in the Family Nurse Practitioner program are assessed a fee of \$512.07 per semester.

Special Expenses for Pharmacy students – Students in the Pharm.D. program are assessed a major fee of \$844.00 and \$52.75 per credit hour per Pharm D Clerkship (10 required) for semester 11 and 12.

Tuition, Living, and Other Expenses

Effective 5/15/00

All charges and procedures listed are subject to change pending Board of Regents action.

TUITION AND FEES	Resident*	Non- Resident
Tuition — undergraduate on-campus	,	
per semester credit	\$60.40	\$192.15
graduate on-campus per semester credit	91.70	270.40
University Support Fee per credit	39.16	39.16
Activity Fee — per credit	12.61	12.61
See accompanying text for the descriptions of fees		
for Engineering courses (including Mathematics		
courses), lab fees, and special expenses for		
Nursing, Pharmacy, and Education students.	,	

^{*} For residency information, contact the Admissions Office. For Minnesota-South Dakota reciprocity information, contact the Reciprocity Officer, Dean of Student Affairs Office.

CAMPUS ROOM AND BOARD COSTS

Meal Plan, per semester

Students have a choice of 6 Meal Plans ranging from \$624.44 to \$864.00 per semester. For more detailed information, contact the Food Service Office or Residential Life.

Residence H	all Rent,	per	semester
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Single occupancy	961.00	961.00
Double room	711.30	711.30

INITIAL PAYMENTS REQUIRED FOR NEWLY ENROLLING STUDENTS

Application fee (nonrefundable)	\$15.00	\$ 15.00
Residence Hall Advance Payment	•	Ψ 15.00
(Part of room rent)	50.00	50.00
First time international student charge	•	100.00

TYPICAL EDUCATION EXPENSES FOR FULL TIME UNDERGRADUATE FOR ONE SEMESTER

Tuition — 16 credits	\$ 966.40	\$3,074,40
University Support & Activity Fees —		7-,
Health Service, Union, Students' Association	828.32	828.32
Books and supplies (estimate)	400.00	400.00
Meal Plan	773.90	773.90
Residence hall rent	<u>711.30</u>	711.30
	\$3,679.92**	\$5.787.92**

^{**} Expenses will be higher if a student takes course work requiring lab fees or special discipline fees. See accompanying text.

PAYMENT PROCESS

On or before registration day each student makes a full payment of charges based on the number of credits early registered for, residency status, and campus housing. Final Fee payment will be made approximately four weeks later for any additional changes to the student's bill that occurs after the registration day billing process.

CAMPUS CARD DEBIT SYSTEM-HOBO DOUGH

The student identification card is used as a debit card to access prepaid accounts. In addition to its extensive use in the food service system, the ID card accesses prepaid accounts, called HOBO DOUGH, for bookstore, campus vending, laundry, photo copying and printing, and selected off-campus businesses. Upon graduation or leaving the University, these funds will be returned in full upon request. No service charges are assessed for active accounts. However, accounts inactive for six months or more are assessed a monthly service charge. If the service charge exceeds the account balance, the account is automatically closed.

Indebtedness - If you are indebted to the University and do not satisfy financial obligations when due, you may be denied admission to the University. You may be administratively withdrawn from the University after notice from the University and you will not be permitted to register or receive a transcript of grades until the indebtedness is paid. This applies to your indebtedness to the University for tuition, fees, required deposits and board, financial aid, but not to student organizations.

Refunds

A petition process does exist for students or parents who feel that individual circumstances warrant exception from the published refund policy. Contact the Registrar, ADM 208, for information.

Food Service and Room Rent Refunds - Students with a room contract or food service contract will receive a refund based on the unused portion of the fee at the time of withdrawal up to the 60% point of the period.

Federal Financial Aid Recipients - The U.S. Department of Education requires institutions to use the Return of Title IV Funds policy for students withdrawing from school and who are receiving Federal Title IV student financial aid. Title IV funds refers to the federal financial aid programs authorized under the Higher Education Act of 1965 (as amended) and includes the following programs: Federal Stafford Loan, Unsubsidized Stafford Loans, Parent Loans for

Undergraduate Students (PLUS), Federal Perkins Loans, Federal Pell Grants, and Federal Supplemental Grants. Also, the Federal Nursing Loans and Federal Health Professions Loans use the Return to Title IV Funds calculation.

A student's withdrawal date is 1) When the student began the withdrawal process or officially notified SDSU of intent to withdraw by contacting the SDSU Registrar's Office, or 2) The midpoint of the period for a student who leaves without notifying SDSU; or at SDSU's option, the student's last documented date of academically-related activity.

Return of Title IV Funds is based on "earned" and "unearned" financial aid as related to the period of time the student is enrolled. Institutional charges comprise the amounts that had been assessed (paid or unpaid) and are not used in determining the Return of Title IV funds for a withdrawing student. During the first 60% of the period (academic term) a student "earns" Title IV funds and other applicable aid on a per diem prorated manner based on a percentage of the enrolled period by dividing the number of days a student attended by the number of days in the period. Calendar dates are used, except breaks of at least 5 days are excluded from the calculation. A student who remains enrolled beyond the 60% point earns all aid (100%) for the period.

The "unearned" Title IV funds must be returned to the aid programs. Unearned aid is the amount of disbursed Title IV aid that

Schedule of Refunds For **Tuition and Per Credit Hour Fees**

(Students without Federal Financial Aid) **Complete Withdrawal**

Refund % of Non-Standard Semester **Standard Semester** (In Class Days) 0% to 10% 100% Up to 7 class days 50% >10% to <20% >7 class days to ≤3 weeks 25% >20% to <26% >3 to ≤ 4 weeks 0% >4 weeks >26%

(BOR policy as of 5/00 subject to change)

Dropped Courses

A student receives a 100% refund of tuition and per credit hour fees for dropped courses in the first 7 class days of a standard semester or the first 10% of instruction of a nonstandard semester.

> exceeds the amount of Title IV aid earned based on attendance in the enrollment period. Uncoverable charges are derived from the unearned percentage calculation for the period multiplied by the institutional

> Repayment of unearned aid is first paid by any unearned (refunded) institutional charges. The student owes the difference between the total unearned amount and the refunded institutional charges.

> Return of Title IV funds, by programs disbursed, are allocated in the following order: Unsubsidized Federal Stafford Loan, Federal Stafford Loan, Federal Perkins Loan, PLUS Loans, Federal Pell Grant, Federal Supplemental Grant, other Title IV assistance, other federal sources of aid, other state, institutional, and private aid, and last to the student.

> Responsibilities of SDSU include providing information on the Return of Title IV Funds policy and procedure to students. This information is available at www.sdstate.edu and from the SDSU Financial Aid Office. SDSU is also responsible to complete calculations of the Return of Title IV Funds for federal financial aid recipients who are withdrawing from SDSU and to return any Title IV funds to the respective Title IV funds account. The student is responsible to repay any Title IV funds that the student was determined to be ineligible for via the Return to Title IV funds calculation.

Return of Title IV Funds Example

Example A: Student withdraws on the 27th of a 108-day period for a 25% earned financial aid disbursement. The institutional charges were \$1,600. The total Title IV aid disbursed was \$2,400, with \$1,600 going to institutional charges and \$800 going to the student.

Earned aid: \$2,400 (aid disbursed) X .25% = \$600

Unearned aid to be returned: \$2,400 - \$600 = \$1,800Unearned percentage: 100-25% (earned) = 75% unearned Uncoverable charges: 75% (unearned) X \$1,600 (charges) = \$1,200

The institutional share is the lesser of \$1,800 (unearned aid to be

returned) and \$1,200 (uncoverable charges).

The student's share is \$1,800 (unearned aid) - \$1,200 (uncoverable charges) = \$600

Thus, the total \$1,800 Return of Title IV Funds has the institutional share of \$1,200 (75% of \$1,600 used for payment) and the student share of \$600 (75% of \$800 paid to student).

Example B: Same as A, except the student withdraws on the 65th day of a 108-day period (60.2%). No Return of Title IV Funds calculation is needed since the withdrawal date is after the 60% point of the enrollment period.

Financial Assistance

General Information

Approximately 83% of the SDSU students attending full-time receive some type of financial assistance to help pay their educational costs. Financial assistance includes both need-based financial aid (grants, loans, work) as determined by the Free Application for Federal Student Aid, and other financial aid (scholarship, agency assistance, etc.) not based on need. Financial need is defined as the portion of educational costs not covered by family contributions. Educational costs are determined by the Financial Aid Office and family contribution is calculated from information on the Free Application for Federal Student Aid.

The SDSU award policy gives priority for some federal financial aid programs to students completing the Free Application for Federal Student Aid before March 15. However, the largest financial aid programs, the Federal Pell Grant and the Federal Stafford Loan, do not have priority processing dates. Students must reapply for financial aid every academic year. Please contact the Financial Aid Office for summer financial aid procedures.

Need-Based Financial Aid Programs

I. General eligibility requirements

- A. Admission in an SDSU degree program.
- B. Enrolled as a full-time student to receive full award.
- C. United States citizen or eligible non-citizen.
- D. Cannot be in default on a federal student loan or owe a refund to a federal student grant program.
- E. Selective Service laws require male students born after December 31, 1959, to be registered with Selective Service.
- F. Maintain Satisfactory Progress as described in detail in the SDSU Satisfactory Progress Standards (sent to all financial aid recipients and available upon request for others). Satisfactory Progress is the measurement of a student's academic performance (credits completed and cumulative grade point average) toward the completion of the student's degree program. Students not meeting Satisfactory Progress Standards will have their federal financial aid eligibility suspended.

II. Financial aid programs

SDSU participates in all of the federal financial aid programs. Specific information is available on the SDSU web page at http://www.sdstate.edu or in the "SDSU Financial Aid," The U.S. Department of Education's "The Student Guide," and other financial aid materials. An SDSU Financial Aid award letter identifies the specific awards and other information is enclosed for the financial aid recipient.

- A. Grants are gift aid based on financial need.
 - Federal Pell Grant awards are determined by a federal formula for the student's first bachelor degree.
- Federal Supplemental Educational Opportunity Grant awards are based on Pell Grant eligibility and available funds.
- B. Loans provide an opportunity to borrow money for educational expenses. Loans must be repaid. First time loan recipients are required to attend Entrance Loan Counseling sessions.
 - The Federal Stafford Loan Program is the largest financial needbased loan program. The Federal Stafford Loan is processed with financial institutions. The federal government pays the interest while the student is in school and during deferment periods. Interest and repayment begin six months after half-time enrollment ends; the interest rate is a variable rate, not to exceed 8.25%.
 - 2. The Unsubsidized Federal Stafford Loan can be used by students who are not eligible for full need-based financial aid as determined by the Free Application for Federal Student Aid. Independent students may apply for extended unsubsidized Federal Stafford Loans if eligible. The student pays the interest on unsubsidized loans.
 - The Federal PLUS (Parent Loan for Undergraduate Students): The
 parent processes a loan application for the student and makes a
 monthly payment beginning 60 days after the PLUS check is
 disbursed. Interest rate is variable, not to exceed 9%.

- 4. The Federal Perkins Loan is an SDSU award based on financial need and SDSU award policy. Interest (5%) and repayment begin nine months after half-time enrollment ends.
- The Nursing Student Loan is for nursing majors based on financial need and SDSU award policy. Interest (5%) and repayment begin nine months after half-time enrollment ends or ending the nursing degree program.
- 7. The Health Professions Student Loan is for pharmacy majors based on financial need and SDSU award policy. Interest (5%) and repayment begin 12 months after full-time enrollment ends or ending the pharmacy degree program.
- C. Work opportunities may provide part-time employment for students.
 - The Federal Work Study financial aid awards are based on financial need and SDSU award policy. Most jobs are on-campus. There are some community service job opportunities.
 - Other employment opportunities may be available through the Job Location and Development Program as part of the Career and Academic Planning Services and South Dakota Job Service.

III. Scholarships

The SDSU scholarship programs have increased yearly with additional scholarships for new, continuing, and transfer students. SDSU awards over 2,000 scholarships to undergraduate students. There are approximately 580 new-freshmen student scholarships. A single scholarship application available from SDSU or from your high school needs to be completed and returned to the SDSU Financial Aid Office before January 25 for priority consideration for the academic scholarships.

- A. Selected new freshmen scholarships.
 - Renewable scholarships, upon meeting academic standards, include: Dan Bocklund Memorial; Stephen F. Briggs; Dick Clarin; Earl F. Ferguson; Philip and Viola May; Henrietta Nichols; LaVerne Noyes; and National Merit Semi-Finalists.
 - Valedictorian Scholarships are for all students entering SDSU upon their high school graduation with a number one class rank and who do not receive other SDSU academic scholarships.
 - Leaders for Tomorrow scholarships are for students meeting criteria of high school academic rank and college entrance test scores, and who do not receive other SDSU academic scholarships.
 - 4. Many general, departmental, and talent awards are also available.
- B. Upper class student scholarships are awarded by the college/department based on a student's academic record through a competitive scholarship application process. Selected scholarships are the Wilbur Allen; Amdahl; F.O. Butler; William and Byrne Griffith; Hilda Hasslinger; Lackey; Larson Manufacturing; H.B. Mathews; Matthew Tiernan; and many others.
- C. Talent and participation scholarship awards are available by contacting the specific areas:

4-H: County Agents or Program Leader, SDSU

Air Force ROTC: Professor of Aerospace Studies, SDSU

Army ROTC: Professor of Military Science, SDSU

Music: Music Department, SDSU

Theatre: Theatre Department, SDSU

- D. Local and national scholarship information and applications may be available through your high school, various organizations and groups.
- IV. Financial assistance may also be available through various agencies including Vocational Rehabilitation and other special services agencies.
- SDSU is fully accredited for Veterans Assistance benefits for qualified students.
- VI. Please contact the SDSU Financial Aid Office, Box 2201, ADM 106, Brookings, SD 57007. Phone 605-688-4695, or e-mail: sdsu_finaid@sdstate.edu for specific applications, forms, and information.

Foundation, SDSU

The SDSU Foundation is an independent, non-profit organization established and incorporated in order to sustain and enhance the mission of South Dakota State University. The Foundation is intended to be a vehicle through which independent financial resources, creative ideas, and willing human talent might be invested to extend the land-grant college mission and further South Dakota State University's essential purposes.

The Executive Director, David F. Marquardt can be reached at 605-697-7475, e-mail: david@foundation.sdstate.edu, or at 823 Medary Avenue, Box 525, Brookings, SD 57007.

Instructional Technology and Telecommunications

The Instructional Technologies Center (ITC) at SDSU provides faculty, staff, and students access to state-of-the-art technologies.

The ITC is located in Pugsley Center Room 101. Service areas include Instructional Technologies, Media Development, and Telecommunications. In addition to the Pugsley facilities the ITC operates a Technical Support Center in the Rotunda for Arts and Science

Instructional Technologies provide audio visual, video, multimedia, and related equipment in support of classroom instruction, meetings, and other University functions.

The Rotunda for Arts and Science is a modern classroom building. Instructional technology support is provided via projection on large rear-projection screens in each room. ITC personnel support users and operate a service center in the Rotunda.

Media Development includes a professional Photo Lab, Digital Processing, Presentation Graphics, Video Production, and Multimedia Production. The Photo Lab is a full service lab with in-house processing of all black and white services as well as production and processing of color slides. Video production produces instructional and informational videotape resources.

Presentation Graphics are enhanced using computer based programs. High Resolution slides and transparencies along with other graphics make this service one of the most complete in South Dakota.

Instructional Telecommunications. SDSU operates state-of-the-art two way interactive video telecommunication facilities. The facilities are connected to the South Dakota Rural Development Telecommunications Network allowing SDSU to extend educational opportunities across South Dakota. The center also provides satellite uplink and downlink services and facilities, ISDN based connections, an on-campus fiber network, and a faculty Multi-Media lab in PC107.

For additional information an any of the above services, please contact the Instructional Technologies Center, PC 101, 605-688-6312, or on the web at www.sdstate.edu/witc/http/itc.htm.

Intercollegiate Athletics

South Dakota State University is a charter member of the North Central Intercollegiate Athletic Conference and offers competition in ten sports for women and ten sports for men. Competition for both women and men is governed by the National Collegiate Athletic Association (NCAA). Women compete in cross country, indoor and outdoor track and field, volleyball, basketball, swimming, golf, tennis, softball, and soccer. Men may compete in cross country, indoor and outdoor track and field, football, basketball, swimming, golf, tennis, wrestling, and baseball.

South Dakota State athletic teams have experienced broad based success. They are recognized regionally and nationally each year for the

athletic accomplishments and academic achievements for their studentathletes and coaches.

South Dakota State University teams compete in some of the fines indoor and outdoor athletic facilities in the state. Each year, they host several of the region's largest athletic events (i.e. NCAA Championships, NCC Championships, special events, etc.) at Coughlin-Alumni Stadium and Frost Arena.

For general athletic department information call 605-688-5625, for athletic ticket information call 605-688-5422 or 1-800-JACKS-TX (SD only) or e-mail: Tamara_Loban@sdstate.edu.

Intramurals and Recreational Sports and Sports Clubs

The purpose of the intramural program is to provide the opportunity for all activity-fee-paying women and men students, both undergraduate and graduate, to participate in organized and informal sports as regularly as their time and interests permit. From informal settings such as open swim and gyms, to league play in traditional sports such as football, basketball, softball, and volleyball, it is hoped that the individual will develop a good and lasting attitude toward physical activity and the worthy use of leisure time. Activities are organized on an individual, team, and club basis, and leagues are established for women, men, and co-rec., and residence hall, independent, and organizational groups, thereby providing for the interests and needs of all students.

Opportunities for students include managing and participating, with employment opportunities supervising and officiating. Sport clubs offer specialized participation ranging from a social setting on campus, to instructional programming, to competition with clubs from other universities within the region. All program offerings are governed by an elected intramural council, and activities are scheduled and supervised by the intramural staff. Since there is inherent risk of injury involved with all physical activities, it is recommended that participants have their own medical insurance.

For further information, contact the Intramural Office at 605-688 4724 or e-mail: Roxanne_Cook@sdstate.edu.

Library, Hilton M. Briggs

Library services and collections are housed in the spacious three-level Briggs Library, which is named for President Emeritus Hilton M. Briggs. Library collections consist of more than 570,000 bound volumes, 270,000 government documents, 78,000 maps, and additional holdings of microtext, newspapers and pamphlet materials.

More than 3,000 journal titles are received currently, with another 2,500 titles available electronically in full text format. Bibliographic access to journal holdings is provided through a strong collection of published indexes and abstracts and by the availability of searching of online and CD/ROM databases.

Book and periodical holdings are conveniently available on open stacks for use by students and faculty during the 98 hours per week the library is open.

A wide variety of other resources and equipment also are available in the library including a microcomputing laboratory, photocopiers, conference rooms, individual study carrels, a resource room for the visually impaired, and several informal study lounge areas. Special collections of archival, local history, and curriculum materials also are maintained within the library building.

In addition to local holdings, the library provides access to a wide variety of resources through electronic networks including OCLC, CARL/Uncover, Dialog, FirstSearch, and Internet.

Hilton M. Briggs Library also is a founding member of the South Dakota Library Network, which provides electronic access to the holdings of 50 academic, public, school and special libraries of South Dakota. Using this system, students and faculty at any one of the cooperating libraries can initiate computer searches of the entire database of approximately three million volumes which are available through interlibrary loan to students at any member institution.

McCrory Gardens

McCrory Gardens is nationally recognized as one of the top small ornamental display gardens in the U.S. It is operated by the Department of Horticulture, Forestry, Landscape and Parks. McCrory Gardens has grown to its present stature primarily through donations by Friends of McCrory Gardens, professional associations, and corporate donations. Primary goals are teaching, public education, and ornamental research. It is composed of a 20-acre public display area and a 45-acre arboretum.

The Gardens are open daily from dawn until dusk, no entry fee is charged but donations are encouraged. Trees, shrub, ground covers annuals, and perennials are featured throughout the entire gardens. For more specific information, call 605-688-5137 or e-mail: Martin_Maca@sdstate.edu.

Museums/Collections

The South Dakota Art Museum holds in its permanent collection significant bodies of work by noted artists Harvey Dunn, the son of South Dakota pioneers, and Oscar Howe, a Yanktonai Sioux. Noted children's book author and illustrator Paul Goble recently donated the original paintings for his books to the museum's permanent collection. The museum also houses notable collections of Native American tribal art, works by South Dakota artists, works by contemporary American artists and a complete collection of the world famous Marghab

embroidered linens. A portion of the permanent collection is always on display along with temporary exhibitions. The South Dakota Art Museum is one of only two museums in South Dakota which is accredited by the American Association of Museums.

The Museum galleries are closed to the public for a remodeling and construction project in 1998-2000. Contact the Museum for specific information at 605-688-5423.

Northern Great Plains Water Resources Research Center (NGPWRRC)

The Northern Great Plains Water Resources Research Center is a research center within the College of Engineering. The mission of the Center is to enhance the habitability and economic development of the Northern Great Plains through multidisciplinary research of the region's vast water and related land resources. The Center supports this mission through the conduct of engineering and related research on significant

issues affecting water resources by focusing on various disciplines in higher education such as agriculture, health and social sciences, law, chemistry, and biology in partnership with engineering, to assure a critical mass of researchers working to foster multi- and interdisciplinary work on the conservation, development, management and use of water and related land resources.

Office for Diversity Enhancement and Equal Opportunity/Affirmative Action

The purpose of the Office for Diversity Enhancement and Equal Opportunity is to promote diversity and work to eliminate discrimination at SDSU. SDSU is committed to maintaining an environment which respects dignity and encourages members of the campus community to achieve their maximum potential, free from discrimination and harassment. Students and staff are encouraged to contact the Director for Diversity Enhancement with questions and

concerns relating to diversity issues on campus, discrimination/harassment prevention information, reporting discrimination, and complaint procedures.

The Director for Diversity Enhancement, Marcus Dahn, Ph.D., can be reached at 605-688-6361, e-mail: marcus_dahn@sdstate.edu, and the Administrative Assistant, Sandy Newman can be reached at 605-688-6361, e-mail: sandra_newman@sdstate.edu, or in ADM 217.

Residential Life — Housing and Food Service

The Director of Residential Life administers programs and facilities for all on-campus housing. Housing staff members will assist you with questions regarding nearly any area of the University. Complete information and policies are printed in Residence Hall Handbook and Family Student Housing Information booklets. The Residential Life Office is located in Wecota 115. The telephone number is 605-688-5148.

Residence Halls - Residence Halls at SDSU are living/learning centers where students are challenged to develop as individuals, as well as to study and to meet other students. All unmarried students are required to enter into Residence Hall and Food Service contracts with the University. Students who have completed four semesters of fulltime enrollment at an institution of post high school education or who are two or more years beyond graduation from high school are excused from these requirements. Release from the residence hall obligation must be requested in writing and postmarked on or before June 30 for Fall Semester and November 30 for new Spring Semester contracts in order to avoid a monetary penalty. Currently, University residence hall facilities rent for \$2,578-\$3,608 per academic year. Usually, two students are assigned to each room. However, some rooms are available for rent as single rooms. Students who do not reside in on-campus facilities may seek off-campus housing assistance from the personnel of the Students' Association Off-Campus Housing Assistance Office. The Off-Campus Housing Assistance Office is located in USU 062. The telephone number is 605-688-5916.

Residence Hall Advanced Payment – A residence hall information, application, and contract booklet is sent to students after they are admitted to the University. The booklet includes detailed information regarding the residency requirement and residence hall and food service facilities and services. A \$50 Advance Housing Payment must accompany all applications/contracts for residence hall space. The \$50 Advance Housing Payment will be credited toward a student's Hobo Dough account. Any person, whose written request for release from the residency requirement is postmarked on or before June 30 for Fall Semester or November 30 for new Spring Semester contracts, who is released from the residency requirement, will have the \$50 Advance Housing Payment refunded. Any person, whose written notice of cancellation is postmarked on or before June 30 for Fall Semester or November 30 for new Spring Semester contracts, will have the \$50

Advanced Housing Payment refunded. Any person, whose application or contract is canceled at their request after these dates, will be assessed a monetary penalty.

Family Student Housing – 80 unfurnished, one-bedroom apartments and 8 unfurnished, two-bedroom apartments are available for rent on campus. Currently, rent for the one-bedroom apartments ranges from \$202.00-\$275.00 per month. Rent for the two-bedroom apartments is \$328 per month. Each apartment includes a refrigerator, stove, and all utilities. Admission to the University, a spouse and/or at least one dependent who will reside in the apartment with you, and enrollment in a set number of credit hours are required before a student can be assigned. Contact Residential Life Office personnel for more information.

University Apartments – 4-single-bedroom apartments for single students are available in Berg and Bailey Apartments. These new buildings opened in 1994. Rent, including all utilities, dishwasher, stove, refrigerator, and air conditioning, is \$235/person per month unfurnished and \$245/ person per month with furnished bedrooms. Both 9 and 12 month contracts are available and a security deposit of \$100 is required when a contract is signed. Contact Residential Life Office personnel for more information.

Food Service - SDSU Dining Services is committed to providing a food service program that is both economical and of the highest quality. SDSU's Dining Service utilizes a Student I.D. "One Card System", that allows access to all food venues and meal plans. Larson Commons is an "all-you-can-eat-facility," while students can also choose to eat at the newly renovated food court at the Student Union, Jacks' Deli, and Medary Commons, along with convenience stores and a pizza delivery operation. There are several meal plans from which to choose, offering the student considerable variety to pick a plan that best meets their particular eating needs. All SDSU students living in residence halls are required to purchase a meal plan. Complete information about the Dining Service's meal plans, costs, hours of operations and programs is included with the Residence Hall information and a brochure is distributed to all students. Other food programs are available for offcampus "commuter" students, faculty and staff. The Dining Services office is located in the University Student Union, Room #157. The telephone number is 605-697-2550.

Student Activities

The Department of Student Union and Activities manages the University Student Union, fosters co-curricular, educational, cultural, recreational and social programs for students and coordinates the New Student Orientation program.

The Office of the University Student Union provides the following services to include Outback Jacks (billiards, video arcade, banner/sign making, recreational equipment rental and off-campus housing), State Tech (lighting, staging and sound reinforcement for university events), Information Exchange (check casing, fax and copy service, ticket sales and notary service), Central Reservations (reservation of campus facilities).

The Office of Student Activities provides advisement and support for the University Program Council (a student organization sponsoring activities under the following committees: Arts, Community Service, Concerts, Hobo Day, Lectures/Forums, Publicity/Graphics, Recreation/Travel, Showcase, and Special Events. Student Activities also provides support and advisement to the Fraternity system (Greek life including the following chapters: Alpha Xi Delta, Alpha Gamma Rho, Ceres, Chi Omega, FarmHouse, Lambda Chi Alpha, Sigma Alpha

Epsilon, Sigma Phi Delta, Sigma Phi Epsilon) and all student organizations. This office coordinates the National Student Exchange program. Finally, the Office of Student Activities supports our cultural student organizations including the Black Student Alliance, Native American Student Organization and international student organizations.

The Department also coordinates on behalf of the division and university a comprehensive orientation program for new, transfer, non-traditional and minority students. The program also provides an opportunity for family members to assist students in their transition to South Dakota State University.

Other student organizations and services housed in the University Student Union are the *Collegian/Jackrabbit* publications, Students' Association, KSDJ 90.7, Student Legal Services, The Market, Jacks' Place, the Bookstore, Dining Services, Hobo Dough, and ten meeting rooms including the Volstorff Ballroom

More information regarding the Department of Student Union and Activities may be solicited by calling 605-688-4960 or by fax at 605-688-4973.

Student Affairs Division

The Student Affairs Division provides services and activities which are designed to help you gain the greatest benefit from your university education. The following departments and programs are included in Student Affairs: Admissions, Disabled Student Services, Financial Aid, Food Service, Health and Counseling Services, International Student Affairs, Native American Advising, Records, Residential Life, Student Activities, and Veterans Affairs. If you have questions or need information about any of these areas, contact the Dean of Student Affairs office in ADM 318, telephone 605-688-4493. The specific programs and services offered by the departments are listed below and elsewhere in this catalog.

Admissions – Questions concerning enrollment information, admission and transfer evaluation should be directed to Admissions Office, ADM 200, South Dakota State University, Box 2201, Brookings, SD 57007-0649, telephone 605-688-4121.

Counseling Service – SDSU provides an on-campus counseling service offering personal, confidential assistance to students. Adjustment to university life, personal decision making, conflict resolution, self-concept issues, and goal setting are common issues which the Counseling Center staff is prepared to address. These and other services are provided by appointment through one-to-one counseling or group counseling. Specific services addressing stress management, eating disorders, sexuality concerns, alcohol/drug problems, and abuse issues are available. Most services provided at the Counseling Center are available at no cost to students. Additional or specialized services are provided by referral when necessary. Call 605-688-6146, West Hall 112, for further information.

Disabled Student Services – Assistance is available for students with a wide range of disabilities. Services include assisting in: acquisition of taped materials, facility accommodations, course scheduling assistance, classroom accommodations, referral to other service agencies, advising and other services. The Disabled Student Services Adviser is located in the Dean of Student Affairs Office, ADM 318, telephone 605-688-4496.

Drug and Alcohol Programs – SDSU, through the Department of Student Health and Counseling Services, provides alcohol and drug abuse information and prevention programs to the campus community. Alcohol and drug abuse assessment is available on an individual basis. Medical treatment and counseling services are available to students and referrals to other agencies are available to everyone on campus. Call 605-688-6146 or 605-688-4157 for information.

Financial Aid – Student financial assistance programs, including federal and state financial aid, scholarships, and governmental agency awards (BIA, Veterans Administration, Vocational Rehabilitation, etc.) are administered by the Student Financial Aids Office in ADM 106, telephone 605-688-4695.

Health Education and Prevention Services - The Health Education and Prevention Services are a separate, but integrated, program sponsored by Student Health and supervised by the Director of Student Health. The program emphasizes awareness, prevention, and response to sexual assault and date rape. Closely related issues of alcohol/drug abuse, STD's (including HIV/AIDS), and unplanned pregnancies are addressed. In addition to program presentations for students and faculty, the Health Educator also trains and supervises student peer educators who are available to present awareness and prevention programs on the above topics for student organizations, classes when requested by the instructor, residence hall student staff training, and at new student orientation. The Health Educator is available for victim assistance and response in case of sexual assault or violence. A close working relationship is maintained with other community agencies involved in prevention and response to violence and sexual assault. Confidentiality is assured at all times for the student/victim. Individuals with questions or personal concerns are asked to call the Health Educator at 605-688-4312 for assistance or information.

Health Service – All usual medical outpatient services are provided on an appointment basis, including GYN examinations and sexuality services. Many of the services, including the office visit and medical consultation, are prepaid by the Activity Fee required of all students.

When medically indicated, appropriate referral may be arranged. Laboratory and pharmacy services, allergy injections, immunizations, and physical examinations are provided on-site on a fee-for-service basis. All enrolled fee-paying students are eligible to receive services. Health Service will assist students in meeting Board of Regents immunization compliance regulations for measles and rubella. A supplemental hospitalization, accident and sickness insurance program, approved by the Board of Regents, is available for all students. Non-U.S. citizens are required to purchase the BOR insurance plan. The Health Service is located on the second floor of West Hall and is open from 8:00 a.m. to 5:00 p.m. Monday through Friday when school is in session during fall, spring, and summer. When Student Health Service is closed students may go to the Brookings Hospital emergency room for care. Any bills incurred are the responsibility of the student.

You may call 605-688-5588 for further information, a medical appointment, or medical record assistance.

International Student Affairs – This office administers policies and provides a broad range of support services relative to the nonimmigrant status of international students and scholars. Services include processing of admission applications, interpretation of immigration regulations, advising, outreach, handling official documents, and maintaining records. An extensive orientation program is conducted by the office prior to registration each semester. The purpose of the office is to facilitate the attainment of the educational goals of students from countries other than the U.S. For further information, contact the office at ADM 312, SDSU, Brookings, SD 57007, telephone 605-688-4122.

Native American Student Advising – SDSU provides an adviser for Native American students to aid them in their adjustment to university life. The adviser assists students in the areas of financial aid, academic planning, and personal concerns, as well as providing information about Native Americans to the college and area community. The Native American adviser may be contacted at 605-688-4126, ADM 318, for further information.

Records – The Office of the Registrar maintains official records on enrollment, biographical student data, grades, credits, and degrees conferred; administers registration and assesses tuition and fees; prepares and sends transcripts when written, signed requests are received from students; processes enrollment verifications; checks athletic eligibility; prepares semester schedules and assigns classrooms; supplies reports and analysis of enrollment, grades and other scholastic matters; coordinates with college deans the procedure for clearing candidates for graduation and submitting candidate lists; and assists with the graduation ceremonies. The Registrar's Office is in ADM 208, Box 2201, telephone 605-688-4121.

Veterans Affairs – SDSU is a fully accredited university eligible to provide GI Bill educational assistance for qualified veterans and dependents. Eligible dependents and veterans should contact the Veterans Service Office, ADM 108, South Dakota State University, Box 2201, Brookings, SD 57007, telephone 605-688-4700, for application forms and information concerning their benefits.

South Dakota resident veterans who served between June, 1950, and May, 1975, and who have no remaining VA benefits may qualify for tuition assistance through a South Dakota state program. To determine eligibility, veterans should contact the Financial Aid Office, Room 106, Administration Building, or telephone 605-688-4702.

SDSU is also approved for processing a state program which provides reduced tuition for South Dakota National Guard students. Please direct questions about this program to the Registrar's Office, ADM 208, South Dakota State University, Box 2201, Brookings, SD 57007-0498. The student is responsible for submitting a national guard tuition assistance application to the Records Office prior to the Drop/Add deadline of each semester they seek benefits.

If you are interested in social activities you are invited to become a member of the SDSU Vets Club.

Water Resources Institute (WRI)

The mission of the Water Resources Institute (WRI) is to coordinate research and training at South Dakota State University and other affiliated educational institutions and agencies across the state in the broad area of water resources. It administers funds received from the U.S. Department of Interior, as made available through the Water Resources Research Act of 1984 and from the state of South Dakota. Funds received through these sources targeted for research are directed toward solving state, regional, and national water problems. Graduate research training, technology transfer, and information transfer are services which are provided through the Institute.

The Water Resources Institute also houses the Water Quality Laboratory. This laboratory serves the needs of the people of the state by providing analytical services for determination of inorganic constituents (and some pesticides) in water. Analysis of constituents that exist in minute concentrations is an important capability of the Water Quality Laboratory. Both the Institute and the Laboratory are housed on the second floor of the Agricultural Engineering Building.

Phone 605-688-4910 or e-mail: sdsu_wri@sdstate.edu for information.

Wellness Center

The Wellness Center is an on-campus health and fitness facility located in the Stanley J. Marshall HPER building. Our mission is to enhance the six dimensions of wellness. The center offers kick-box, land, and water aerobics, indoor cycling called SPINNING, yoga, free weights, a 1/8 mile indoor run/walk track, weight machines, racquetball, a 25-yard indoor swimming pool with three diving boards, cardiovascular exercise deck, and basketball courts. Specialized programs are available such as nutrition, weight control, and stress

management. Personal Fitness Evaluations or Personal Training sessions are available at no cost to students. Students become members upon payment of their student activity fee. Specialized programs may require an extra charge. Employment opportunities for students include aerobic instructors, SPINNING instructors, service desk attendants, weight room supervisors, and lifeguards.

Phone 605-688-6415.

Logos, Seals, Caricatures (Official Symbols)

Official Name:

South Dakota State University or SDSU (no periods)

Official School Colors:

Blue (PMS 287) and Yellow (PMS 109)

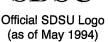
Athletic Teams Nickname: **Jackrabbits** or **Jacks**

For information on usage, please contact:
Office of University Relations
Box 2230
South Dakota State University
Brookings, SD 57007-1498

Telephone: (605) 688-6161

Fax: (605) 688-6357

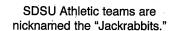


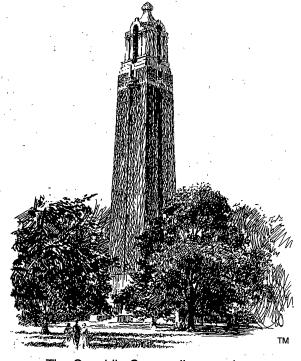




Official SDSU Seal







The Coughlin Campanile occupies a central focus on campus.



Various intertwined SDSU logos are used by the Athletic Department.

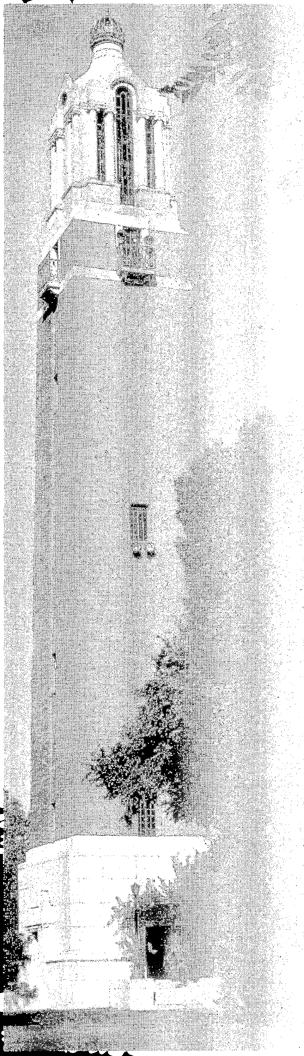








"Dirty Lil" and "Weary Willie" represent the spirit of Hobo Days (SDSU's Homecoming).



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Organization and Administration

The Board of Regents. Control of the educational institutions of the state is vested in the Board of Regents.

The Faculty consists of the President, the Vice Presidents, the Deans and other administrative officers, teachers and researchers with rank of instructor or above. The faculty is responsible in general for academic standards and procedures and programs, including recommending to the

Regents the candidates for degrees. Faculty business is conducted by the Academic Senate, an elected body through which faculty express concerns for the welfare of the University and the University community, develop and disseminate communications, contribute to formation of general University policy, and perform those duties and functions allocated to or assumed by the faculty.

Board of Regents

Honorable Harvey Jewett, IV (Term expires March 31, 2003) Aberdeen

Honorable Curt Jones
(Term expires March 31, 2003)
Britton

Honorable Jack Rentschler (Term expires March 31, 2003) Sioux Falls Honorable David Gienapp (Term expires March 31, 2003) Madison

Honorable James Hansen (Term expires March 31, 2001) Pierre

Honorable Pat Lebrun (Term expires March 31, 1999) Rapid City Honorable Rudolph Nef (Term expires March 31, 2004) Milbank

Honorable Shane C. Penfield
Student Regent (Expires July 1, 2000)
Vermillion

Honorable Robert T. (Tad) Perry
Executive Director
Pierre

General Administration

President
Peggy Gordon Elliott, Ed.D.
Vice President for Academic Affairs
Carol J. Peterson, Ph.D.

Vice President for Administration
Michael P. Reger, Ph.D.
Associate Vice President for Academic Affairs
and Chief Information Technology Officer
Edward P. Hogan, Ph.D.

Registrar Ranny Boomsma Jones, M.Ed.

College of Nursing

Deans/Associate and Assistant Deans

College of Agriculture and Biological Sciences
Fred A. Cholick, Ph.D., Dean
Charles R. McMullen, Ph.D., Interim
Associate Dean and Director of
Academic Programs
Larry J. Tidemann, M.S., Associate
Dean and Director of Cooperative
Extension Service
Kevin D. Kephart, Ph.D., Associate Dean
and Director of Agricultural Experiment
Station

College of Arts and Science
Herbert E. Cheever, Jr., Ph.D., Dean
Allen R. Branum, Ph.D., Assistant Dean
College of Education and Counseling
Dee Hopkins, Ed.D., Dean
College of Engineering
Virgil G. Ellerbruch, Ph.D., Interim Dean
Aelred Kurtenbach, Ph.D., External Dean
College of General Registration
Gail Dobbs Tidemann, Ph.D., Dean

College of Family and Consumer Sciences

Laurie Stenberg Nichols, Ph.D., Dean

Roberta K. Olson, Ph.D., Dean
College of Pharmacy
Danny L. Lattin, Ph.D., Dean
Graduate School
David Hilderbrand, Ph.D., Dean
John Ruffolo, Ph.D., Associate Dean
Library
Steve R. Marquardt, Ph.D., Dean
Student Affairs
Marysz Palczewski-Rames, Ed.D., Dean

Directors

Academic Evaluation & Assessment Marge Hegge, Ed.D.

Academic Programs (College of Ag Bio)
Charles McMullen, Ph.D.

Admissions

Tracy Welsh, B.A.

Agricultural Experiment Station

Kevin Kephart, Ph.D.

Agricultural Heritage Museum

John Awald, M.S.

Alumni Association

V. J. Smith, B.S.

Athletics

Fred Oien, Ed.D.

Biostress Center of Excellence

Douglas Malo, Ph.D.

Bookstore, University Gary G. Burdick, B.A.

Budget/Finance

Wesley G. Tschetter, M.B.A.

Career and Academic Planning (CAP Center)

Susan Fredrikson, M.Ed. Chief Business Officer

Jerome C. Fiedler, M.Ed.

Computing Services

Delmar R. Johnson, M.Ed.

Cooperative Extension Service Larry Tidemann, M.S.

Counseling Center

Henry Fulda, Ph.D.

Diagnostic Laboratory

David Zeman, D.V.M.

Dining Services

Dan Darbo, B.S.

Disability Services

Eugene T. Butler, Jr., M.Ed.

Diversity Enhancement

Marcus Dahn, Ph.D.

Engineering Resource Center (ERC)

Kevin Dalsted, M.S.

Environmental Health & Safety Gary Yarrow, Ph.D.

Financial Aid

Jay A. Larsen, M.Ed.

Honors College

Robert V. Burns, Ph.D.

Instructional Technologies

Jerry Jorgensen, Ph.D.

International Programs

Harriet P. Swedlund, M.S.

Oak Lake Field Station

Nels Troelstrup, Ph.D.

Personnel

Karyn Converse-Weber, M.A.

Physical Plant

Richard C. Waldner, A.A.

Records

Ranny Boomsma Jones, M.Ed.

Residential Life

Doug Wermedal, Ed.D.

Sioux Falls Programs

Allen Branum, Ph.D.

South Dakota Art Museum

Lynn Verschoor, M.S.

SDSU Foundation/Development David Marquardt, M.A.,

Executive Director

Edd Storey, M.A.,

Director of Development

Student Activities

Brian Wagner, M.A.

Student Health

Don Smith, M.Ed.

Transportation, Technology Transfer Service

Ali Selim, Ph.D.

University Relations

Jennifer Crickard, M.A.

Water Resources

Vernon Schaefer, Ph.D.

Department Heads (by college)

Agriculture and Biological Sciences

Animal and Range Sciences

Donald Boggs, Ph.D.

Biology and Microbiology

Gary Peterson, Ph.D. (Acting)

Dairy Science

John G. Parsons, Ph.D

Economics

Richard Shane, Ph.D.

Horticulture, Forestry, Landscape and Parks

Peter R. Schaefer, Ph.D.

Plant Science

Dale J. Gallenberg, Ph.D.

Rural Sociology

Donna J. Hess, Ph.D. (Acting)

Veterinary Science

David Zeman, D.V.M.

Wildlife and Fisheries Sciences

Charles G. Scalet, Ph.D.

Arts and Science

Aerospace Studies

LTC Jeff Boulware, M.S.

Chemistry and Biochemistry

James A. Rice, Ph.D.

Communication Studies and Theatre

Michael R. Schliessmann, Ph.D. English

Kathleen Donovan, Ph.D.

Modern Languages

Philip Baker, Ph.D.

Geography

Roger K. Sandness, Ph.D.

Health, Physical Education and

Recreation

Fred M. Oien, Ed.D.

History

Jerry Sweeney, Ph.D.

Journalism and Mass Communication

Richard W. Lee, Ph.D.

Military Science

LTC Keith Corbett, M.S.

Music

Corliss L. Johnson, D.M.A.

Philosophy and Religion

Robert Burns, Ph.D.

Political Science

Robert Burns, Ph.D.

Psychology

Virginia Norris, Ph.D.

Visual Arts

Norman Gambill, Ph.D.

Education and Counseling

Counseling and Human Resource

Development

Francis Martin, Ph.D.

Educational Leadership

Larry Brown, Ph.D.

Teacher Education
Thomas Deering, Ph.D.

Engineering

Agricultural and Biosystems Engineering Van Kelley, Ph.D.(Acting)

Civil and Environmental Engineering

Vernon R. Schaefer, Ph.D. (Acting) Computer Science

Gerald E. Bergum, Ph.D.

Electrical Engineering

Lewis F. Brown, Ph.D.

Engineering Technology and Management Reza Maleki, Ph.D.

Mathematics and Statistics

Kenneth L. Yocom, Ph.D.

Mechanical Engineering Donell P. Froehlich, Ph.D.

Physics

ysics Oren Quist, Ph.D.

Family and Consumer Sciences

Apparel Merchandising and Interior

Appar

Design
Laurie Stenberg Nichols, Ph.D. (Acting)

Human Development, Consumer and

Family Sciences

Mary Kay Helling, Ph.D.

Nutrition, Food Science and Hospitality

Marilyn A. Swanson, Ph.D.

Nursing

Graduate Nursing

Penny Powers, Ph.D.

Nursing Student Services

Judith Vinson, Ph.D. (Acting) Undergraduate Nursing

Judith Vinson, Ph.D.

West River Nursing Kay Foland, Ph.D.

Pharmacy

Clinical Pharmacy

Brian L. Kaatz, Pharm.D.

Pharmaceutical Sciences

Gary S. Chappell, Ph.D.

Affiliations and Accreditations

The University holds institutional membership in a number of educational associations: the National Association of State Universities and Land-Grant Colleges (One Dupont Circle, Suite 710, Washington, D.C. 20036-1191; Phone 202-778-0818) promotes the aims expressed in the Morrill Act of 1862, and in the subsequent acts of Congress relating to Land-Grant Colleges; and the American Association of State Colleges and Universities (One Dupont Circle, Suite 700, Washington, D.C. 20036-1192; Phone 202-293-7070).

The North Central Association of Colleges and Schools (30 North LaSalle Street, Suite 2400, Chicago, II., 60602-2504; Phone 312-263-0456) is the regional accrediting agency. Its purpose is to maintain high standards of instructional work and educational programs. The University is accredited through the doctoral level. Its next comprehensive evaluation is 2010.

The Athletic Training Program is accredited by the Commission of Accreditation of Allied Health Education Programs (35 E. Wacker Drive, Suite 1970, Chicago, IL 60601; Phone: 312-553-9355).

The bachelor's and master's degree programs in the College of Nursing are accredited by the National League for Nursing (350 Hudson, New York, New York 10014; Phone 212-645-9685 or 800-669-9656), and the Commission on Collegiate Nursing Education (One Dupont Circle, NW, Suite 530, Washington, D.C. 20036-1120; Phone: 202-887-6791).

The Chemistry Department is accredited by the American Chemical Society (1155 Sixteenth St., N.W., Washington, DC 20036; Phone 202-872-4589).

The dietetic program is accredited by the American Dietetic Association (216 W. Jackson Blvd, Chicago, IL 50505-6995; Phone 800-877-1600).

The curriculum in Family and Consumer Sciences is accredited by the American Association of Family and Consumer Sciences (1555 King Street, Alexandria, VA 22314; Phone 703-706-4600).

The curriculum in Journalism is accredited by the Accrediting Council on Education in Journalism and Mass Communication (School of Journalism and Mass Communications, University of Kansas, Lawrence, KS 66045; Phone 913-864-3986).

The Music Department has full membership in the National Association of Schools of Music (11250 Roger Bacon Drive, Suite 21, Reston, VA 22090; Phone 703-437-0700).

Preparation of secondary teachers at both the undergraduate and graduate levels is accredited by the National Council for Accreditation

of Teacher Education (2010 Massachusetts Ave., NW, Suite 500, Washington, D.C. 20036-1023; Phone 202-466-7496).

The programs of Agricultural, Civil, Electrical, and Mechanical Engineering are accredited by the Accreditation Board for Engineering and Technology (111 Market Place, Suite 1050, Baltimore, MD 21202; Phone 410-347-7700).

The M.S. in Counseling and Human Resource Development program is accredited by the Council for Accreditation of Counseling and Related Educational Programs (5999 Stevenson Ave., Alexandria, VA 22304; Phone 703-823-9800, ext. 301).

The curriculum in Pharmacy is accredited by the American Council on Pharmaceutical Education (311 West Superior Street, Chicago, IL 60610; Phone 312-664-3575).

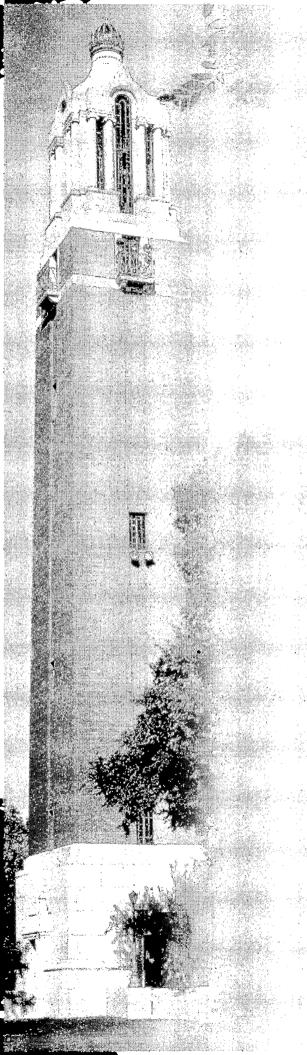
The Agricultural Systems Technology program is accredited by the American Society of Agricultural Engineering (2950 Niles Road, St. Joseph, MI 49085-9659; Phone: 616-429-0300).

The Early Childhood Education program is accredited by the National Association for Education of Young Children (1506 16th St., NW, Washington, D.C. 20036-1426; Phone 800-424-2460).

The Animal Disease Research and Diagnostic Laboratory is accredited by the American Association of Veterinary Laboratory Diagnosticians (PO Box 1522, Turlock, CA 95381; Phone 209-634-5837).

The University also holds membership in the American Council on Education, the American Association of University Women, the American Association of Colleges of Pharmacy, the American Society for Engineering Education, the Association of Accredited Schools and Departments of Journalism, the American Association of Colleges of Nursing, the American Library Association, Associated Western Universities, Inc., Council of Graduate Schools in the U.S., National Association for Foreign Student Affairs, American Association for Higher Education, CUIDES (Consejo Universitario Intermericano parael Dessarrollo Economico y Social) (American translation – Interamerican University Council for Economic and Social Development), and several others which are concerned with more limited phases of college work. Through the Board of Regents, the University also participates in the Western Interstate Commission for Higher Education (WICHE).

In 1977 the South Dakota Art Museum became the first South Dakota museum of any kind to be accredited by the American Association of Museums (1575 Eye St., NW, Suite 400, Washington, D.C. 20005; Phone 202-289-1818), and it is now one of only two accredited museums in the state.



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UNIVERSITY STAFF

As of February 2000

The number immediately after the title of a member of the staff indicates the year when the person was first employed as a regular member of the university staff, the number following, if there is one, is the year of appointment to present rank.

GENERAL ADMINISTRATION

- Elliott, Peggy Gordon, President, Professor of English, 1998; B.A., Transylvania University, 1959; M.S., Northwestern University, 1964; Ed.D., Indiana University, 1975; L.L.D., Transylvania University (Honorary Degree), 1993.
- Peterson, Carol J., Vice President for Academic Affairs, Professor of Nursing, Graduate Faculty, 1977, 1987; Diploma in Nursing, Methodist Kahler School of Nursing, 1960; B.S., University of Minnesota, 1963; M.Ed., 1964; Ph.D., 1969.
- Reger, Michael P., Vice President for Administration, Assistant Professor of Education, Graduate Faculty, 1979, 1993; B.A., Western Illinois University, 1970; M.S., 1972; Ph.D., Ohio State University, 1983.
- Hogan, Edward P., Associate Vice President for Academic Affairs and Chief Information Technology Officer, Professor of Geography, Graduate Faculty, 1967, 1999; B.S., St. Louis University, 1961; M.A., 1962; Ph.D., 1969.
- Rames, Marysz Palczewksi, Dean of Student Affairs, 1987, 1999; B.S., University of Northern Colorado, 1982; M.A., 1986; Ed.D. University of South Dakota, 1997.
- Welsh, Tracy, Director of High School Relations and Admissions, 1984, 1997; B.A., Fontbonne College, 1980.
- Jones, Ranny Boomsma, Registrar and Director of Student Information Systems Implementation, 1968, 1985; B.A., Huron College, 1968; M.Ed., SDSU, 1973.
- Marquardt, Steve R., Dean of Libraries, Professor of Library Science, Graduate Faculty, 1996; B.A., Macalester College, 1966, M.A., University of Minnesota, 1970, 1974; Ph.D., 1978.
- Tschetter, Wesley G., Director of Finance and Budget, 1982, 1985; B.S., SDSU, 1969; M.B.A., University of South Dakota, 1971.
- Waldner, Richard C., Director of Physical Plant, 1965, 1994; A.A., South Dakota State University, 1975.

ACADEMIC DEANS

- Cheever, Jr., Herbert E., Dean of the College of Arts and Science, Professor of Political Science, Graduate Faculty, 1968, 1992; B.S., SDSU, 1960; M.A., University of Iowa, 1962; Ph.D., 1967.
- Cholick, Fred A., Dean of the College of Agriculture and Biological Sciences, Professor of Plant Science, Graduate Faculty, 1981, 1994, 1998; B.S., Oregon State University, 1972; M.S., Colorado State University, 1975; Ph.D., 1977.
- Ellerbruch, Virgil G., Dean of College of Engineering/Professor of Electrical Engineering, Graduate Faculty, 1967, 1994, 1999; B.S., University of Wyoming, 1960; M.S., 1961; Ph.D., 1969.
- Hilderbrand, David, Dean of the Graduate School, Professor of Chemistry, Graduate Faculty, 1974, 1998; B.A., Southwest Baptist College, 1967; M.A., University of Missouri, 1969; Ph.D., 1971.
- Hopkins, Dee, Dean of the College of Education and Counseling, Professor of Education, Graduate Faculty, 1997; B.S., Indiana University, 1972; M.S., 1974; Ed.D. 1982.
- Kurtenbach, Aelred, External Dean of College of Engineering, 2000; B.S., South Dakota School of Mines and Technology, 1961; M.S., University of Nebraska, 1967; Ph.D. Purdue University, 1968.
- Lattin, Danny L., Dean of the College of Pharmacy, Professor of Pharmaceutical Sciences, Graduate Faculty, 1995; B.S., University of Kansas, 1965; Ph.D., University of Minnesota, 1970.
- Nichols, Laurie Stenberg, Dean of the College of Family and Consumer Sciences, Professor of Human Development, Consumer and Family Sciences, Graduate Faculty, 1994; B.S., SDSU, 1978; M.S., Colorado State University, 1984; Ph.D., The Ohio State University, 1988.

- Olson, Roberta K., Dean of the College of Nursing, Professor of Nursing, Graduate Faculty, 1994; B.S., SDSU, 1964; M.S.N., Washington University, 1968; Ph.D., St. Louis University, 1984.
- Tidemann, Gail Dobbs, Dean of the College of General Registration, Professor of Human Development, Consumer and Family Sciences, Graduate Faculty, 1986, 1997; B.S., Jacksonville University, 1977; M.A., University of Alabama, 1978; Ph.D., 1986.

REGENTAL DISTINGUISHED PROFESSORS

- Bailey, Harold S., Vice President for Academic Affairs Emeritus, Distinguished Professor of Higher Education, 1951, 1985; B.S., Massachusetts College of Pharmacy, 1944; M.S., 1948; Ph.D., Purdue University, 1951.
- Briggs, Hilton M., President Emeritus, Distinguished Professor of Agriculture Emeritus, 1958, 1975; B.S., Iowa State University, 1933; M.S., North Dakota State University, 1935; Ph.D., Cornell College, 1938; D.Sc., North Dakota State University, 1963.
- Wagner, Robert T., President Emeritus, Professor Emeritus of Rural Sociology, Distinguished Professor of Higher Education, 1970, 1997; B.A., Augustana College, 1954; M.Div., Seabury Western Theological Seminary, 1957; S.T.M., 1970; Ph.D., SDSU, 1972; L.H.D., Augustana College, 1994; D.P.S., SDSU, 1997.

DISTINGUISHED PROFESSORS

- Burns, Robert V., Distinguished Professor, Graduate Faculty, 1970, 1994; B.S., SDSU, 1964; M.A., University of Missouri, 1966; Ph.D., 1973.
- Costello, William J., Distinguished Professor of Animal and Range Sciences, Graduate Faculty, 1965, 1991; B.S., North Dakota State University, 1954; M.S., Oklahoma State University, 1960; Ph.D., 1963.
- Dwivedi, Chandradhar, Distinguished Professor of Pharmaceutical Sciences/Coordinator of Graduate Studies, Graduate Faculty, 1987, 1990; B.S., Gorakhput University, 1964; M.S., 1966; Ph.D., Lacknow University, 1972.
- Evenson, Donald P., Distinguished Professor of Chemistry, Graduate Faculty, 1981, 1996; B.A., Augustāna College, 1964; Ph.D., University of Colorado, 1968.
- Flake, Lester D., Distinguished Professor of Wildlife and Fisheries, Graduate Faculty, 1972, 1982; B.S., Brigham Young University, 1965; M.S., 1966; Ph.D., Washington State University, 1971.
- Gritzner, Charles F., Distinguished Professor of Geography, Graduate Faculty, 1980, 1995; B.A., Arizona State University, 1958; M.A., Louisiana State University, 1960; Ph.D., 1969.
- Hegge, Margaret J., Distinguished Professor of Nursing, Director of Academic Evaluation and Assessment, Title III Coordinator, CIC Director, Graduate Faculty, 1969, 1999; B.A., Gustavus Adolphus College, 1969; M.Ed., SDSU, 1972; Ed.D., University of South Dakota, 1983; M.S., University of Minnesota, 1984.
- Hess, Donna J., Distinguished Professor/Acting Head of Rural Sociology, Graduate Faculty, 1974, 1998; B.A., Marquette University, 1965; M.A., State University of New York, 1971; Ph.D., Michigan State University, 1974.
- Malo, Douglas D., Distinguished Professor/Director of Biostress Center of Excellence, Graduate Faculty, 1975, 1999; B.S., Iowa State University, 1971; M.S., North Dakota State University, 1974; Ph.D., 1975.
- Redhead, Ruth W., Distinguished Professor Emerita of Foreign Languages, 1962, 1993; B.Ed., University of Vermont, 1945; M.A., University of Minnesota, 1954; Ph.D., 1971.
- Wahlstrom, Richard C., Distinguished Professor Emeritus of Animal and Range Sciences, 1952, 1988; B.S., University of Nebraska, 1948; M.S., University of Illinois, 1950; Ph.D., 1952.

- Widvey, Lois I., Distinguished Professor Emeritus of Education, Graduate Faculty, 1973, 1998; B.S., Northern State University, 1955; M.S.Ed., 1958; Ed.D., University of Nebraska, 1971.
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FACULTY, STAFF

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- Williams, Sandra A., Assistant Professor of Nursing, 1985, 1998; B.S., Augustana College, 1967; M.S., SDSU, 1992, Ed.D., University of South Dakota, 1997.
- Willis, David W., Professor of Wildlife and Fisheries Sciences, Graduate Faculty, 1987, 1995; B.S., University of North Dakota, 1977; M.S., 1978; Ph.D., Colorado State University, 1980.
- Wilson, James A., Extension Associate Pesticide Applicator Training/ Certification, 1980, 1985; B.S., SDSU, 1978; M.S., 1992.
- Wilson, Nona, Associate Professor of Counseling and Human Resource Development, Graduate Faculty, 1994, 1998; B.A., Ohio State University, 1985; M.Ed., 1986; Ph.D., 1993.
- Wilson, Stephen, Adjunct Instructor of Education and Counseling, 1999; B.S., University of North Dakota, 1990.
- Wince, Lisa J., Admissions Counselor, 1999; B.S., SDSU, 1999.
- Winterboer, Venita J., Instructor of Nursing, 1986, 1992; B.S., SDSU, 1980; M.S., 1992.
- Wipf, Beth C., Admissions Counselor, 1999; B.S., SDSU, 1998.
- Wise, Charles, Adjunct Instructor of Education and Counseling, 1999; B.S., Northern State University, 1967; M.A.T., Augustana College, 1980.
- Wittig, Deborah R., Coordinator of Research and Continuing Nursing Education, 1998; B.S., University of North Alabama, 1993; M.S., Mississippi State University, 1995; Ph.D., 1998.
- Wittig, Timothy A., Assistant Professor of Mathematics and Statistics, 1997; B.S., SDSU, 1976; M.S., Michigan State University, 1978; Ph.D., 1981.
- Wohlwend, Bruce T., Laboratory Manager of Physics Laboratories/ Network Administrator, 1990; B.S., SDSU, 1990.
- Woldt, Bradley, Assistant Professor of Psychology, 1995; B.S., SDSU, 1988; M.A., University of Montana, 1991; Ph.D., 1993.
- Woodard, Charles L., Distinguished Professor of English, Graduate Faculty, 1975, 1992; B.S., Dakota State University, 1964; M.A., University of Nebraska, 1966; Ph.D., University of Oklahoma, 1975.
- Woodard, Howard J., Associate Professor of Plant Science, Graduate Faculty, 1990, 1995; B.S., University of Rochester, 1973; Ph.D., Rutgers University, 1985.
- Woodson, W. David, Adjunct Assistant Professor of Plant Science, Graduate Faculty, 1991; B.S., Texas A&M University, 1984; M.S., 1986; Ph.D., Oklahoma State University, 1990.
- Wosje, Garnet A., Military Personnel Clerk, AROTC-Military Science, 1986.
- Wrage, Leon J., Distinguished Professor of Plant Science, Extension Specialist, 1961, 1994; B.S., SDSU, 1961; M.S., 1964.
- Wulf, Duane M., Assistant Professor of Animal and Range Sciences, 1990, 1999, B.S., SDSU, 1989; M.S., 1993; Ph.D., Colorado State University, 1996.
- Xu, Lan., Research Associate I for Animal and Range Sciences, 1998, B.S., M.S., Outside of the United States, 1985, 1988; Ph.D., North Dakota State University, 1998.
- Yang, Limin, Adjunct Assistant Professor of Geography, 1998; B.S., college Outside of the U.S., 1982; M.S., Portland State University, 1987; Ph.D., University of Nebraska, 1994.
- Yarrow, Gary L., Director of Environmental Health and Safety, 1993, 1998; B.S., SDSU, 1977; M.S., Ohio State University, 1979; Ph.D., University of Minnesota/Minneapolis, 1985.
- Yen, Yang, Assistant Professor of Biology and Microbiology, 1996; B.S., 1978; M.S. 1986; Ph.D., University of Missouri, 1979.

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- Zeman, David H., Head and Professor of Veterinary Science, Director of Animal Disease and Diagnostic Lab, Graduate Faculty, 1986, 1998; B.S., North Dakota State University, 1976; D.V.M., Oklahoma State University, 1980; Ph.D., Louisiana State University, 1986.
- Zhang, Xiuling, Research Associate I in Plant Science, 1996, B.A., 1987, M.A., 1990.
- Zimmerman, Jason R., Assistant Professor of Economics, 1999; B.S., Wabash College; Ph.D., Oakland City College.
- Zobel, Lori C., Research Assistant II, Animal Disease Research and Diagnostic Lab., 1998; B.S., SDSU, 1997.

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- Alexander, Ruth A., Professor Emerita of English, 1952, 1990; B.A., Michigan State University, 1945; M.A., University of Minnesota, 1947; Ph.D., Michigan State University, 1952.
- Allen, Herbert R., Professor Emeritus of Economics, 1963, 1987; B.S., Iowa State University, 1950; M.S., 1952; Ph.D., SDSU, 1968.
- Anderson, Arthur W., Professor Emeritus, Extension Economist, 1947, 1985; B.S., University of Minnesota, 1938; M.S., 1942.
- Bailey, Harold S., Vice President for Academic Affairs Emeritus, Distinguished Professor of Higher Education, 1951, 1985; B.S., Massachusetts College of Pharmacy, 1944; M.S., 1948; Ph.D., Purdue University, 1951.
- **Bailey, James,** Professor Emeritus of Animal and Range Sciences, 1968, 1986; D.V.M., Iowa State University, 1946.
- Baker, Roscoe, Professor Emeritus of Microbiology and Dairy Science, 1950, 1982; B.S., Iowa State University, 1942; M.S., 1947; Ph.D., 1950.
- Bates, Merritt W., Professor Emeritus of Foreign Languages, 1969, 1981; B.A., University of Americas, 1954; M.A., 1958; Ph.D., Universidad National De Rosaria (Argentina), 1969.
- Berg, Sherwood O., President Emeritus, 1975, 1984; B.S., SDSU, 1947; M.S., Cornell University, 1948; Ph.D., University of Minnesota, 1951.
- Blazey, Charles H., Professor Emeritus of Health Science, 1965, 1987; B.S., State University of New York, 1950; M.S., 1960; D.Ed., University of Oregon, 1971.
- Bonnemann, Joseph J., Assistant Professor Emeritus of Plant Science, 1955, 1992; B.S., SDSU, 1951; M.S., 1964.
- Bonzer, Boyd J., Associate Professor Emeritus of Animal and Range Sciences, 1948, 1985; B.S., SDSU, 1942; M.S., 1959.
- Brage, Burton L., Professor Emeritus of Plant Science, 1950, 1990; B.S., University of Minnesota, 1946; Ph.D., 1950.
- Briggs, Hilton M., President Emeritus, Distinguished Professor of Agriculture Emeritus, 1958, 1975; B.S., Iowa State University, 1933;
 M.S., North Dakota State University, 1935; Ph.D., Cornell College, 1938;
 D.Sc., North Dakota State University, 1963.
- Broschat, Robert A., Associate Professor Emeritus of Mathematics and Statistics, 1966, 1986; B.S., Valley City State College, 1960; M.S., North Dakota State University, 1962; M.S., University of Wisconsin, 1966.
- Brown, Mary M., Professor Emerita of English, 1955, 1982; B.A., Briar Cliff College, 1938; M.A., University of South Dakota, 1947; Ed.D., 1964.
- Bruce, James D., Associate Professor Emeritus of Electrical Engineering, 1960, 1974; B.S., Northern State College, 1936; M.A., University of South Dakota, 1942; B.S., Kansas State University, 1952; M.S., 1959; Ph.D., University of Missouri, 1968.
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- **Bugg, Wesley A.,** Director Emeritus of Finance, 1957, 1982; B.Ed., Western State University, 1942; B.S., Walton School of Commerce, 1949.
- Bush, Leon F., Associate Professor Emeritus of Animal and Range Sciences, 1974, 1978; B.S., University of Kentucky, 1950; M.S., 1951; Ph.D., Cornell University, 1954.
- Carlson, C. Wendell, Professor Emeritus of Animal and Range Sciences, 1949, 1985; B.S., Colorado State University, 1942; M.S., Cornell University, 1948; Ph.D., 1949.
- Carson, Paul L., Professor Emeritus of Plant Science, 1948, 1985; B.S., Northwest Missouri State University, 1941; M.S., Iowa State University, 1947.
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- Emerick, Royce J., Professor Emeritus of Chemistry and Biochemistry, Graduate Faculty, 1957, 1965; B.S., Oklahoma State University, 1952; M.S., University of Wisconsin, 1955; Ph.D., 1957.
- Everrett, V. Duane, Professor Emeritus of Education, 1966, 1989; B.S., University of Nebraska, 1953; M.S., 1962; Ed.D., 1966.
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- Gartner, F. Robert, Professor Emeritus of Range Sciences, 1956, 1980; B.S., University of Wyoming, 1950; M.S., University of California, 1956; Ph.D., University of Wyoming, 1967.
- Gehrke, Jr., Henry, Professor Emeritus of Chemistry and Biochemistry, 1964, 1973; B.S., Oklahoma State University, 1958; M.S., University of Iowa, 1963; Ph.D., 1964.
- Gilbert, Ardyce, Dean Emerita of Home Economics, Professor Emerita of Home Economics Education, 1966, 1986; B.S., SDSU, 1959; M.S., Iowa State University, 1966; Ph.D., 1974.
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- Greenbaum, Harry, Professor Emeritus of Economics, 1961, 1979; B.S., Texas A&M University, 1955; M.S., Ohio State University, 1956; Ph.D., 1961.
- Guild, Louise P., Associate Professor Emerita of Nutrition and Food Science, 1964, 1977; B.S., Farmingham State College, 1934; M.S., University of Massachusetts, 1953.
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- Haertel, Lois S., Professor Emerita of Biology, Graduate Faculty, 1969, 1988; B.S., University of Illinois, 1961; M.S., 1963; Ph.D., Oregon State University, 1969.
- **Halverson, Andrew W.,** Professor Emeritus of Chemistry, 1949, 1985; B.S., SDSU, 1943; M.S., University of Wisconsin, 1947; Ph.D., 1949.
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- Hatfield, Warren G., Professor Emeritus of Music, 1961, 1993; B.A., University of Northern Iowa, 1952; M.A., University of Iowa, 1959; Ph.D., 1967.
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- Hendrickson, John P., Professor Emeritus of Political Science, 1954, 1988;
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- Heusinkveld, Marion, Professor Emeritus of General Engineering, 1984, 1990; B.S., University of South Dakota, 1959; M.N.S., 1962.
- Hietbrink, Bernard E., Dean/Professor Emeritus of Pharmaceutical Sciences, 1964, 1987; B.S., SDSU, 1958; Ph.D., University of Chicago, 1961
- Hofland, Sharon A., Professor Emerita of Nursing, Graduate Faculty, 1964, 1983; B.S., SDSU, 1972; M.S., 1972; Ph.D., 1976; M.N., University of Washington, 1979.
- Hollen, Evelyn, Professor Emerita of Nutrition, Food Science & Hospitality, 1954; B.S., Iowa State University, 1934; M.S., SDSU, 1942; Ph.d., Iowa State University, 1963.
- Holter, Ilverine, Associate Professor Emerita of Nursing, 1957, 1968; B.S., University of Washington, 1951; M.S., 1966.
- Hoogestraat, Wayne E., Professor Emeritus of Communication Studies and Theatre, 1960, 1987; B.A., Sioux Falls College, 1951; M.A., University of South Dakota, 1953; Ed.D., Pennsylvania State University, 1963.
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- Horton, Maurice L., Professor Emeritus of Plant Science, 1964, 1978; B.S., Purdue University, 1953; M.S., 1959; Ph.D., Iowa State University, 1962.
- Hsia, Felix, Professor Emeritus of Economics and Statistics, 1963, 1990; B.S., University of Nanking, 1942; M.S., University of Connecticut, 1981.
- Huether, Ervin A., Professor Emeritus of Health, Physical Education and Recreation, 1949, 1979; B.A., Yankton College, 1943; M.Ed., University of Minnesota, 1950.
- Hugghins, Ernest J., Professor Emeritus of Biology, 1952, 1985; B.S., Baylor University, 1943; M.S., Texas A&M University, 1949; Ph.D., University of Illinois, 1952.
- Iden, Norman L., Associate Professor Emeritus of Foreign Languages, 1965, 1970; B.A., University of Iowa, 1952; M.A., 1953.
- Jensen, Darrell, Professor Emeritus of Education/Dean of Education and Counseling Emeritus, 1971, 1981; B.S., Northwest Missouri State University, 1959; M.A., Drake University, 1965; Ph.D., University of Iowa, 1971.
- Johnson, Genevieve B., Professor Emerita of Nursing, 1956, 1984; B.S., SDSU, 1944; B.S., Vanderbilt University, 1945; M.S., Columbia University, 1955; Ed.D., 1969.
- Johnson, LeRoy C., Associate Professor Emeritus of Horticulture, Forestry, Landscape and Parks, 1965, 1988; B.S., Michigan State University, 1951; M.S., Kansas State University, 1964.
- Kamps, William E., Professor Emeritus of Economics, 1972, 1982; B.A., Western Washington University, 1964; M.A., Washington State University, 1968; Ph.D., 1974.
- Kantack, Benjamin H., Professor Emeritus of Entomology and Plant Science, 1962, 1977; B.S., Kansas State University, 1951; M.S., Oklahoma State University, 1954; Ph.D., University of Nebraska, 1963.
- Kelsey, Galen L., Associate Professor Emeritus of Economics, 1953, 1985; B.S., SDSU, 1953; M.S., 1956.
- Kenefick, Donald G., Professor Emeritus of Plant Science and Biochemistry, Graduate Faculty, 1959, 1971; B.S., University of Wisconsin, 1951; Ph.D., Michigan State University, 1959.
- Kerr, Foster, Water Resources Specialist Emeritus, Agricultural and Biosystems Engineering, 1957, 1990; B.S., University of South Dakota, 1933.
- Kingsley, Quentin, Assistant Professor Emeritus of Plant Science, 1978, 1990; B.S., SDSU, 1956; M.S., 1963.
- Kirkbride, Clyde A., Professor Emeritus of Veterinary Science and Biology and Microbiology, 1967, 1990; D.V.M. Oklahoma State University, 1953; M.S., SDSU, 1970.
- Klug, Darlien G., Assistant Professor Emerita of Library, 1949, 1974; B.A., Yankton College, 1930; M.S., SDSU, 1961.
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- Knofczynski, Clayton W., P.E., Professor Emeritus of Mechanical Engineering, 1958; B.S., SDSU, 1958; M.S., 1966.
- Koepsell, Paul L., P.E., Professor Emeritus of Civil and Environmental Engineering, 1957, 1967; B.S., SDSU, 1952; M.S., University of Washington, 1954; Ph.D., Oklahoma State University, 1965.
- Kohler, Paul H., Professor Emeritus of Animal Science, 1951, 1962; B.S., SDSU, 1949; M.S., 1950; Ph.D., University of Minnesota, 1959.
- Kortan, Laverne J., Professor Emeritus of Animal Science, 1945, 1982; B.S., SDSU, 1942; M.S., 1955.
- Kranzler, Albert W., Professor Emeritus of Mathematics, 1942, 1981; B.S., University of North Dakota, 1937; M.S., University of Minnesota, 1950.
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- Lewis, James K., Professor Emeritus of Animal Science, 1950, 1983; B.S., Colorado State University, 1948; M.S., Montana State University, 1950.
- Linder, Raymond L., Professor Emeritus of Wildlife and Fisheries Sciences, 1964, 1973; B.S., University of Nebraska, 1953; M.S., Iowa State University, 1955; Ph.D., University of Nebraska, 1964.

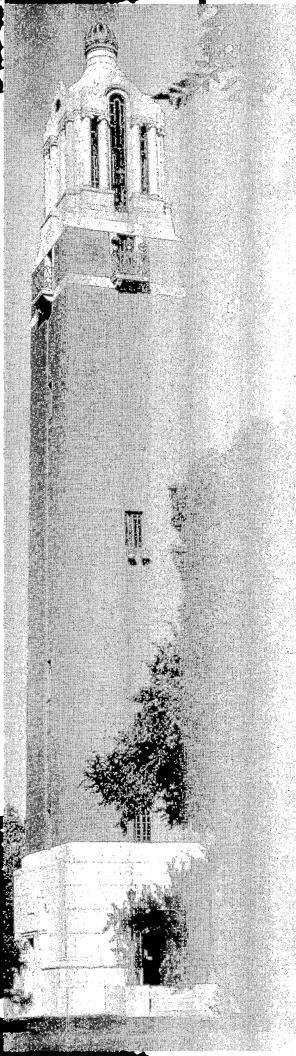
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- Lundeen, Ardelle A., Professor Emerita and Head of Economics, 1976, 1987; B.S., SDSU, 1970; M.S., 1971; Ph.D., Iowa State University, 1976.
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- Lyle, Mary F., Professor Emerita of Extension, 1943, 1984; B.S., University of South Dakota, 1943; M.S., Iowa State University, 1953; Ph.D., University of Wisconsin, 1968.
- Lytle, William F., P.E., Associate Professor Emeritus of Agricultural and Biosystems Engineering, 1961, 1991; B.S., University of Illinois, 1939; B.S., 1940; M.S., 1948.
- Mankin, Cleon, Professor Emeritus of Plant Science, 1953, 1990; B.S., New Mexico Highlands University, 1938; M.S., New Mexico State University, 1950; Ph.D., Washington State University, 1953.
- Marken, Jack W., Professor Emeritus of English, 1967, 1986; B.A., Akron University, 1947; M.A., Indiana University, 1950; Ph.D., 1953.
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- McCarty, J. Walter, Associate Professor Emeritus of Animal Science, 1948, 1986; B.S., SDSU, 1947; M.S., University of Minnesota, 1948.
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- McDaniel, Burruss, Professor Emeritus of Plant Science, 1966, 1992; B.A., University of Alaska, 1953; M.S., Texas A&M University, 1961; Ph.D., 1965.
- McRoberts, Donald E., Associate Professor Emeritus of Chemistry, 1956, 1985; B.S., Montana State University, 1943; M.S., 1963.
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- Monahan, Maurice L., Professor Emeritus of Mathematics, 1956, 1988; B.S., SDSU, 1956; M.S., University of Illinois, 1964.
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- Morgan, Jr., Walter C., Professor Emeritus of Biology, Professor Emeritus of Animal Science, 1954, 1985; B.S., University of Connecticut, 1946; M.S., George Washington University, 1949; Ph.D., University of Connecticut, 1953.
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- Nelson, Joy, Instructor Emerita of Nursing, 1966, 1977; B.A.E., Art Institute of Chicago, 1952.
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- Palmer, Ivan S., Professor Emeritus of Chemistry and Biochemistry, 1955, 1973; B.S., SDSU, 1955; M.S., 1956; Ph.D., Pennsylvania State University, 1960.
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- Parker, Floyd W., Professor Emeritus of Physics, 1965, 1985; B.S., Colorado State University, 1938; M.S., University of Iowa, 1941; Ph.D., University Tennessee, 1955.
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- Petersen, Marvin E., Associate Professor Emeritus of Electrical Engineering, 1982, 1989; B.S., South Dakota School of Mines and Technology, 1948; M.S., Massachusetts Institute of Technology, 1957.
- Peterson, Evelyn T., Professor Emerita of Nursing, 1954, 1993; B.S., University of Washington, 1951; M.N., 1958; D.Nu.S., University of California, 1975.
- Peterson, Ronald M., Professor Emeritus of Horticulture-Forestry, 1953, 1987; B.S., Colorado State University, 1947; M.S., University of California, 1949; Ph.D., University of Minnesota, 1953.
- Plumart, Phillip E., Professor Emeritus of Animal Science, 1961, 1990; B.S., University of Illinois, 1950; M.S., Kansas State University, 1952.
- Prashar, Paul D., Professor Emeritus of Horticulture, 1960, 1978; B.S., Government Agricultural College, 1952; M.S., University of Minnesota, 1955; Ph.D., University of Missouri, 1960.
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- Royer, Paul, Professor Emeritus of Music, 1968, 1987; B.M., Cincinnati College of Music, 1947; M.M., 1949.
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- Sander, Duane, Dean Emeritus and Professor Emeritus of Electrical Engineering, 1967, 190; B.S., South Dakota School of Mines and Technology, 1960; M.S., Iowa Sate University, 1962; Ph.D., 1964.
- Sanderson, Cecil, Professor Emeritus of Extension, 1937, 1984; B.S., SDSU, 1937; M.S., 1964.
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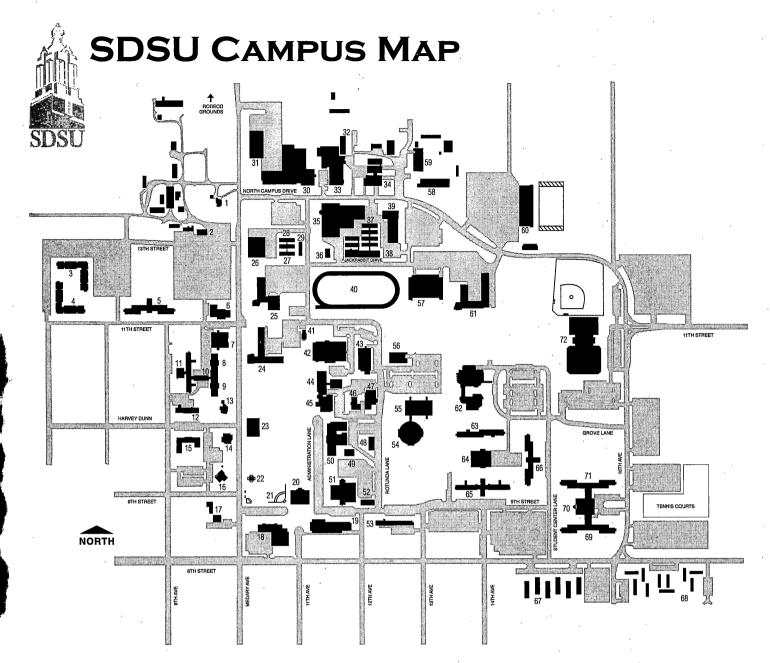
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UNIVERSITY CALENDARS

2000 FALL TERM

(1 day registration, 69 class days, 5 exam days)

September 4, Monday	Labor Day Holiday
September 5, Tuesday	Registration and Orientation
	Instruction begins
September 14, Thursday	Last day to drop or add
	and adjust final fees
September 22, Friday	Last day to submit a
	graduation application for Fall 2000
October 7, Saturday	Hobo Day
October 9, Monday	Native American Day Holiday
October 18, Wednesday	""W" grade begins
October 25, Wednesday	First half Fall Term ends
October 30, Monday	Deficiency reports due in
	Registrar's Office, Adm 208, by 5:00 p.m.
November 10, Friday	Veterans Day Holiday
	Last day to drop a course
	-FridayThanksgiving Recess
December 15, Friday	Last day of classes, Fall 2000
	Graduation, 10:00 a.m.
December 18-22, Monday -	TuesdayFinal examinations
	Grades due in Registrar's Office
	not later than 5:00 p.m.

2001 SPRING TERM

(1 day registration, 73 class days, 5 exam days)

January 10, Wednesday	Registration and Orientation
January 11, Thursday	Instruction begins
January 15, Monday	Martin Luther King, Jr. Day Holiday
January 22, Monday	Last day to drop or add and
	adjust final fees
February 7, Wednesday	Last day to submit a
	graduation application for Spring 2001
February 19, Monday	Presidents' Day Holiday
February 26, Monday	"W" grade begins
March 5-9, Monday-Friday.	Spring Break
March 13, Tuesday	First half Spring Semester ends
March 16, Friday	Deficiency reports due in
•	Registrar's Office, Adm 208, by 5:00 p.m.
April 2, Monday	Last day to drop a course
April 13, 16, Friday-Monday	yEaster Recess
May 4, Friday	Last day of classes, Spring 2001
	.115th Annual Commencement, 10:00 a.m.
	Final examinations
May 16, Wednesday	Grades due in Registrar's Office
	not later than 5:00 p.m.

2001 SUMMER TERM

May 14, (Monday) - June 8 (Friday)	Session 1
May 28, Monday	
June 11, (Monday) - July 6 (Friday)	
July 4, Wednesday	Independence Day Holiday
July 9, (Monday) - August 3 (Friday)	
August 6, (Monday) - August 31 (Friday).	

2001 FALL TERM

(1 day registration, 69 class days, 5 exam days)

September 3, Monday	Labor Day Holiday
September 4, Tuesday	Registration and Orientation
September 5, Wednesday	Instruction begins
September 13, Thursday	Last day to drop or add
	and adjust final fees
September 21, Friday	Last day to submit a
	graduation application for Fall 2001
October 8, Monday	Native American Day Holiday
	Hobo Day
October 17, Wednesday	"W" grade begins
October 24, Wednesday	First half Fall Term ends
	Deficiency reports due in
Regis	strar's Office, Adm 208, by 5:00 p.m.
November 12, Wednesday	Veterans Day Holiday
	Last day to drop a course
November 22, 23, Thursday-Friday	Thanksgiving Recess
December 14, Friday	Last day of classes, Fall 2001
	Graduation, 10:00 a.m.
	Reading Day
	Final examinations
	Grades due in Registrar's Office
•	not later than 5:00 p.m.
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2002 SPRING TERM

(1 day registration, 73 class days, 5 exam days)

January O. Wadnasday	Desistration and Orientation
January 9, wednesday	Registration and Orientation
January 10, Thursday	Instruction begins
January 18, Friday	Last day to drop or add and
•	adjust final fees
	Martin Luther King, Jr. Day Holiday
February 6, Wednesday	Last day to submit a
	graduation application for Spring 2002
February 18, Monday	Presidents' Day Holiday
	""W" grade begins
March 5, Wednesday	First half Spring Term ends
March 8, Friday	Deficiency reports due in
R	degistrar's Office, Adm 208, by 5:00 p.m.
March 11-15, Monday-Friday.	Spring Break
March 29, April 1, Friday, Mor	ndayEaster Recess
April 3, Wednesday	Last day to drop a course
May 3, Friday	Last day of classes, Spring 2002
	16th Annual Commencement, 10:00 a.m.
May 6-10, Monday-Friday	Final examinations
	Grades due in Registrar's Office
-	not later than 5:00 p.m.

2002 SUMMER TERM

May 13, (Monday) - June 7 (Friday)	Session 1
May 27, Monday	
June 10, (Monday) - July 5 (Friday)	
July 4, Thursday	Independence Day Holiday
July 8, (Monday) - August 2 (Friday)	Session 3
August 5 (Monday) - August 30 (Friday)	Session 4



South Dakota State University

OFFICE OF ADMISSIONS

Box 2201 Brookings, SD 57007-0649