

South Dakota State University
**Open PRAIRIE: Open Public Research Access Institutional
Repository and Information Exchange**

Campus Course Catalogs and Bulletins

University Archives and Special Collections

7-1-1902

South Dakota Agricultural College Annual Catalog 1901-1902 with Announcements for 1902-1903

South Dakota Agricultural College

Follow this and additional works at: http://openprairie.sdstate.edu/archives_catalogs

Recommended Citation

South Dakota Agricultural College, "South Dakota Agricultural College Annual Catalog 1901-1902 with Announcements for 1902-1903" (1902). *Campus Course Catalogs and Bulletins*. Paper 16.
http://openprairie.sdstate.edu/archives_catalogs/16

This Article is brought to you for free and open access by the University Archives and Special Collections at Open PRAIRIE: Open Public Research Access Institutional Repository and Information Exchange. It has been accepted for inclusion in Campus Course Catalogs and Bulletins by an authorized administrator of Open PRAIRIE: Open Public Research Access Institutional Repository and Information Exchange. For more information, please contact michael.biondo@sdstate.edu.

**South Dakota
Agricultural College.**

ANNUAL CATALOG.

LIBRARY

ALL BOOKS READ

**S. Dak. State College of Agr.
& Arts.**

1901-1902.

With Announcements for 1902-1903.

**Published by the College,
Brookings, South Dakota, July, 1902.
Press Print.**

D 4658

100

Calendar for 1902-3.

1902.

FALL TERM, TWELVE WEEKS.

- September 22-24—Entrance Examinations and Registration.
September 24—Work of Fall Term Begins at Noon.
September 27—Faculty Reception to Students.
September 30—President's Annual Address to Students.
November 27-28—Thanksgiving Recess.

1903.

WINTER TERM, TWELVE WEEKS.

- January 5—Work of Winter Term Begins at Noon.
January 6—Faculty Reception to Students, 8:00 to 9:00 P. M.
February 20—Washington and Lincoln Memorial Address in Chapel.
March 27—Winter Term Closes at Noon.

SPRING TERM, TWELVE WEEKS.

- March 30—Work of Spring Term Begins at Noon.
May 19-23—May Recess and Military Encampment.
June 17—Work of Spring Term Ends.
June 17— { 10:30 A. M., Commencement Exercises.
 { 9:00 to 10:00 P. M., Reception to Students.

1903.

FALL TERM.

- September 23—Fall Term Begins.
December 18—Fall Term Ends.
-

Calendar of Short Courses in 1903.

- January 5 to March 27—Short Course in Agriculture.
January 5 to March 27—Course in Dairy Science. (Butter Making).
January 5 to March 27—Horticulture, (Nurserymen's Course).
January 5 to June 17—Practical Steam Engineering.
January 5 to June 17—Public School Drawing.

Regents of Education.

HON. F. A. SPAFFORD.....	Flandreau
HON. L. M. HOUGH.....	Sturgis
HON. M. F. GREELEY.....	Gary
HON. I. W. GOODNER	Pierre
HON. R. M. SLOCUM.....	Herreid

Officers of the Board.

HON. F. A. SPAFFORD.....	President
HON. I. D. ALDRICH	Secretary
HON. JOHN SCHAMBER, (State Treasurer).....	Treasurer

Regents' Committee for the College.

HON. R. M. SLOCUM.

HON. F. A. SPAFFORD.

MR. R. A. LARSON,

Secretary and Accountant, Brookings, S. D.

Faculty and Instructors for 1902-3.

JOHN WILLIAM HESTON, PH. D., LL. D., PRESIDENT,
Professor of Economics and Sociology.

GEORGE LINCOLN BROWN, PH. D., (CH'RMAN EX. COM.)
Professor of Mathematics and Astronomy.

ALBERT SPENCER HARDING, A. M., (SECRETARY.)
Professor of History and Civics.

LUCY AMELIA DU BOIS, A. B., (PRECEPTRESS.)
Professor of Latin and Associate Professor of English.

CLIFTON GEORGE ANDERSON,
Stenographer.

JOHN NELSON,
Registrar.

ADA BERTHA CALDWELL,
Professor of Industrial Art.

ELLERY CHANNING CHILCOTT, M. S.,
Professor of Geology and Agronomy.

AUSTIN BENJAMIN CRANE, B. S.,
Professor of Civil and Agricultural Engineering.

ARTHUR BOONE CROSIER,
Professor of Stenography and Commercial Science.

ELMER KENDALL EYERLY, A. M.,
Professor of English and Oratory.

ALICE DYNES FEULING, B. S.,
Professor of Domestic Science.

ROBERT BLACKWOOD FORSEE, PE. P.,
Principal of Preparatory Department.

NIELS EBBESEN HANSEN, M. S.,
Professor of Horticulture and Forestry.

ROBERT FLOYD KERR, A. M.,
Librarian and*Director of College Extension Work.

JOHN PARMELEE MANN,
Instructor in Vocal Music, and Stringed Instruments, and Band Leader.

HUBERT BERTON MATHEWS, M. S.,
Professor of Physics and Electrical Engineering.

MINNIE McNAMEE,
Professor of Music and Physical Culture.

EDWARD LOCKHART MOORE, B. S., D. V. S.,
Professor of Zoology and Veterinary Medicine.

DEALTON, SAUNDERS, A. M.,
Professor of Botany and Entomology.

JAMES HENRY SHEPARD, B. S.,
Professor of Chemistry.

HALVOR CHRISTIAN SOLBERG, M. E.,
Professor of Mechanical and Steam Engineering.

JOHN HERSEY WHEELER, A. B.,
Professor of Modern Languages and Athletic Director.

BOWER THOMAS WHITEHEAD, M. S., PH. G.,
Professor of Pharmacy.

JAMES WILBUR WILSON, M. S. A.,
Professor of Agriculture and Animal Husbandry.

Professor of Military Science and Tactics.

FRANK EDGAR HEPNER, B. S., PH. G.,
Assistant in Chemistry.

HOWARD HARTMAN HOY, B. S.,
Assistant in Physics and Engineering.

Assistant in Zoology and Bacteriology.

WALTER STRICKLAND THORNER, M. S.,
Assistant in Botany and Horticulture.

ALBERT HENRY WHEATON,
Instructor in Dairy Science.

* Government Officer to be detailed in September.

† To be appointed in September.

Committees for 1902-3,

The Faculty meets regularly every Monday, during term time, at 4:15 p m. To facilitate the work and aid the executive in disposing of minor questions, the following committees are appointed for the current year:

EXECUTIVE (Admission, Advertisements, Credits, Department):

Brown, Mathews, Wheeler, Eyerly, Kerr, Wilson, Whitehead, Harding, and Crane.

COLLEGE EXTENSION:

Kerr, Shepard, Harding, Forsce, Brown, and Moore.

ATHLETIC:

Wheeler, Eyerly, Mathews, Saunders, Wilson, and McNamee.

LIBRARY:

Harding, Kerr, Eyerly, DuBois, Shepard, and Forsee.

LITERARY:

Crosier, Feuling, Wheeler, McNamee, and Caldwell.

LIVING AFFAIRS:

Feuling, DuBois, Wheaton, Solberg, Forsee, and Thornber.

SCIENTIFIC RESEARCH:

Wilson, Hansen, Shepard, Saunders, Moore, and Walton.

SOCIAL AFFAIRS:

Eyerly, Hansen, Caldwell, Crosier, Mann, McNamee, and Hoy.

STUDENT LABOR AND GROUNDS:

Hansen, Wilson, Solberg, and Crane.

STUDENT ORGANIZATIONS AND PUBLICATIONS:

Mathews, Harding, Whitehead, Solberg, Kerr, Crane, Hoy, and Thornber.

Station Council and Meetings.

The Station Council is composed of the Regents Committee for the College, the President of the College and heads of staff divisions.

This Council meets regularly throughout the year on the first Wednesday of each month at 4:15 p. m , and at such other times as the Director may designate.

Agricultural Experiment Station Staff.

James W. Wilson, Director.....	Animal Husbandry
E. C. Chilcott, Vice-Director.....	Agriculturist
James H. Shepard	Chemist
N. E. Hansen.....	Horticulturist
D. A. Saunders	Botanist and Entomologist
E. L. Moore.....	Veterinarian
A. H. Wheaton.....	Dairy Husbandry

Frank E. Hepner.....	Assistant Chemist
Walter S. Thornber.....	Assistant Botanist and Horticulturist
A. B. Holm .....	.....Station Photographer and Assistant in Soil Physics
Wm. West.....	Foreman Station Farm
Lewis W. Carter.....	Superintendent Highmore Sub-Station
Chas. Haralson	Gardener and Florist
R. A. Larson.....	Secretary and Accountant
R. F. Kerr.....	Librarian and Statistician
Lillian Langdon.....	Station Stenographer

Other Regular Employes.

Samuel J. Wood.....	Engineer and Fireman
Fred. Betkey.....	Assistant Engineer and Fireman
George E. Purdy.....	Janitor and Carpenter
Wm. Thornber.....	Herdsman
H. C. Hanson.....	Farm Teamster
John Olson.....	Horticultural Teamster

Tutors for 1902-3.

Tutors for the several departments will be appointed and published at the opening of the new college year.

All students absent from regular college exercises will be expected to arrange with a tutor for making up omitted work. For tutor charges see page 62.

College Alumni.

Alumni Association.

Ira H. Hatfield, '92	President
Howard H. Hoy, '96	First Vice-President
Grant Houstin, '91	Second Vice-President
Myra B. Fishback, '01	Third Vice-President
Albert S. Harding, '92	Secretary and Treasurer

Graduates.

MASTER OF SCIENCE. (M. S.)

Aldrich, John M., '91	Prof. Entom., U. of Io., Moscow, Io
Brown, James A., '96	Attorney Lincoln, Neb
Chilcott, E. C., '98	Prof. of Agriculture..... S. D. A. C
Davls, Homer, '97	Physician
Griffiths, David, '93	Dept. of Agrostology, Wash., D. C
Harkins, Lilla A., '98	Prof. Dom. Science, Bozeman, Mont
Knox, William H., '98	Instructor Champaign, Ill
Luke, Fred K., '96	Bot. Florist..... Columbus, O
Mathews. Hubert B., '99	Prof. Physics S. D. A. C
Mathews, Eva (Plocker), '94	..... Brookings
McKenney, Dustin W., '95	Director Man. Trn'g, Davenport, Ia
Parsons, Thomas S., '98	Teacher Aberdeen
Robertson, Ada N., '96	Clerk Helena, Mont
Schoppe, W. J. A., '95	Signal Service Buffalo, N. Y
Sproul, Alex. H., '95	Teacher Elgin, Ill
Tanzy, Hattie (Dibble), '99	Matron State Normal..... Madison
Thornber, Walter S., '99	Asst. in Bot. and Hort., S. D. A. C
Whitehead, Bower T., '97	Prof. of Pharmacy..... S. D. A. C

Whitten, John C., '99	..... Prof. Hort.,... Mo. U., Columbia, Mo
Williams, Effie (Snell), '96	..... Madison
Wilcox, Ernest W., '96	.... Teacher Thawville
Wolgemuth, Lee E., '94	... Electrician Chicago

BACHELOR OF SCIENCE. (B. S.)

Ainsworth, Cephas B., '97	Bank Clerk	..... Estelline
Ainsworth, Howard, '98	.....	Baraboo, Wis
*Aldrich, Ellen (Roe) '89	.....	.....
Aldrich, Irwin D., '91	..... Editor and Farmer	..... Bigstone
Aldrich, John M., '88	..... Prof. Entom'y U. Idaho,	Moscow, Io
Allan, Wm. C., '89	..... Physician	..... Chicago, Ill
Allen, Hart M., '00	..... Student	..... Des Moines, Ia
Allison, Wm. F., '96	..... Farmer	..... Brookings
*Anderson, Clark W., '00	.....	.....
Atkinson, Jesse C., '96	..... Student	..... Champaign, Ill
Atkinson, George W., '97	..... Topographer	..... Mitchell
Atkinson, Walter, '97	..... Civil Engineer	..... Pittsburg, Pa
Austin, Steven E., '92	..... Machinist	..... Iowa
Bagley, Susie, '01	..... Teacher	..... Brookings
Bates, Edmund T., '93	..... Farmer	..... Onslow, Ia
Barton, Alice E., '98	..... Teacher	..... Brookings
Bacon, Nora (Updyke), '91	.....	..... Denver, Colo
Beck, Milton, '93	..... Draughtsman	..... Detroit, Mich
Beck, Louis, '98	..... Stationary Engineer	..... Deadwood
Beebe, John L., '00	..... Student	..... Minneapolis, Minn
Bell, Wm. D., '91	..... Editor	..... Slayton, Minn
Bentley, Wm. S., '91	..... Physician	..... Gary
Bolles, Myrick N., '98	..... Chemist	..... Columbia Univ., N. Y
Bolles, Laura Jane, '01	..... Teacher	..... Berthold, N. D
Boswell, Kate L., '89	..... Teacher	..... Estelline

*Deceased.

Boyd, Mary, '01.....	Teacher	Brookings
Boyden, Frank E., '97	Co. Supt. af Schools.....	Brookings
Boyden, Maude, (Hegeman), '97		Brookings
Brosseau, Jesse E., '01.....		Bradley
Brown, Cyrus O., '94.....	Attorney	Burwell, Neb
Brown, Ida (Dibble), '96.....		Lincoln, Neb
Brown, James A., '94	Attorney.....	Lincoln, Neb
Brown, Sara, '95	Teacher.....	Shannon City, Ia
Brooke, Grace (Lawshe), '89.....		Brookings
Bullen, Grace (Young), '97		Ashton
Carlson, Ella, '00.....	Teacher.....	St. Paul, Minn
Carlson, Esther, '00.....	Student.....	Pembina, N. D
Carter, Lewis W., '96.....	Farmer	Highmore
Chamberlain, Sarah B., '91	Physician	Chicago, Ill
Clevenger, John W., '97.....	Dentist.....	Chamberlain
Colegrove, Ina May, '99.....	Teacher	Brookings
Cornell, Harry M., '95.....	Real Estate.....	Willow City, N. D
Crane, Austin B., '91.....	Professor.....	S. D. A. C
Crane, Alice (Curtiss), '98.....		Highmore
Crane, May (Cranston), '89		Brookings
Crane, Maggie (Davidson), '98.....		Spokane, Wash
Cranston, Maggie, '01.....	Teacher.....	Osakis
Cross, Alvah G., '89		
Crowley, C. (Madden), '97		Mound City
Culhane, Michael E., '01..	Student	Brookings
Cunningham, Sara (Haber), '89.....		Spokane, Wash
Davies, Mary, '00.....	Teacher.....	Tecumseh, Neb
Davies, Sara, '00	Teacher.....	Tecumseh, Neb
Davis, Homer, '91.....	Physician.....	Genoa, Neb
Davis, Samuel H., '92.....	Farmer	Plankington
Day, John M., '90.....	Farmer.....	Mellette
DeLa, John W., '00.....	Teacher.....	Houghton

Dillon, Willis C., '91	Attorney	Redfield
Dibble, Hattie (Doughty), '91		Yankton
Dodge, Fred E., '01		Redfield
Doughty, Mat. W., '00	Student	Minneapolis
Downing, Jennie C., '96	Telephone operator	Brookings
Edgerton, Wm. M., '93	Physician	Faulkton
Egeberg, Hildus, '90	Farmer	Brookings
Else, John Earl, '01		Doland
Eno, Durrell D., '89	Teacher	Bijou Hills
Enos, Winifred, '01	Teacher	Brookings
Erickson, Martin L., '01	Student	Minneapolis
Evans, Lina Frances, '01	Teacher	Brookings
Findeis, Phillip, '99	Merchant	Miranda
Fishback, Myra, '01	Student	Northfield, Minn
Fjerstad, Hans C., '98	Teacher	Bruce
Fourt, Fanny, (Shannon) '91		Fairfield, Ia
Grady, Francis A., '89	Attorney	Red Lake Falls, Minn
Griffiths, David, '92	Dept of Agrostology	Washington
Grattan, Paul H., '96	Collector	Elkton
Grove, Frank W., '00	Teacher	Brookings
Haasrud, Ole H., '90	Teacher	Bratsburg, Minn
Haberlein, Alice, (Robinson)		Globe, Ariz
Hamlin, John R., Jr., '92	Photographer	Arizola, Arizona
Hann, J. B., '91	Farmer	Carthage
Harding, Albert S., '92	Prof. History	S. D. A. C
Harding, Neva, (Whaley) '97		Brookings
Harding, Chas. J., '98	Teacher	Bruce
Harkins, Lilla A., '90	Prof. Dom. Science	Bozeman, Mont
Harza, Carl, '00	Farmer	Brookings
Harza, Le Roy Francis, '01	Teacher	Brookings

Hatfield, Ira N., '92	..... Attorney	..... Lincoln, Neb
Hatton, John Henry, '01	.....	..... Groton
Hazel, Flora, (Ainsworth) '98	.....	..... Lebanon
Hazel, Wm. A., '97	..... Merchant	..... Lebanon
Hegeman, Harry A., '96	.. Capt. U. S. A.	..... Dagupan, P. I
Hegeman, Mabel I., '98	..... Student	..... Brookings
Holm, Andrew B., '96	..... Asst. in Soil Physics	..... S. D. A. C.
Hopkins, Mrs. C. G., '94	.....	..... Champaign, Ill
Hopkins, Cyril G., '90	..... Prof. Agr. U. of Ill.	..... Champaign, Ill
Hodgeson, Herbert H., '98	Student Columbia Univ.	..... N. Y. City
Houstin, Grant, '91	..... Physician	..... Joliet, Ill
Hoy, Emma, (Mathews) '96	.....	..... Brookings
Hoy, Howard H., '96	..... Asst. in Engineering	..... S. D. A. C
Husted, Harley H., '97	..... Student in Music	..... Lincoln, Neb
Irish, Henry C., '91	..... Missouri Bot. Gar.	..... St. Louis, Mo
Irish, Maggie, (Duffey) '90	.....	..... St. Louis, Mo
Jenkins, John C., '90	..... Attorney	..... Brookings
Johnson, Rhoda Maria, '01	Teacher	..... Brookings
Jolley, Wm. G., '97	.....	..... Gayville
Kendall, Clinton D., '00	..... Druggist	..... Artesian
Kendall, Leonard J., '01	..... Farmer	..... Brookings
Kenyon, Arthur H., '90	..... Real Estate	..... Spokane, Wash
Keeney, Emma A., '92	..... Physician	..... Minneapolis, Minn
Kennedy, Chas. Le Roy, '01	Bank Clerk	..... Madison
Knox, Wm. H., '98	..... Asst. in Chemistry,	..... Champaign, Ill
Knox, Elinor, (Williams) '94	.....	..... Brookings
Korstad, Hans, '86	..... Editor	..... Brookings
Korstad, Mary, '96	..... Teacher	..... Brookings
Langdon, Lillian, '01	..... Student	..... Brookings
Lawrence, Mary M., '99	..... Teacher	..... Seguin, Wash
Lawrence, Wm. H., '99	..... Bookkeeper	..... Seguin, Wash
Lawrence, Claude W., '98	..... Teacher	..... Seguin, Wash
Lawrence, Clay, '98	..... Teacher	..... Rapid City

Lawrence, Philip A., '88..	Attorney.....	Castlewood
Lawrence, Jessie, '00.....	Teacher.....	Seguin, Wash
Larson, Lars K., '89.....	Cashier.....	Dell Rapids
Lewis, Perry, '91.....	Tinner.....	Mankato, Minn
Luke, Fred K., '94.....	Florist....	Shaw Gardens, St. Louis
Lusk, William C., '96.....	Editor.....	Yankton
Mason, Nellie, '99.....	Teacher.....	Brookings
Madden, Margaret, '92....	Teacher.....	Brookings
Mathews, Alta K., '96....	Teacher.....	White
Mathews, Eva, (Plocker) '92.....		Brookings
Mathews, Hubert B., '92..	Professor of Physics....	S. D. A. C
Mathews, Alice, '00.....	Teacher.....	Brookings
Mathews, Roscoe, '00.....	Teacher.....	Bushnell
Merrick, Mable, (Mayland) '95.....		Kansas City, Mo
Millett, Mary, (Frick) '91.....		Minneapolis
McAndrew, James E., '92..	Farmer.....	Iroquois
McElmurry, Loretta, '01, ..	Teacher.....	Brookings
McKenney, Dustin W., '89	Dir. Man. Training, Homestead, Pa	
*McLouth, Ida B., '92.....		
McLouth, Benj. F., '93....	Conn. Ins. Co.....	Hartford, Conn
McLouth, Louis C., '89....	Sec. Automobile Co....	Cleveland, O
Moore, Anna, (Parker) '95.....		Brookings
Mork, Albert A., '89.....	Farmer.....	Volga
Mork, Theodore, '01.....		
Morrison, Freda C., '00....	Teacher.....	Smith
Nachtigal, Isaac, '99.....	Teacher.....	Marion
Olson, Eva, '97.....	Teacher... ..	Madison, Minn
Olson, Gustava, '00.....	Teacher.....	N. Y. City
Orcutt, Carrie, (Ross) '89.....		Northfield, Minn
Paddock, Jay M., '98.....	Farmer.....	Aurora
Parsons, Thomas S., '97... ..	Teacher.....	Milbank
Phillips, Florence, '01.....		Brookings

*Deceased.

GENERAL STATEMENTS.

Phillips, C. Louise, '01.	Brookings
Pratt, Alice (Robinson) '91 Stenographer....	Great Falls, Mont
Pyne, Estel W., '90.....	Music Dealer..... Santa Anna, Cal
Riemann, Edith F., '98....	Teacher..... Stanford, N. Y
Robertson, Ada N., '93....	Clerk..... Helena, Mont
Robertson, Clarence H., '93 Instruc. Purdue U...	Lafayette, Ind
Robertson, Edith, (Salisbury) '95.....	Lafayette, Ind
Rogers, Edmund, '90.....	Milwaukee
Ross, Abbie E., '89.....	Missionary..... San Francisco, Cal
Roe, Guy W., '90.....	Manufacturer..... Elma, Ia
Roe, Robert, '97.....	Farmer..... Highmore
Sasse, Ernest G., '96.....	Physician..... Revillo
Saylor, Marcus A., '86	Real Estate..... Tacoma, Wash
Saylor, Christie (Hargis) '97.....	Elmo, Mo
Schlosser, Thos. F., '92 ..	Clergyman..... Red Cloud, Neb
Schoppe, W. J. A., '93.....	Signal Service..... Buffalo, N. Y
Scott, Anna (Wardall) '89	Physician..... Kansas City, Mo
Sevy, Isaac B., '95	Clergyman..... Big Stone
Sevy, Orpha (West) '97.....	Big Stone
Shuster, John W., '97	Student and Instruc., Madison. Wis
Sherwin, Howard, '99	Civil Engineer..... Yonkers, N. Y
Solberg, Halvor C., '91....	Prof. Mech. Eng..... S. D. A. C
Spooner, Fannie, (Parker) '95	Brookings
Spooner, Jennie.....	Stevens Point, Wis
Sproul, Alex. H., '94	Teacher..... Elgin, Ill
Sproul, Wm. T., '96.....	Draughtsman..... Rockford, Ill
Stoner, Minnie A., '90	Prof. Do. Science..... Columbus, O
Tanzy, Hattie, (Dibble) '94	Matron, State Normal.... Madison
*Tanzy, Marvin F., '94.....	
Thornber, John J., '95	Sc. Teacher..... Tucson, Ariz
Thornber, Wm. T., '98	Herdsmen..... S. D. A. C

*Deceased.

Thornber, Walter S., '97 ..	Asst. in Bot. and Hort...	S. D. A. C
Torrence, Nettie, (Sloan) '92.....		Brookings
Towne, Addie, (Loveland) '98.....		Aberdeen
Towne, Judson R., '98.....	Science Teacher.....	Aberdeen
Valleau, Vinal B., '91	Chief Clerk Am. Exp. Co.,	Chicago
Walter, Edith, '99.....	Bank Clerk.....	Bruce
Walters, Wm. H., '97.....	Grain Merchant.....	Bruce
Wardall, Norman M., '90..	Real Estate	Huron
Waters, George D., '94	Teacher.....	Madison
Wellman, Lulah E., '88.....		Jamestown, N. Y
West, Hugh H., '91	Physician	Elgin, Ill
West, George H., '99	Teacher.....	Iowa City, Ia
Whitehead, B. T., '97.....	Prof. Pharmacy.....	S. D. A. C
Whitten, John C., '92.....	Prof. Hort. Mo. U....	Columbia, Mo
Wilcox, Alice E., '97	Teacher.....	Thawville, Ill
Wilcox, Ernest N., '95	Teacher.....	Thawville, Ill
Williams, Effie (Snell) '92		Madison
Williams, Callie T., '00.....		Brookings
Williamson, Albert, '96... ..	Supt. of Schools.....	Oacoma
Winegar, Albert J., '92.....	Asst. Chief Dr'ghtsm'n,	Beloit, Wis
Wolgemuth, Lee E., '91 ..	Electrician	Chicago
Work, Lloyd E., '97.....	Editor.....	Fairfield, Ia
Young, Gilbert A., '94	Instr. Purdue U.....	Indiana

PHARMACY GRADUATES. (PH. G.)

Briggs, Elmer E., '95.....	Drug Clerk.....	Muscoda, Wis
Brosseau, Jessie E., '00.....		
Baldwin, Corwin B., '00... ..	Drug Clerk.....	Parkston
Beebe, Jay L., '98.....	Student.....	Minneapolis
Connell, John C., '00.....	Druggist.....	Kelley, Ia

College Alumni.

Alumni Association.

Ira H. Hatfield, '92.....	President
Howard H. Hoy, '96.....	First Vice-President
Grant Houstin, '91.....	Second Vice-President
Myra B. Fishback, '01.....	Third Vice-President
Albert S. Harding, '92.....	Secretary and Treasurer

Graduates.

MASTER OF SCIENCE. (M. S.)

Aldrich, John M., '91.....	Prof. Entom., U. of Io., Moscow, Io
Brown, James A., '96.....	Attorney Lincoln, Neb
Chilcott, E. C., '98.....	Prof. of Agriculture..... S. D. A. C
Davls, Homer, '97.....	Physician
Griffiths, David, '93.....	Dept. of Agrostology, Wash., D. C
Harkins, Lilla A., '98.....	Prof. Dom. Science, Bozeman, Mont
Knox, William H., '98.....	Instructor
Luke, Fred K., '96.....	Bot. Florist..... Columbus, O
Mathews. Hubert B, '99... Prof. Physics	S. D. A. C
Mathews, Eva (Plocker), '94	Brookings
McKenney, Dustin W., '95. Director Man. Trn'g, Davenport, Ia	
Parsons, Thomas S., '98.. Teacher.....	Aberdeen
Robertson, Ada N., '96.... Clerk.....	Helena, Mont
Schoppe, W. J. A., '95..... Signal Service	Buffalo, N. Y
Sproul, Alex. H., '95	Teacher
Tanzy, Hattie (Dibble), '99 Matron State Normal.....	Madison
Thornber, Walter S., '99.. Asst. in Bot. and Hort., S. D. A. C	
Whitehead, Bower T., '97.. Prof. of Pharmacy.....	S. D. A. C

Whitten, John C., '99	.....	Prof. Hort.,..	Mo. U., Columbia, Mo
Williams, Effie (Snell), '96	.....		Madison
Wilcox, Ernest W., '96	....	Teacher	Thawville
Wolgemuth, Lee E., '94	....	Electrician	Chicago

BACHELOR OF SCIENCE. (B. S.)

Ainsworth, Cephas B., '97	Bank Clerk	.....	Estelline
Ainsworth, Howard, '98		.....	Baraboo, Wis
*Aldrich, Ellen (Roe) '89		.....
Aldrich, Irwin D., '91	Editor and Farmer	.....	Bigstone
Aldrich, John M., '88	.....	Prof. Entom'y U. Idaho,	Moscow, Io
Allan, Wm. C., '89	.....	Physician	Chicago, Ill
Allen, Hart M., '00	.....	Student	Des Moines, Ia
Allison, Wm. F., '96	.....	Farmer	Brookings
*Anderson, Clark W., '00		.....
Atkinson, Jesse C, '96	.....	Student	Champaign, Ill
Atkinson, George W., '97	.....	Topographer	Mitchell
Atkinson, Walter, '97	.....	Civil Engineer	Pittsburg, Pa
Austin, Steven E., '92	.....	Machinist	Iowa
Bagley, Susie, '01	.....	Teacher	Brookings
Bates, Edmund T., '93	.....	Farmer	Onslow, Ia
Barton, Alice E., '98	.....	Teacher	Brookings
Bacon, Nora (Updyke), '91	.....		Denver, Colo
Beck, Milton, '93	.....	Draughtsman	Detroit, Mich
Beck, Louis, '98	.....	Stationary Engineer	Deadwood
Beebe, John L., '00	.....	Student	Minneapolis, Minn
Bell, Wm. D., '91	.....	Editor	Slayton, Minn
Bentley, Wm. S., '91	.....	Physician	..... Gary
Bolles, Myrick N., '98	.....	Chemist	Columbia Univ., N. Y
Bolles, Laura Jane, '01	.....	Teacher	Berthold, N. D
Boswell, Kate L., '89	.....	Teacher	..... Estelline

*Deceased.

Boyd, Mary, '01.....	Teacher	Brookings
Boyden, Frank E., '97	Co. Supt. af Schools.....	Brookings
Boyden, Maude, (Hegeman), '97		Brookings
Brosseau, Jesse E., '01.....		Bradley
Brown, Cyrus O., '94.....	Attorney	Burwell, Neb
Brown, Ida (Dibble), '96.....		Lincoln, Neb
Brown, James A., '94	Attorney.....	Lincoln, Neb
Brown, Sara, '95	Teacher.....	Shannon City, Ia
Brooke, Grace(Lawshe), '89.....		Brookings
Bullen, Grace (Young), '97		Ashton
Carlson, Ella, '00.....	Teacher.....	St. Paul, Minn
Carlson, Esther, '00.....	Student.....	Pembina, N. D
Carter, Lewis W., '96.....	Farmer	Highmore
Chamberlain, Sarah B., '91	Physician	Chicago, Ill
Clevenger, John W., '97...	Dentist.....	Chamberlain
Colegrove, Ina May, '99...	Teacher.....	Brookings
Cornell, Harry M., '95.....	Real Estate.....	Willow City, N. D
Crane, Austin B., '91.....	Professor.....	S. D. A. C
Crane, Alice (Curtiss), '98.....		Highmore
Crane, May (Cranston), '89		Brookings
Crane, Maggie (Davidson), '98.....		Spokane, Wash
Cranston, Maggie, '01.....	Teacher.....	Osakis
Cross, Alvah G., '89		
Crowley, C. (Madden), '97		Mound City
Culhane, Michael E., '01..	Student	Brookings
Cunningham, Sara (Haber), '89.....		Spokane, Wash
Davies, Mary, '00.....	Teacher.....	Tecumseh, Neb
Davies, Sara, '00	Teacher.....	Tecumseh, Neb
Davis, Homer, '91.....	Physician.....	Genoa, Neb
Davis, Samuel H., '92.....	Farmer.....	Plankington
Day, John M., '90.....	Farmer.....	Mellette
DeLa, John W., '00.....	Teacher.....	Houghton

Dillon, Willis C., '91	..... Attorney.....	Redfield
Dibble, Hattie		
(Doughty), '91	.....	Yankton
Dodge, Fred E., '01	.....	Redfield
Doughty, Mat. W., '00	..... Student.....	Minneapolis
Downing, Jennie C., '96	..... Telephone operator.....	Brookings
Edgerton, Wm. M., '93	..... Physician.....	Faulkton
Egeberg, Hildus, '90	..... Farmer.....	Brookings
Else, John Earl, '01	.....	Doland
Eno, Durrell D., '89	..... Teacher.....	Bijou Hills
Enos, Winifred, '01	..... Teacher.....	Brookings
Erickson, Martin L., '01	..... Student.....	Minneapolis
Evans, Lina Frances, '01	..... Teacher.....	Brookings
Findeis, Phillip, '99	..... Merchant.....	Miranda
Fishback, Myra, '01	..... Student.....	Northfield, Minn
Fjerstad, Hans C., '98	..... Teacher.....	Bruce
Fourt, Fanny,		
(Shannon) '91	.....	Fairfield, Ia
Grady, Francis A., '89	..... Attorney.....	Red Lake Falls, Minn
Griffiths, David, '92	..... Dept of Agrostology...	Washington
Grattan, Paul H., '96	..... Collector.....	Elkton
Grove, Frank W., '00	..... Teacher.....	Brookings
Haasrud, Ole H., '90	..... Teacher.....	Bratsburg, Minn
Haberlein, Alice,		
(Robinson)	.....	Globe, Ariz
Hamlin, John R., Jr., '92	..... Photographer.....	Arizola, Arizona
Hann, J. B., '91	..... Farmer.....	Carthage
Harding, Albert S., '92	..... Prof. History.....	S. D. A. C
Harding, Neva,		
(Whaley) '97	.....	Brookings
Harding, Chas. J., '98	..... Teacher.....	Bruce
Harkins, Lilla A., '90	..... Prof. Dom. Science, Bozeman, Mont	
Harza, Carl, '00	..... Farmer.....	Brookings
Harza, Le Roy Francis, '01	..... Teacher.....	Brookings

Hatfield, Ira N., '92	..... Attorney	..... Lincoln, Neb
Hatton, John Henry, '01	.....	..... Groton
Hazel, Flora, (Ainsworth) '98	.....	..... Lebanon
Hazel, Wm. A., '97	..... Merchant	..... Lebanon
Hegeman, Harry A., '96	.. Capt. U. S. A.	..... Dagupan, P. I
Hegeman, Mabel I., '98	..... Student	..... Brookings
Holm, Andrew B., '96	..... Asst. in Soil Physics	..... S. D. A. C.
Hopkins, Mrs. C. G., '94	.....	..... Champaign, Ill
Hopkins, Cyril G., '90	..... Prof. Agr. U. of Ill.	..... Champaign, Ill
Hodgeson, Herbert H., '98	Student Columbia Univ.	..... N. Y. City
Houstin, Grant, '91	..... Physician	..... Joliet, Ill
Hoy, Emma, (Mathews) '96	.....	..... Brookings
Hoy, Howard H., '96	..... Asst. in Engineering	..... S. D. A. C
Husted, Harley H., '97	..... Student in Music	..... Lincoln, Neb
Irish, Henry C., '91	..... Missouri Bot. Gar.	..... St. Louis, Mo
Irish, Maggie, (Duffey) '90	.....	..... St. Louis, Mo
Jenkins, John C., '90	..... Attorney	..... Brookings
Johnson, Rhoda Maria, '01	Teacher	..... Brookings
Jolley, Wm. G., '97	.....	..... Gayville
Kendall, Clinton D., '00	..... Druggist	..... Artesian
Kendall, Leonard J., '01	..... Farmer	..... Brookings
Kenyon, Arthur H., '90	..... Real Estate	..... Spokane, Wash
Keeney, Emma A., '92	..... Physician	..... Minneapolis, Minn
Kennedy, Chas. Le Roy, '01	Bank Clerk	..... Madison
Knox, Wm. H., '98	..... Asst. in Chemistry,	..... Champaign, Ill
Knox, Elinor, (Williams) '94	.....	..... Brookings
Korstad, Hans, '86	..... Editor	..... Brookings
Korstad, Mary, '96	..... Teacher	..... Brookings
Langdon, Lillian, '01	..... Student	..... Brookings
Lawrence, Mary M., '99	..... Teacher	..... Seguin, Wash
Lawrence, Wm. H., '99	..... Bookkeeper	..... Seguin, Wash
Lawrence, Claude W., '98	..... Teacher	..... Seguin, Wash
Lawrence, Clay, '98	..... Teacher	..... Rapid City

D-4658

Lawrence, Philip A., '88..	Attorney.....	Castlewood
Lawrence, Jessie, '00.....	Teacher.....	Seguin, Wash
Larson, Lars K., '89.....	Cashier.....	Dell Rapids
Lewis, Perry, '91.....	Tinner.....	Mankato, Minn
Luke, Fred K., '94.....	Florist....	Shaw Gardens, St. Louis
Lusk, William C., '96.....	Editor.....	Yankton
Mason, Nellie, '99.....	Teacher.....	Brookings
Madden, Margaret, '92....	Teacher.....	Brookings
Mathews, Alta K., '96....	Teacher.....	White
Mathews, Eva, (Plocker) '92.....		Brookings
Mathews, Hubert B., '92..	Professor of Physics....	S. D. A. C
Mathews, Alice, '00.....	Teacher.....	Brookings
Mathews, Roscoe, '00.....	Teacher.....	Bushnell
Merrick, Mable, (Mayland) '95.....		Kansas City, Mo
Millett, Mary, (Frick) '91.....		Minneapolis
McAndrew, James E., '92..	Farmer.....	Iroquois
McElmurry, Loretta, '01,..	Teacher.....	Brookings
McKenney, Dustin W., '89	Dir. Man. Training, Homestead, Pa	
*McLouth, Ida B., '92.....		
McLouth, Benj. F., '93....	Conn. Ins. Co.....	Hartford, Conn
McLouth, Louis C., '89....	Sec. Automobile Co....	Cleveland, O
Moore, Anna, (Parker) '95.....		Brookings
Mork, Albert A., '89.....	Farmer.....	Volga
Mork, Theodore, '01.....		
Morrison, Freda C., '00....	Teacher.....	Smith
Nachtigal, Isaac, '99.....	Teacher.....	Marion
Olson, Eva, '97.....	Teacher... ..	Madison, Minn
Olson, Gustava, '00.....	Teacher.....	N. Y. City
Orcutt, Carrie, (Ross) '89.....		Northfield, Minn
Paddock, Jay M., '98.....	Farmer.....	Aurora
Parsons, Thomas S., '97...	Teacher.....	Milbank
Phillips, Florence, '01.....		Brookings

*Deceased.

- Phillips, C. Louise, '01. Brookings
 Pratt, Alice (Robinson) '91 Stenographer.... Great Falls, Mont
 Pyne, Estel W., '90..... Music Dealer..... Santa Anna, Cal
 Riemann, Edith F., '98.... Teacher..... Stanford, N. Y
 Robertson, Ada N., '93.... Clerk..... Helena, Mont
 Robertson, Clarence H., '93 Instruc. Purdue U... Lafayette, Ind
 Robertson, Edith,
 (Salisbury) '95..... Lafayette, Ind
 Rogers, Edmund, '90..... Milwaukee
 Ross, Abbie E., '89..... Missionary.... San Francisco, Cal
 Roe, Guy W., '90..... Manufacturer..... Elma, Ia
 Roe, Robert, '97..... Farmer..... Highmore
 Sasse, Ernest G., '96..... Physician..... Revillo
 Saylor, Marcus A., '86 Real Estate..... Tacoma, Wash
 Saylor, Christie (Hargis) '97..... Elmo, Mo
 Schlosser, Thos. F., '92 ... Clergyman..... Red Cloud, Neb
 Schoppe, W. J. A., '93..... Signal Service..... Buffalo, N. Y
 Scott, Anna (Wardall) '89 Physician..... Kansas City, Mo
 Sevy, Isaac B., '95 Clergyman..... Big Stone
 Sevy, Orpha (West) '97..... Big Stone
 Shuster, John W., '97 Student and Instruc., Madison. Wis
 Sherwin, Howard, '99 Civil Engineer..... Yonkers, N. Y
 Solberg, Halvor C., '91.... Prof. Mech. Eng..... S. D. A. C
 Spooner, Fannie,
 (Parker) '95 Brookings
 Spooner, Jennie..... Stevens Point, Wis
 Sproul, Alex. H., '94 Teacher..... Elgin, Ill
 Sproul, Wm. T., '96..... Draughtsman..... Rockford, Ill
 Stoner, Minnie A., '90 Prof. Do. Science..... Columbus, O
 Tanzy, Hattie, (Dibble) '94 Matron, State Normal.... Madison
 *Tanzy, Marvin F., '94.....
 Thornber, John J., '95 .. Sc. Teacher..... Tucson, Ariz
 Thornber, Wm. T., '98 Herdsman..... S. D. A. C
 *Deceased.

Thornber, Walter S., '97 .. Asst. in Bot. and Hort...	S. D. A. C
Torrence, Nettie, (Sloan) '92.....	Brookings
Towne, Addie, (Loveland) '98.....	Aberdeen
Towne, Judson R., '98..... Science Teacher.....	Aberdeen
Valleau, Vinal B., '91..... Chief Clerk Am. Exp. Co., Chicago	
Walter, Edith, '99..... Bank Clerk.....	Bruce
Walters, Wm. H., '97..... Grain Merchant.....	Bruce
Wardall, Norman M., '90.. Real Estate.....	Huron
Waters, George D., '94 Teacher.....	Madison
Wellman, Lulah E., '88.....	Jamestown, N. Y
West, Hugh H., '91..... Physician.....	Elgin, Ill
West, George H., '99..... Teacher.....	Iowa City, Ia
Whitehead, B. T., '97..... Prof. Pharmacy.....	S. D. A. C
Whitten, John C., '92..... Prof. Hort. Mo. U....	Columbia, Mo
Wilcox, Alice E., '97..... Teacher.....	Thawville, Ill
Wilcox, Ernest N., '95 Teacher.....	Thawville, Ill
Williams, Effie (Snell) '92	Madison
Williams, Callie T., '00.....	Brookings
Williamson, Albert, '96... Supt. of Schools.....	Oacoma
Winegar, Albert J., '92.... Asst. Chief Dr'ghtsm'n, Beloit, Wis	
Wolgemuth, Lee E., '91 ... Electrician	Chicago
Work, Lloyd E., '97..... Editor.....	Fairfield, Ia
Young, Gilbert A., '94 Instr. Purdue U.....	Indiana

PHARMACY GRADUATES. (PH. G.)

Briggs, Elmer E., '95..... Drug Clerk.....	Muscoda, Wis
Brosseau, Jessie E., '00.....	
Baldwin, Corwin B., '00... Drug Clerk.....	Parkston
Beebe, Jay L., '98..... Student.....	Minneapolis
Connell, John C., '00..... Druggist.....	Kelley, Ia

Cotter, J. C., '96....	Drug Clerk.....	Dell Rapids
Cornell, Edward, '01	Drug Clerk.....	Brookings
Clevenger, J. W., D. D. S.	Dentist.....	Chamberlain
Carr, George, '99.....	Druggist.....	Flandreau
Crowley, D. C., '99.....	Druggist.....	Mound City
Else, Earl, '00.....	Student.....	Doland
Eckert, Henry, '00	Drug Clerk.....	Watertown
Grove, Eugene, '96.....	Student.....	Chicago
George, Wm., '00....	Student.....	S. D. A. C
Hepner, Frank, '99.....	Student.....	S. D. A. C
Hart, Bertrand M. '00	Drug Clerk.....	Romona
Holsey, Joseph, '00.....	Drug Clerk.....	Minneota, Minn
Jones, Robert, '00	Drug Clerk.....	Madison
Kendall, Clint D., '99.....	Druggist....	Artesian
Knox, Wm. H., '95.....	Assistant Chemist..	Champaign, Ill
Lee, Berton, '98.....	Student.....	S. D. A. C
Lentz, Elmer, '95.....	Dentist.....	Brookings
Lindsey, Chas., '99.....	Stockman	
*Murphy, Wm., '95.....		
Moore, Thomas J., '96....	Druggist.....	Garretson
Oulton, Frank, '99	Druggist.....	Faulkton
Palmer, Horton M., '96....	Druggist.....	White
Sherwin, Frank, '96.	Farmer.....	Brookings
Shriver, E. M., '99	Drug Clerk.....	Estelline
Taylor, C. DeWitt, '99.....	Drug Clerk	
Tidball, Clyde, '01	Drug Clerk.....	Brookings
Whitehead, B. T., '95.....	Professor Pharmacy	S. D. A. C

Graduates 1901-1902.

Degrees.

BACHELOR OF SCIENCE. (B. S.).

Michael Edward Fleming.	George Washington Kephart.
William Adolph George.	Berton Emmett Lee.
Bertrand Maynard Hart.	Henry John Ramsey.
Frank Edgar Hepner	Mary Edith Thornber.
Clara Tomine Johnson.	Ole N. Trooien.
Edward Johnson.	Laura Ellen Winegar.

PHARMACY GRADUATE. (PH. G.).

Wm. Franklin Allison.	James Arthur Leighty.
Frank Edson Boyden.	Frederick Norman Morton.
Bernett Carl Christianson.	Chester Edd Pickles.
McPherson Hayter.	Henry Schnaidt.
Arthur Albricht Jarratt.	Anna Christina Schroeder.
Samuel Hall Jarvis.	John Cornelius Thomas.

Certificates.

CERTIFICATE IN ART DEPARTMENT.

Maude Goddard.	Clara Johnson.
	M. Krete Kendall.

CERTIFICATE IN COMMERCIAL SCIENCE.

Michael Edward Culhane.	Orville Hodson.
Glen Cameron.	Marshal Whaley.
Frank E. Hiltz.	Edith Witzel.

GENERAL STATEMENTS.

19

CERTIFICATE IN AMANUENSIS WORK.

Michael Edward Culhane.	J. H. Kenneth Humphrey.
Vera Dice.	Henri Parmelle.
Ferdinand Goodfellow.	Christine Severson.
Christian F. Hauge.	Lotta M. Throop.
	Roy Wilson.

CERTIFICATE IN STEAM ENGINEERING.

Carl Aanrud.	Lewis Odland.
Andrew Bamble.	Ralph E. Pafford.
Arthur Beatty.	Oscar C. Peterson.
John J. Bennett.	Oscar Peterson.
Arthur Bradberry.	Clark Palmer.
Oel Erickson.	Herman Qualley.
James Frederickson.	Lloyd Ranous.
Nels Hanson.	James Rud.
Homer Hetts.	Knud Solberg.
Roy Hunsberger.	Ralph E. Towne.
George Hofstetter.	Ole N. Trooien.
Lewis J. Kloster.	Guss Reeve.
Enos Meyer.	John Wolverton.

CERTIFICATE IN DAIRY SCIENCE.

Emil C. Artman.	William Meyers.
Elijah Bailey.	Clarence Olson.
Olaf Fundaun.	Gustave Storm.
George H. Haugen.	Joseph Smemoe.
Peder I. Haugen	Fred H. Stark.
Peter Hanson.	Edward J. Stark.
Walter Jackson.	August Vossberg.
Clifford D. Johnson.	Clarence Wallis.
Albert Lindahl.	G. M. Vermilya.
Edward Lindahl.	Herbert Goyke.

CERTIFICATE IN AGRICULTURE.

Erick Carlson.

Joseph Lind.

Willis C. Graham.

Roy A. Newell.

Oscar Johnson.

Carl Pultz.

William J. Snoxell.

CERTIFICATE IN DOMESTIC SCIENCE.

Marietta Knox.

Altha J. Millett.

Mary Smomoe.



List of Students.

1901-'02

NAME.	ADDRESS.
Aanrud, Carl	Hanson
Aga, Godfrey	Dell Rapids
Albertson, Faye	Volga
Aldrich, Inez.....	Brookings
Alexander, John C.....	Elkton
Alexander, Sarah.....	Mound City
Allen, Harry	Brookings
Allison, Clarence.....	Brookings
Allison, Harold.....	Brookings
Allison, Wm. F.....	Brookings
Almond, Fred C.....	Clear Lake
Amley, Ed. P.....	Ipswich
Alrick, Ida B.	Brookings
Alrick, Lewis H.....	Brookings
Ammundson, Millie	Estelline
Anderson, Andrew E.....	Deuel
Anderson, Walter P.....	Brookings
Anderson, Arthur H.....	Brandt
Anderson, Mildred D.....	Brookings
Anderson, Ernest A.....	Marion
Anderson, Howard C.....	Brookings
Anderson, Julia.....	Brandt
Anderson, Peter.....	Hanson
Andrus, H. S.....	Aberdeen
Armstrong, Frank G.....	De Smet
Artman, Emil	Mazepa
Atkins, Wilber.....	Brookings
Atkinson, Albert	White
Backhaus, P. H	Madison
Bagley, Edw	Brookings

2114

2258

Bailey, Elijah.....	Garden City
Bamble, Andrew.....	Grass
Barkley, E. F.....	Manchester
Beatty, A. C.....	Brookings
Beatty, J. W.....	Brookings
Beatty, Lois.....	Brookings
Benedict, Lyle D.....	Milbank
Bennett, J. J.....	Artesian
Benson, Emil.....	Brookings
Bergeim, Hilda.....	Brookings
Berry, Lessie.....	Willow Lake
Bielski, Richard.....	Howard
Biggar, Wm. L.....	Aurora
Billings, Lewis.....	Langford
2150 Binford, A. A.....	Brookings
2151 Binford, W. W.....	Brookings
Binford, Mrs. A. L.....	Brookings
Binford, Mrs. I. S.....	Brookings
Binnewies, Edward.....	McCurdy
Binnewies, Mabel.....	McCurdy
Blackstone, Harry.....	Arlington
Bohrson, Merrick.....	Langford
2263 Bonesteel, Bee N.....	Brookings
Booth, J. Carl.....	Arlington
Bork, Fred.....	Reville
Bortnem, Theodore.....	Brookings
Bowder, John E.....	Bruce
Bower, Laura G.....	Keystone
Boyden, F. E.....	Brookings
2264 Boyden, Guy L.....	Brookings
Bradberry, Arthur.....	Parker
Branen, Maud.....	Sheridan, Ill
Breed, Ray.. ..	Brookings
Brosseau, Jasper A.....	Frankfort
Bryden, David.....	Faulkton
Brown, Geo. E.....	Sioux Falls

to here

GENERAL STATEMENTS.

	Bullock, Chas.....	Osceola
	Bunde, A. O.....	Lyons
Q 42	Burch, Walter S.....	Howard
	Busch, G. E.....	Lancaster
	Bushnell, Maude.....	Brookings
	Burnstad, Carl.....	Dexter
	Cadwell, Guy R.....	Moritz
	Caldow, W. T.....	Brookings
	Campbell, John E.....	Highmore
	Cameron, Glen.....	Artesian
	Cameron, Roy.....	Brookings
Q 271	Carpenter, Abbie J.....	Brookings
	Carpenter, Clarence H.....	Brookings
	Carpenter, Bessie.....	Watertown
	Carlson, Eric H.....	Dalesburg
	Carson, R. G.....	Scotland
	Cassady, Luella.....	Valley Springs
	Childs, C. LeRoy.....	Brookings
	Christianson, Bernett.....	Volga
	Christianson, Ove.....	Erwin
	Clarke, Blanche.....	Brookings
	Clark, Roy.....	Howard
	Clarke, Charley.....	Aurora
	Cole, J. S.....	Gary
	Cole, Roy L.....	Frankfort
	Colegrove, Letta.....	Brookings
	Coleman, Leon.....	Flandreau
	Coller, Fred.....	Brookings
	Conroy, Frank.....	Bancroft
	Comstock, Roy.....	Brookings
133	Cooley, Chester A.....	Garretson
Q 225	Cooley, W. N.....	Garretson
	Cooper, Clifford G.....	Brookings
	Cotes, Frank R.....	Talcott
	Coulson, Henry.....	Hetland

Crothers, Laura.....	Brookings
Cuckow, Fred W.....	Brookings
Culhane, M. E.....	Elkton
Dahl, Milan R.....	Flandreau
Davis, Clifford W.....	White
Davis, Fannie.....	Brookings
Davis, Hugh M.....	Brookings
Davis, Richard B.....	Brookings
Davis, Philip.....	White
Davis, Rufus R.....	Hitchcock
Darnall, Roy.....	Brookings
Deragisch, Anthony N.....	Ramona
Devaney, Joseph H.....	Dell Rapids
Digre, Petra.....	Hendricks, Minn
Digre, Christie.....	Hendricks, Minn
278 Drew, Arthur W.....	Tempe, Arizona
Druey, Grace.....	Brookings
Dice, Vera.....	Clark
Duggan, S. M.....	Reels, Iowa
Dunn, Harvey T.....	Manchester
Dykins, Edna C.....	Ramona
Dykins, Frank A.....	Ramona
Egeberg, Nora.....	Brookings
Elliott, Roy K.....	Brookings
Elliott, Howard.....	Clark
Elston, Robert.....	Bushnell
Erickson, Ida.....	Calmar, Iowa
Erickson, Emma.....	Orland
Erickson, John.....	Trent
Erickson, O. A.....	Trent
Ernster, John.....	Brookings
Evans, Edna V.....	Brookings
Everhard, Luta.....	Highmore
8282 Fassett, Della.....	Brookings
Finnerty, James.....	Helmick

	Fjerstad, Alman.....	Estelline
Q130	Fjerstad, Carl O.....	Estelline
18283	Fishback, Van	Brookings
	Fleming, M. E.....	Bryant
	Frederickson, James A.....	Viborg
Q129	Frick, Harry.....	Glen
	Frislie, Mabel.....	Delmage
	Fudness, Gilbert G.....	Lennox
	Fulkerson, Vincent.....	Brookings
	Fuller, Robert.....	De Smet
	Fundaun, Olaf.....	Baltic
	Gagel, Babette.....	Brookings
	Gaukel, Charles.....	Aurora
	George, Wm. A.....	Gettysburg
	Gerber, Godfrey.....	Lennox
	Gilbertson, Olaf.....	Irene
Q145	Goddard, Maude.....	Keystone
	Goehring, Charles J.....	Freeman
	Goodfellow, Ferd.....	Brookings
	Goodfellow, Walter.....	Brookings
	Goodoien, Edw. J.....	Hendricks, Minn
	Gorman, Edw. B.....	Castlewood
	Goyke, Herbert R.....	St. Lawrence
	Graham, Willis C.....	Beresford
	Greene, Oscar L.....	Artesian
	Grimme, Ida	Howard
	Griffith, Edwin.....	McCook
130	Grove, Mary I.....	Brookings
	Grove, Robert.....	Brookings
	Grovern, Norman.....	Volga
	Gunnison, Viola.....	Bancroft
Q132	Hage, C. F.....	Toronto
	Haggart, Louis.....	Aurora
	Hanson, Carl J.....	Hendricks, Minn
	Hanson, Hilda N.....	Hendricks, Minn

	Hanson, Dorothy.....	Benton
	Hanson, Henry.....	Henry
	Hanson, Mabel.....	Brookings
	Hanson, Nils.....	Hendricks, Minn
	Hanson, Peter.....	De Smet
	Hanson, Walter H.....	Poinsett
	Hart, B. M.....	Doland
	Hartmann, Paul W.....	Brookings
26	Harza, Mable C.....	Brookings
	Hauge, C. F.....	Aberdeen
	Haugen, P. I.....	Maland
	Haugen, Geo. H.....	Tracy, Minn
	Hatfield, Walter.....	Huron
	Haven, F. G.....	Mellette
	Haverberg, J. T.....	Centerville
	Hayter, McPherson.....	Artesian
	Healey, Thos. J.....	Indwood, Iowa
	Heckman, Alice.....	Clark
	Heeren, Daniel.....	Chancellor
2291	Hendricks, J. Lyle.....	Brookings
	Hendricks, L. E.....	Brookings
	Hepner, Frank E.....	Brookings
	Heston, Chas. E.....	Brookings
	Heston, Edw. C.....	Brookings
	Hetts, Homer P.....	Spencer
	Heydlauff, Heber.....	Verdon
	Hilts, Frank E.....	Milbank
231	Hilton, Harry D.....	Bridgewater
	Hoard, J. S.....	Alcester
	Hodson, Orville A.....	Artesian
	Hoellwarth, Christ.....	Freeman
2295	Hofstetter, George.....	Bard
	Hoffman, Otto W.....	Corona
	Holt, Olaf.....	Hazel
	Holland, Chris.....	Ward
216	Hollister, Arthur R.....	Bryant

	Hooker, Henry F.....	White
	Hoover, Homer.....	Brookings
	Hopkins, Harry E.....	Estelline
	Hovey, Carl.....	Brookings
Q 297	Howell, John E.....	Artesian
Q 152	Howg, Edwin N.....	Effington
	Humphrey, J. H. K.....	Brookings
	Hubbart, Minnie E.....	Brookings
	Hunsberger, R. R.....	Columbia
	Hurlbut, Louis N.....	Raymond
	Husaboe, Earl F.....	Trent
	Hyde, David N.....	Vermillion
	Hyde, Winifred R.....	Brookings
Q 105	Ihde, H. C.....	Warner
	Iverson, Isaac A.....	Rondell
	Iverson, Ida.....	Brookings
	Ingvalson, Alfred.....	Flandreau
	Jackson, Walter.....	Flandreau
	Jarratt, Arthur A.....	Colman
	Janett, Julius.....	Ramona
	Jarvis, S. Hall.....	Faulkton
	Jensen, Matilda.....	Tyler, Minn
	Jesme, Emma.....	Volga
	Johnson, Albert A.....	Nutley
Q 31	Johnson, Aaron G.....	Athelwold
	Johnson, Albert.....	Brookings
	Johnson, Oscar.....	Brookings
	Johnson, Andrew K.....	Brookings
	Johnson, Austin M.....	Brookings
	Johnston, Chas. W.....	Willow Lake
Q 133	Johnson, Carl L.....	Norway Lake, Minn
	Johnson, Clara.....	Brookings
	Johnson, Clifford D.....	Broadland
	Johnson, Edw.....	Toronto
	Johnson, Rudolph.....	Volga

Johnson, Harriet M.....	Brookings
Johnson, Mary Ameda.....	Brookings
Johnson, Isaac B.....	Brookings
Johnson, John P.....	Heron Lake, Minn
Jones, Ethel	Bruce
Jones, J. Eldon.....	Miller
Jones, J. L.....	St. Lawrence
Keck, Paul.....	Flandreau
Kellough, Lewis.....	Miller
Kelley, John W.....	Brookings
Kelton, John R.....	Henry
Kendall, Krete.....	Brookings
Kinne, Nelia.....	Erie, Kansas
Kloster, Louis I.....	Clark
Knadle, Charles	Vienna
Knadle, Ed.....	Vienna
Knodt, Will C.....	Hartford
Knox, Arthur H	Alpena
Knox, Marietta.....	Alpena
Koch, Albert	Eureka
2 15-9 Koch, Arthur.....	Eureka
Koerner, John J.....	Freeman
Koerner, Jacob	Freeman
Koelle, Walter R.....	Reville
Kringen, E. G.....	Baltic
Knutson, Lena.....	Lake Preston
Ladd, Horace.....	Brookings
Ladd, Mary F.....	Brookings
Lambert, Paul W.....	Lyons
Lamb, O. V	Brookings
Lane, Marion	Reville
Langdon, Alice.....	Parker
Langdon, Lillian	Parker
Larson, Andrew T.....	Volga
Larson, Henry.....	McCurdy

GENERAL STATEMENTS.

29

Larson, Nora.....	Volga
Latta, John	Pierre
29 / Law, Fred J.....	Dell Rapids
24 Lawshe, Fred E.....	Brookings
Ledahl, Carl L.....	Lake Preston
Lee, Berton E	Brookings
2140 Lee, Earl.....	Brookings
Lee, Elmer L.....	Baltic
Lee, William N.....	Baltic
Leekley, Aurora L.....	Brookings
Leighty, James A	Carthage
Lewis, Leander J.....	Lake Preston
Lieske, Ursula	Canistota
Lind, Joseph.....	Centerville
Lindahl, Edw.....	Strandburg
Lindahl, Albert.....	Strandburg
Lindley, W. W	Leola
Linskog, Ella.....	Bruce
Littler, Clinton.....	Lake Preston
22 Lockhart, Agnes A... ..	Brookings
Lofstad, Alma.....	Poinsett
Lohr, Eva V. E.....	Estelline
Loomis, Leon E.....	Alpena
Loucks, Anna Y.....	Altruria
Lovejoy, Arthur L.....	Amhurst
Lumby, Charles.....	Watertown
McCarl, Harry.....	Brookings
McCarl, Ellsworth.....	Brookings
McCarty, Albert I.....	Cavour
293 McCarty, Geo.....	Cavour
McCarthy, James S.....	Henry
McCrea, Bessie I.....	Bonilla
McCurdy, Walter.....	Letcher
22 McElmurry, Rilla.....	Brookings
McGarry, L. R.....	Aurora

McGrew, Harry.....	Centerville
McKeown, Earl C.....	Elkton
Macomber, May L.....	Cass City, Mich
Malamphy, Clifton E.....	Flandreau
Maloney, John J.....	Elkton
Mattern, Henry J.....	Baltic
Mattice, Albert T.....	Sedro, Washington
Marshall, Ray C.....	Ipswich
Martel, Philip.....	Eureka
Martinson, Chas. E.....	Brookings
Mathews, Harry E.....	Brookings
Mathews, Roscoe.....	Brookings
Meeske, L. S.....	Argo
Melvin, Edward.....	Cavour
Meyer, Enos.....	Ethan
Meyer, Gregory.....	Ethan
Meyers, Wm. G. P.....	Aberdeen
Miller, Mable E.....	Volga
20, 50 Miller, Ralph L.....	Brookings
Miller, S. P.....	Brookings
Millett, Alta J.....	Hudson
Millett, Frank.....	Hudson
Moffatt, Margaret.....	Brookings
Moore, Francis E.....	Colman
Morstad, Edw.....	Lake Preston
Morton, Fred N.....	Toronto
2250 Morton, Grant.....	Toronto
Morrison, B. H.....	Tabor, Iowa
Mosimann, R. E.....	Kidder
Mulder, Jacob W.....	Harrison
222 Murphy, Matthew W.....	Brookings
Murray, Fred G.....	Marvin
Nash, Nellie.....	Willow Lake
Nelson, Bertha.....	Volga
Nelson, Hannah.....	Estelline

Nelson, John.....	Harlan, Iowa
Nelson, Arthur.....	Harlan, Iowa
Nielsen, Emil T.....	Viborg
Neilson, Geo. M.....	Hetland
Nesbit, Eva L.....	Volga
Newell, Roy A.....	Alcester
116/ Newton, Chas. H.....	White
Noble, Arthur G.....	Centerville
Norton, F. A.....	Centerville
Nystrom, Gustaf A.....	Athelwold
Odegard, Augusta.....	Brookings
Odland, Lewis.....	Hurley
Oien, August.....	Hendricks, Minn
Oldberg, Henry.....	Brookings
Oldre, Martin.....	Kenneth, Minn
Olson, Ames G.....	Hendricks, Minn
Olson, Clarence.....	Sherman
Olson, Harry L.....	Brookings
Olson, Herman O.....	Flandreau
Olson, Gustava M.....	Colman
Olson, Lillie.....	Brookings
Olsen, Orrin.....	Brookings
Olston, Ed. C.....	Lake Preston
111/ Omodt, Minnie.....	Brookings
Orth, Dora.....	Flandreau
Orth, Elsie A.....	Flandreau
2103 Ortmyer, Frank.....	Howard
Otterness, J. M.....	Brookings
Otterness, Lars.....	Brookings
Overby, Ella.....	Mellette
Owen, John L.....	Brookings
Owen, Sarah.....	Brookings
Oyan, B. J.....	Baltic
Pafford, Ralph.....	Faulkton
Palm, Anna M.....	Poinsett

	Palm, Ellen A.....	Poinsett
	Palmer, Clark A.....	Hetland
	Palmer, Myrtle C.....	Brookings
	Parmelie, Henri.....	Arlington
	Peirce, E. Esther.....	Brookings
	Peirce, Ruth.....	Brookings
281	Peirce, Robert.....	Brookings
	Peterson, Alfred B.....	Brookings
	Peterson, Arthur.....	Brookings
	Peterson, John.....	Irene
	Peterson, Oscar C.....	Brandt
	Peterson, Oscar.....	Irene
	Pfefferle, Alice E.....	New Ulm, Minn
	Pickell, Lillian E.....	Carthage
	Pickles, Chester E.....	Clark
	Phillips, Florence.....	Brookings
	Phillips, Louise.....	Brookings
	Pike, E. E.....	Aurora
213	Polley, Lovette M.....	Little Rock, Iowa
C282	Pond, Hoyt A.....	Brookings
213	Port, August G.....	Milbank
	Pretzer, Clara P.....	Brookings
	Prosser, Will I.....	Hurley
	Pultz, Carl.....	Lake Preston
	Pultz, Lizzie.....	Lake Preston
	Purcell, Rosa M.....	Faulton
	Purkey, B. S.....	Tacoma, Wash
	Quael, Bertha.....	Brookings
	Qualley, Herman.....	Stoughton, Wis
	Rahn, Henry.....	Brookings
	Ramsey, Henry.....	Brookings
	Ranous, Lloyd.....	Milbank
	Reeve, Gus.....	Corona
	Reeve, A. R.....	Corona
2134	Reich, Rose M.....	Tunnel City, Wis

**South Dakota
Agricultural College.**

ANNUAL CATALOG.

LIBRARY

ALL BOOKS READ

**S. Dak. State College of Agr.
& Mech. Arts.**

1901-1902.

With Announcements for 1902-1903.

**Published by the College,
Brookings, South Dakota, July, 1902.
Press Print.**

D 4658

100

Calendar for 1902-3.

1902.

FALL TERM, TWELVE WEEKS.

- September 22-24—Entrance Examinations and Registration.
September 24—Work of Fall Term Begins at Noon.
September 27—Faculty Reception to Students.
September 30—President's Annual Address to Students.
November 27-28—Thanksgiving Recess.

1903.

WINTER TERM, TWELVE WEEKS.

- January 5—Work of Winter Term Begins at Noon.
January 6—Faculty Reception to Students, 8:00 to 9:00 P. M.
February 20—Washington and Lincoln Memorial Address in Chapel.
March 27—Winter Term Closes at Noon.

SPRING TERM, TWELVE WEEKS.

- March 30—Work of Spring Term Begins at Noon.
May 19-23—May Recess and Military Encampment.
June 17—Work of Spring Term Ends.
June 17— { 10:30 A. M., Commencement Exercises.
 { 9:00 to 10:00 P. M., Reception to Students.

1903.

FALL TERM.

- September 23—Fall Term Begins.
December 18—Fall Term Ends.
-

Calendar of Short Courses in 1903.

- January 5 to March 27—Short Course in Agriculture.
January 5 to March 27—Course in Dairy Science. (Butter Making).
January 5 to March 27—Horticulture, (Nurserymen's Course).
January 5 to June 17—Practical Steam Engineering.
January 5 to June 17—Public School Drawing.

Regents of Education.

HON. F. A. SPAFFORD.....	Flandreau
HON. L. M. HOUGH.....	Sturgis
HON. M. F. GREELEY.....	Gary
HON. I. W. GOODNER	Pierre
HON. R. M. SLOCUM.....	Herreid

Officers of the Board.

HON. F. A. SPAFFORD.....	President
HON. I. D. ALDRICH	Secretary
HON. JOHN SCHAMBER, (State Treasurer).....	Treasurer

Regents' Committee for the College.

HON. R. M. SLOCUM.

HON. F. A. SPAFFORD.

MR. R. A. LARSON,

Secretary and Accountant, Brookings, S. D.

Faculty and Instructors for 1902-3.

JOHN WILLIAM HESTON, PH. D., LL. D., PRESIDENT,
Professor of Economics and Sociology.

GEORGE LINCOLN BROWN, PH. D., (CH'RMAN EX. COM.)
Professor of Mathematics and Astronomy.

ALBERT SPENCER HARDING, A. M., (SECRETARY.)
Professor of History and Civics.

LUCY AMELIA DU BOIS, A. B., (PRECEPTRESS.)
Professor of Latin and Associate Professor of English.

CLIFTON GEORGE ANDERSON,
Stenographer.

JOHN NELSON,
Registrar.

ADA BERTHA CALDWELL,
Professor of Industrial Art.

ELLERY CHANNING CHILCOTT, M. S.,
Professor of Geology and Agronomy.

AUSTIN BENJAMIN CRANE, B. S.,
Professor of Civil and Agricultural Engineering.

ARTHUR BOONE CROSIER,
Professor of Stenography and Commercial Science.

ELMER KENDALL EYERLY, A. M.,
Professor of English and Oratory.

ALICE DYNES FEULING, B. S.,
Professor of Domestic Science.

ROBERT BLACKWOOD FORSEE, PE. P.,
Principal of Preparatory Department.

NIELS EBBESEN HANSEN, M. S.,
Professor of Horticulture and Forestry.

ROBERT FLOYD KERR, A. M.,
Librarian and*Director of College Extension Work.

JOHN PARMELEE MANN,
Instructor in Vocal Music, and Stringed Instruments, and Band Leader.

HUBERT BERTON MATHEWS, M. S.,
Professor of Physics and Electrical Engineering.

MINNIE McNAMEE,
Professor of Music and Physical Culture.

EDWARD LOCKHART MOORE, B. S., D. V. S.,
Professor of Zoology and Veterinary Medicine.

DEALTON, SAUNDERS, A. M.,
Professor of Botany and Entomology.

JAMES HENRY SHEPARD, B. S.,
Professor of Chemistry.

HALVOR CHRISTIAN SOLBERG, M. E.,
Professor of Mechanical and Steam Engineering.

JOHN HERSEY WHEELER, A. B.,
Professor of Modern Languages and Athletic Director.

BOWER THOMAS WHITEHEAD, M. S., PH. G.,
Professor of Pharmacy.

JAMES WILBUR WILSON, M. S. A.,
Professor of Agriculture and Animal Husbandry.

Professor of Military Science and Tactics.

FRANK EDGAR HEPNER, B. S., PH. G.,
Assistant in Chemistry.

HOWARD HARTMAN HOY, B. S.,
Assistant in Physics and Engineering.

Assistant in Zoology and Bacteriology.

WALTER STRICKLAND THORNER, M. S.,
Assistant in Botany and Horticulture.

ALBERT HENRY WHEATON,
Instructor in Dairy Science.

* Government Officer to be detailed in September.

† To be appointed in September.

Committees for 1902-3,

The Faculty meets regularly every Monday, during term time, at 4:15 p m. To facilitate the work and aid the executive in disposing of minor questions, the following committees are appointed for the current year:

EXECUTIVE (Admission, Advertisements, Credits, Department):

Brown, Mathews, Wheeler, Eyerly, Kerr, Wilson, Whitehead, Harding, and Crane.

COLLEGE EXTENSION:

Kerr, Shepard, Harding, Forsce, Brown, and Moore.

ATHLETIC:

Wheeler, Eyerly, Mathews, Saunders, Wilson, and McNamee.

LIBRARY:

Harding, Kerr, Eyerly, DuBois, Shepard, and Forsee.

LITERARY:

Crosier, Feuling, Wheeler, McNamee, and Caldwell.

LIVING AFFAIRS:

Feuling, DuBois, Wheaton, Solberg, Forsee, and Thornber.

SCIENTIFIC RESEARCH:

Wilson, Hansen, Shepard, Saunders, Moore, and Walton.

SOCIAL AFFAIRS:

Eyerly, Hansen, Caldwell, Crosier, Mann, McNamee, and Hoy.

STUDENT LABOR AND GROUNDS:

Hansen, Wilson, Solberg, and Crane.

STUDENT ORGANIZATIONS AND PUBLICATIONS:

Mathews, Harding, Whitehead, Solberg, Kerr, Crane, Hoy, and Thornber.

Station Council and Meetings.

The Station Council is composed of the Regents Committee for the College, the President of the College and heads of staff divisions.

This Council meets regularly throughout the year on the first Wednesday of each month at 4:15 p. m , and at such other times as the Director may designate.

Agricultural Experiment Station Staff.

James W. Wilson, Director.....	Animal Husbandry
E. C. Chilcott, Vice-Director.....	Agriculturist
James H. Shepard.....	Chemist
N. E. Hansen.....	Horticulturist
D. A. Saunders.....	Botanist and Entomologist
E. L. Moore.....	Veterinarian
A. H. Wheaton.....	Dairy Husbandry

Frank E. Hepner.....	Assistant Chemist
Walter S. Thornber.....	Assistant Botanist and Horticulturist
A. B. Holm.....	.....Station Photographer and Assistant in Soil Physics
Wm. West.....	Foreman Station Farm
Lewis W. Carter.....	Superintendent Highmore Sub-Station
Chas. Haralson.....	Gardener and Florist
R. A. Larson.....	Secretary and Accountant
R. F. Kerr.....	Librarian and Statistician
Lillian Langdon.....	Station Stenographer

Other Regular Employes.

Samuel J. Wood.....	Engineer and Fireman
Fred. Betkey.....	Assistant Engineer and Fireman
George E. Purdy.....	Janitor and Carpenter
Wm. Thornber.....	Herdsman
H. C. Hanson.....	Farm Teamster
John Olson.....	Horticultural Teamster

Tutors for 1902-3.

Tutors for the several departments will be appointed and published at the opening of the new college year.

All students absent from regular college exercises will be expected to arrange with a tutor for making up omitted work. For tutor charges see page 62.

College Alumni.

Alumni Association.

Ira H. Hatfield, '92	President
Howard H. Hoy, '96	First Vice-President
Grant Houstin, '91	Second Vice-President
Myra B. Fishback, '01	Third Vice-President
Albert S. Harding, '92	Secretary and Treasurer

Graduates.

MASTER OF SCIENCE. (M. S.)

Aldrich, John M., '91	Prof. Entom., U. of Io., Moscow, Io
Brown, James A., '96	Attorney Lincoln, Neb
Chilcott, E. C., '98	Prof. of Agriculture..... S. D. A. C
Davls, Homer, '97	Physician
Griffiths, David, '93	Dept. of Agrostology, Wash., D. C
Harkins, Lilla A., '98	Prof. Dom. Science, Bozeman, Mont
Knox, William H., '98	Instructor Champaign, Ill
Luke, Fred K., '96	Bot. Florist..... Columbus, O
Mathews. Hubert B., '99	Prof. Physics S. D. A. C
Mathews, Eva (Plocker), '94	..... Brookings
McKenney, Dustin W., '95	Director Man. Trn'g, Davenport, Ia
Parsons, Thomas S., '98	Teacher Aberdeen
Robertson, Ada N., '96	Clerk Helena, Mont
Schoppe, W. J. A., '95	Signal Service Buffalo, N. Y
Sproul, Alex. H., '95	Teacher Elgin, Ill
Tanzy, Hattie (Dibble), '99	Matron State Normal..... Madison
Thornber, Walter S., '99	Asst. in Bot. and Hort., S. D. A. C
Whitehead, Bower T., '97	Prof. of Pharmacy..... S. D. A. C

Whitten, John C., '99	..... Prof. Hort.,... Mo. U., Columbia, Mo
Williams, Effie (Snell), '96	..... Madison
Wilcox, Ernest W., '96	.... Teacher Thawville
Wolgemuth, Lee E., '94	... Electrician Chicago

BACHELOR OF SCIENCE. (B. S.)

Ainsworth, Cephas B., '97	Bank Clerk	..... Estelline
Ainsworth, Howard, '98	.....	Baraboo, Wis
*Aldrich, Ellen (Roe) '89	.....	.....
Aldrich, Irwin D., '91	..... Editor and Farmer	..... Bigstone
Aldrich, John M., '88	..... Prof. Entom'y U. Idaho,	Moscow, Io
Allan, Wm. C., '89	..... Physician	..... Chicago, Ill
Allen, Hart M., '00	..... Student	..... Des Moines, Ia
Allison, Wm. F., '96	..... Farmer	..... Brookings
*Anderson, Clark W., '00	.....	.....
Atkinson, Jesse C., '96	..... Student	..... Champaign, Ill
Atkinson, George W., '97	..... Topographer	..... Mitchell
Atkinson, Walter, '97	..... Civil Engineer	..... Pittsburg, Pa
Austin, Steven E., '92	..... Machinist	..... Iowa
Bagley, Susie, '01	..... Teacher	..... Brookings
Bates, Edmund T., '93	..... Farmer	..... Onslow, Ia
Barton, Alice E., '98	..... Teacher	..... Brookings
Bacon, Nora (Updyke), '91	.....	..... Denver, Colo
Beck, Milton, '93	..... Draughtsman	..... Detroit, Mich
Beck, Louis, '98	..... Stationary Engineer	..... Deadwood
Beebe, John L., '00	..... Student	..... Minneapolis, Minn
Bell, Wm. D., '91	..... Editor	..... Slayton, Minn
Bentley, Wm. S., '91	..... Physician	..... Gary
Bolles, Myrick N., '98	..... Chemist	..... Columbia Univ., N. Y
Bolles, Laura Jane, '01	..... Teacher	..... Berthold, N. D
Boswell, Kate L., '89	..... Teacher	..... Estelline

*Deceased.

Boyd, Mary, '01.....	Teacher	Brookings
Boyden, Frank E., '97	Co. Supt. af Schools.....	Brookings
Boyden, Maude, (Hegeman), '97		Brookings
Brosseau, Jesse E., '01.....		Bradley
Brown, Cyrus O., '94.....	Attorney	Burwell, Neb
Brown, Ida (Dibble), '96.....		Lincoln, Neb
Brown, James A., '94	Attorney.....	Lincoln, Neb
Brown, Sara, '95	Teacher.....	Shannon City, Ia
Brooke, Grace(Lawshe), '89.....		Brookings
Bullen, Grace (Young), '97		Ashton
Carlson, Ella, '00.....	Teacher.....	St. Paul, Minn
Carlson, Esther, '00.....	Student.....	Pembina, N. D
Carter, Lewis W., '96.....	Farmer	Highmore
Chamberlain, Sarah B., '91	Physician	Chicago, Ill
Clevenger, John W., '97.....	Dentist.....	Chamberlain
Colegrove, Ina May, '99.....	Teacher	Brookings
Cornell, Harry M., '95.....	Real Estate.....	Willow City, N. D
Crane, Austin B., '91.....	Professor.....	S. D. A. C
Crane, Alice (Curtiss), '98.....		Highmore
Crane, May (Cranston), '89		Brookings
Crane, Maggie (Davidson), '98.....		Spokane, Wash
Cranston, Maggie, '01.....	Teacher.....	Osakis
Cross, Alvah G., '89		
Crowley, C. (Madden), '97		Mound City
Culhane, Michael E., '01..	Student	Brookings
Cunningham, Sara (Haber), '89.....		Spokane, Wash
Davies, Mary, '00.....	Teacher.....	Tecumseh, Neb
Davies, Sara, '00	Teacher.....	Tecumseh, Neb
Davis, Homer, '91.....	Physician.....	Genoa, Neb
Davis, Samuel H., '92.....	Farmer	Plankington
Day, John M., '90.....	Farmer.....	Mellette
DeLa, John W., '00.....	Teacher.....	Houghton

Dillon, Willis C., '91	..... Attorney.....	Redfield
Dibble, Hattie (Doughty), '91	.....	Yankton
Dodge, Fred E., '01	.....	Redfield
Doughty, Mat. W., '00	..... Student.....	Minneapolis
Downing, Jennie C., '96	..... Telephone operator.....	Brookings
Edgerton, Wm. M., '93	..... Physician.....	Faulkton
Egeberg, Hildus, '90	..... Farmer.....	Brookings
Else, John Earl, '01	.....	Doland
Eno, Durrell D., '89	..... Teacher.....	Bijou Hills
Enos, Winifred, '01	..... Teacher.....	Brookings
Erickson, Martin L., '01	..... Student.....	Minneapolis
Evans, Lina Frances, '01	..... Teacher.....	Brookings
Findeis, Phillip, '99	..... Merchant.....	Miranda
Fishback, Myra, '01	..... Student.....	Northfield, Minn
Fjerstad, Hans C., '98	..... Teacher.....	Bruce
Fourt, Fanny, (Shannon) '91	.....	Fairfield, Ia
Grady, Francis A., '89	..... Attorney.....	Red Lake Falls, Minn
Griffiths, David, '92	..... Dept of Agrostology...	Washington
Grattan, Paul H., '96	..... Collector.....	Elkton
Grove, Frank W., '00	..... Teacher.....	Brookings
Haasrud, Ole H., '90	..... Teacher.....	Bratsburg, Minn
Haberlein, Alice, (Robinson)	.....	Globe, Ariz
Hamlin, John R., Jr., '92	..... Photographer.....	Arizola, Arizona
Hann, J. B., '91	..... Farmer.....	Carthage
Harding, Albert S., '92	... Prof. History	S. D. A. C
Harding, Neva, (Whaley) '97	.....	Brookings
Harding, Chas. J., '98	..... Teacher.....	Bruce
Harkins, Lilla A., '90	..... Prof. Dom. Science, Bozeman, Mont	
Harza, Carl, '00	..... Farmer.....	Brookings
Harza, Le Roy Francis, '01	Teacher.....	Brookings

Hatfield, Ira N., '92	..... Attorney	..... Lincoln, Neb
Hatton, John Henry, '01	.....	..... Groton
Hazel, Flora, (Ainsworth) '98	.....	..... Lebanon
Hazel, Wm. A., '97	..... Merchant	..... Lebanon
Hegeman, Harry A., '96	.. Capt. U. S. A.	..... Dagupan, P. I
Hegeman, Mabel I., '98	..... Student	..... Brookings
Holm, Andrew B., '96	..... Asst. in Soil Physics	..... S. D. A. C.
Hopkins, Mrs. C. G., '94	.....	..... Champaign, Ill
Hopkins, Cyril G., '90	..... Prof. Agr. U. of Ill.	..... Champaign, Ill
Hodgeson, Herbert H., '98	Student Columbia Univ.	..... N. Y. City
Houstin, Grant, '91	..... Physician	..... Joliet, Ill
Hoy, Emma, (Mathews) '96	.....	..... Brookings
Hoy, Howard H., '96	..... Asst. in Engineering	..... S. D. A. C
Husted, Harley H., '97	..... Student in Music	..... Lincoln, Neb
Irish, Henry C., '91	..... Missouri Bot. Gar.	..... St. Louis, Mo
Irish, Maggie, (Duffey) '90	.....	..... St. Louis, Mo
Jenkins, John C., '90	..... Attorney	..... Brookings
Johnson, Rhoda Maria, '01	Teacher	..... Brookings
Jolley, Wm. G., '97	.....	..... Gayville
Kendall, Clinton D., '00	..... Druggist	..... Artesian
Kendall, Leonard J., '01	..... Farmer	..... Brookings
Kenyon, Arthur H., '90	..... Real Estate	..... Spokane, Wash
Keeney, Emma A., '92	..... Physician	..... Minneapolis, Minn
Kennedy, Chas. Le Roy, '01	Bank Clerk	..... Madison
Knox, Wm. H., '98	..... Asst. in Chemistry,	..... Champaign, Ill
Knox, Elinor, (Williams) '94	.....	..... Brookings
Korstad, Hans, '86	..... Editor	..... Brookings
Korstad, Mary, '96	..... Teacher	..... Brookings
Langdon, Lillian, '01	..... Student	..... Brookings
Lawrence, Mary M., '99	..... Teacher	..... Seguin, Wash
Lawrence, Wm. H., '99	..... Bookkeeper	..... Seguin, Wash
Lawrence, Claude W., '98	..... Teacher	..... Seguin, Wash
Lawrence, Clay, '98	..... Teacher	..... Rapid City

Lawrence, Philip A., '88..	Attorney.....	Castlewood
Lawrence, Jessie, '00.....	Teacher.....	Seguin, Wash
Larson, Lars K., '89.....	Cashier.....	Dell Rapids
Lewis, Perry, '91.....	Tinner.....	Mankato, Minn
Luke, Fred K., '94.....	Florist....	Shaw Gardens, St. Louis
Lusk, William C., '96.....	Editor.....	Yankton
Mason, Nellie, '99.....	Teacher.....	Brookings
Madden, Margaret, '92....	Teacher.....	Brookings
Mathews, Alta K., '96....	Teacher.....	White
Mathews, Eva, (Plocker) '92.....		Brookings
Mathews, Hubert B., '92..	Professor of Physics....	S. D. A. C
Mathews, Alice, '00.....	Teacher.....	Brookings
Mathews, Roscoe, '00.....	Teacher.....	Bushnell
Merrick, Mable, (Mayland) '95.....		Kansas City, Mo
Millett, Mary, (Frick) '91.....		Minneapolis
McAndrew, James E., '92..	Farmer.....	Iroquois
McElmurry, Loretta, '01, ..	Teacher.....	Brookings
McKenney, Dustin W., '89	Dir. Man. Training, Homestead, Pa	
*McLouth, Ida B., '92.....		
McLouth, Benj. F., '93....	Conn. Ins. Co.....	Hartford, Conn
McLouth, Louis C., '89....	Sec. Automobile Co....	Cleveland, O
Moore, Anna, (Parker) '95.....		Brookings
Mork, Albert A., '89.....	Farmer.....	Volga
Mork, Theodore, '01.....		
Morrison, Freda C., '00....	Teacher.....	Smith
Nachtigal, Isaac, '99.....	Teacher.....	Marion
Olson, Eva, '97.....	Teacher... ..	Madison, Minn
Olson, Gustava, '00.....	Teacher.....	N. Y. City
Orcutt, Carrie, (Ross) '89.....		Northfield, Minn
Paddock, Jay M., '98.....	Farmer.....	Aurora
Parsons, Thomas S., '97... ..	Teacher.....	Milbank
Phillips, Florence, '01.....		Brookings

*Deceased.

GENERAL STATEMENTS.

Phillips, C. Louise, '01.	Brookings
Pratt, Alice (Robinson) '91 Stenographer....	Great Falls, Mont
Pyne, Estel W., '90.....	Music Dealer..... Santa Anna, Cal
Riemann, Edith F., '98....	Teacher..... Stanford, N. Y
Robertson, Ada N., '93....	Clerk..... Helena, Mont
Robertson, Clarence H., '93 Instruc. Purdue U...	Lafayette, Ind
Robertson, Edith, (Salisbury) '95.....	Lafayette, Ind
Rogers, Edmund, '90.....	Milwaukee
Ross, Abbie E., '89.....	Missionary..... San Francisco, Cal
Roe, Guy W., '90.....	Manufacturer..... Elma, Ia
Roe, Robert, '97.....	Farmer..... Highmore
Sasse, Ernest G., '96.....	Physician..... Revillo
Saylor, Marcus A., '86	Real Estate..... Tacoma, Wash
Saylor, Christie (Hargis) '97.....	Elmo, Mo
Schlosser, Thos. F., '92 ..	Clergyman..... Red Cloud, Neb
Schoppe, W. J. A., '93.....	Signal Service..... Buffalo, N. Y
Scott, Anna (Wardall) '89	Physician..... Kansas City, Mo
Sevy, Isaac B., '95	Clergyman..... Big Stone
Sevy, Orpha (West) '97.....	Big Stone
Shuster, John W., '97	Student and Instruc., Madison. Wis
Sherwin, Howard, '99	Civil Engineer..... Yonkers, N. Y
Solberg, Halvor C., '91....	Prof. Mech. Eng..... S. D. A. C
Spooner, Fannie, (Parker) '95	Brookings
Spooner, Jennie.....	Stevens Point, Wis
Sproul, Alex. H., '94	Teacher..... Elgin, Ill
Sproul, Wm. T., '96.....	Draughtsman..... Rockford, Ill
Stoner, Minnie A., '90	Prof. Do. Science..... Columbus, O
Tanzy, Hattie, (Dibble) '94	Matron, State Normal.... Madison
*Tanzy, Marvin F., '94.....	
Thornber, John J., '95	Sc. Teacher..... Tucson, Ariz
Thornber, Wm. T., '98	Herdsmen..... S. D. A. C

*Deceased.

Thorner, Walter S., '97 ..	Asst. in Bot. and Hort...	S. D. A. C
Torrence, Nettie, (Sloan) '92.....		Brookings
Towne, Addie,		
(Loveland) '98.....		Aberdeen
Towne, Judson R., '98.....	Science Teacher.....	Aberdeen
Valleau, Vinal B., '91	Chief Clerk Am. Exp. Co.,	Chicago
Walter, Edith, '99.....	Bank Clerk.....	Bruce
Walters, Wm. H., '97.....	Grain Merchant.....	Bruce
Wardall, Norman M., '90..	Real Estate	Huron
Waters, George D., '94	Teacher.....	Madison
Wellman, Lulah E., '88.....		Jamestown, N. Y
West, Hugh H., '91	Physician	Elgin, Ill
West, George H., '99	Teacher.....	Iowa City, Ia
Whitehead, B. T., '97.....	Prof. Pharmacy.....	S. D. A. C
Whitten, John C., '92.....	Prof. Hort. Mo. U....	Columbia, Mo
Wilcox, Alice E., '97	Teacher.....	Thawville, Ill
Wilcox, Ernest N., '95	Teacher.....	Thawville, Ill
Williams, Effie (Snell) '92		Madison
Williams, Callie T., '00.....		Brookings
Williamson, Albert, '96... ..	Supt. of Schools.....	Oacoma
Winegar, Albert J., '92.....	Asst. Chief Dr'ghtsm'n,	Beloit, Wis
Wolgemuth, Lee E., '91 ..	Electrician	Chicago
Work, Lloyd E., '97.....	Editor.....	Fairfield, Ia
Young, Gilbert A., '94	Instr. Purdue U.....	Indiana

PHARMACY GRADUATES. (PH. G.)

Briggs, Elmer E., '95.....	Drug Clerk.....	Muscoda, Wis
Brosseau, Jessie E., '00.....		
Baldwin, Corwin B., '00... ..	Drug Clerk.....	Parkston
Beebe, Jay L., '98.....	Student.....	Minneapolis
Connell, John C., '00.....	Druggist.....	Kelley, Ia

College Alumni.

Alumni Association.

Ira H. Hatfield, '92.....	President
Howard H. Hoy, '96.....	First Vice-President
Grant Houstin, '91.....	Second Vice-President
Myra B. Fishback, '01.....	Third Vice-President
Albert S. Harding, '92.....	Secretary and Treasurer

Graduates.

MASTER OF SCIENCE. (M. S.)

Aldrich, John M., '91.....	Prof. Entom., U. of Io., Moscow, Io
Brown, James A., '96.....	Attorney..... Lincoln, Neb
Chilcott, E. C., '98.....	Prof. of Agriculture..... S. D. A. C
Davls, Homer, '97.....	Physician.....
Griffiths, David, '93.....	Dept. of Agrostology, Wash., D. C
Harkins, Lilla A., '98.....	Prof. Dom. Science, Bozeman, Mont
Knox, William H., '98.....	Instructor..... Champaign, Ill
Luke, Fred K., '96.....	Bot. Florist..... Columbus, O
Mathews. Hubert B, '99... Prof. Physics.....	S. D. A. C
Mathews, Eva (Plocker), '94.....	Brookings
McKenney, Dustin W., '95.	Director Man. Trn'g, Davenport, Ia
Parsons, Thomas S., '98..	Teacher..... Aberdeen
Robertson, Ada N., '96....	Clerk..... Helena, Mont
Schoppe, W. J. A., '95.....	Signal Service..... Buffalo, N. Y
Sproul, Alex. H., '95.....	Teacher..... Elgin, Ill
Tanzy, Hattie (Dibble), '99	Matron State Normal..... Madison
Thornber, Walter S., '99..	Asst. in Bot. and Hort., S. D. A. C
Whitehead, Bower T., '97..	Prof. of Pharmacy..... S. D. A. C

Whitten, John C., '99	.....	Prof. Hort.,..	Mo. U., Columbia, Mo
Williams, Effie (Snell), '96	.....		Madison
Wilcox, Ernest W., '96	....	Teacher	Thawville
Wolgemuth, Lee E., '94	....	Electrician	Chicago

BACHELOR OF SCIENCE. (B. S.)

Ainsworth, Cephas B., '97	Bank Clerk	.....	Estelline
Ainsworth, Howard, '98		.....	Baraboo, Wis
*Aldrich, Ellen (Roe) '89		.....
Aldrich, Irwin D., '91	Editor and Farmer	.....	Bigstone
Aldrich, John M., '88	.....	Prof. Entom'y U. Idaho,	Moscow, Io
Allan, Wm. C., '89	.....	Physician	Chicago, Ill
Allen, Hart M., '00	.....	Student	Des Moines, Ia
Allison, Wm. F., '96	.....	Farmer	Brookings
*Anderson, Clark W., '00		.....
Atkinson, Jesse C, '96	.....	Student	Champaign, Ill
Atkinson, George W., '97	.....	Topographer	Mitchell
Atkinson, Walter, '97	.....	Civil Engineer	Pittsburg, Pa
Austin, Steven E., '92	.....	Machinist	Iowa
Bagley, Susie, '01	.....	Teacher	Brookings
Bates, Edmund T., '93	.....	Farmer	Onslow, Ia
Barton, Alice E., '98	.....	Teacher	Brookings
Bacon, Nora (Updyke), '91	.....		Denver, Colo
Beck, Milton, '93	.....	Draughtsman	Detroit, Mich
Beck, Louis, '98	.....	Stationary Engineer	Deadwood
Beebe, John L., '00	.....	Student	Minneapolis, Minn
Bell, Wm. D., '91	.....	Editor	Slayton, Minn
Bentley, Wm. S., '91	.....	Physician	..... Gary
Bolles, Myrick N., '98	.....	Chemist	Columbia Univ., N. Y
Bolles, Laura Jane, '01	.....	Teacher	Berthold, N. D
Boswell, Kate L., '89	.....	Teacher	..... Estelline

*Deceased.

Boyd, Mary, '01.....	Teacher	Brookings
Boyden, Frank E., '97	Co. Supt. af Schools.....	Brookings
Boyden, Maude, (Hegeman), '97		Brookings
Brosseau, Jesse E., '01.....		Bradley
Brown, Cyrus O., '94.....	Attorney	Burwell, Neb
Brown, Ida (Dibble), '96.....		Lincoln, Neb
Brown, James A., '94	Attorney.....	Lincoln, Neb
Brown, Sara, '95	Teacher.....	Shannon City, Ia
Brooke, Grace(Lawshe), '89.....		Brookings
Bullen, Grace (Young), '97		Ashton
Carlson, Ella, '00.....	Teacher.....	St. Paul, Minn
Carlson, Esther, '00.....	Student.....	Pembina, N. D
Carter, Lewis W., '96.....	Farmer	Highmore
Chamberlain, Sarah B., '91	Physician	Chicago, Ill
Clevenger, John W., '97...	Dentist.....	Chamberlain
Colegrove, Ina May, '99...	Teacher.....	Brookings
Cornell, Harry M., '95.....	Real Estate.....	Willow City, N. D
Crane, Austin B., '91.....	Professor.....	S. D. A. C
Crane, Alice (Curtiss), '98.....		Highmore
Crane, May (Cranston), '89		Brookings
Crane, Maggie (Davidson), '98.....		Spokane, Wash
Cranston, Maggie, '01.....	Teacher.....	Osakis
Cross, Alvah G., '89		
Crowley, C. (Madden), '97		Mound City
Culhane, Michael E., '01..	Student	Brookings
Cunningham, Sara (Haber), '89.....		Spokane, Wash
Davies, Mary, '00.....	Teacher.....	Tecumseh, Neb
Davies, Sara, '00	Teacher.....	Tecumseh, Neb
Davis, Homer, '91.....	Physician.....	Genoa, Neb
Davis, Samuel H., '92.....	Farmer.....	Plankington
Day, John M., '90.....	Farmer.....	Mellette
DeLa, John W., '00.....	Teacher.....	Houghton

Dillon, Willis C., '91	..... Attorney.....	Redfield
Dibble, Hattie		
(Doughty), '91	.....	Yankton
Dodge, Fred E., '01	.....	Redfield
Doughty, Mat. W., '00	..... Student.....	Minneapolis
Downing, Jennie C., '96	..... Telephone operator.....	Brookings
Edgerton, Wm. M., '93	..... Physician.....	Faulkton
Egeberg, Hildus, '90	..... Farmer.....	Brookings
Else, John Earl, '01	.....	Doland
Eno, Durrell D., '89	..... Teacher.....	Bijou Hills
Enos, Winifred, '01	..... Teacher.....	Brookings
Erickson, Martin L., '01	..... Student.....	Minneapolis
Evans, Lina Frances, '01	..... Teacher.....	Brookings
Findeis, Phillip, '99	..... Merchant.....	Miranda
Fishback, Myra, '01	..... Student.....	Northfield, Minn
Fjerstad, Hans C., '98	..... Teacher.....	Bruce
Fourt, Fanny,		
(Shannon) '91	.....	Fairfield, Ia
Grady, Francis A., '89	..... Attorney.....	Red Lake Falls, Minn
Griffiths, David, '92	..... Dept of Agrostology...	Washington
Grattan, Paul H., '96	..... Collector.....	Elkton
Grove, Frank W., '00	..... Teacher.....	Brookings
Haasrud, Ole H., '90	..... Teacher.....	Bratsburg, Minn
Haberlein, Alice,		
(Robinson)	.....	Globe, Ariz
Hamlin, John R., Jr., '92	..... Photographer.....	Arizola, Arizona
Hann, J. B., '91	..... Farmer.....	Carthage
Harding, Albert S., '92	..... Prof. History.....	S. D. A. C
Harding, Neva,		
(Whaley) '97	.....	Brookings
Harding, Chas. J., '98	..... Teacher.....	Bruce
Harkins, Lilla A., '90	..... Prof. Dom. Science, Bozeman, Mont	
Harza, Carl, '00	..... Farmer.....	Brookings
Harza, Le Roy Francis, '01	..... Teacher.....	Brookings

Hatfield, Ira N., '92	..... Attorney	..... Lincoln, Neb
Hatton, John Henry, '01	.....	..... Groton
Hazel, Flora, (Ainsworth) '98	.....	..... Lebanon
Hazel, Wm. A., '97	..... Merchant	..... Lebanon
Hegeman, Harry A., '96	.. Capt. U. S. A.	..... Dagupan, P. I
Hegeman, Mabel I., '98	..... Student	..... Brookings
Holm, Andrew B., '96	..... Asst. in Soil Physics	..... S. D. A. C.
Hopkins, Mrs. C. G., '94	.....	..... Champaign, Ill
Hopkins, Cyril G., '90	..... Prof. Agr. U. of Ill.	..... Champaign, Ill
Hodgeson, Herbert H., '98	Student Columbia Univ.	..... N. Y. City
Houstin, Grant, '91	..... Physician	..... Joliet, Ill
Hoy, Emma, (Mathews) '96	.....	..... Brookings
Hoy, Howard H., '96	..... Asst. in Engineering	..... S. D. A. C
Husted, Harley H., '97	..... Student in Music	..... Lincoln, Neb
Irish, Henry C., '91	..... Missouri Bot. Gar.	..... St. Louis, Mo
Irish, Maggie, (Duffey) '90	.....	..... St. Louis, Mo
Jenkins, John C., '90	..... Attorney	..... Brookings
Johnson, Rhoda Maria, '01	Teacher	..... Brookings
Jolley, Wm. G., '97	.....	..... Gayville
Kendall, Clinton D., '00	..... Druggist	..... Artesian
Kendall, Leonard J., '01	..... Farmer	..... Brookings
Kenyon, Arthur H., '90	..... Real Estate	..... Spokane, Wash
Keeney, Emma A., '92	..... Physician	..... Minneapolis, Minn
Kennedy, Chas. Le Roy, '01	Bank Clerk	..... Madison
Knox, Wm. H., '98	..... Asst. in Chemistry,	..... Champaign, Ill
Knox, Elinor, (Williams) '94	.....	..... Brookings
Korstad, Hans, '86	..... Editor	..... Brookings
Korstad, Mary, '96	..... Teacher	..... Brookings
Langdon, Lillian, '01	..... Student	..... Brookings
Lawrence, Mary M., '99	..... Teacher	..... Seguin, Wash
Lawrence, Wm. H., '99	..... Bookkeeper	..... Seguin, Wash
Lawrence, Claude W., '98	..... Teacher	..... Seguin, Wash
Lawrence, Clay, '98	..... Teacher	..... Rapid City

D-4658

Lawrence, Philip A., '88..	Attorney.....	Castlewood
Lawrence, Jessie, '00.....	Teacher.....	Seguin, Wash
Larson, Lars K., '89.....	Cashier.....	Dell Rapids
Lewis, Perry, '91.....	Tinner.....	Mankato, Minn
Luke, Fred K., '94.....	Florist....	Shaw Gardens, St. Louis
Lusk, William C., '96.....	Editor.....	Yankton
Mason, Nellie, '99.....	Teacher.....	Brookings
Madden, Margaret, '92....	Teacher.....	Brookings
Mathews, Alta K., '96....	Teacher.....	White
Mathews, Eva, (Plocker) '92.....		Brookings
Mathews, Hubert B., '92..	Professor of Physics....	S. D. A. C
Mathews, Alice, '00.....	Teacher.....	Brookings
Mathews, Roscoe, '00.....	Teacher.....	Bushnell
Merrick, Mable, (Mayland) '95.....		Kansas City, Mo
Millett, Mary, (Frick) '91.....		Minneapolis
McAndrew, James E., '92..	Farmer.....	Iroquois
McElmurry, Loretta, '01,..	Teacher.....	Brookings
McKenney, Dustin W., '89	Dir. Man. Training, Homestead, Pa	
*McLouth, Ida B., '92.....		
McLouth, Benj. F., '93....	Conn. Ins. Co.....	Hartford, Conn
McLouth, Louis C., '89....	Sec. Automobile Co....	Cleveland, O
Moore, Anna, (Parker) '95.....		Brookings
Mork, Albert A., '89.....	Farmer.....	Volga
Mork, Theodore, '01.....		
Morrison, Freda C., '00....	Teacher.....	Smith
Nachtigal, Isaac, '99.....	Teacher.....	Marion
Olson, Eva, '97.....	Teacher... ..	Madison, Minn
Olson, Gustava, '00.....	Teacher.....	N. Y. City
Orcutt, Carrie, (Ross) '89.....		Northfield, Minn
Paddock, Jay M., '98.....	Farmer.....	Aurora
Parsons, Thomas S., '97...	Teacher.....	Milbank
Phillips, Florence, '01.....		Brookings

*Deceased.

- Phillips, C. Louise, '01. Brookings
 Pratt, Alice (Robinson) '91 Stenographer.... Great Falls, Mont
 Pyne, Estel W., '90..... Music Dealer..... Santa Anna, Cal
 Riemann, Edith F., '98.... Teacher..... Stanford, N. Y
 Robertson, Ada N., '93.... Clerk..... Helena, Mont
 Robertson, Clarence H., '93 Instruc. Purdue U... Lafayette, Ind
 Robertson, Edith,
 (Salisbury) '95..... Lafayette, Ind
 Rogers, Edmund, '90..... Milwaukee
 Ross, Abbie E., '89..... Missionary.... San Francisco, Cal
 Roe, Guy W., '90..... Manufacturer..... Elma, Ia
 Roe, Robert, '97..... Farmer..... Highmore
 Sasse, Ernest G., '96..... Physician..... Revillo
 Saylor, Marcus A., '86 Real Estate..... Tacoma, Wash
 Saylor, Christie (Hargis) '97..... Elmo, Mo
 Schlosser, Thos. F., '92 ... Clergyman..... Red Cloud, Neb
 Schoppe, W. J. A., '93..... Signal Service..... Buffalo, N. Y
 Scott, Anna (Wardall) '89 Physician..... Kansas City, Mo
 Sevy, Isaac B., '95 Clergyman..... Big Stone
 Sevy, Orpha (West) '97..... Big Stone
 Shuster, John W., '97 Student and Instruc., Madison. Wis
 Sherwin, Howard, '99 Civil Engineer..... Yonkers, N. Y
 Solberg, Halvor C., '91.... Prof. Mech. Eng..... S. D. A. C
 Spooner, Fannie,
 (Parker) '95 Brookings
 Spooner, Jennie..... Stevens Point, Wis
 Sproul, Alex. H., '94 Teacher..... Elgin, Ill
 Sproul, Wm. T., '96..... Draughtsman..... Rockford, Ill
 Stoner, Minnie A., '90 Prof. Do. Science..... Columbus, O
 Tanzy, Hattie, (Dibble) '94 Matron, State Normal.... Madison
 *Tanzy, Marvin F., '94.....
 Thornber, John J., '95 .. Sc. Teacher..... Tucson, Ariz
 Thornber, Wm. T., '98 Herdsman..... S. D. A. C
 *Deceased.

Thornber, Walter S., '97 .. Asst. in Bot. and Hort...	S. D. A. C
Torrence, Nettie, (Sloan) '92.....	Brookings
Towne, Addie, (Loveland) '98.....	Aberdeen
Towne, Judson R., '98..... Science Teacher.....	Aberdeen
Valleau, Vinal B., '91	Chief Clerk Am. Exp. Co., Chicago
Walter, Edith, '99	Bank Clerk..... Bruce
Walters, Wm. H., '97.....	Grain Merchant..... Bruce
Wardall, Norman M., '90..	Real Estate..... Huron
Waters, George D., '94	Teacher..... Madison
Wellman, Lulah E., '88.....	Jamestown, N. Y
West, Hugh H., '91.....	Physician..... Elgin, Ill
West, George H., '99	Teacher..... Iowa City, Ia
Whitehead, B. T., '97.....	Prof. Pharmacy..... S. D. A. C
Whitten, John C., '92.....	Prof. Hort. Mo. U.... Columbia, Mo
Wilcox, Alice E., '97	Teacher..... Thawville, Ill
Wilcox, Ernest N., '95	Teacher..... Thawville, Ill
Williams, Effie (Snell) '92	Madison
Williams, Callie T., '00.....	Brookings
Williamson, Albert, '96... Supt. of Schools.....	Oacoma
Winegar, Albert J., '92....	Asst. Chief Dr'ghtsm'n, Beloit, Wis
Wolgemuth, Lee E., '91 ...	Electrician Chicago
Work, Lloyd E., '97.....	Editor..... Fairfield, Ia
Young, Gilbert A., '94	Instr. Purdue U..... Indiana

PHARMACY GRADUATES. (PH. G.)

Briggs, Elmer E., '95.....	Drug Clerk..... Muscoda, Wis
Brosseau, Jessie E., '00.....	.....
Baldwin, Corwin B., '00... Drug Clerk.....	Parkston
Beebe, Jay L., '98.....	Student..... Minneapolis
Connell, John C., '00.....	Druggist..... Kelley, Ia

Cotter, J. C., '96....	Drug Clerk.....	Dell Rapids
Cornell, Edward, '01	Drug Clerk.....	Brookings
Clevenger, J. W., D. D. S.	Dentist.....	Chamberlain
Carr, George, '99.....	Druggist.....	Flandreau
Crowley, D. C., '99.....	Druggist.....	Mound City
Else, Earl, '00.....	Student.....	Doland
Eckert, Henry, '00	Drug Clerk.....	Watertown
Grove, Eugene, '96.....	Student.....	Chicago
George, Wm., '00....	Student.....	S. D. A. C
Hepner, Frank, '99.....	Student.....	S. D. A. C
Hart, Bertrand M. '00	Drug Clerk.....	Romona
Holsey, Joseph, '00.....	Drug Clerk.....	Minneota, Minn
Jones, Robert, '00	Drug Clerk.....	Madison
Kendall, Clint D., '99.....	Druggist....	Artesian
Knox, Wm. H., '95.....	Assistant Chemist..	Champaign, Ill
Lee, Berton, '98.....	Student.....	S. D. A. C
Lentz, Elmer, '95.....	Dentist.....	Brookings
Lindsey, Chas., '99.....	Stockman	
*Murphy, Wm., '95.....		
Moore, Thomas J., '96....	Druggist.....	Garretson
Oulton, Frank, '99	Druggist.....	Faulkton
Palmer, Horton M., '96....	Druggist.....	White
Sherwin, Frank, '96.	Farmer.....	Brookings
Shriver, E. M., '99	Drug Clerk.....	Estelline
Taylor, C. DeWitt, '99.....	Drug Clerk	
Tidball, Clyde, '01	Drug Clerk.....	Brookings
Whitehead, B. T., '95.....	Professor Pharmacy	S. D. A. C

Graduates 1901-1902.

Degrees.

BACHELOR OF SCIENCE. (B. S.).

Michael Edward Fleming.	George Washington Kephart.
William Adolph George.	Berton Emmett Lee.
Bertrand Maynard Hart.	Henry John Ramsey.
Frank Edgar Hepner	Mary Edith Thornber.
Clara Tomine Johnson.	Ole N. Trooien.
Edward Johnson.	Laura Ellen Winegar.

PHARMACY GRADUATE. (PH. G.).

Wm. Franklin Allison.	James Arthur Leighty.
Frank Edson Boyden.	Frederick Norman Morton.
Bernett Carl Christianson.	Chester Edd Pickles.
McPherson Hayter.	Henry Schnaidt.
Arthur Albricht Jarratt.	Anna Christina Schroeder.
Samuel Hall Jarvis.	John Cornelius Thomas.

Certificates.

CERTIFICATE IN ART DEPARTMENT.

Maude Goddard.	Clara Johnson.
	M. Krete Kendall.

CERTIFICATE IN COMMERCIAL SCIENCE.

Michael Edward Culhane.	Orville Hodson.
Glen Cameron.	Marshal Whaley.
Frank E. Hiltz.	Edith Witzel.

GENERAL STATEMENTS.

19

CERTIFICATE IN AMANUENSIS WORK.

Michael Edward Culhane.	J. H. Kenneth Humphrey.
Vera Dice.	Henri Parmelle.
Ferdinand Goodfellow.	Christine Severson.
Christian F. Hauge.	Lotta M. Throop.
	Roy Wilson.

CERTIFICATE IN STEAM ENGINEERING.

Carl Aanrud.	Lewis Odland.
Andrew Bamble.	Ralph E. Pafford.
Arthur Beatty.	Oscar C. Peterson.
John J. Bennett.	Oscar Peterson.
Arthur Bradberry.	Clark Palmer.
Oel Erickson.	Herman Qualley.
James Frederickson.	Lloyd Ranous.
Nels Hanson.	James Rud.
Homer Hetts.	Knud Solberg.
Roy Hunsberger.	Ralph E. Towne.
George Hofstetter.	Ole N. Trooien.
Lewis J. Kloster.	Guss Reeve.
Enos Meyer.	John Wolverton.

CERTIFICATE IN DAIRY SCIENCE.

Emil C. Artman.	William Meyers.
Elijah Bailey.	Clarence Olson.
Olaf Fundaun.	Gustave Storm.
George H. Haugen.	Joseph Smemoe.
Peder I. Haugen	Fred H. Stark.
Peter Hanson.	Edward J. Stark.
Walter Jackson.	August Vossberg.
Clifford D. Johnson.	Clarence Wallis.
Albert Lindahl.	G. M. Vermilya.
Edward Lindahl.	Herbert Goyke.

CERTIFICATE IN AGRICULTURE.

Erick Carlson.

Joseph Lind.

Willis C. Graham.

Roy A. Newell.

Oscar Johnson.

Carl Pultz.

William J. Snoxell.

CERTIFICATE IN DOMESTIC SCIENCE.

Marietta Knox.

Altha J. Millett.

Mary Smomoe.



List of Students.

1901-'02

NAME.	ADDRESS.
Aanrud, Carl	Hanson
Aga, Godfrey	Dell Rapids
Albertson, Faye	Volga
Aldrich, Inez	Brookings
Alexander, John C.	Elkton
Alexander, Sarah	Mound City
Allen, Harry	Brookings
Allison, Clarence	Brookings
Allison, Harold	Brookings
Allison, Wm. F.	Brookings
Almond, Fred C.	Clear Lake
Amley, Ed. P.	Ipswich
Alrick, Ida B.	Brookings
Alrick, Lewis H.	Brookings
Ammundson, Millie	Estelline
Anderson, Andrew E.	Deuel
Anderson, Walter P.	Brookings
Anderson, Arthur H.	Brandt
Anderson, Mildred D.	Brookings
Anderson, Ernest A.	Marion
Anderson, Howard C.	Brookings
Anderson, Julia	Brandt
Anderson, Peter	Hanson
Andrus, H. S.	Aberdeen
Armstrong, Frank G.	De Smet
Artman, Emil	Mazepa
Atkins, Wilber	Brookings
Atkinson, Albert	White
Backhaus, P. H.	Madison
Bagley, Edw.	Brookings

2114

2258

Bailey, Elijah.....	Garden City
Bamble, Andrew.....	Grass
Barkley, E. F.....	Manchester
Beatty, A. C.....	Brookings
Beatty, J. W.....	Brookings
Beatty, Lois.....	Brookings
Benedict, Lyle D.....	Milbank
Bennett, J. J.....	Artesian
Benson, Emil.....	Brookings
Bergeim, Hilda.....	Brookings
Berry, Lessie.....	Willow Lake
Bielski, Richard.....	Howard
Biggar, Wm. L.....	Aurora
Billings, Lewis.....	Langford
2150 Binford, A. A.....	Brookings
2151 Binford, W. W.....	Brookings
Binford, Mrs. A. L.....	Brookings
Binford, Mrs. I. S.....	Brookings
Binnewies, Edward.....	McCurdy
Binnewies, Mabel.....	McCurdy
Blackstone, Harry.....	Arlington
Bohrson, Merrick.....	Langford
2263 Bonesteel, Bee N.....	Brookings
Booth, J. Carl.....	Arlington
Bork, Fred.....	Reville
Bortnem, Theodore.....	Brookings
Bowder, John E.....	Bruce
Bower, Laura G.....	Keystone
Boyden, F. E.....	Brookings
2264 Boyden, Guy L.....	Brookings
Bradberry, Arthur.....	Parker
Branen, Maud.....	Sheridan, Ill
Breed, Ray.. ..	Brookings
Brosseau, Jasper A.....	Frankfort
Bryden, David.....	Faulkton
Brown, Geo. E.....	Sioux Falls

to here

GENERAL STATEMENTS.

	Bullock, Chas.....	Osceola
	Bunde, A. O.....	Lyons
Q 42	Burch, Walter S.....	Howard
	Busch, G. E.....	Lancaster
	Bushnell, Maude.....	Brookings
	Burnstad, Carl.....	Dexter
	Cadwell, Guy R.....	Moritz
	Caldow, W. T.....	Brookings
	Campbell, John E.....	Highmore
	Cameron, Glen.....	Artesian
	Cameron, Roy.....	Brookings
Q 271	Carpenter, Abbie J.....	Brookings
	Carpenter, Clarence H.....	Brookings
	Carpenter, Bessie.....	Watertown
	Carlson, Eric H.....	Dalesburg
	Carson, R. G.....	Scotland
	Cassady, Luella.....	Valley Springs
	Childs, C. LeRoy.....	Brookings
	Christianson, Bernett.....	Volga
	Christianson, Ove.....	Erwin
	Clarke, Blanche.....	Brookings
	Clark, Roy.....	Howard
	Clarke, Charley.....	Aurora
	Cole, J. S.....	Gary
	Cole, Roy L.....	Frankfort
	Colegrove, Letta.....	Brookings
	Coleman, Leon.....	Flandreau
	Coller, Fred.....	Brookings
	Conroy, Frank.....	Bancroft
	Comstock, Roy.....	Brookings
133	Cooley, Chester A.....	Garretson
Q 225	Cooley, W. N.....	Garretson
	Cooper, Clifford G.....	Brookings
	Cotes, Frank R.....	Talcott
	Coulson, Henry.....	Hetland

Crothers, Laura.....	Brookings
Cuckow, Fred W.....	Brookings
Culhane, M. E.....	Elkton
Dahl, Milan R.....	Flandreau
Davis, Clifford W.....	White
Davis, Fannie.....	Brookings
Davis, Hugh M.....	Brookings
Davis, Richard B.....	Brookings
Davis, Philip.....	White
Davis, Rufus R.....	Hitchcock
Darnall, Roy.....	Brookings
Deragisch, Anthony N.....	Ramona
Devaney, Joseph H.....	Dell Rapids
Digre, Petra.....	Hendricks, Minn
Digre, Christie.....	Hendricks, Minn
278 Drew, Arthur W.....	Tempe, Arizona
Druey, Grace.....	Brookings
Dice, Vera.....	Clark
Duggan, S. M.....	Reels, Iowa
Dunn, Harvey T.....	Manchester
Dykins, Edna C.....	Ramona
Dykins, Frank A.....	Ramona
Egeberg, Nora.....	Brookings
Elliott, Roy K.....	Brookings
Elliott, Howard.....	Clark
Elston, Robert.....	Bushnell
Erickson, Ida.....	Calmar, Iowa
Erickson, Emma.....	Orland
Erickson, John.....	Trent
Erickson, O. A.....	Trent
Ernster, John.....	Brookings
Evans, Edna V.....	Brookings
Everhard, Luta.....	Highmore
8282 Fassett, Della.....	Brookings
Finnerty, James.....	Helmick

	Fjerstad, Alman.....	Estelline
Q130	Fjerstad, Carl O.....	Estelline
18283	Fishback, Van	Brookings
	Fleming, M. E.....	Bryant
	Frederickson, James A.....	Viborg
Q129	Frick, Harry.....	Glen
	Frislie, Mabel.....	Delmage
	Fudness, Gilbert G.....	Lennox
	Fulkerson, Vincent.....	Brookings
	Fuller, Robert.....	De Smet
	Fundaun, Olaf.....	Baltic
	Gagel, Babette.....	Brookings
	Gaukel, Charles.....	Aurora
	George, Wm. A.....	Gettysburg
	Gerber, Godfrey.....	Lennox
	Gilbertson, Olaf.....	Irene
Q145	Goddard, Maude.....	Keystone
	Goehring, Charles J.....	Freeman
	Goodfellow, Ferd.....	Brookings
	Goodfellow, Walter.....	Brookings
	Goodoien, Edw. J.....	Hendricks, Minn
	Gorman, Edw. B.....	Castlewood
	Goyke, Herbert R.....	St. Lawrence
	Graham, Willis C.....	Beresford
	Greene, Oscar L.....	Artesian
	Grimme, Ida	Howard
	Griffith, Edwin.....	McCook
130	Grove, Mary I.....	Brookings
	Grove, Robert.....	Brookings
	Grovern, Norman.....	Volga
	Gunnison, Viola.....	Bancroft
Q132	Hage, C. F.....	Toronto
	Haggart, Louis.....	Aurora
	Hanson, Carl J.....	Hendricks, Minn
	Hanson, Hilda N.....	Hendricks, Minn

	Hanson, Dorothy.....	Benton
	Hanson, Henry.....	Henry
	Hanson, Mabel.....	Brookings
	Hanson, Nils.....	Hendricks, Minn
	Hanson, Peter.....	De Smet
	Hanson, Walter H.....	Poinsett
	Hart, B. M.....	Doland
	Hartmann, Paul W.....	Brookings
26	Harza, Mable C.....	Brookings
	Hauge, C. F.....	Aberdeen
	Haugen, P. I.....	Maland
	Haugen, Geo. H.....	Tracy, Minn
	Hatfield, Walter.....	Huron
	Haven, F. G.....	Mellette
	Haverberg, J. T.....	Centerville
	Hayter, McPherson.....	Artesian
	Healey, Thos. J.....	Indwood, Iowa
	Heckman, Alice.....	Clark
	Heeren, Daniel.....	Chancellor
2291	Hendricks, J. Lyle.....	Brookings
	Hendricks, L. E.....	Brookings
	Hepner, Frank E.....	Brookings
	Heston, Chas. E.....	Brookings
	Heston, Edw. C.....	Brookings
	Hetts, Homer P.....	Spencer
	Heydlauff, Heber.....	Verdon
	Hilts, Frank E.....	Milbank
251	Hilton, Harry D.....	Bridgewater
	Hoard, J. S.....	Alcester
	Hodson, Orville A.....	Artesian
	Hoellwarth, Christ.....	Freeman
2295	Hofstetter, George.....	Bard
	Hoffman, Otto W.....	Corona
	Holt, Olaf.....	Hazel
	Holland, Chris.....	Ward
216	Hollister, Arthur R.....	Bryant

	Hooker, Henry F.....	White
	Hoover, Homer.....	Brookings
	Hopkins, Harry E.....	Estelline
	Hovey, Carl.....	Brookings
Q 297	Howell, John E.....	Artesian
Q 152	Howg, Edwin N.....	Effington
	Humphrey, J. H. K.....	Brookings
	Hubbart, Minnie E.....	Brookings
	Hunsberger, R. R.....	Columbia
	Hurlbut, Louis N.....	Raymond
	Husaboe, Earl F.....	Trent
	Hyde, David N.....	Vermillion
	Hyde, Winifred R.....	Brookings
Q 105	Ihde, H. C.....	Warner
	Iverson, Isaac A.....	Rondell
	Iverson, Ida.....	Brookings
	Ingvalson, Alfred.....	Flandreau
	Jackson, Walter.....	Flandreau
	Jarratt, Arthur A.....	Colman
	Janett, Julius.....	Ramona
	Jarvis, S. Hall.....	Faulkton
	Jensen, Matilda.....	Tyler, Minn
	Jesme, Emma.....	Volga
	Johnson, Albert A.....	Nutley
Q 31	Johnson, Aaron G.....	Athelwold
	Johnson, Albert.....	Brookings
	Johnson, Oscar.....	Brookings
	Johnson, Andrew K.....	Brookings
	Johnson, Austin M.....	Brookings
	Johnston, Chas. W.....	Willow Lake
Q 133	Johnson, Carl L.....	Norway Lake, Minn
	Johnson, Clara.....	Brookings
	Johnson, Clifford D.....	Broadland
	Johnson, Edw.....	Toronto
	Johnson, Rudolph.....	Volga

Johnson, Harriet M.....	Brookings
Johnson, Mary Ameda.....	Brookings
Johnson, Isaac B.....	Brookings
Johnson, John P.....	Heron Lake, Minn
Jones, Ethel	Bruce
Jones, J. Eldon.....	Miller
Jones, J. L.....	St. Lawrence
Keck, Paul.....	Flandreau
Kellough, Lewis.....	Miller
Kelley, John W.....	Brookings
Kelton, John R.....	Henry
Kendall, Krete.....	Brookings
Kinne, Nelia.....	Erie, Kansas
Kloster, Louis I.....	Clark
Knadle, Charles	Vienna
Knadle, Ed.....	Vienna
Knodt, Will C.....	Hartford
Knox, Arthur H	Alpena
Knox, Marietta.....	Alpena
Koch, Albert	Eureka
2 15-9 Koch, Arthur.....	Eureka
Koerner, John J.....	Freeman
Koerner, Jacob	Freeman
Koelle, Walter R.....	Reville
Kringen, E. G.....	Baltic
Knutson, Lena.....	Lake Preston
Ladd, Horace.....	Brookings
Ladd, Mary F.....	Brookings
Lambert, Paul W.....	Lyons
Lamb, O. V	Brookings
Lane, Marion	Reville
Langdon, Alice.....	Parker
Langdon, Lillian	Parker
Larson, Andrew T.....	Volga
Larson, Henry.....	McCurdy

GENERAL STATEMENTS.

29

Larson, Nora.....	Volga
Latta, John	Pierre
29 / Law, Fred J.....	Dell Rapids
24 Lawshe, Fred E.....	Brookings
Ledahl, Carl L.....	Lake Preston
Lee, Berton E	Brookings
2140 Lee, Earl.....	Brookings
Lee, Elmer L.....	Baltic
Lee, William N.....	Baltic
Leekley, Aurora L.....	Brookings
Leighty, James A	Carthage
Lewis, Leander J.....	Lake Preston
Lieske, Ursula	Canistota
Lind, Joseph.....	Centerville
Lindahl, Edw.....	Strandburg
Lindahl, Albert.....	Strandburg
Lindley, W. W	Leola
Linskog, Ella.....	Bruce
Littler, Clinton.....	Lake Preston
22 Lockhart, Agnes A... ..	Brookings
Lofstad, Alma.....	Poinsett
Lohr, Eva V. E.....	Estelline
Loomis, Leon E.....	Alpena
Loucks, Anna Y.....	Altruria
Lovejoy, Arthur L.....	Amhurst
Lumby, Charles.....	Watertown
McCarl, Harry.....	Brookings
McCarl, Ellsworth.....	Brookings
McCarty, Albert I.....	Cavour
2293 McCarty, Geo.....	Cavour
McCarthy, James S.....	Henry
McCrea, Bessie I.....	Bonilla
McCurdy, Walter.....	Letcher
22 McElmurry, Rilla.....	Brookings
McGarry, L. R.....	Aurora

McGrew, Harry	Centerville
McKeown, Earl C	Elkton
Macomber, May L	Cass City, Mich
Malamphy, Clifton E	Flandreau
Maloney, John J	Elkton
Mattern, Henry J	Baltic
Mattice, Albert T	Sedro, Washington
Marshall, Ray C	Ipswich
Martel, Philip	Eureka
Martinson, Chas. E	Brookings
Mathews, Harry E	Brookings
Mathews, Roscoe	Brookings
Meeske, L. S.	Argo
Melvin, Edward	Cavour
Meyer, Enos	Ethan
Meyer, Gregory	Ethan
Meyers, Wm. G. P.	Aberdeen
Miller, Mable E	Volga
20, 150 Miller, Ralph L	Brookings
Miller, S. P.	Brookings
Millett, Alta J	Hudson
Millett, Frank	Hudson
Moffatt, Margaret	Brookings
Moore, Francis E	Colman
Morstad, Edw.	Lake Preston
Morton, Fred N	Toronto
2250 Morton, Grant	Toronto
Morrison, B. H	Tabor, Iowa
Mosimann, R. E	Kidder
Mulder, Jacob W	Harrison
222 Murphy, Matthew W	Brookings
Murray, Fred G	Marvin
Nash, Nellie	Willow Lake
Nelson, Bertha	Volga
Nelson, Hannah	Estelline

Nelson, John.....	Harlan, Iowa
Nelson, Arthur.....	Harlan, Iowa
Nielsen, Emil T.....	Viborg
Neilson, Geo. M.....	Hetland
Nesbit, Eva L.....	Volga
Newell, Roy A.....	Alcester
<i>D16</i> Newton, Chas. H.....	White
Noble, Arthur G.....	Centerville
Norton, F. A.....	Centerville
Nystrom, Gustaf A.....	Athelwold
Odegard, Augusta.....	Brookings
Odland, Lewis.....	Hurley
Oien, August.....	Hendricks, Minn
Oldberg, Henry.....	Brookings
Oldre, Martin.....	Kenneth, Minn
Olson, Ames G.....	Hendricks, Minn
Olson, Clarence.....	Sherman
Olson, Harry L.....	Brookings
Olson, Herman O.....	Flandreau
Olson, Gustava M.....	Colman
Olson, Lillie.....	Brookings
Olsen, Orrin.....	Brookings
Olston, Ed. C.....	Lake Preston
<i>D111</i> Omodt, Minnie.....	Brookings
Orth, Dora.....	Flandreau
Orth, Elsie A.....	Flandreau
<i>D103</i> Ortmyer, Frank.....	Howard
Otterness, J. M.....	Brookings
Otterness, Lars.....	Brookings
Overby, Ella.....	Mellette
Owen, John L.....	Brookings
Owen, Sarah.....	Brookings
Oyan, B. J.....	Baltic
Pafford, Ralph.....	Faulkton
Palm, Anna M.....	Poinsett

	Palm, Ellen A.....	Poinsett
	Palmer, Clark A.....	Hetland
	Palmer, Myrtle C.....	Brookings
	Parmelie, Henri.....	Arlington
	Peirce, E. Esther.....	Brookings
	Peirce, Ruth.....	Brookings
281	Peirce, Robert.....	Brookings
	Peterson, Alfred B.....	Brookings
	Peterson, Arthur.....	Brookings
	Peterson, John.....	Irene
	Peterson, Oscar C.....	Brandt
	Peterson, Oscar.....	Irene
	Pfefferle, Alice E.....	New Ulm, Minn
	Pickell, Lillian E.....	Carthage
	Pickles, Chester E.....	Clark
	Phillips, Florence.....	Brookings
	Phillips, Louise.....	Brookings
	Pike, E. E.....	Aurora
213	Polley, Lovette M.....	Little Rock, Iowa
C282	Pond, Hoyt A.....	Brookings
213	Port, August G.....	Milbank
	Pretzer, Clara P.....	Brookings
	Prosser, Will I.....	Hurley
	Pultz, Carl.....	Lake Preston
	Pultz, Lizzie.....	Lake Preston
	Purcell, Rosa M.....	Faulton
	Purkey, B. S.....	Tacoma, Wash
	Quael, Bertha.....	Brookings
	Qualley, Herman.....	Stoughton, Wis
	Rahn, Henry.....	Brookings
	Ramsey, Henry.....	Brookings
	Ranous, Lloyd.....	Milbank
	Reeve, Gus.....	Corona
	Reeve, A. R.....	Corona
2134	Reich, Rose M.....	Tunnel City, Wis

GENERAL STATEMENTS.

33

Reimer, Gustave.....	Huron
Reynolds, L. T.....	Montezuma, Iowa
Reynolds, L. F.....	Sheldon, Iowa
Ribstein, J. F.	Bruce
Rice, Ella.....	Estelline
Rise, H. K.....	Moe
Roecker, Wm.....	Clear Lake
Rogness, John A.....	Astoria
Rogness, Ole P.....	Astoria
Ronning, Oscar E.....	Brookings
Roth, Daisy	Brookings
Roth, Guy	Brookings
Rothfork, John	Elkton
Rowen, Howard C.....	Parker
Rud, James.....	Arlington
Rude, Geo. O.....	Brookings
Rund, Thomas T.....	Hazel
<i>24</i> Runey, Olive Madge.....	Brookings
Ruth, Thomas H.....	De Smet
Sanborn, Ethel.....	Clear Lake
Sanborn, Grace	Clear Lake
<i>2164</i> Sanderson, Everett G.....	Aurora
Sannes, Christine.....	Lily
Sarvis, Hubert C.....	Highmore
Sarvis, R J....	Highmore
Sayre, John M.....	Bendare
<i>24</i> Schaphorst, Wm.....	Brookings
Schliep, Will J.....	Owatonna, Minn
Schlosser, Mark W.....	Marion
Schnaidt, Henry	Menno
Schnaidt, Wm.....	Menno
Schoepp, Len J.....	Henry
Schrepel, Samuel P.....	Madison
Schroeder, Anna.....	Howard
Schultz, Jennie.....	Aurora

GENERAL STATEMENTS.

33

Reimer, Gustave.....	Huron
Reynolds, L. T.....	Montezuma, Iowa
Reynolds, L. F.....	Sheldon, Iowa
Ribstein, J. F.	Bruce
Rice, Ella.....	Estelline
Rise, H. K.....	Moe
Roecker, Wm.....	Clear Lake
Rogness, John A.....	Astoria
Rogness, Ole P.....	Astoria
Ronning, Oscar E.....	Brookings
Roth, Daisy	Brookings
Roth, Guy	Brookings
Rothfork, John	Elkton
Rowen, Howard C.....	Parker
Rud, James.....	Arlington
Rude, Geo. O.....	Brookings
Rund, Thomas T.....	Hazel
<i>24</i> Runey, Olive Madge.....	Brookings
Ruth, Thomas H.....	De Smet
Sanborn, Ethel.....	Clear Lake
Sanborn, Grace	Clear Lake
<i>2164</i> Sanderson, Everett G.....	Aurora
Sannes, Christine.....	Lily
Sarvis, Hubert C.....	Highmore
Sarvis, R J.....	Highmore
Sayre, John M.....	Bendare
<i>24</i> Schaphorst, Wm.....	Brookings
Schliep, Will J.....	Owatonna, Minn
Schlosser, Mark W.....	Marion
Schnaidt, Henry	Menno
Schnaidt, Wm.....	Menno
Schoepp, Len J.....	Henry
Schrepel, Samuel P.....	Madison
Schroeder, Anna.....	Howard
Schultz, Jennie.....	Aurora

Scriver, Althea.....	Dell Rapids
2180 Seeger, Adolph M.....	Marietta, Minn
Seeley, James A.....	Bonilla
Seeley, John C.....	Bonilla
Seide, Louise W. M.....	Milbank
Severson, Christine.....	Brookings
Shanks, Harry R.....	Castlewood
Shannon, Sydney R.....	Milbank
Shaw, Guy L.....	Oldham
Shaw, W. B.....	Oldham
Shaw, Nellie M.....	Prescott, Wis
Sherwin, Ralph L.....	Brookings
Shuman, Belle.....	Brookings
Simmons, Gordon.....	Verdon
Skeim, Gjert C.....	Qual, Minn
215 Skiff, Ethel M.....	Brookings
2218 Slocum, Ina.....	Herreid
Smemoe, Joseph.....	Sherman
Smemoe, Mary.....	Sherman
Smith, Francis E.....	Milbank
Smith, Nellie D.....	Brookings
Smith, Pearl R.....	Hitchcock
Smith, Wm.....	Wilmot
Smith, Will G.....	Sioux Falls
Snoxell, W. J.....	Mellette
Sneve, Elizabeth M.....	Brookings
Sneve, Olga M.....	Brookings
Sneve, Sarah E.....	Brookings
Solberg, Knud B.....	Freeman
Soreng, Edgar M.....	Dexter
Spurling, Roy A.....	Brookings
Stark, Ed. J.....	Salem
Stark, Fred H.....	Salem
Stearns, Chas. H.....	Brookings
Stegner, Guy F.....	Aurora
Steiner, Fred W.....	Woonsocket

Steensland, Rudolph.....	Canton
Stevenson, Clara B.....	Brookings
Storm, Gustov.....	Ethan
Stokes, Guy P.....	Flandreau
Struck, Augusta.....	Lake Preston
Struck, Emilie E.....	Lake Preston
Sundet, Julius O.....	Brookings
Sundet, Louis.....	Brookings
Suelflow, Martin.....	White Lake
Sundstrom, Henning.....	Beresford
Sundstrom, Otto.....	Beresford
Svaren, Hannah.....	Volga
Svarvari, Rudolph.....	Poinsett
Swanson, Mary.....	Ramsey
Swering, Flora.....	Brookings
Swift, Clinton.....	Henry
Thirsk, James W.....	Milbank
Thogerson, A. A.....	Yankton
Thogerson, Henry.....	Yankton
Thomas, John C.....	Freeman
Thompson, Clarence.....	Dell Rapids
2123 Thompson, Gotfried.....	Dell Rapids
Thompson, Tillman.....	Dell Rapids
Thompson, Orril T.....	Bruce
Thompson, Thos. F.....	Beresford
Thornber, Adam P.....	Brookings
Thornber, M. Edith.....	Brookings
Q154 Thornber, Jessie B.....	Brookings
Tofte, Svenning.....	Brookings
Towne, Ralph E.....	Mellette
Tracy, Earle H.....	Sioux Falls
Tralle, Clay Henry.....	Yankton
Tripp, Jas. S.....	Alpena
Trooien, Ole N.....	Prairie Farm
Throop, Lotta N.....	Brookings

Q 118	Trygstad, Carl	Brookings
	Tschirley, Herman	Flensburg
	Tuck, Geo. E.	Watertown
	Tucker, Leo	Brookings
	Tucker, Bessie C.	Brookings
	Tucker, Bertha B.	Brookings
	Tullar, Elmer N.	Lennox
	Trumm, Robert E.	Hayti
	Ust, John N.	Brookings
	Vaughn, Victor	Bangor, Wis
	Vermillia, G. M.	Mason City, Iowa
	Vickers, Vera V	Council Bluffs, Iowa
	Vossberg, August C.	Hartford
	Waldron, John P	Cavour
Q 5	Walker, Warren	Howard
	Wallis, Clarence R.	Riverside
	Walter, L. E.	Alexandria, Minn
	Walters, Daisy	Bruce
	Wandel, Sam A.	McCurdy
	Ward, Sheldon	Yankton
C 202	Way, James G.	Brookings
	Weaver, Ed. L.	Brookings
	Weaver, Ethel B	Brookings
	Weinrich, Frank H.	Argo
	Weinrich, W. W.	Argo
	Weisflock, Theodore	Kimball
	Westcott, Geo. R.	Brookings
Q 251	Westcott, Ruth M.	Brookings
	Wescott, Oscar W.	Cardington, Ohio
	Wetterberg, Oscar	Arlington
	Wier, Herman	Hookoker
	Whaley, M. H.	De Smet
	Whistler, Fred C.	Watertown
	White, Chas. B.	Dos Cabezos, Arizona

GENERAL STATEMENTS.

37

White, R. J.....	Brookings
Whiting, Florence.....	Brookings
Whitman, Ethel L.....	Loyalton
Wheeler, Mae.....	Arlington
Williams, Geo, S.....	Volga
Williams, H. A.....	Brookings
25 Williams, Percy.....	Brookings
Williams, T. E.....	White Lake
Wills, Wm. R.....	Brookings
Wilson, J. D. Alva.....	Brookings
Wilson, Roy O.....	Brookings
Windedahl, H. O.....	Carthage
Winegar, Laura E.....	Brookings
Witzel, Edith.....	Brookings
2129 Wolkow, Emma... ..	Erwin
Wolverton, John A.....	Doland
Wood, Raymond M.....	Milbank
Woodward, Lotta.....	Brookings
Youngberg, Guy E.....	Volga
Youngberg, Mamie V.....	Volga
252 Young, Alfred J.....	Athol
Total.....	609

Student Organizations.

Industrial Collegian.

Howard C. Anderson..... Editor-in-Chief
Fred C. Almond..... Business Manager

Athletic Association.

Thos. H. Ruth..... President
Lawrence R. McGarry..... Secretary
Clarence Thompson..... Treasurer

Oratorical Association.

Esther Peirce..... President
Ethel Sanborn..... Secretary
Shirley Miller..... President W. L. of Oratory

First Regiment Band.

J. P. Mann..... Leader and Manager

Young Men's Christian Association.

R. J. Sarvis..... President
Harry L. Allen..... Secretary

Athenian Literary Society.

Fred W. Cuckow..... President
Minnie Hubbart..... Secretary

Miltonian Literary Society.

Shirley Miller..... President
Maude Bushnell..... Secretary

Eclectic Literary Society.

Vincent Fulkerson..... President
Grace Sanborn..... Secretary

Franklin Literary Society.

Arthur Beatty..... President
Chas. Bullock..... Secretary

Military Roster.

GUSTAV REIMER, SECOND LIEUTENANT, FIRST S. D. V.,
Acting Commandant.

Commissioned Staff.

Homer S. Andrus..... Major and Dept. Adjutant
Walter S. Burch..... 1st Lieut. and Batt. Adjutant

Non-Commissioned Staff.

Christian F. Hage..... Sergeant Major
Arthur E. Koch..... Color Sergeant
Gotfried Thompson..... Musician

INFANTRY.

Company A.

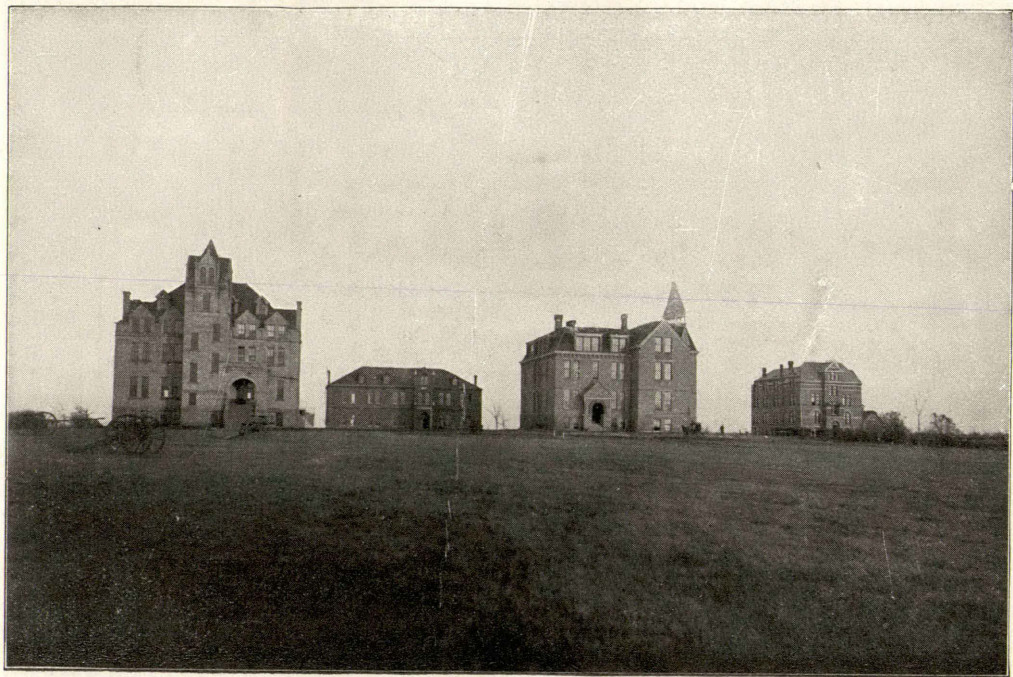
L. Erving Walter..... Captain
Walter S. Burch..... 1st Lieutenant
Arthur W. Drew..... 2nd Lieutenant
Harry Allen..... 1st Sergeant
Ames Olson..... 2nd Sergeant
Carl O. Fjerstad..... 3rd Sergeant

Company B.

Albert A. Johnson..... Captain
Tillman Thompson..... 1st Lieutenant
August G. Port..... 2nd Lieutenant
Sherman Duggan..... 1st Sergeant
Carl O. Fjerstad..... 2nd Sergeant
Ralph Miller..... 3rd Sergeant

Part Two.

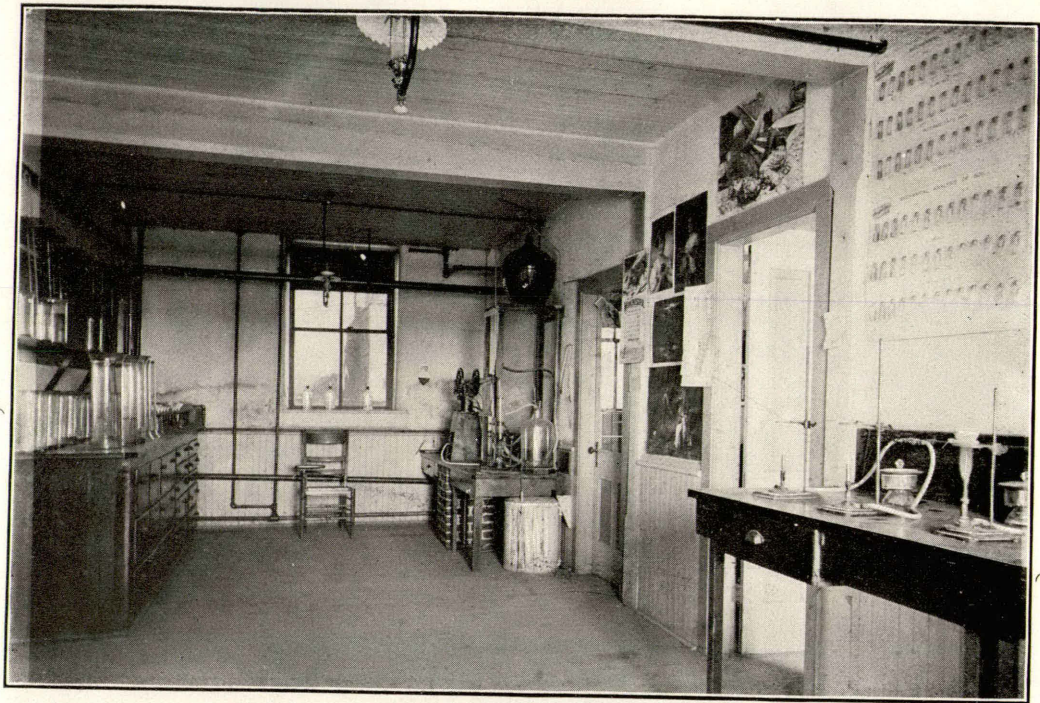
Illustrations.



A VIEW OF THE CAMPUS.



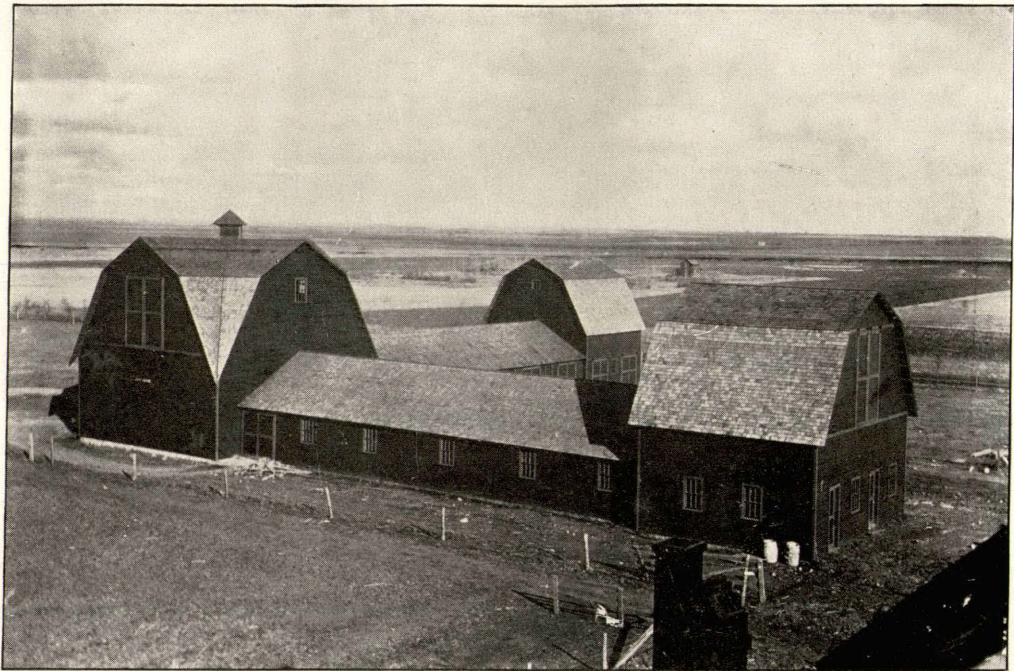
THE EXPERIMENT STATION CHEMICAL LABORATORY.



EXPERIMENT STATION SOIL, PHYSICS LABORATORY.



SOIL, PHYSICS APPARATUS.



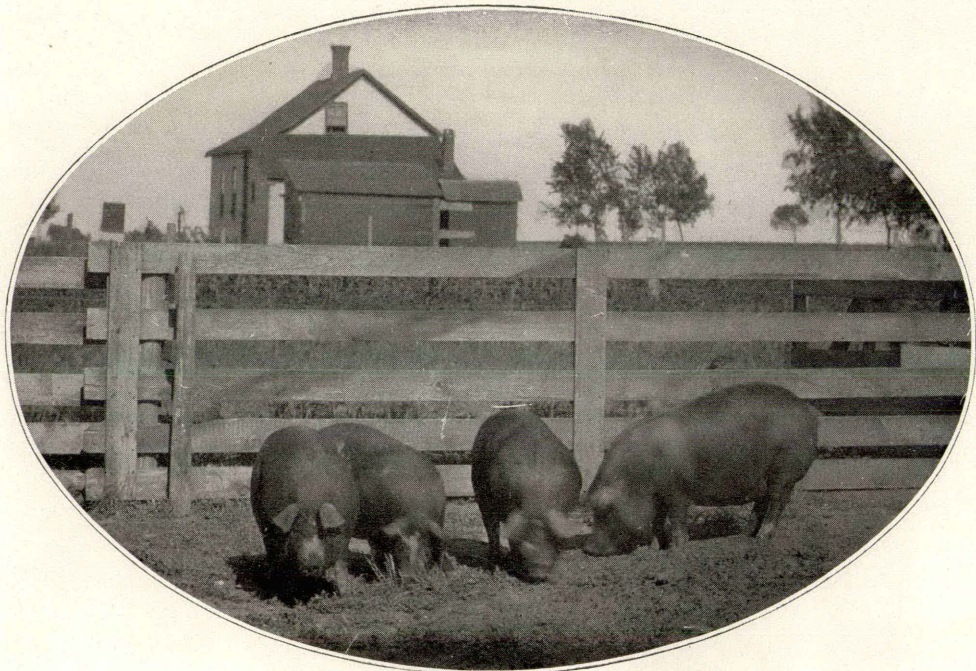
THE SHEEP BARN.



REPRESENTATIVES OF THE COLLEGE HERD.



SHROPSHIRE AND HAMPSHIRE SHEEP.



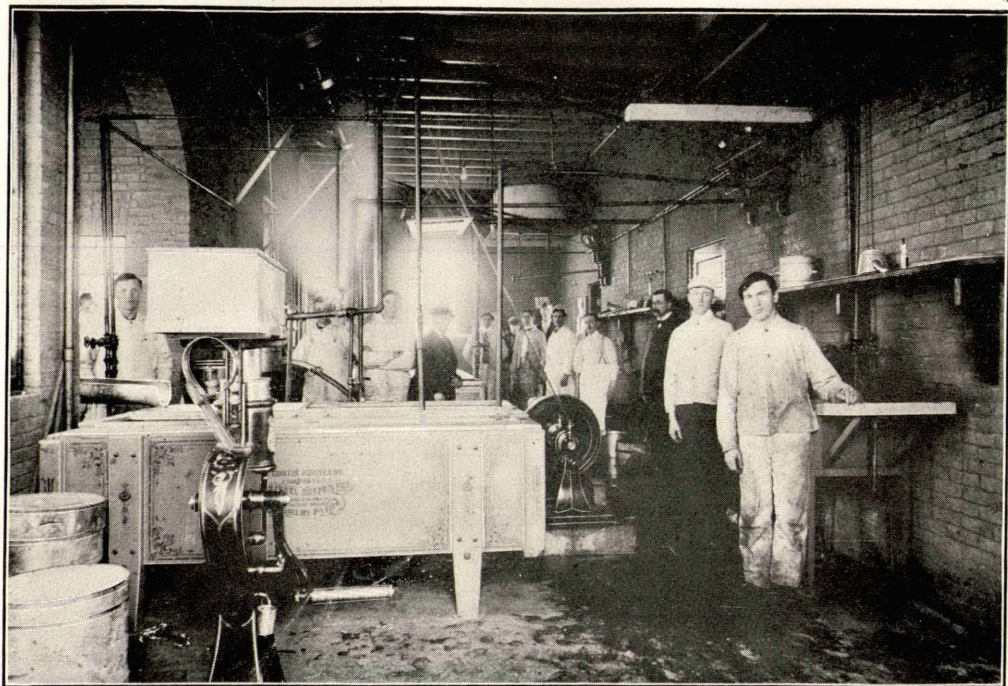
POLAND CHINA HOGS.



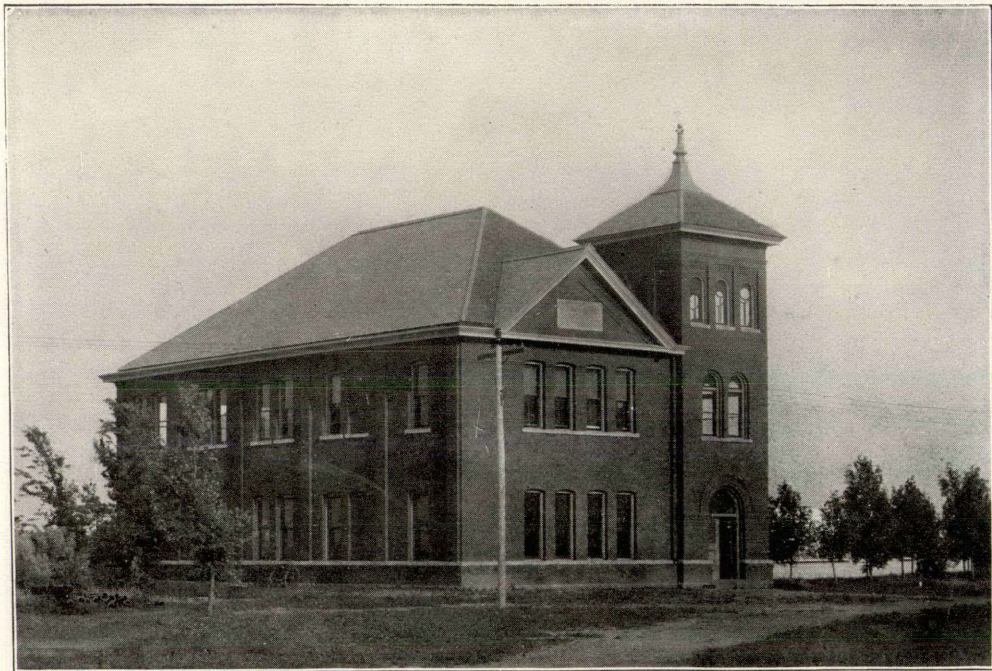
THE CREAMERY.



TESTING MILK.



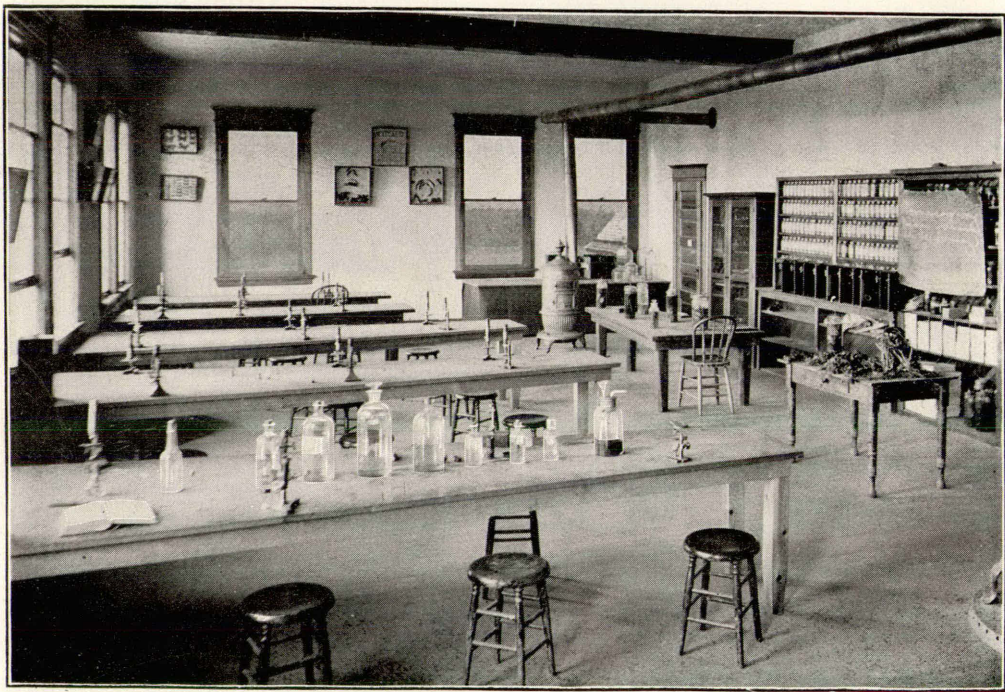
CLASS IN DAIRYING.



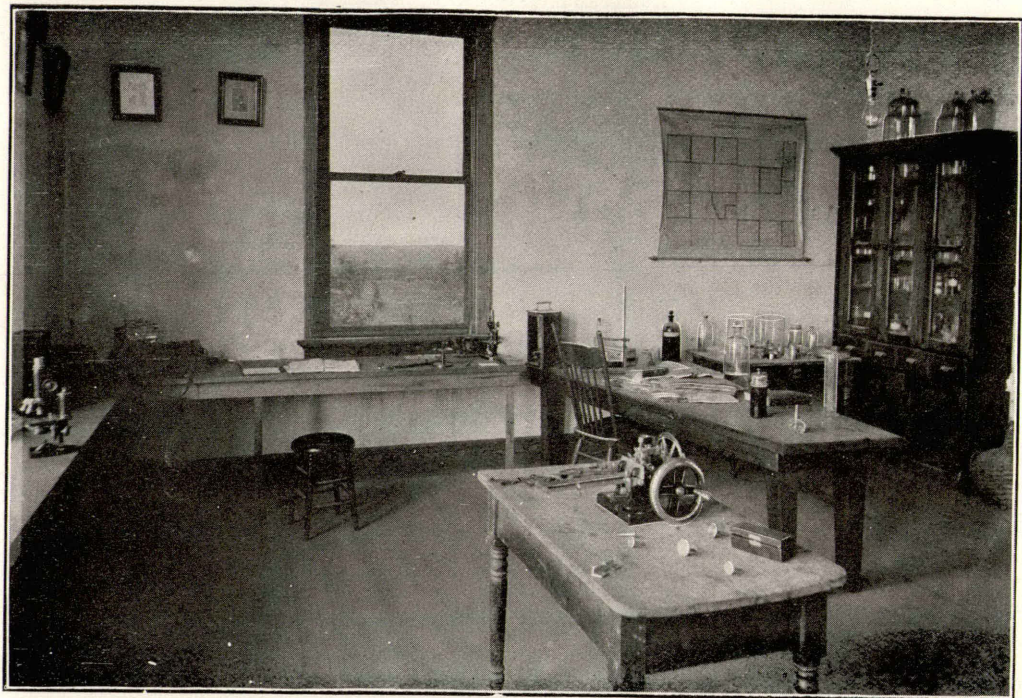
THE NEW PLANT-BREEDING BUILDING.



AN INTERIOR VIEW OF THE GREEN-HOUSE.



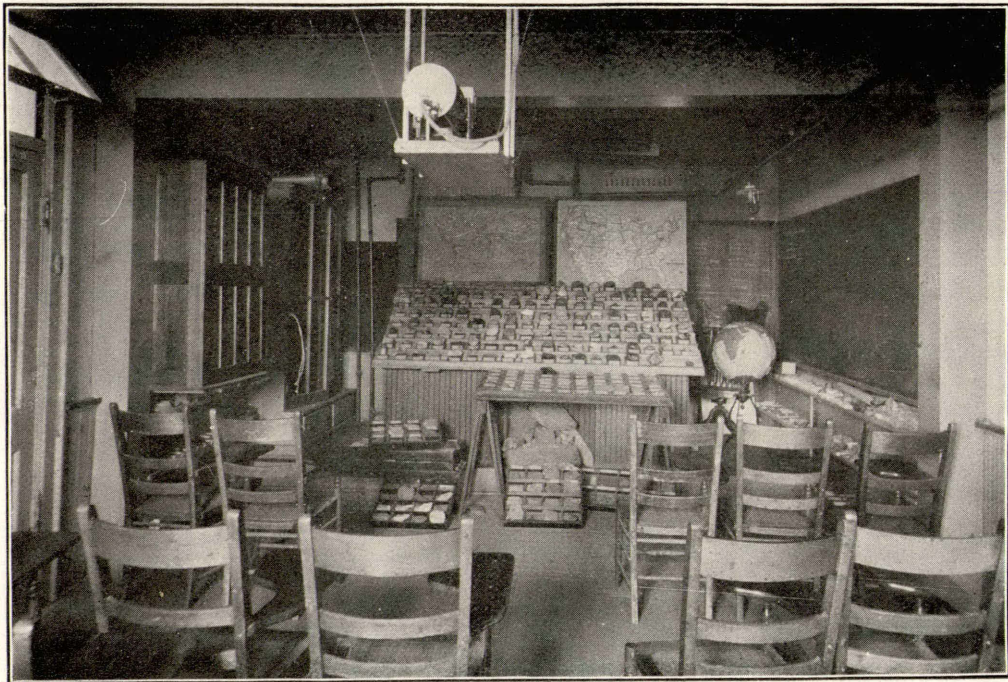
THE BOTANICAL LABORATORY.



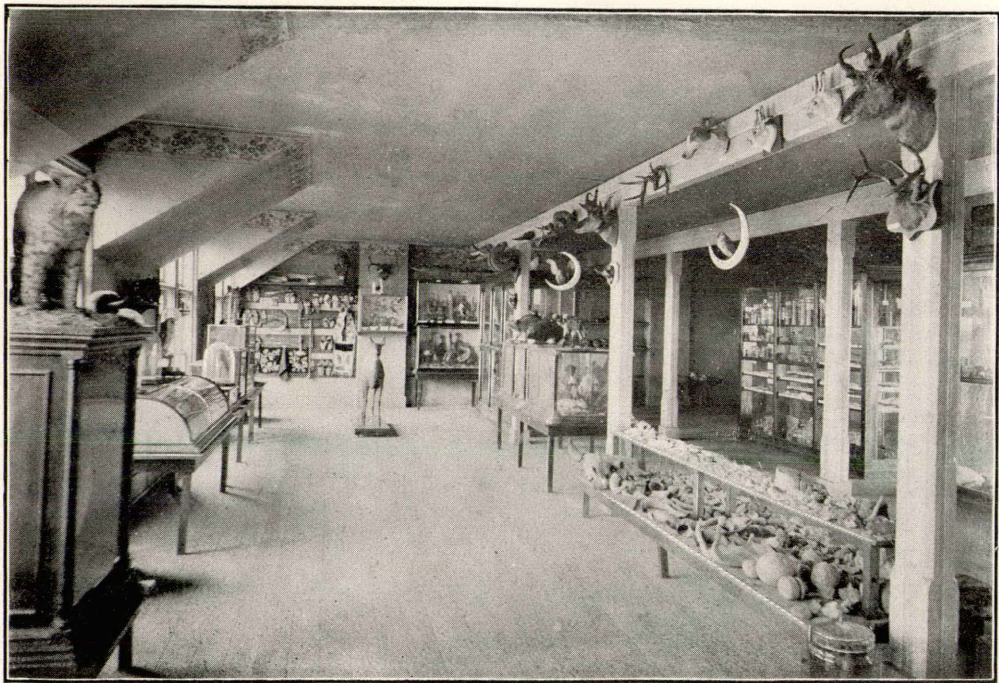
THE ADVANCED BOTANICAL LABORATORY.



THE CHEMICAL LABORATORY.



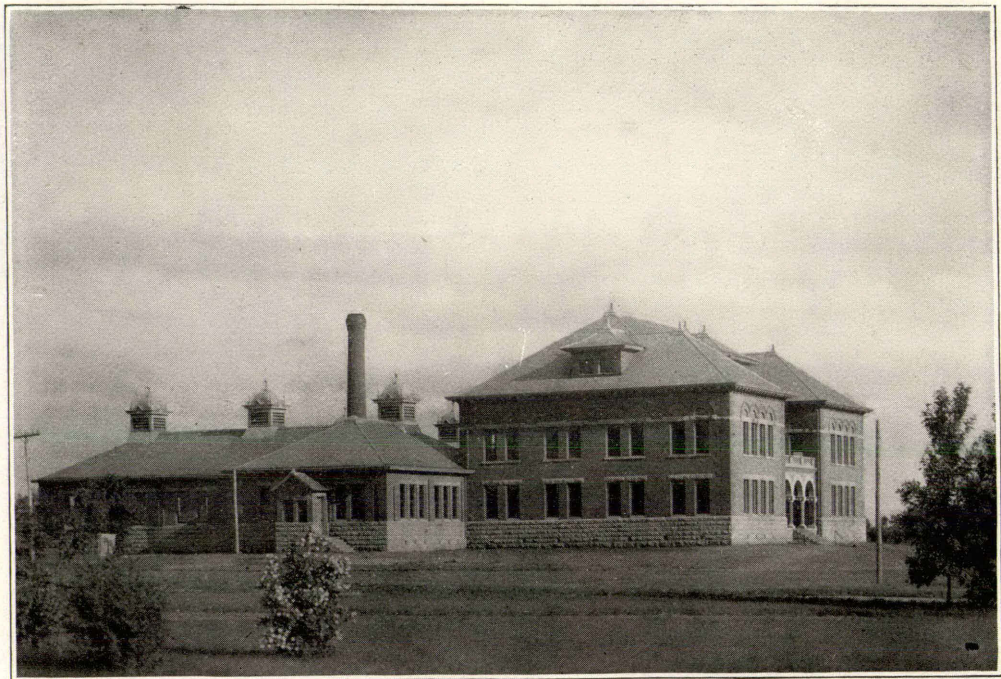
GEOLOGY CLASS ROOM.



THE MUSEUM.



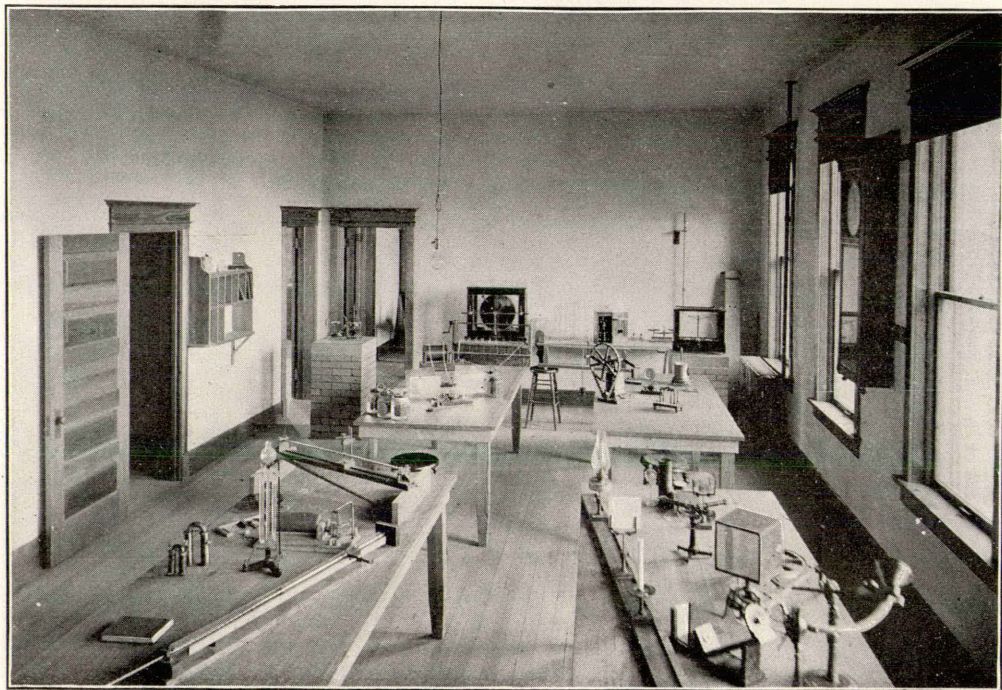
A FIELD SURVEYING PARTY.



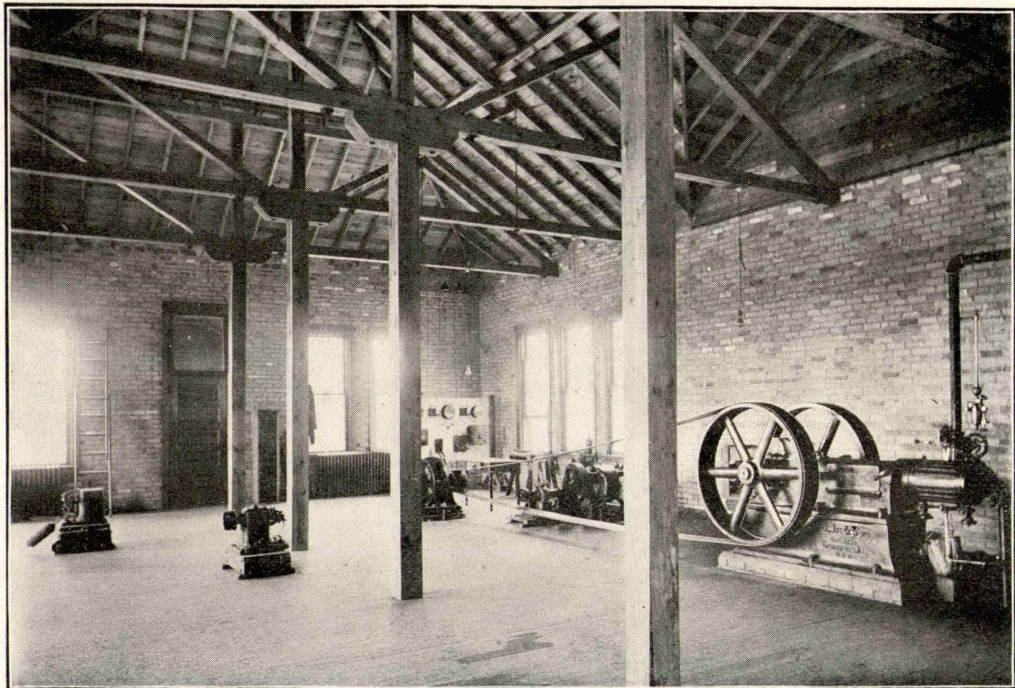
THE NEW ENGINEERING BUILDING.



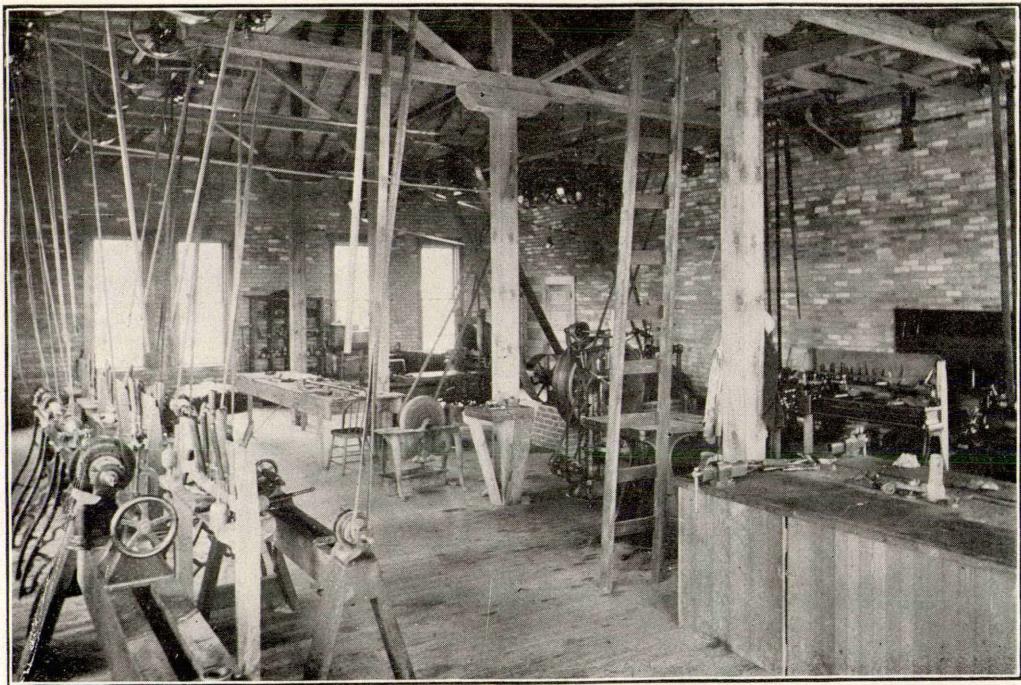
THE GENERAL PHYSICS LABORATORY.



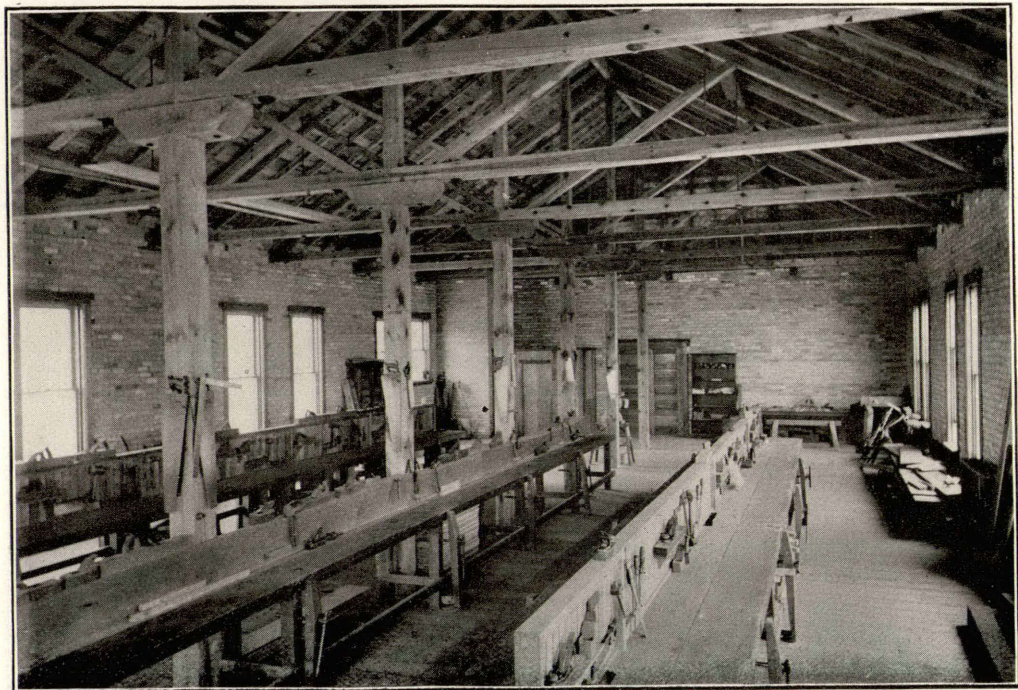
ADVANCED PHYSICS LABORATORY.



THE DYNAMO.



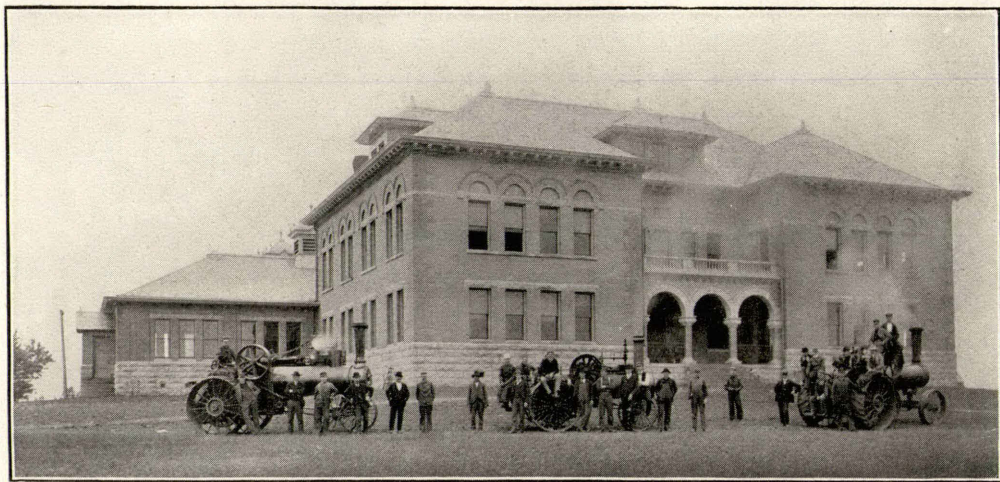
THE MACHINE SHOP.



THE CARPENTER SHOP.



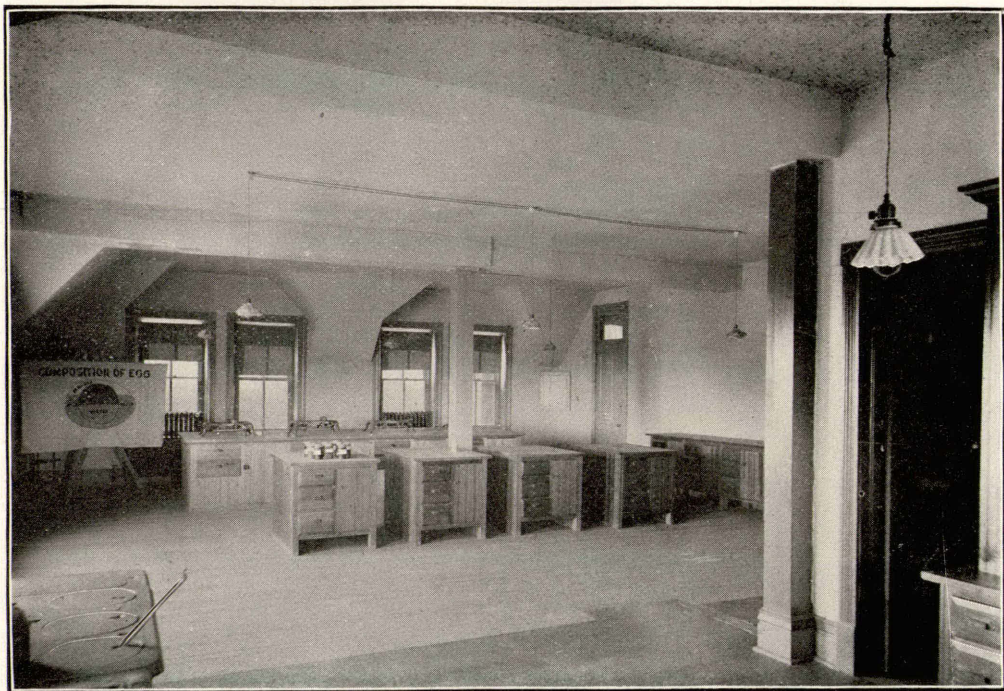
THE BLACKSMITH SHOP.



ENGINE PRACTICE.



THE DOMESTIC SCIENCE DINING ROOM.



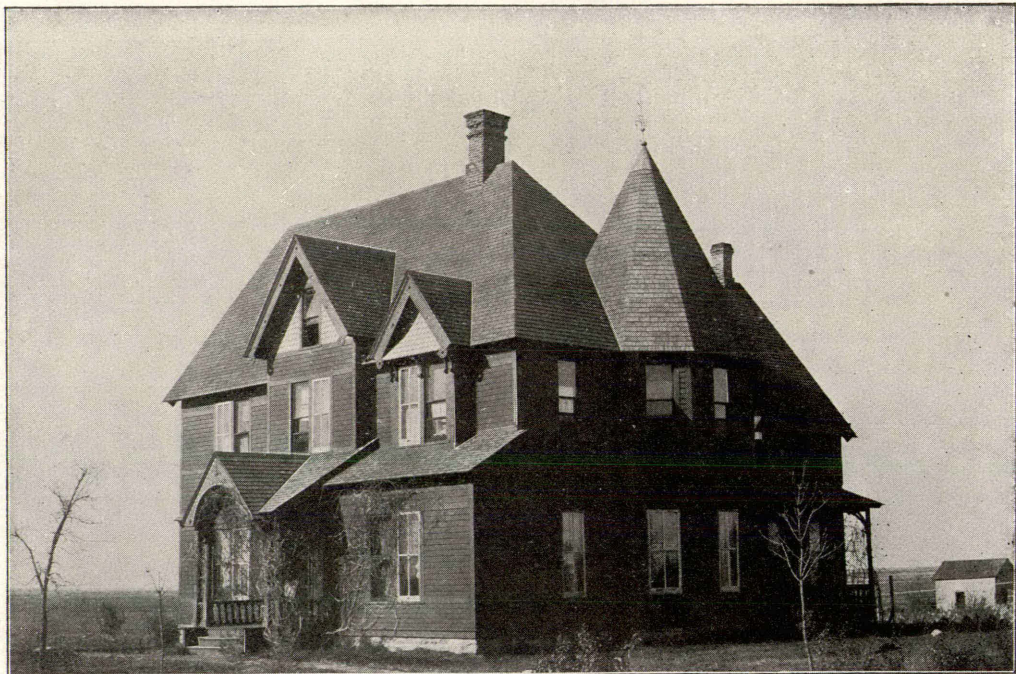
THE DOMESTIC SCIENCE KITCHEN.



THE DOMESTIC SCIENCE SEWING ROOM.



IN THE ART ROOM.



MUSIC HALL.



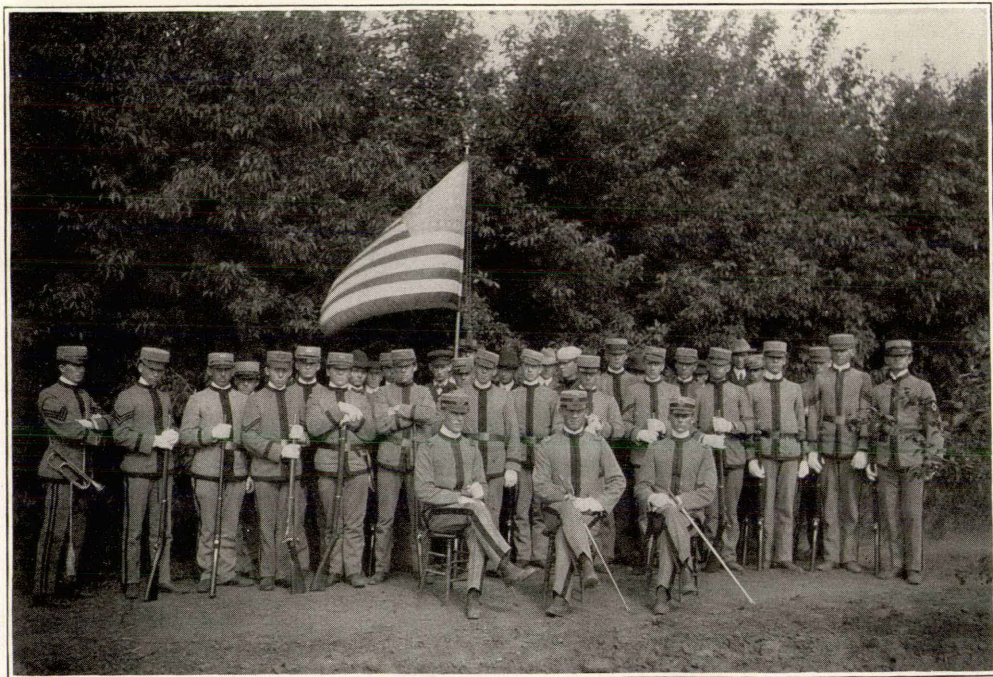
THE BUSINESS PRACTICE ROOM



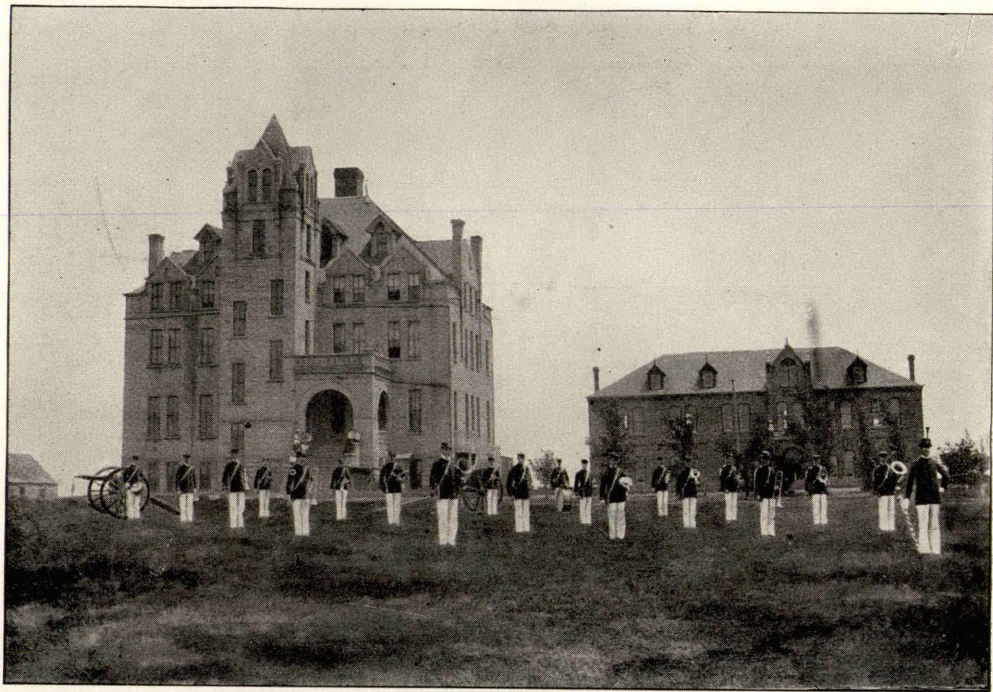
THE LIBRARY BOOK ROOM.



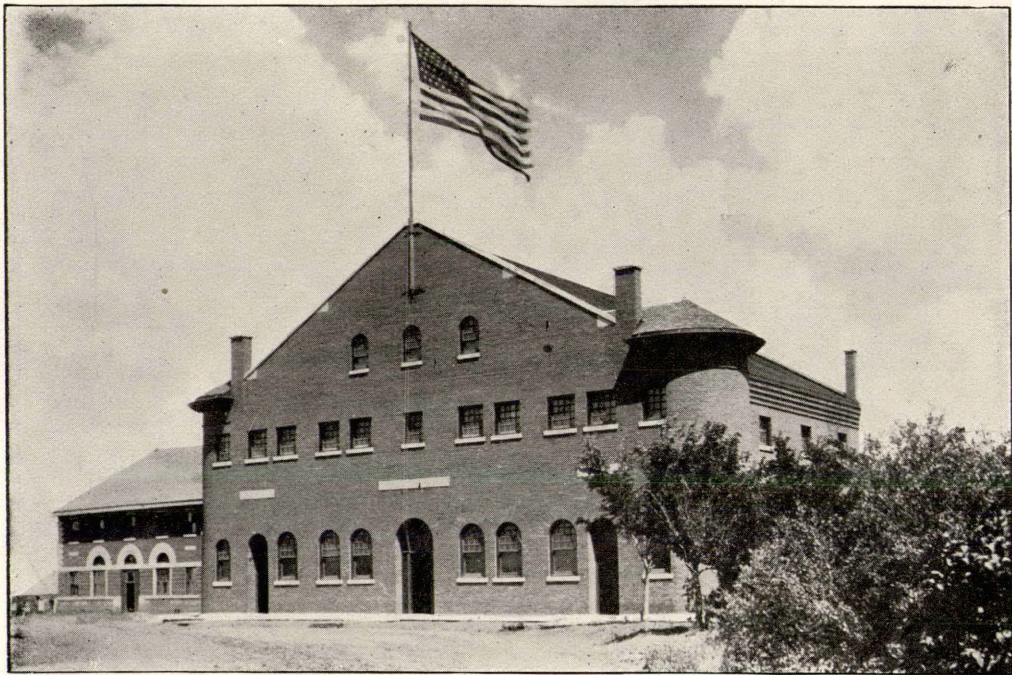
THE READING ROOM.



COMPANY "B."



THE COLLEGE BAND.



THE DRILL HALL AND GYMNASIUM.



AN INTERIOR VIEW OF THE DRILL HALL, AND GYMNASIUM.



THE TRACK TEAM.

Part Three.

General Information.

A—Historical.

1. **ESTABLISHMENT.**—An act of Congress approved July 2nd, 1863, gave to each state 30,000 acres of public lands for each representative in Congress towards “the endowment, support and maintenance of at least one college where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts.” In compliance with this act the territorial legislature of 1881 passed an act establishing an agricultural college at Brookings in the territory of Dakota.

The legislature of 1883 provided for the erection of the first building. This building, now known as the Central building, was built in 1884.

Upon the division of the territory of Dakota into the states of North and South Dakota when admitted into the Union in 1889, the Agricultural and Mechanical College of Dakota became known as the South Dakota Agricultural College.

2. **PURPOSE**—The College is devoted to advancing the interests of practical education, its purpose being to give men and women such training as will best fit them for the active duties of life, whether it be in the fields, the shops, the house, or in the class or counting rooms.

In the act of the legislature establishing the institution it was designated “The Agricultural and Mechanical College,” and in the Congressional act these colleges were spoken of as “of Agricultural and Mechanic Arts.” While the school is popularly called the “Agricultural College,” the mere prece-

dence of the term does not make it more agricultural than mechanical. Although the work of the institution is largely scientific, it is of such a diversified character that the student can pursue work along almost any line which his tastes dictate. The aim of all the work offered is to fit young people to occupy ably any position they may be called upon to fill; and to make better and more intelligent citizens of them.

A constant effort is made to reach the masses of the people in the state and interest them in the applications of science to industrial pursuits, and in the more general improvement of their home life and every day activities.

3. LOCATION—The College is located in the east central part of the state, upon an eminence one mile from the business center of the city of Brookings, and four miles from the Big Sioux river.

Brookings has a population of nearly three thousand five hundred thrifty, intelligent and hospitable people. Its streets are lined with trees and there are very few houses where there are not well kept lawns, upon which are growing trees, beautiful flowering shrubs and plants. It has often been called the "city of homes."

It is a city of clean morals. No saloon has been allowed within its limits for several years. In the spring election of 1898 the proposition to allow saloons within the city limits was defeated by a vote of three to one; and in the general election of 1896 Brookings county was the banner county of the state in its vote against allowing intoxicating liquors to be sold in the state.

It is situated on the Central Dakota division of the Chicago & North-Western railway, three miles from its junction with the Watertown branch of the same road which makes connections with the main line at this point.

4. SOURCES OF INCOME.—By the Congressional act under which South Dakota became a state, one hundred and sixty thousand acres of land were set aside as an endowment for the

South Dakota Agricultural College. These lands are not yet quite all selected and none have as yet been sold. A small amount is now being received yearly as rental from the selected lands.

No school lands can be sold for less than ten dollars per acre, so that these lands, when sold, will probably yield an endowment of two million dollars, the interest from which will be sufficient for the needs of the College.

The "Morrill Act" passed by Congress in 1890 provides a yearly appropriation for "the more complete endowment and support of Colleges for the benefit of Agriculture and Mechanic Arts." Under this act the College receives from the general government \$15,000 for the first year; \$16,000 for the second; \$17,000 for the third, and so on until the annual amount reaches and remains at \$25,000 during the pleasure of Congress.

The "Hatch Act" passed by Congress provides for the establishment of Agricultural Experiment Stations in connection with Agricultural Colleges, and allows \$15,000 per year for the maintenance of the same.

The state legislature makes biennial appropriations for the support of the College. In 1899 fifty thousand dollars was received from this source, and during its last session the legislature increased this sum to more than *one hundred thousand dollars*.

5. **GENERAL POLICY**—It is the policy of the institution to make itself in truth a part of the common school system, first, by continuing the work of the young people from the point in their education where the lower school stops, thus giving them an opportunity to become liberally and practically educated within the boundaries of their own state; second, by assisting in the training of public school teachers, especially in the various sciences.

The College also desires to assist, as far as its resources will allow, in the self improvement at their homes, of the people of the state. To this end where half a score or more intel-

ligent persons express a desire to study along some definite line, they will be advised as to the course of reading to pursue, and, if possible, be furnished with a lecturer for one or more lectures after such reading has been faithfully completed. These home reading courses are in print and may be obtained upon application to the president. It is believed that this reading course is a more systematic, logical and effective method of outside instruction than promiscuous farmers' institutes where the attendance as a rule is largely made up of those who have no especial preparation and are present solely to be entertained.

6. FARMERS' INSTITUTES—Owing to the fact that the last legislature failed to provide funds for Institute work, no Farmers' Institutes will be undertaken during the next year, or until an appropriation is made for that purpose.

7. EXPERIMENT STATION—This department is organized under the Hatch Act of Congress which appropriates fifteen thousand dollars from the United States treasury each year for its maintenance.

“It shall be the object and duty of said experiment stations to conduct original researches and verify experiments on the physiology of plants and animals,”—enumerating some twenty other lines of research,—“and such other experiments bearing directly on the Agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states. To aid in acquiring and diffusing among the people of the United States useful and practical information on the subjects connected with Agriculture.” The South Dakota station conducts its investigations principally upon the following lines: Live stock, soils, field experiments, greenhouse work, trees and small fruits, chemistry of plant growth and foods, and economic botany, entomology and zoology.

In planning the work of the station the main object sought is to assist the agricultural interests of the state. Education

is derived from this in two ways; first, from the student's observation of the actual work; second, by reading the accounts and results of the work which are published in the form of bulletins and are available to any one applying.

B—Equipment.

1. **CAMPUS.**—The College campus of thirty acres is beautifully located on an eminence within the corporate limits of Brookings. Under the charge of the Horticultural department the campus, ornamented with choice and tasteful varieties of trees and shrubs and laid out with necessary drives and walks, is a good example of landscape gardening. Adjoining on the rear is a fifty acre plat which is devoted to horticultural gardens and the United States forestry experiments. This portion is laid out regularly in suitably sized plats with longitudinal streets at appropriate distances apart, thus giving a beautiful and symmetrical effect to the observer from the College buildings.

2. **BUILDINGS.**—The oldest building on the campus, a three story brick structure known as the "Central Building," was completed in 1885, and is devoted to administrative and instructional purposes. The "South Building," also a three story building, is occupied principally by the experiment station laboratories. The "North Building" is a four story brick building, the first floor of which is used as a chapel room, the other two floors furnishing quarters for the Art and Domestic Science departments. The "Preparatory Building," the "Drill Hall" and the "Creamery" are all two story buildings of modern design, and well equipped with apparatus.

The "Engineering Hall," the "Plant Breeding Building" and the "Greenhouse," have all been built during the

last year, and by their substantial and imposing appearance, add much to the beauty of the campus, and furnish room that has long been needed by the departments which occupy them.

3. FARM—Set apart as the college farm is a tract of three hundred and twenty acres near the campus, about fifty acres of which is used by the Agricultural Experiment Station as an experimental farm. Here the field experiments with field crops, seed germination, and soil preparation are conducted, and the student electing it can witness and actually participate in this scientific work. The remainder of the farm is used as a model stock and dairy farm under the direction of the professor of animal husbandry. Practical work and experiments involving the best farming practices for this region are given the students.

4. DORMITORIES—Originally the institution provided dormitories for both sexes. But the attendance has increased so much more rapidly than the class room facilities, that it has been necessary to convert the dormitories into rooms for the departments, so that now no such living arrangements in connection with the College are provided for.

5. LABORATORIES—The work of the institution being so largely scientific in nature, well-fitted laboratories have been provided in all those departments where their use is made necessary by the most modern and approved educational methods. The farm with its equipment together with the horticultural gardens and the greenhouse serves as a laboratory for the departments of Horticulture and Agriculture.

6. GYMNASIUM.—The spacious gymnasium for the boys and the commodious physical culture rooms for the girls are well equipped with dumb-bells, indian clubs, chest weights and other apparatus to which additions are being made from time to time. Both of these departments have connected with them bath and toilet rooms of the most approved design, and the

physical training is under the direction of competent instructors.

7. **ATHLETIC GROUNDS**—In connection with the gymnasium a tract of land leased by the college is used as a place for holding outdoor exercises and sports of an athletic character. These grounds are enclosed with a high board fence, and a comfortable amphitheatre affords a large seating capacity to spectators.

8. **LIBRARY AND READING ROOM**.—The library, occupying the first floor of what was formerly the Mechanical building, contains about six thousand bound volumes and as many pamphlets. The institution being a repository for the Government, it contains quite a number of the governmental publications. Care has been exercised in the selection of books in order that each department may have proper books of reference at the disposal of the students taking work in that line. The books are arranged according to the Dewey system of classification, and the card catalogue has been completed up to date, thus facilitating the use of the library. The reference portion is well supplied with proper books of reference. The files of all the standard scientific and literary magazines are kept bound. The reading room portion is supplied with the leading periodicals and newspapers. The library is nearly all the time, day and evening, at the disposal of students for the purpose of study and reading.

9. **MUSEUMS**—The idea that museums are valuable as educational factors only as they furnish illustrative material for study has obtained in the collection of the various specimens and their arrangement in the several department museums. The Zoological, Botanical, Geological, Art, and Engineering departments have made especially good beginnings in getting together material for that purpose. Constant additions are being made, thereby increasing their worth as adjuncts to laboratory work. The different collections are kept in the depart-

ments to which they belong. Permanent and commodious rooms for the museums are projected and it is hoped they will materialize in the near future.

10. GENERAL STUDY ROOM.—A general study room for the young ladies, in conjunction with the necessary retiring rooms and toilet facilities, occupies part of the basement of the North building. The ladies of Brookings have very generously furnished part of the fittings necessary to its homelike appearance. The young gentlemen are also provided with similar rooms in the basement of the Central building.

11. LECTURE AND CLASS ROOMS.—The class rooms are fitted to accommodate from thirty to fifty students each. Lecture rooms are fitted with arm-rest chairs for ease in taking notes. The main lecture or assembly room is provided with opera chairs for seating about four hundred, and a fine electric dissolving projection lantern for illustrative purposes.

12. SANITARY CONDITIONS.—Recently, efforts have been directed to improving the sanitary conditions about the campus. The old methods have been superseded by sanitary plumbing throughout the buildings and a new sewerage disposal plant. The water supply is one of the very best, the water being of good quality and very pure. The rarity of zymotic and infectious diseases among the students is a proof that the sanitary conditions are excellent.

13. HEATING.—Good heating arrangements are a necessity in almost any climate but in a cold climate their importance increases. The main buildings are all heated with steam generated in a central heating plant. This plant also furnishes steam for running the machinery in the shop and generating electricity for lighting. Largely for purposes of cheerfulness and ventilation, fireplaces are provided in all the offices.

14. LIGHTING.—The College owns and controls its own electric light plant, thus making the light at all times available and economical. Many of the rooms and all the laboratories

are provided with gas, which for purposes of illumination is used in Wellsbach Burners, making a brilliant light.

15. **POSTAL FACILITIES.**—The College furnishes first-class postal facilities, the mail of the students being delivered in one of the buildings at convenient times during the day, making it unnecessary for them to walk to the city postoffice.

C.—Administration.

1. **GOVERNING BOARD.**—By an act of the legislature approved March 10th, 1897, provision was made for the appointment of the "Regents of Education," who should have charge of all the educational institutions of the state.

The law is, "The Governor, by and with the consent of the senate, shall appoint five persons of probity and wisdom from among the best and best known citizens, residents of different portions of the state, none of whom shall reside in the counties in which any of the state educational institutions are located, who shall be designated the regents of education." The terms of office of these regents, when first appointed were of different lengths and after the first terms, are each six years, thus making it a continuous body. Vacancies are filled by the Governor during recesses of the senate. "The board shall organize by electing one of their members president, and by the election of a secretary. Thus qualified and organized they shall have authority to make such rules as are necessary for their own government as a board and shall immediately assume the exclusive control and management of all the educational institutions which are maintained either wholly or in part by the state." Along this line the powers and duties of the regents are defined, among which important ones may be mentioned, to employ or dismiss members of the different faculties and

other agents, to determine the proper number of teachers in said faculties, also their compensation and terms of employment, to establish departments, to settle upon courses of study, to determine the rules to be enacted for the government of the students, to decide upon text books to be used, to fix tuition fees, to guard against unwise duplications of departments, to confer degrees, to control the United States Experiment Station, and to promote education among the farmers by providing for institutes, in fact to make all regulations as to the executive and instructional functions of the educational institutions of the state. The regents govern the College largely through a regent committee.

2. **FACULTY.**—The faculty, consisting of the president and professors, all of whom are elected by the regents, determines in large part the general policy of the college. The professors are heads of the different departments of instruction which they represent and are responsible to the president, who is in charge of all matters of administration. The president, in turn, is responsible to the regents for the whole work of the institution. In order to aid the president in his executive duties, he appoints, at the beginning of each College year, certain faculty committees, which take up such work as may be assigned them by the president and faculty and thus greatly facilitate the transaction of business and economize the time of the faculty. In the absence of the president the chairman of the executive committee or the ranking member of that committee present, acts in his place. (For list of committees for 1902 and 1903 see page 6.)

3. **DEPARTMENTS.**—The educational and experimental work is performed by the following departments, the work and equipment of which are described in detail under Part IV.

DEPARTMENT.**ABBREVIATIONS.**

Agriculture and Animal Husbandry.....	Ag.
Botany	Bt.
Chemistry.....	Ch.

Commercial	Cl.
Domestic Science.....	Ds.
English	Eh.
Experiment Station.....	Ex.
Geology and Agronomy	Gl.
History, Economics and Philosophy.....	H-P.
Horticulture.....	Ho.
Languages (French, Latin and German).....	Ln.
Mathematics and Astronomy.....	Ms.
Mechanical Engineering.....	Me.
Military	Mt.
Music and Physical Culture.....	Mu.
Pharmacy.....	Py.
Physics and Electrical Engineering.....	Ph.
Preparatory	Pr.
Zoology and Veterinary Medicine.....	Zo.

4. STUDENT AFFAIRS.—Students are allowed wide latitude in carrying on affairs which vitally concern themselves, such as athletic, literary, musical and social organizations. The faculty, in all these matters, retains an advisory interest and aims to assist the students in every possible way in making these elements especially helpful to the student body as a whole. In the matter of social enjoyments the faculty is disposed to allow a reasonable amount of time for recreation, and endeavors to contribute as far as possible towards making the students happy and contented.

5. REQUIRED EXERCISES.—There are certain requirements in the way of work required of every student, among which are military exercises, physical culture and rhetoricals. These subjects are thought to be of sufficient importance that every student can take them with profit.

6. STUDENTS' LIVING ARRANGEMENTS. — The faculty maintains the right to pass upon the living arrangements of every non-resident student. Residents of the town with whom students are boarding or lodging are requested to co-operate

with the faculty in the efforts to improve the general condition of the students by exercising over them a careful supervision and reporting to the faculty any misconduct on the part of the students which may come to their notice. Upon coming to Brookings students should report at once to the president, who will furnish all possible information with reference to their living arrangements.

7. **STUDENT CONDUCT.**—The chief end of school life being to obtain thorough mental and moral discipline, it becomes incumbent upon the faculty to make the conditions as far as possible conducive to that attainment. No set regulations are expected to cover every contingency arising, but it is necessary that all students recognize the fitness and importance of such restraints as are in force, and co-operate in securing their observance. In the absence of any rule applying, the student's own good judgment should suggest the proper procedure. Department is more fully treated under "D."

8. **TUTORING.** Students absent from class or College exercises or otherwise being unable to keep up with the work of their classes, will at the suggestion of the head of the department arrange with a regular tutor of that department for assistance.

D—Special Information For Students.

1. **TIME TO ENTER**—Students are admitted at any time and assigned to such classes as they are found best fitted to enter, but it is much better to commence at the beginning of the college year or as soon thereafter as possible. No reduction in college fees is made when the student enters after the beginning of a term, and if a student enters late he will not under any condition be allowed to hold a class back. If a tardy beginning is imperative the student must arrange with a tutor

to assist him in bringing up his work, in order that he may go on understandingly and without hindrance to the class.

2. EXPENSES OF STUDENTS—No young person should be deterred from obtaining a liberal education when such advantages as this college offers can be had at a nominal price. The aggregate of all the regular fees is only four dollars per term and is payable at the time of registration. Books and stationery are furnished by the student. A laboratory fee of one dollar per term is charged for the use of each laboratory in which a student takes work. An estimate of the yearly expenses of a student is given below in three grades, viz:

	LOW	AVERAGE.	LIBERAL.
Tuition and Incidental Fees.....	\$12.00	\$12.00	\$ 12.00
Board and Room.....	75.00	90.00	120.00
Laundry.....	12.50	15.00	25.00
Books and Stationery.....	15.00	25.00	35.00
Laboratory Fees.....	0.00	2.00	5.00
	<u>\$114.50</u>	<u>\$144.00</u>	<u>\$197.00</u>

Male students are expected to purchase uniforms, which range in cost from \$12.00 to \$18.00, and female students must furnish themselves with special costumes, which are not necessarily expensive, for use in physical culture. Any fairly prudent student can pay all his expenses, including cost for clothing and travelling, with \$150.00 a year.

3. TERMS AND VACATION—The regular work of the college is carried on continuously during the Fall, Winter and Spring terms, which are designated in the schedule as F. W. S. The principal vacation of the year occurs in the Summer, from the last of June nearly to the close of September. The work of the Fall term begins in 1902 on September 24th, and continues until December 7th, a period of twelve weeks of five days' work each. The Winter vacation will begin at noon on December 17th, and last until noon January 5th, 1903, when the

work of the Winter term will begin. This Winter term will last from January 5th to March 27th, a period of twelve weeks of five days' work each. The Spring term will begin March 30th, continuing twelve weeks, of five days' work each, and ending June 17th, after all the exercises of Commencement week are completed. The date indicated as the time when a term will begin refers to the day that recitation and laboratory work is begun. The matter of classifying should all be arranged before this date and such provision is made in the calendar announcements.

4. LIVING ARRANGEMENTS—Since the discontinuance of the dormitory in the "Girls' Cottage," no boarding facilities in connection with the College have been provided. Every effort is made, however, by the officers of the institution to secure suitable and satisfactory boarding places for students and a special faculty committee has this matter in charge.

Good rooms can be secured in the city at private houses or hotels for 50 cents per week and upwards. There are also many places where rooms and board can be obtained at reasonable rates. A list of approved available places for boarding or rooming can, at any time, be obtained from the president of the College. The Christian Associations make it a point at all times to assist new students in finding proper living accommodations.

5. STUDENT LABOR.—The arrangement and amount of college work is such that any reasonably apt student should have at least two hours per day for recreation or outside work. The terms are so distributed through the year as to give the longest period of vacation possible in the summer, thus enabling students to earn money. There is also a limited amount of paid labor about the institution which can be done by students and it is the policy of the regents to give as much work to deserving students as is consistent with the best interests of all. However, no one should expect to earn his entire ex-

penses while at college and doing school work, or be assured of an income in advance from paid labor.

6. **SCHOLARSHIPS.**—The following article from the law, defining powers and duties of the regents of education is self explanatory. "The regents of education shall fix all rates of tuition and of other fees to be paid by students, but such rates must be the same in all the different institutions. They may receive free of tuition two students appointed by each senator and one by each representative of the state legislature in any one of the institutions under their control, provided that the period for which appointment was made shall expire with the term of office of said senator or representative and provided that such appointees shall comply with all the rules and requirements of the institution which they desire to enter. No student, however, shall receive any other gratuity whatever." The regents of education make this article operative in the case of this institution.

7. **CO-EDUCATION.**—Recognizing the value of industrial training as a feature of a practical institution for the masses, the College authorities have provided the various shops and laboratories in which the young men of the state may become familiar with the use of the different tools required in the principal mechanical industries. These special facilities are not confined to the young men, but special departments such as Domestic Science, Art and Music have been established, so that the young lady students may have opportunities to fit themselves for a keener appreciation of the realities and enjoyments of life in the home, the school room, the store, the office or the factory. The young woman will profit as much by the introduction of rational methods into her education as the young man, and while the shops, studios and laboratories may be used in some instances by the young man, and in others by the young woman, they are all open to both and in most cases students of both sexes will be seen working side by side. In-

stead of military drill the young lady students are required to take physical training.

8. **MILITARY REQUIREMENTS.**—The national law organizing and endowing these agricultural colleges requires that military science shall form part of the instruction offered. For the regulations governing these requirements, see Military Department, Part IV.

9. **PHYSICAL CULTURE**—Female students are required to take Physical Culture twice a week for the first three continuous years of the time they are students in the institution. Students taking Physical Culture will furnish special costumes for the same as indicated by the instructor. In regard to excuses from physical culture, the same rule holds as in the case of military exercises.

10. **CHAPEL EXERCISES.**—For a short period each college day the students are assembled in the chapel room to hear announcements and to attend exercises which are of a devotional character, except on Tuesdays when a special program is given, usually consisting of an address by some competent person or a short news review of the week.

11. **PUBLIC ENTERTAINMENTS.**—In all cases of public entertainments the students taking part are required to submit their exercises first to the officer regularly in charge of such work and to rehearse before the Professor of Oratory at least ten days before the day of public performance, and as often as the instructor may designate.

12. **ATHLETICS**—The above physical exercises only serve as a basis for many other forms of athletic exercises practiced and which are recommended and encouraged by the officers of the College. Under the auspices of the local organization, and a number of the College Athletic Associations of the state, all kinds of athletic sports are practiced and encouraged. The local representatives contest at the "State Meet" once a year

for athletic as well as other honors. Students should understand, however, that their studies must receive the first consideration; and that the purpose of athletic exercises is to develop gentlemanly and ladylike qualities in those who participate in them.

13. **STUDENT ORGANIZATIONS.**—In the matter of student societies, the faculty allows the greatest freedom consistent with the general welfare. Those organizations which receive financial support from the student body and the general public are required to submit, at the close of the school year a detailed report to the proper committee from the faculty.

14. **LITERARY SOCIETIES**—There are three literary societies composed entirely of college students. These societies meet on every Saturday evening for literary exercises. A generous and fruitful rivalry for college honors exists among them, stimulating each to its best efforts. These societies are an important factor in the student's education and all are strongly advised to become members. All preparatory students are expected to become members of the Franklin society. The work of the society is carried on under the supervision of the head of the Preparatory department and has a special function as preparation for college society work.

15. **CHRISTIAN ASSOCIATIONS.**—The young men's and young women's Christian Association of the College are voluntary organizations. The purpose of the local organizations is to promote growth in grace and Christian fellowship among their members. They seek to surround the students with an earnest spiritual atmosphere; to minister to their intellectual, moral and social well being; and to exert a voluntary Christian influence in the college which shall be strong and helpful. As members of the Christian inter-collegiate movement they receive all the benefits which accrue from such fellowship and from personal supervision of state and international college

secretaries. Each association maintains prayer meetings and weekly devotional services.

16. ORATORICAL ASSOCIATION.—The purpose of this organization is to promote the art of public speaking among the students of the College. Each year it sends a representative, elected in a preliminary contest, to the inter-collegiate contest of the state. In order that this contestant may fully represent the College, the faculty has imposed the requirement that those competing for this honor must be pursuing regular work for the Bachelor's degree above that of the Freshman year.

17. GRADUATING CLUB.—The Graduate Club has been formed for the purpose of promoting good fellowship and broad scientific interest among the graduate students and resident graduates of the college. The club meets regularly on the last Friday of each month during the school year. At these meetings papers are read, the object of which is to present in a comparatively untechnical form a brief outline of some topic of research, preferably touching recent advances in science.

18. OTHER ORGANIZATIONS.—Among other organizations may be mentioned the Athletic Association, which concerns itself with the athletic interests of the college; a debating club; and various other technical societies, each occupying its own sphere of influence.

19. STUDENT PUBLICATIONS.—The "Industrial Collegian" is a sixteen page monthly magazine published by the students of the College. The "Collegian" aims not only to be an organ of the student body but a mirror of student life at this institution. The editorial staff is composed of an Editor-in Chief, a Business Manager, and one member selected by each regularly organized literary society in the College. The Editor-in-Chief and Business Manager are selected at the close of each Winter

term by the students who are at the time of such election bona-fide subscribers of the "Collegian."

20. COLLEGE WORK.—The instructional work of the institution divides itself naturally into two main classes, studies which lie at the foundation of the Agricultural processes, and those which bear more directly upon technological lines of work such as Mechanical, Steam and Electrical Engineering. The work of the College is moreover offered in such a way as to be best adapted to individual characteristics and needs and at the same time to secure for all a well rounded and symmetrical development.

21. GENERAL CONDITIONS OF ADMISSION.—The candidate for admission to the College must be at least fourteen years old and of good moral character. Students applying for entrance to the Preparatory department must present evidence that they have completed the work of the public schools as far as the ninth grade; and no one is allowed to pursue the work of the Sub-Freshman year or higher work until grades in the Preparatory course have been obtained. Before entering upon any college work, students must present satisfactory evidence that they have completed the prerequisites to that work.

22. TIME OF ENTRANCE EXAMINATION.—The two days immediately before the opening of each term will be devoted to examining students applying for admission, both to the College and the Preparatory department.

23. ENTRANCE CONDITIONS.—A student may be admitted to the College without having passed in one or two of his entrance studies. These shall stand against him and must be cleared up within one year after entrance or the student will be required to take the subject with the regular classes.

24. CREDITS FROM EXAMINATIONS.—Students will be allowed to take examinations in any subject offered without being regular members of the class pursuing that subject, if

they have standings in all the prerequisites to that subject, provided that the head of the department concerned is convinced that the subject has been covered in a satisfactory manner; and having passed in the subject, students shall receive due credit therefor.

25. **ADMISSION FROM OTHER INSTITUTIONS.**—Students will be admitted to the College upon certificates from other reputable institutions, provided that these show that the students were honorably dismissed from those institutions, and have satisfactorily completed the work for which credit is asked. The College reserves the right, however, to cancel grades accepted from other schools should the student be found deficient in the subjects for which credit has been given.

26. **SPECIAL STUDENTS.**—Students of mature years who have passed in the work of the Preparatory department, may be allowed to pursue special studies if not candidates for a degree, but they must satisfy the faculty that they are qualified to take up the studies desired.

27. **METHOD OF REGISTRATION.**—The student should obtain a classification card in the registrar's office, upon which is written the names of the subjects to be pursued, according to the rules governing classification. The classification committee of the faculty will furnish all possible assistance in classifying students. New students must also fill out and file with the registrar cards giving desirable information concerning themselves. Standings from the public schools or other educational institutions should also be filed with the registrar at this time. Upon receipt of the fees for the term, the secretary of the College stamps the classification card which is then to be presented to the different instructors under whom work is to be taken for their signatures, and in order that they may also enroll the student in their classes. This card should then be returned to the registrar. In no case should it be retained longer than three days after being issued. Students

violating this requirement without sufficient excuse will be liable to the punishment of having their classification withdrawn.

28. COURSES DEFINED.—A full recitation course is a five hour per week lecture or text book study for one term, and is designated as a small (a) course. A full laboratory course is a ten hour per week exercise for a whole term and is designated as a small (b) course. A course combining recitation and laboratory work is designated a small (a, b) course. No student will be permitted to take more than four nor less than two courses in any one term.

29. GRADES—All grades are reported to the registrar in figures on a scale of 100 as perfect. Grades are reported to students in classes as follows: Class "A" representing grades between 90 and 100. Class "B" from 80 to 90. Class "C" from 70 to 80. Classes "D and F" for all grades below 70. Students having a term grade of "A" are not required to take final examination with their class. Grade "D" indicates that the student is conditioned, and may make up the work under a tutor, providing that this is done before the course is again offered. "F" indicates that the subject in question must be repeated with a regular class before a passing grade is obtained.

In determining the final grade ordinarily twice the recitation grade is added to the final examination grade and one-third of the sum is the "final grade." Large latitude is given the teacher, especially in the more advanced work, in the method of determining the student's "final grade."

30. CONDITIONED STUDENTS.—No student is allowed to register for advanced work who is conditioned in more than one course pursued in any one preceding term, neither will a student be permitted to register for advanced work at the beginning of any college year with more than one condition from previous work except when the student by permission changes

major and minor and satisfies the faculty that he is unable to remove conditions.

31. ATTENDANCE AND DISMISSAL.—Students are expected to attend regularly all the exercises of the classes to which they are assigned from the date of their classification. When once classified they are required to be present from the beginning of each term thereafter, until regularly dismissed.

When a student finds it necessary to be absent he should get an excuse in advance, if possible. Otherwise it must be applied for at the earliest possible date after return to work. Excuses will be granted only when the absence seems necessary.

All omitted work must be made up within two weeks after return to College duties, unless the health of the student requires a longer period. Application for this extension should be made to the president when the student returns to work. This omitted work must be made up according to the direction of the instructor and at times designated by him or the tutor in charge of the same. Should a student find it necessary to sever his connection with the institution before his work is completed at any time during the term, he should report to the president his reasons and secure an honorable dismissal; otherwise no standings will be entered in the records giving him credit for work done during the term.

32. CHARGE FOR TUTORING.—The charges which tutors are allowed for giving instruction are graded according to the nature of the work and the number of students taking work together, and for single periods, the maximum length of which is one hour, are shown by the following scheme:

Number of students.....	1	2	3	4	5	6 or more
Preparatory subjects	15c	25c	35c	40c	45c	50c
Sub-Freshman subjects....	20c	30c	40c	45c	50c	55c
Fresh. and Soph. subjects.	25c	35c	45c	50c	55c	60c
Jun. and Senior subjects...	30c	40c	50c	55c	60c	65c

In the absence of any instruction from the teacher as to the time a student should spend with a tutor in making up work, the tutor should see that the student covers the work which the teacher has assigned.

Students will be held responsible by the faculty for the payment of tutor fees. These must be paid to the respective heads of departments who will hand the same over to the tutors as soon as satisfactory reports concerning the work done have been received from the latter.

Should a student be absent from an appointment which has been made with a tutor, he shall be required to pay the same fee as if he had been present.

33. DEGREES.—The College offers but two Baccalaureate degrees, Bachelor of Agriculture (B. Ag.) and Bachelor of Science (B. S.). For either degree the student must complete in a satisfactory manner the work of one of the schemes mentioned in 36. These include not less than forty-three courses above the Sub-Freshman year. The degree of Master of science may be conferred upon students who already hold the Baccalaureate degree, and who complete an additional amount of work equal to fourteen courses to be chosen from two departments, in each of which credit for six collegiate courses has already been obtained, the advanced work to be done as prescribed by the faculty. Eight of these courses, constituting the "major," must be chosen from one department, and six courses, called the "minor," from the other. At least one year of this work must be done while in residence.

34. DEPARTMENT.—Every student is allowed the fullest freedom of conscience and is supposed to have well grounded habits of politeness, industry, punctuality and integrity, but in order that the faculty may deal justly with any exceptional cases the following regulations are in force: After being absent from any class duties, the student must present to the instructor a statement from the executive office showing that

he has been re-instated in the class. Upon entering the College and at the beginning of each term the student shall receive 100 department credits. Each unexcused absence shall be five discredits, and for any improper conduct noted and reported by any instructor the student shall be similarly punished in proportion to the offence. The number of credits a student has at the end of any term or at the time of severing his connection with the institution determines his grade in department the same as in study. Should the number fall below eighty the student will be considered upon probation and if of age will be notified of the fact, otherwise his parents or guardian. Should his credits fall below seventy the student will be suspended for the remainder of the term or during such time as the faculty may determine.

35. SPECIAL COURSES.—The College also offers special courses in several important and practical lines of work. These are mentioned in Part IV in connection with the departments principally concerned and are as follows:

1. Two years' work in Pharmacy.
2. One year's work in Business branches.
3. One year's work in Amanuensis branches.
4. One year's work in Steam Engineering.
5. One term's work in Agriculture.
6. One term's work in Horticulture.
7. One term's work in Dairy Science,
8. One term's work in Domestic Science.
9. Special work in Vocal and Instrumental Music.
10. Special work in Art.

36. SCHEMES OF STUDY.—The work leading to a Bachelor's degree may be done according to one of three general schemes, called groups "A," "B," and "C." Through these the work of the College is adapted not only to different classes of students, but to individual students themselves. The en-

trance requirements to each of these groups is the work of the Sub-Freshman year. (See Part IV.)

In each scheme, certain subjects, called required courses, must be taken by all students who follow that scheme; the remaining courses, called electives, can be selected by the students according to rules governing this choice.

Except in the cases of Group A with Agriculture as the major work, (see the schedule of subjects for the degree of Bachelor of Science in Agriculture, page 71), and Group C, which is designed for students of Pharmacy, nine elective courses are allowed, thus permitting the student to specialize during his last two years in college. In addition to these, the language work is largely elective, the student being allowed to choose between French, Latin or German, except in cases where his line of work makes one of them preferable to either of the others.

Before entering upon the duties of the Junior year, students should map out their work for the remaining two years, in a manner satisfactory to the professors under whom elective work is to be taken. Heads of the departments and members of the executive committee will give all possible assistance towards helping the students make a proper selection of subjects.

37. **ELECTIVES.**—The nine electives of Groups A and B must be chosen according to the following general rules:

No work ordinarily offered below the Sophomore year can be elected towards a degree. Where they deem it advisable, the faculty and heads of departments may impose special rules and restrictions governing the choice of electives. In no case shall the student be allowed to elect towards a degree more than three courses in industrial subjects such as cooking and shop work, or exercises of a similar character such as art and music; and these must be from the more advanced grades.

Five of the elective courses must be chosen along some one line of work, that in which the student wishes to specialize

most, and shall constitute his "major." Three other courses must be chosen along some second line, and shall be called his "minor." One general elective is allowed, which is intended to permit the student to bring up his prerequisites, or in some other way to contribute to his general scholarship, and should be selected with reference to those ends.

"Majors" may be chosen in the following departments: Agriculture, Horticulture, Botany, Chemistry, Zoology and Veterinary Medicine, Pharmacy, English, History and Economics, Mathematics, Physics, Mechanical, Civil and Electrical Engineering, and Domestic Science.

"Minors" may be chosen in the same departments as majors, and also in Foreign Languages, Art and Music.

General electives may be chosen from those courses which are offered as major and minor subjects.

For information concerning the electives of Group C, see 40.

38. GROUP A.—Those satisfactorily completing the work of this group will receive the degree of Bachelor of Science. The required courses include those subjects which have a general application in the understanding of agricultural processes, thus affording the student the opportunity of laying the foundation for a broad scientific education. The work is as follows:

Agriculture, two and three-fifths courses: General, Agricultural Physics.

Botany, three courses: Elementary, Systematic, Physiological.

Chemistry, three courses: Inorganic, Organic.

Economics and Philosophy, three and one-fifth courses: Psychology, Economics, Ethics.

English, two and three-fifths courses: American Literature, English Literature, Argumentation.

Geology, two courses: Elementary, Advanced.

History, three courses: General, American Institutions.

Horticulture, three-fifths course: Pomology.

Languages, six courses: Two years of either Latin, German, or French.

Mathematics and Astronomy, three courses: Solid Geometry, Trigonometry, Surveying, Descriptive Astronomy.

Military Exercises, one and one-fifth courses: Drill, Lectures.

Zoology, two and three-fifths courses: Advanced Physiology, Bacteriology, Advanced Zoology.

Entomology, one course

Industrials, one and one-fifth courses.

Electives, nine courses: Major, five; Minor, three: General, one.

NOTE:—English Literature, General Physics, and History may be chosen by those who do not take their majors or minors in Agriculture or Horticulture, instead of General Agriculture, Agricultural Physics and Pomology. Male students must elect Agriculture, Horticulture, Shop-work, or some other industrial subjects approved by the Faculty during the Winter and Spring Terms of the Sophomore year, while female students are required to pursue the courses in Foods during these two terms. The latter students must also take Sewing, Dairying, and Household Economy instead of General Agriculture, Surveying, and Physiological Botany respectively, also Physical Culture in place of Military Exercises. For schedules of Groups see end of Part III.

For students who wish to make Agriculture their major study, the required work of this group is slightly modified and the electives are specified. The courses of the Sub-Freshman year as designated in Part IV for this line of work are prerequisite to the Freshman year. The degree of Bachelor of Science in Agriculture (B. S. A.), will be conferred upon those who complete the work of this scheme, which is shown on page 71.

39. GROUP "B."—This group is intended not only for those students who wish to prepare themselves for pursuits which require only a general knowledge of mechanical and physical principles, but also for those who wish to fit themselves for

technical work in Civil, Mechanical and Electrical Engineering. It requires less literature, history and biology than group "A," and only one year of foreign language, French, is required. However, those who do not elect work in Civil, Mechanical or Electrical Engineering can continue study along those lines in the Junior and Senior years. Students electing majors and minors in Physics and Mechanics should pursue work according to this scheme. Those who wish to specialize in Mathematics can also follow to advantage the required work of this group. Those who take their elective work in Engineering as outlined in the schedules will receive the degree of Bachelor of Science in Engineering studies. Those who choose their main elective work in other departments will receive the regular degree of Bachelor of Science.

Botany, one course: Elementary.

Chemistry, three courses: Qualitative Inorganic, Organic.

Economics and Philosophy, two and four-fifths courses: Psychology, Sociology, Economics, Ethics.

English, three and one-fifth courses: American Literature, English Literature, Argumentation.

French, three courses.

Geology, one course: Elementary.

History, two courses: General,

Mathematics, five and three-fifth courses: Geometry, Trigonometry, Advanced Algebra, Analytic Geometry, Differential and Integral Calculus, Surveying.

Mechanics, three courses: Analytic Mechanics, Steam Engine, Strains in Framed Structures.

Mechanical Drawing, two courses.

Military, one and one-fifth courses: Drill, Lectures.

Physics, five courses: General, Advanced.

Shop Work, two and three-fifths courses: Wood and Iron work.

Zoology, three-fifths course: Advanced.

Astronomy, one course: Descriptive.

Electives, nine courses: Major, five; Minor, three; General, one.

NOTE:—Students who are taking special work in preparation for Electrical Engineering may elect Dynamo Electrical Machinery in place of Strains in Framed Structures. For schedule of work see end of Part III.

40. GROUP "C."—Students who satisfactorily complete the work of the first two years of this course will receive the degree of Pharmacy Graduate, (Ph. G.). After the completion of the work of the next two years, the degree of Bachelor of Science will be conferred. This work in Pharmacy is offered nowhere else in the state and has received the hearty commendation of the State Board of Pharmacy. The subjects of this group offer excellent preparation for all the medical professions as well as for the teaching of science in high schools and colleges. Three elective courses are allowed and must be chosen from those subjects which are offered as major electives.

Botany, two courses: Elementary, Pharmacognosy.

Chemistry, four courses: Qualitative Inorganic and Organic, Quantitative Analysis.

Economics and Philosophy, three and one-fifth courses: Psychology, Sociology, Economics, Ethics and Applied Psychology.

English, two and three-fifths courses: American Literature, English Literature, Oratory.

Geology, two courses: Elementary, Advanced.

History, three courses: General, American Institutions.

Languages, three courses: German or Latin.

Mathematics and Astronomy, two and three-fifth courses: Geometry, Trigonometry, Descriptive Astronomy.

Military, one and one-fifth courses: Drill, Lectures.

Pharmacy, ten courses: Pharmacy Latin, Pharmacy, Materia Medica, Drug Assaying.

Physics, two courses: General.

Zoology, four courses: Advanced Physiology, Anatomical Methods, Bacteriology.

Entomology, one course.

Electives, three courses.

41. SCHEDULES OF THE GROUPS.—On the next few pages the schedules of the work of the different groups leading to the Bachelor degrees are given. The subjects printed in ordinary type are the required courses, while the electives are in bold face. The notation immediately after the name of a subject indicates its nature and the number of times it occurs a week, "a" referring to the class work, and "b" to laboratory exercises. For requirements in military exercises and physical culture see Part IV. The student must understand that these schemes are models only, in which the elective work is taken from the most important departments. Those wishing to elect other subjects than those indicated in the schemes must choose them according to the rules governing the choice of electives, (See 37).

AGRICULTURE, GROUP A.

	FALL.	WINTER.	SPRING.
FRESHMAN.	8:30 Inorganic Chemistry, a and b 5 9:30 Stock Judging..... a 5 10:30 American Literature..... a 5 1:15 Elementary Botany..... a 3, b 2 3:15 Military..... 3	Inorganic Chemistry. a and b 5 Trigonometry..... a 5 Bacteriology..... a 2, b 3 Horse Shoeing..... a 1, b 2 Military..... a 2	Systematic Botany... a and b 5 } Entomology..... a 2, b 3 } General Agriculture..... a 3 } Organic Chemistry... a 4, b 1 } Surveying..... b 2 } Military..... 3
SOPH.	8:30 Agricultural Physics... a 3, b 2 9:30 German, French or Latin... a 5 10:30 Elementary Geology..... a 5 2:15 Physiological Botany... a 2, b 3	General History..... a 5 German, French or Latin... a 5 Agricultural Physics... a 3, b 2 Theory of Horticulture..... a 3	Advanced Physiology..... a 5 German, French or Latin... a 5 Stock Breeding..... a 3 } Advanced Dairying..... b 2 } Forestry..... a 3
JUNIOR.	8:30 Pomology..... a 3 9:30 Veterinary Medicine..... a 5 10:30 German, French or Latin... a 5 1:15 Quantitative Chemistry... b 5 3:15 Argumentation..... a 3	Veterinary Medicine..... a 5 Advanced Geology..... a 5 German, French or Latin... a 5 Chemistry of Foods... a and b 5 Argumentation..... a 1	Compt. Live Stock Judging b 2 Veterinary Medicine..... a 5 German, French or Latin... a 5 Agr. Chemistry... a and b 5 } Psychology..... a 3 } Argumentation..... a 1
SENIOR.	8:30 Seeds and Grasses..... a 2, b 3 9:30 Evo. Cultivated Plants... a 2 10:30 Astronomy..... a 5 1:15 Soil Fertility..... a 3 3:15 } Sociology..... a 3 } Military Lectures..... a 1	Original Investigation.... b 5 Economics..... a 5 } Stock Feeding..... a 2 } Agr. Experimentation... b 3	Landscape Gardening..... a 2 Ethics and Ap. Psychology. a 5 Stock Feeding..... b 3 } Original Investigation } b 5 } and Thesis..... }

SCIENTIFIC HORTICULTURE, GROUP A.

	FALL.	WINTER.	SPRING.
FRESHMAN.	8:30 Inorganic Chemistry, a and b 5	Inorganic Chemistry . . . a and b 5	Systematic Botany . . . a and b 5
	9:30 Geometry a 3	Trigonometry a 5	} Entomology a 3, b 2
	10:30 American Literature a 5	} Bacteriology a 2, b 3	} General Agriculture a 3
	1:15 Elementary Botany a 3, b 2	} English Literature a 3	Organic Chemistry a 4, b 1
	3:15 Military 3	Military a 2	Surveying b 2
			Military 3
SOPH.	8:30 Agricultural Physics . . . a 3, b 2	General History a 5	Advanced Physiology a 5
	9:30 German, French or Latin . . a 5	German, French or Latin . . a 5	German, French or Latin . . a 5
	10:30 Elementary Geology a 5	Agricultural Physics . . . a 3, b 2	General History a 5
	1:15	Theory of Horticulture a 3	Forestry a 3
	2:15 Physiological Botany . . . a 2, b 3		
JUNIOR.	8:30 Pomology a 3	Advanced Geology a 5	American Institutions a 5
	9:30 Veterinary Medicine a 5	German, French or Latin . . a 5	German, French or Latin . . a 5
	10:30 German, French or Latin . . a 5	Chemistry of Foods . . . a and b 5	Agr. Chemistry a and b 5
	1:15		
	2:15 Quantitative Chemistry . . b 5	} Advanced Zoology a 3	} Psychology a 3
	3:15 Argumentation a 3	} Argumentation a 1	} Argumentation a 1
SENIOR.	8:30 Seeds and Grasses a 3, b 2	Original Investigation b 5	Landscape Gardening a 2
	9:30 } Evolution of Cultivated Plants . a 2		
	} Soil Fertility a 3		
	10:30 Astronomy a 5	Economics a 5	Ethics and Ap. Psychology . a 5
	1:15		Stock Breeding a 2
	3:15 } Sociology a 3	Hort. Experimentation . . . b 5	Original Investigation . . . b 5
	} Military Lectures a 1		

DOMESTIC SCIENCE, GROUP A.

from Cat 1901-02

	FALL.	WINTER.	SPRING.
FRESHMAN.	8:30 Inorganic Chemistry, a and b 5	Inorganic Chemistry, a and b 5	Systematic Botany... a and b 5
	9:30 Geometry..... a 3	Trigonometry..... a 5	English..... a 3
	10:30 American Literature..... a 5	} Bacteriology..... a 3, b 2	Organic Chemistry..... a 4, b 1
	1:15 Elementary Botany..... a 3, b 2	} English..... a 3	} Sewing..... b 3
	3:15 Physical Culture..... 2	Physical Culture..... a 2	} Domestic Dairying..... b 2
			Physical Culture..... 2
SOPH.	8:30 General Physics..... a 3, b 2	General History..... a 5	Advanced Physiology..... a 5
	9:30 German, French or Latin... a 5	German, French or Latin... a 5	German, French or Latin... a 5
	10:30 Elementary Geology..... a 5	General Physics..... a 3, b 2	General History..... a 5
	1:15 Household Economy..... a 5	Foods..... a 3	Foods..... a 3
	2:15 Physical Culture..... 2	Physical Culture..... 2	Physical Culture..... 2
3:15			
JUNIOR.	8:30 English History..... a 5	Cooking..... b 3	Cooking..... b 3
	9:30 Home Nursing & Inval. Cookery a 5	Advanced Geology..... a 5	American Institutions..... a 5
	10:30 German, French or Latin... a 5	German, French or Latin... a 5	German, French or Latin... a 5
	1:15 Cooking..... b 3		
	2:15		
3:15 Oratory..... a 3	} Advanced Zoology..... a 3	} Psychology..... a 3	
	} Oratory..... a 1	} Oratory..... a 1	
SENIOR.	8:30 General Hygiene..... a 5	Dietary Studies..... a 5	Fabrics..... a 5
	9:30		
	10:30 Astronomy..... a 5	Economics..... a 5	Ethics and Ap. Psychology, a 5
	1:15 Quantitative Chemistry... b 5	Chemistry of Foods a and b 5	Household Sanitation..... a 5
	3:15 Sociology..... a 3		

a refers to classwork, b to laboratory and number of times per week

MECHANICAL ENGINEERING, GROUP B.

	FALL.	WINTER.	SPRING.
FRESHMAN. {	8:30 ✓ Organic Chemistry... a and b 5	✓ Inorganic Chemistry... a and b 5	✓ Algebra a 5
	9:30 ✓ Geometry a 3	✓ Trigonometry a 5	✓ English a 3
	10:30 ✓ American Literature a 5	✓ English Literature a 3	✓ Organic Chemistry a 4, b 1
	1:15 ✓ Elementary Botany a 3, b 2	✓ Mechanical Drawing b 5	✓ Surveying b 2
	3:15 ✓ Military 3	Military a 2	✓ Forging b 3
			Military 3
SOPH. {	8:30 ✓ General Physics a 3, b 2	✓ Analytic Geometry a 5	✓ General Physics a 4, b 1
	9:30 ✓ French a 5	✓ French a 5	✓ French a 5
	10:30 ✓ Elementary Geology a 5	✓ General Physics a 3, b 2	✓ Calculus a 5
	1:15 ✓ Shopwork b 3	✓ Shopwork b 3	✓ Shopwork b 3
JUNIOR. {	8:30 ✓ Calculus a 3	✓ General History a 5	✓ Steam Engine a 5
	9:30 ✓ Elements of Mechanism a 5	✓ Advanced Physics a 3, b 2	✓ Advanced Physics a 3, b 2
	10:30 ✓ Advanced Physics a 3, b 2	✓ Analytic Mechanics a 5	✓ General History a 5
	1:15 ✓ Shopwork b 5		
	3:15 ✓ Argumentation a 3	✓ Advanced Zoology a 3	✓ Psychology a 3
	✓ Argumentation a 1	✓ Oratory a 1	
SENIOR. {	8:30 ✓ Steam Boilers a 5	✓ Strains in Framed Struct. a 5	
	9:30 ✓ Astronomy a 5	✓ Dynamo Elec. Mach. a 3, b 2	✓ Dynamo Electric Machinery ...a3,b2
	10:30 ✓ Kinematics b 5	✓ Economics a 5	✓ Ethics and Ap. Psychology, a 5
	1:15 ✓ Sociology a 3	✓ Engineering Design b 5	✓ Engineering Design b 5
	3:15 ✓ Military Lectures a 1		

ELECTRICAL ENGINEERING, GROUP B.

	FALL.	WINTER.	SPRING.
FRESHMAN.	8:30 Inorganic Chemistry, a and b 5 9:30 Geometry a 3 10:30 American Literature a 5 1:15 Elementary Botany a 3, b 2 3:15 Military 3	Inorganic Chemistry, a and b 5 Trigonometry a 5 English Literature a 3 Mechanical Drawing b 5 Military a 2	Algebra a 5 English a 3 Organic Chemistry a 4, b 1 { Surveying' b 2 { Forging b 3 Military 3
SOPH.	8:30 General Physics a 3, b 2 9:30 French a 5 10:30 Elementary Geology a 5 1:15 Shopwork b 3	Analytic Geometry a 5 French a 5 General Physics a 3, b 2 Shopwork b 3	General Physics' a 4, b 1 French a 5 Calculus a 5 Shopwork b 3
JUNIOR.	8:30 Calculus a 3 9:30 Elements of Mechanism a 5 10:30 Advanced Physics a 3, b 2 1:15 Electricity & Magnetism, a3, b2 3:15 Argumentation a 3	General History a 5 Dynamo Elect. Mach. a 3, b 2 Analytic Mechanics a 5 { Argumentation a 1 { Advanced Zoology a 3	Steam Engine a 5 Dynamo Electric Machinery a 3, b 2 General History a 5 { Argumentation a 1 { Psychology a 3
SENIOR.	8:30 Steam Boilers a 5 9:30 Alternating Currents , a 3, b 2 10:30 Astronomy a 5 1:15 Shopwork or Drawing b 2 3:15 { Sociology a 3 { Military Lectures a 1	Electric Light and Power Distribution a 3, b 2 Economics a 5 Shopwork or Drawing b 5	Designs of Power Stations a 3, b 2 Ethics and Ap. Psychology, a 5 Shopwork or Drawing b 5

GENERAL INFORMATION.

CIVIL AND AGRICULTURAL ENGINEERING, GROUP B.

76

S. D. AGRICULTURAL COLLEGE.

	FALL.	WINTER	SPRING.
FRESHMAN.	8:30 Inorganic Chemistry, a and b 5	Inorganic Chemistry, a and b 5	Algebra a 5
	9:30 Geometry a 3	Trigonometry a 5	English a 3
	10:30 American Literature a 5	English Literature a 3	Organic Chemistry a 4, b 1
	1:15 Elementary Botany a 3, b 2	Mechanical Drawing b 5	Forging b 3
	3:15 Military 3	Military a 2	Surveying b 2
SOPH.	8:30 { General Physics a 3, b 2	Analytic Geometry a 5	General Physics' a 4, b 1
	{ Spherical Trigonometry a 2	French a 5	French a 5
	9:30 French a 5	General Physics a 3, b 2	Calculus a 5
	10:30 Elementary Geology a 5	The. & Prac. of Surveying a 3	Plotting b 3
	1:15 Shopwork b 3		
JUNIOR.	8:30 Calculus a 3	General History a 5	General History a 5
	9:30 Irrigation Engineering a 5	Advanced Geology a 5	Hydraulics a 3, b 2
	10:30 French a 5	French a 5	French a 5
	1:15 Topographical Drawing b 2	Analytic Mechanics a 5	{ Argumentation a 1
	3:15 Argumentation a 3	Argumentation a 1	{ Psychology a 3
SENIOR.	8:30	Strains in Framed Struct... a 5	Reservoirs and Dams a 3
	9:30 Road Construction a 5	Practical Astronomy a 3	Bridge Construction a 3, b 2
	10:30 Astronomy a 5	Economics a 5	Ethics & Ap. Psychology a 5
	1:15 Irrigation Experiments a 3	Water Disposal a 5	Meteorology a 2
	3:15 { Sociology a 3		
	{ Military Lectures a 1		

PHARMACY. GROUP C.

	FALL.	WINTER.	SPRING.
FRESHMAN.	8:30 Inorganic Chemistry a and b 5	Inorganic Chemistry a and b 5	Advanced Physiology a 5
	9:30 Anatomical Methods a 3	Anatomical Methods . a 3, b 2	Pharmacognosy a 3
	10:30 Pharmacy Latin a 5	Bacteriology a 2	Organic Chemistry a 4, b 1
	1:15 } Elementary Botany . a 3, b 2	Bacteriology b 3	Pharmacognosy b 2
	3:15 } Anatomical Methods b 5	Military a 2	Military 3
	3:15 Military 3		
SOPH.	8:30 Pharmacy a 5	Materia Medica a 5	Materia Medica a 5
	9:30 Materia Medica a 5	Pharmacy a 5	Pharmacy a 5
	10:30 American Literature a 5	English Literature a 3	{ Pharmacy b 5
	1:15 Quantitative Analysis b 5	Pharmacy b 5	{ Drug Assaying b 5
UNIOR.	8:30 General Physics a 3, b 2	General Hisnory a 5	Elective a 3
	9:30 Geometry a 3	Trigonometry a 5	{ Entomology or
	10:30 Elementary Geology a 5	General Physicis a 3, b 2	{ Systematic Botany . a 3, b 2
	3:15 Oratory a 3	Oratory a 1	General History a 5
SENIOR.	8:30 Elective a 5	Elective a 5	{ Psychology a 3
	9:30 Astronomy a 5	Advanced Geology a 5	{ Oratory a 1
	10:30 German or Latin a 5	Economics a 5	American Institutions a 5
	1:15 } Sociology a 3	German or Latin a 5	Ethics & Ap. Psychology . a 5
	2:15 } Military Lectures a 1		German or Latin a 5
	3:15		

GENERAL INFORMATION.

Part Four.

Departments and Work.*

The Agricultural Experiment Station.

Ex.

PROFESSOR WILSON, DIRECTOR.

\$15,000 is appropriated by the Federal government annually, for the maintenance of an experiment station, and for the conduction of experiments along the lines of scientific agricultural research, as relating to the industries. A corps of well trained scientists are employed whose services are also partially utilized as professors and instructors in the regular college work. About sixty (60) acres of the college farm is set aside for special experiments in crop and soil moisture determinations. Another sixty (60) acres are utilized for the purpose of experimenting along horticultural lines, where trees, shrubs and vines are growing in profusion. Co-operation with the the Department of Agriculture in the adaptation of new seeds and grains for the Northwest, is being carried on, and as a result, many new grains and grasses are being introduced which otherwise would not likely be brought here. A three-story brick building well equipped with laboratory appliances

* As in Part III, the letters "a" and "b" are used to designate recitation and laboratory work respectively in the description of the various courses of study.

and a large green-house are devoted to the work of the station staff, and after facts of importance to the farmers are obtained they are disseminated in the form of Bulletins which are free to residents of this state.

At the present date seventy-four (74) bulletins have been published describing the work in detail. All communications requesting bulletins, or questions pertaining to agricultural experimentation should be addressed to the Director of the Experiment Station, Brookings, South Dakota.

Department of Agriculture. Ag.

PROFESSOR WILSON, MR. WHEATON AND MR. SKINNER.

This department includes the farm, dairy and animal husbandry divisions. New grains and forage crops are grown under field conditions and are used in feeding experiments for the economical production of beef, mutton, pork and dairy products. An effort is made to familiarize all students who matriculate in the agricultural courses with the best methods in each line. The latest and most improved kinds of farm machinery are used on the farm, and the student has an opportunity to become entirely familiar with their operation.

In the dairy the student is taught the best methods of making high grade butter and fancy cheese. A representative herd of dairy cattle has recently been purchased for the purpose of furnishing milk for the college creamery and to furnish facilities for students to make comparisons as to breeds and their different characteristics.

The College flocks and herds contain representatives of the leading breeds of horses, cattle, sheep and swine, the same being used for educational and experimental purposes. Prac-

tical work is given in score-card practice to better enable the student to distinguish good individuals from poor ones, and the fancy from the good, an acquirement which is essential in show-yard work as well as in every day life of the farmer and stock raiser. In this, as in all other divisions of this department, the object is to give the student practical as well as theoretical training.

The following work is offered:

- 1 F.—Elements of Dairying b 3, 1:15. Mr. Wheaton.
 - a, A study of the composition of milk, the operation of the different separators and the testing of milk, etc.
American Dairying by H. B. Gurlor.
Testing Milk and its Products by Farrington and Woll.
- 2 W.—Dairying, b 2, 1:15. Mr. Wheaton.
A continuation of the Fall term's work.
- 3 S.—Breeds of Live Stock, a 5, 10:30.
This will consist of the studying of the various breeds, their origination, characteristics, improvements, adaptability to different climates and the best kinds for special purposes.
Curtis' Horses, Cattle, Sheep, and Swine.
- 4 S.—Cheese-making, b 3, 1:15. Mr. Wheaton.
Includes the making of cheese under ordinary farm and factory conditions.
Lectures and Laboratories.
- 5 F.—Stock Judging, a 5, 9:30: Prof. Wilson and Mr. Skinner.
The score-card will be used in connection with Craig's Live Stock Judging.
- 6 S.—General Agriculture, 9:30.
Lectures by Profs. Wilson and Chilcott.
- 7 S.—Stock Breeding, a 2, 10:30. Prof. Wilson and Mr. Skinner.
Lectures and references to original research on the laws of reproduction as influenced by variation, selection and her-

edity. The effect of crossing different breeds, in breeding, and so forth.

Miles' Stock Breeding and References.

- 8 S.—Advanced Dairying, b 3, 2:15. Mr. Wheaton.
Instruction in the making of fancy cheese, such as the Edam, Gouda, Brick and others.
Lectures and Laboratories.
- 9 S.—Competitive Live Stock Judging, b 2, 8:30. Prof. Wilson and Mr. Skinner.
This is an exercise for the purpose of fitting young men to become expert judges of stock for different purposes, to train the eye to that high degree of excellence which is so much desired for one who deals in stock. But before this work is pursued it is necessary that the student should have taken the Breeds of Live Stock and Live Stock Judging.
- 10 W.—Stock Feeding, a 2, 1:15. Prof. Wilson and Mr. Skinner.
a Laws of Nutrition, expenditure of energy under labor and at rest, composition of the different food stuffs and their effect on the animal when taken into its stomach, balanced rations, finishing for market and the economical handling of stock under conditions in South Dakota.
W. A. Henry's Feeds and Feeding, supplemented with books of reference and the results of scientific investigation.
- 11 S.—Stock Feeding, a 3, 1:15. Prof. Wilson and Mr. Skinner.
A continuation of the Winter Term.
- 12 F.—Original Investigation, b 5, 8:30. Profs. Wilson, Chilcott, Saunders, Hansen, Shepard, and Dr. Moore.
Consists in the selection of subject for a thesis and the student will have two terms for original investigation.

SPECIAL WINTER COURSE IN AGRICULTURE.

(From Jan. 5 to Mar. 27, 1903.)

During the Winter Term of twelve weeks there will be offered elementary courses in Agriculture, Horticulture, Botany, Entomology, Zoology, etc. This work will be adapted to students of mature years who have not gone far enough in their education to take up the work offered in the Sub-Freshman year and who can attend the College but a few weeks, perhaps.

Every effort will be made to make the instruction given effective and of a practical nature.

THE SPECIAL BUTTER-MAKERS' COURSE.

MR. WHEATON.

(From Jan. 5 to Mar. 27, 1903.)

This course is designed to fit young men for creamery operators and managers.

The work embraces the care of dairy cows, stables, milk and dairy utensils; the ripening of cream, pasteurization and sterilization of milk. The discussion and practice of ripening cream with pure and natural culture together with all the latest practical methods of successfully operating a creamery.

The following work is offered:

General Agriculture and Care of Dairy Cows, a 5,	8:30
Dairy Lectures, a 5,	9:30
Dairy Arithmetic, a 3,	10:30
Dairy Engineering, a 2,	10:30
Lectures in Botany, Entomology, Horticulture and Zoology, a 3, optional,	3:15
Book-keeping, a 3,	1:15
Practical Butter-making, b 5,	2:15
Bacteriology, a 2,	

On successfully completing the term's work offered, the student is entitled to a certificate of efficiency as helper in a

creamery and upon completing a full season's work as helper satisfactorily to the butter-maker and manager, with their recommendation, he may receive a certificate of competency to operate a creamery.

COURSE IN DOMESTIC DAIRYING.

MR. WHEATON.

(From Sept. 24 to Dec. 17, 1902.)

This course is offered to the class in Domestic Science and to special students (young men and women) who desire to become proficient in the art of home dairying, how to make butter and cheese on the farm or in private dairies, the care and management of the same, etc. Completion of this work entitles the student to a certificate of competency to manage a dairy farm or private dairy. The following work in the various courses is offered:

Care and Management of Dairy Cows, a 5.

Testing Dairy Products, a 2, b 3.

Practical Laboratory Work in Butter and Cheese-Making, as applied to Home and Farm Dairying, b 5.

Care and Management of Hand Separators and other modern Dairy Apparatus, b 5.

Dairy Bacteriology, a 2, b 3.

SPECIAL CHEESE-MAKERS' COURSE.

MR. WHEATON.

(Special Work in Dairy Science, March 30 to June 17.)

The development of dairy interests throughout the State has been very rapid during the past few years, calling for a

large number of technical and experienced operators of factories, especially expert butter-makers and men who are competent to advise and direct dairy farmers in the care and management of dairy herds, care and management of milk, etc. Recently there has developed a desire on the part of the dairy farmer in some localities to engage in the manufacture of cheese. A SPECIAL CHEESE-MAKING COURSE IS OFFERED, embracing the manufacture of Young America's, Edam, Gouda, Brick and other styles of fancy cheese and the regular American Cheddar factory and flats.

The following work is offered:

Dairy Lectures, a 5	9:30
Dairy Arithmetic, a 3	10:30
Dairy Engineering, a 2,	10:30
Book-keeping, a 3,	1:15
Practical Cheese-making, b 5,	2:15
Dairy Bacteriology, a 2,	10:30

On completion of the work the student will receive a certificate of proficiency as assistant or helper in a cheese factory under a competent and practical cheese-maker, but after obtaining a position as such, the student will be required to report to the dairy instructor every month. Upon completing a full season's work as helper satisfactorily to the cheese-maker and manager, with their recommendation he may receive a certificate of efficiency to operate a cheese factory.

HOME READING COURSE.

The College aims to reach and interest farmers in their homes. It offers instruction by correspondence to those who will read such books as are recommended and send to the College written answers to questions sent out. Five distinct courses are offered in this way and it is certainly a rare opportunity for self improvement. Those who desire a circular give

ing these courses and the method of procedure should write to the President of the College for same.

Department of Geology, Agronomy, and Agricultural Physics.

GI.

PROFESSOR CHILCOTT, MR. HOLM.

In offering the work of this department two objects are sought. First, to give all candidates for degrees a thorough understanding of the foundation principles of the subject of geology and their intimate relations to the various activities of life. Second, to afford an opportunity for students desiring a general agricultural education, and those wishing to become specialists along any line of agriculture, to make a thorough study of the soil and its relation to plant growth; and to teach them how to apply the general laws of physics to ordinary farm operations, the planning and construction of buildings, the handling of crops and machinery, and weather forecasting.

The prerequisites to the work offered in this department are that the student shall have completed all the required work in some one of the regular courses for the Freshman year, or shall have passed satisfactory examinations in these subjects.

Especial effort is made in courses 1 and 4 to train students in habits of close observation of the various natural phenomena continually in progress in the evolution of land forms and the development of animal and plant life, and to acquaint them with the geological history, climatic conditions, and natural resources of the State, as well as to give a general knowledge of geology.

The geological class room and the museum are well supplied with rock specimens, fossils, casts maps, globes, and

charts. A good stereopticon and a large number of slides are used for demonstration.

A well equipped laboratory is provided for the work in Agricultural Physics.

Course 1 is required of all candidates for the Bachelor degrees; Course 4, of all except those taking the Engineering Courses.

All of the work offered is required in the Agricultural Course. Students taking other courses may select any of the work offered provided they have had the prerequisites.

The following Courses are offered:

- 1 F.—Elementary Geology, a 5, 10:30. Prof. Chilcott.
Pre. All required work below the Sophomore year.
 - a, Introduction to dynamic, structural, physiographical, and historical Geology. Lectures illustrated by the stereopticon.
Scott's Introduction. Mineral and rock specimens, charts, maps and diagrams.
- 2 F.—Agricultural Physics $\left\{ \begin{array}{l} \text{a 3, 8:30} \\ \text{a 2, 8:30} \end{array} \right\}$ Prof. Chilcott.
Pre.
 - a, Physical properties of the soil, supply of food to the growing plant, soil moisture, soil temperature, tillage, nutrification, wells, irrigation.
 - b, Mechanical analysis of soils; organic matter, moisture, and specific gravity, determinations; capillarity, and water-holding capacity of various soils; measure of the flow of water, and the passage of air, through different soils; the effect of mulching and tillage upon the conservation of moisture.
Physics of Agriculture, King; lectures, references, notebook.

- 3 W.—Agricultural Physics { a 3, 10:30 } Prof. Chilcott.
 { b 2, 10:30 }
 Pre. 2.
- a, Rural architecture, barns, stables, silos; farm mechanics, principles of draft, roads; farm motors, horse power, engines, windmills; farm machinery, friction, pumps; the atmosphere, winds, storms, forecasting.
- b, Laboratory work with models and apparatus for measuring draft, examination and tests of farm machinery and implements.
 Physics of Agriculture, King; lectures, note-books.
- 4 W.—Geology, a 5, 9:30. Prof. Chilcott.
 Pre. 1.
- a, The history of the evolution of the earth and its inhabitants.
 Le Conte's Elements of Geology, lectures, charts, diagrams, maps, notes.
- 5 F.—Soil Fertility, a 3, 1:15. Prof. Chilcott.
 Pre. 2.
- a, A study of manures and manuring. Nitrification, leguminous crops for green manuring. Conservation of fertility by rotation of crops. Economic sources of the elements of fertility.
 Aikman's Manures and Manuring.
- 6 W.—Agricultural Experimentation, b 3, 1:15-3:15. Prof. Chilcott.
 Pre. 1, 2, 3 and 4.
- b, A general study of experimental work as pursued by the experimental stations of this country, study of the bulletins

and reports of the various stations and a comparison of their methods and results.

Experiment Station Record. U. S. Department of Agriculture and Experiment Station publications.

Department of Horticulture and Forestry.

Ho.

PROFESSOR HANSEN; MR. THORNBER.

In the regular college work these subjects are taught as an applied science as well as an art, full use being made of the students' attainments in the various sciences underlying the practice of Horticulture. The variation of cultivated plants, and the principles and methods of their development under the hand of man, are considered, as well as their propagation and cultivation.

Field and laboratory exercises emphasize the lessons taught in the class room. Ample facilities for practical illustration are offered by the eighty acres of experiment station horticultural grounds and college campus, including the orchards, forestry plantations, arboretum, nursery, vegetable gardens, small fruit plantations, flower borders and ornamental grounds. The horticultural buildings contain class rooms, laboratory, conservatory and forcing house; grafting and potting rooms and storage cellars.

Students desiring to make Horticulture their major subject should elect courses 2-8 inclusive. One full course in Entomology may be substituted for either 7 or 8. Those taking a minor should elect courses 2-6 inclusive.

The commercial nursery course is intended as a short winter course for those desiring to engage in the business of grow-

fication and amelioration of plants by cultivation, soil, climate, selection and hybridization.

Lectures, Bailey's Plant Breeding and Survival of the Unlike.

- 5 S.—Forestry, a 3, 1:15:2:15. Prof. Hansen.
Pre. 1-4.
- a, Principles of forestry, the influence of forests on climate, timber planting on the prairies, European forestry methods as modified by prairie conditions, shelter belts, the propagation, cultivation, characteristics and uses of forest trees.
Lectures, Pinchot's Primer of Forestry, Green's Forestry in Minnesota.
- 6 S.—Landscape Gardening, a 2, 8:30-9:30. Prof. Hansen.
Pre. 1-5.
- a, The beautiful in nature, gardening as one of the fine arts, historical development of the ancient or geometric, and the modern or natural styles, best ornamental trees, shrubs and plants, hedges, lawn-making, walks and drives.
Lectures. Text book references.
- 7 F., W. or S.—Horticultural Investigation, b 5, 1:15-3:15.
Prof. Hansen. Pre. 1-6.
- b, Investigation along some special line.
- 8 W.—German Horticultural Literature, a 5, 9:30:10:30. Prof. Hansen.
Pre. 1-6 and the first four terms of German.
- a, The reading of technical German works on Horticulture.

SHORT COURSE IN HORTICULTURE.

(From Jan. 5 to Mar. 26, 1903.)

Special Commercial Nursery Course. Lectures and practical work in commercial propagation and nursery management of fruit trees, small fruits, forest trees, ornamental trees,

shrubs and plants, grafting, budding, pruning, cutting scions, packing grafts, making cuttings and stratifying seeds. All of every day.

Lectures: American Horticultural Manual, Bailey's Nursery Book, Goff's Principles of Plant Culture, Green's Amateur Fruit Growing and Forestry in Minnesota.

Department of Botany.

Bt.

PROFESSOR SAUNDERS; MR. THORNBUR.

The work in Botany is arranged to give the student a thorough knowledge of plant life. The Botany department occupies the second floor of the new "Plant Breeding Building." It is provided with all the apparatus necessary for biological work, including microtome, microscopes and physiological apparatus.

- 1 F.—Elementary Botany, { a 3, 1:15-2:15. } Prof. Saunders.
 { b 2, 1:15-3:15. } Mr. Thornber.

Required in groups "A," "B" and "C."

a, A general introduction to Botany, the structure and function of protoplasm, a brief study of some of the principles of plant economy and the life history of some important groups of microscopic plants, introduction to the structure of the flowering plants.

b, Demonstration of (a).

Bergen's Foundations of Botany, with lectures.

- 2 Systematic Botany, { a 2, 8:30-9:30. } Prof. Saunders.
 { b 3, 8:00-9:30. } Mr. Thornber.

Pre. 1 and 2. Required in group "A."

a, The relationship of ferns and flowering plants.

- b, The collecting, analyzing, naming and mounting of an herbarium of one hundred plants.
Gray's Lessons and Manual of Botany.
- 3 F.—Physiological Botany, $\left\{ \begin{array}{l} a \ 2, \ 2:15-3:15. \\ b \ 3, \ 2:15-4:15. \end{array} \right\}$ Prof. Saunders.
Pre. 1 and 2; Ph. 1, 2 and 3; Ch. 1 and 2. Required of the young men in group "A."
- a, The manufacture of the various food substances from inorganic matter, metabolism, absorption of gases, irritability and growth.
- b, Demonstrations of (a).
McDougal's Practical Plant Physiology. Lectures and references.
- 4 S.—Pharmacognosy, $\left\{ \begin{array}{l} a \ 3, \ 9:30-10:30. \\ b \ 2, \ 1:15-3:15. \end{array} \right\}$ Prof. Saunders.
Pre. 1. Required in group "C."
- a, Families of medicinal plants, the histology of the important drugs, study of the glands, reservoirs or receptacles of the essential parts of the drugs.
- b, Demonstration of (a).
Sayer's Organic Materia Medica and Pharmacognosy.
- 5 F.—Embr'y & Phytology, $\left\{ \begin{array}{l} a \ 2, \ 2:15-3:15. \\ b \ 3, \ 1:15-3:15. \end{array} \right\}$ Prof. Saunders.
Pre. 1, 2 and 3.
- a, A study of the history of some plant. Lectures in fossil botany.
- b, Demonstration of (a).
- 6 W.—Mycology, $\left\{ \begin{array}{l} a \ 3, \ 2:15-3:15. \\ b \ 2, \ 1:15-3:15. \end{array} \right\}$ Prof. Saunders.
Pre. 1, 2 and 3.
- a, Structure and reproduction of the more important fungi; especial attention will be given to those that are destructive to economic plants.
- b, Demonstration of (a).

- 7 S.—Entomology, $\left\{ \begin{array}{l} \text{a } 2, 1:15-2:15. \\ \text{b } 3, 1:15-3:15. \end{array} \right\}$ Prof. Saunders.
Pre. 1 and 2; Zo. 1 and 2.
- a, Study of the life history of several type insects, means employed in combatting insects destructive to economic plants.
- b, Demonstrations of (a).
Hyatt & Arms' Insecta.
- 8 F.—Ferns & Flowering Plants, $\left\{ \begin{array}{l} \text{a } 2, 10:30-11:30. \\ \text{b } 3, 1:15-3:15. \end{array} \right\}$ Prof. Saunders. Pre. 1 and 2.
- a, Histology and Physiology. A study of the minute tissues of the higher plants.
- b, The solving of physiological problems by experimentation. References and Lectures.
- 9 W.—Cryptogamic Botany, $\left\{ \begin{array}{l} \text{a } 2, 8:30-9:30. \\ \text{b } 3, 1:15-3:15. \end{array} \right\}$ Prof. Saunders.
Pre. 1 and 2.
- a, Structure and life history of type specimens of the lower plants from the bacteria to the ferns, a study of the fungi destructive to farm and garden crops.
- b, Laboratory work covering topics in (a).
References and Lectures.
- 10 S.—Sys. Bot. & Ecology. $\left\{ \begin{array}{l} \text{a } 3, 1:15-2:15. \\ \text{b } 2, 1:15-3:15. \end{array} \right\}$ Prof. Saunders.
Pre. 1, 2 and 3.
- a, The principal families of flowering plants, their distribution and relationship, lectures on relation of the plant to its environment.
- b, Demonstrations of (a).
- 11 F.—Seeds and Grasses, $\left\{ \begin{array}{l} \text{a } 3, 8:30-9:30. \\ \text{b } 2, 8:00-9:30. \end{array} \right\}$ Prof. Saunders.
Pre. 1 and 2.
- a, A study of the seeds of injurious plants, their special means of distribution, protection, and the destruction of the same.

Also a study of the economic grasses, their distribution and structure.

Special W.—Prac. Bot. and Entom'y, a 2, 3:00-4:00. Prof. Saunders.

Department of Chemistry.

Ch.

PROFESSOR SHEPARD; MR. HEPNER.

This department is equipped with the latest and most approved appliances for instruction.

The student upon beginning the subject is assigned a desk in the main laboratory. This desk is supplied with a set of reagent bottles, gas and water fixtures. In addition to these a supply of all needful apparatus, such as test tubes, generating flasks, and the like, are furnished. The main laboratory which is located on the third floor of the Central Building, accommodates from eighty to one hundred students all working at the same time.

Upon completing the necessary elementary work the student now finds a quantitative laboratory at his disposal. This laboratory accommodates twenty students working together. It is supplied with all needed quantitative apparatus such as precipitation flasks, dessicators, lamps and crucibles.

In connection with the quantitative laboratory is a balance room supplied with high grade Sartorius quantitative balances. The work is so planned that the student has laboratory work together with didactic instruction throughout the course.

The experiment station laboratories are also located at this College, and their costly and technical appliances and the prac-

tical work in constant progress there are within reach for instruction.

The following courses are offered:

- 1 F.—Des. Inorganic Chem., a and b 5, 8:00-9:30. Prof. Shepard, Mr. Hepner.
Pre. Ph. 2 and Ms. 2. Required in groups "A," "B" and "C."
- a, History of chemistry, elements, compounds, symbols, valence, atomic weights, chemical equations, oxygen, hydrogen, nitrogen, chlorine, bromine, fluorine, iodine, sulphur, phosphorus, silicon and their compounds. Bases, salts, acids and alkalies.
- b, Detection of the non-metallic elements and their compounds.
Shepard's Elements of Chemistry.
- 2 W.—Qual. Inorganic Chem., a and b 5, 8:00-9:30.
Pre. 1. Required in groups "A," "B" and "C."
- a, The metals and their compounds, Groups of metals, separation of the metals and uses of their compounds.
- b, Detection of principal metals and the working of a list of unknowns.
Shepard's Elements of Chemistry.
- 3 S.—El. Organic Chem.. $\left. \begin{array}{l} \text{a 4, 10:30-11:30.} \\ \text{b 1, 9:30-11:30.} \end{array} \right\} \begin{array}{l} \text{Prof. Shepard.} \\ \text{Mr. Hepner.} \end{array}$
Pre. 1 and 2. Required in groups "A," "B" and "C."
- a, The principal classes of organic compounds, the characteristics and properties of each class and the uses of their various compounds.
- b, The detection of principal organic compounds.
Shepard's Elementary Organic Chemistry.
- 4 F.—Quantitative Chemistry, b 5, 1:15-3:15. Prof. Shepard, Mr. Hepner.
Pre. 1, 2 and 3. Required in group "C."

- a, The apparatus and its uses. Explanation of methods of quantitative determinations and reports of students' analyses.
- b, The quantitative analysis of typical chemical compounds, e. g., calcite, magnesium sulphate, metallic ores and coal. Students will use both the volumetric and gravimetric methods.
- Fresenius' Quantitative Chemistry.
- 5 W—Chemistry of Foods, a and b 5, 1:15-3:15. Prof. Shepard. Pre 1, 2, 3 and 4.
- a, Study and detection of adulterants in baking powders, milk, butter, cereals, spices, fats and other foods.
- b, Determinations of (a).
- 6 S.—Agricultural Chem., a and b 5, 1:15-3:15. Prof. Shepard. Pre. 1, 2, 3, 4 and 5.
- a, Chemistry of fertilizers, feed stuffs, fruits, vegetables, grasses, dairy products and soils.
- b, Analysis of fertilizers, grasses, dairy products, feed stuffs and soils.
- 7 F.—Organic Analysis, a and b 5, 1:15-3:15. Prof. Shepard. Pre 3 and 4.
- a, Physical properties of organic compounds, the general relations existing between classes of compounds, and the transformation from one class into another.
- b, Demonstration of (a).
- 8 W.—Physiological Chem., a and b 5, 1:15-3:15. Prof. Shepard. Pre. 3, 4 and Zo. 1, 2 and 3.
- a, Composition of blood, muscle, albumen, fat, bone, gall, liver and products of the glands.
- b, Quantitative determinations of (a).
- 9 S.—Industrial Chemistry, a 5, 8:30-9:30. Prof. Shepard. Pre. 1, 2, 3 and 4.
- a, Chemistry of manufacturing glass, paper, sugar, petroleum,

explosives, acids, water, air, mortars, pigments, photography, alkalies and gases. Demonstrations of examples including water pollution, purification, artificial illumination, petroleum testing, fermentation, air contamination, disinfection, ventilation, bleaches and dyeing.

Department of Zoology and Veterinary Medicine.
Zo.

DR. MOORE; MR. EDGAR.

The work in this department is offered consecutively. Recent biological discoveries are given special consideration. The lecture room and laboratories are well supplied with water and gas. The equipment includes microscopes, dissecting instruments, sliding microtome, imbedding apparatus, thermostat incubators, autoclave, sterilizers, fossils, models and charts.

The Veterinary Department occupies a separate two-story building containing lecture room, laboratories, offices, museum and operating rooms. The operating room is furnished with an operating table, hobbles, slings and necessary instruments for surgical work. Free clinics are held each Saturday forenoon at which the veterinary students assist and as far as possible perform the operations under the direction of the instructor. While no advanced courses in veterinary medicine are offered, special work may be arranged for those desiring to enter the profession, giving them the equivalent of the first year's work in any of our three-year Veterinary Colleges.

The subsequent courses are descriptive of the work offered:

- 1 F—Elementary Zoology, { a 4, 8:30-9:30 }
 { b 1, 8:00-9:30 }

Required in groups "A," "B" and "C."

- a, Discussion of types of branches and classes of animals, giving a general survey of the animal kingdom.
- b, Dissection of typical invertebrates and vertebrates.
Text-book to be announced.
- 2 S.—Advanced Physiology, a 5, 8:30-9:30.
Pre. 1, Ph. 2 and Ch. 2. Required in groups "A" and "C."
- a, The principles of human physiology with demonstrations and experiments as opportunity affords.
Thornton's Physiology.
- 3 W.—Advanced Zoology, a and b 5, 8:30-9:30.
Pre. Zo. 1 and 2.
- a, Discussion of the development, principles of classification, comparative morphology, etc. of animals.
- b, Dissections.
- 4 W.—Anatomy and Physiology of the Nervous System, a 2, b 1, 3:15-4:15.
Pre. Zo. 1 and 2. Required in groups "A" and "B."
- a, Lectures and reference work.
- b, Dissections.
- 5 F.—Anatomical Methods, $\left\{ \begin{array}{l} \text{a 3, 9:30-10:30.} \\ \text{b 2, 1:15- 3:15.} \end{array} \right\}$
Pre. Zo. 1. Required in group "C."
- a, Discussions of general morphology, osteology, arthrology, splanchnology and myology.
- b, Study of bones, dissection of joints, viscera and the muscles of the cat's arm.
- 6 W.—Anatomical Methods, $\left\{ \begin{array}{l} \text{a 3, 9:30-10:30} \\ \text{b 2, 9:30-11:30} \end{array} \right\}$
Pre. Zo. 5. Required in group "C."
- a, The vascular, lymphatic and peripheral nervous system.
- b, Dissections.

- 7 S.—Vertebrate Histology, $\left\{ \begin{array}{l} \text{a } 1, 2:15-3:15. \\ \text{b } 4, 1:15-3:15. \end{array} \right\}$
- a, Quizzes and reference work.
- b, Preparation, imbedding, sectioning and study of tissues and organs.
Normal Histology. George A. Piersol.
Vertebrate Histology. Gage and Kingsbury.
- 8 F.—Veterinary Medicine, a 5, 1:15-2:15.
Zo. 3, 4, 5 and 6, and Py. 7, 8 and 9 can with advantage be taken before Zo. 7. Required of all students in Agriculture.
- a, Diseases of the respiratory and digestive systems.
- 9 W.—Veterinary Medicine, a 5, 2:15-3:15.
Pre 7.
- a, Diseases of the skin and locomotory apparatus.
- 10 Veterinary Medicine, a 5, 2:15-3:15.
Pre. 8.
- a, Contagious and infectious diseases, their causes, symptoms and treatment, with special reference to their eradication and control.
- 11 W.—Veterinary Medicine, a 3, 3:15-4:15.
- a, This course is designed to meet the requirements of those students taking the short courses in Agriculture and Dairying, and will include a discussion of the more important diseases of farm animals.
- 12 W—Principles of Horse-shoeing, $\left\{ \begin{array}{l} \text{a } 1, \\ \text{b } 2, \end{array} \right\}$
- a, The anatomy of the foot, the preparation of the foot, fitting of shoes, normal and pathological shoeing.
- b, Practical shoeing.
- 13 W.—Bacteriology, $\left\{ \begin{array}{l} \text{a } 2, 10:30-11:30. \\ \text{b } 3, 1:15-3:15. \end{array} \right\}$
- a, Bacteriological methods, the principles of sterilization,

preparation of culture media, making and examining cultures, etc.

b, Laboratory.

Sternberg's Bacteriology.

Abbott's Bacteriology.

Moore's Laboratory Directions for Beginners in Bacteriology.

Department of Languages.

Ln.

PROFESSOR WHEELER; MISS DUBOIS.

In offering increased work in language, the institution supplies a deficiency which has for some time been recognized. The student pursuing work along scientific or technical lines is virtually compelled to have some knowledge of either German or French, while the importance of Latin is recognized by almost everyone.

Two years of language is required for the degree of Bachelor of Science in group "A" and one year in groups "B" and "C." This work should be consecutive in whatever language the student elects. In such technical "majors" as Engineering, French is advised, in most of the natural or biological sciences German will be found preferable, while in the more literary work Latin is the most suitable.

The following work in Latin, German and French is offered, viz:

1 F.—Latin, a 5, 1:15-2:15. Miss DuBois.

Pre. Eh. 3.

a, Primary principles of the language, including inflections and easy syntax, with constant drill in the vocabulary necessary for reading Cæsar.

Bellum Helveticum.

- 2 W.—Latin, a 5, 2:15-3:15. Miss DuBois.
Pre. Eh. 3.
- a, Continuation of 1, more attention to etymology and syntax by means of daily translations from English into Latin. *Bellum Helveticum*.
- 3 S.—Latin, a 5, 2:15-3:15. Miss DuBois.
Pre. 2.
- a, Completion of *Bellum Helveticum* with continuation of syntax and composition.
- 4 F.—Latin (Cæsar), a 5, 10:30-11:30. Miss DuBois.
Pre. 3.
- a, Selections from Cæsar and Nepos, thorough study of Latin Grammar, with daily exercises in prose composition. Greenough.
Allen and Greenough's Latin Grammar.
- 5 W.—Latin (Virgil), a 5, 10:30-11:30. Miss DuBois.
Pre. 4.
- a, Translation of Books I and II of the *Aeneid* with special attention to rhetorical figures and mythological references as well as to scansion and different styles of Latin poetry with prose composition every day.
- 6 S.—Latin (Virgil), a 5, 10:30-11:30. Miss DuBois.
Pre. 5.
- a, Translation of Books III and IV of the *Aeneid* with continuation of work indicated in 5.

NOTE—In addition to the above work in Latin, the following three courses are offered for the benefit of graduate students or others who may have the opportunity to continue their study of this language. Hours must be arranged to suit teacher and students.

- F.—Latin (Virgil), a 5. Miss DuBois.
- a, Books V and VI of the *Aeneid*, with daily exercises in rendering English into Latin.

W.—Latin (Cicero), a 5. Miss DuBois.

- a, Study of first, second and third of Cicero's Orations against Catiline, advanced syntax, and careful consideration of this period of Roman history.

S.—Latin (Cicero), a 5. Miss DuBois.

- a, Cicero's Orations continued, the fourth against Catiline, followed by the Manilian Law or Poet Archias with Roman history and Latin syntax.

7 F.—German, a 5, 1:15-2:15. Prof. Wheeler.
Pre. Eh. 3.

- a, Introductory course, elementary grammar, pronunciation, elementary exercises in translating from English into German and German into English. Reading in this course will be begun early.

Lange's Method.

8 W.—German, a 5, 2:15-3:15. Prof. Wheeler.
Pre. 7.

- a, Grammar, reading, translation of easy sentences from English into German, translation at sight and by ear, dictation exercises and memorizing of selected passages of prose and poetry. Exercises in conversation, translation of selected stories and easy poems.

Lange's Method.

9 S.—German, a 5, 2:15-3:15. Prof. Wheeler.
Pre. 8.

- a, Continuation of course 8 with special drill on irregular verbs and idiomatic expressions. A considerable amount of easy German prose will be read in this course and the more difficult passages accurately translated.

Lange's Method.

- 10 F.—German, a 5, 10:30-11:30. Prof. Wheeler,
Pre. 9.
- a, Grammar, derivation and composition of words, composition based on the works read. A large amount of reading on various topics selected from the works of nineteenth century writers will be done in this course. Translation at sight and by ear.
Joynes-Meissner's Grammar will be used for reference.
- 11 W.—German, a 5, 10:30-11:30. Prof. Wheeler.
Pre. 10.
- a, Grammar, advanced study of syntax, composition, German literature of the classical period. Selections from the works of Schiller and Goethe will be read and the more difficult passages explained and translated. The lives and times of Goethe and Schiller will be discussed in the class. Rapid dictation on subjects connected with the literature of this period.
Joynes-Meissner's Grammar for reference.
- 12 S.—German, a 5, 10:30-11:30. Prof. Wheeler.
Pre. 11.
- a, Course in scientific German designed to familiarize students with the more common terms used in the sciences. Extensive reading and translation. Composition and dictation exercises on scientific subjects.
Gore's Scientific German Reader will be used as the basis of the work.
- 13 French, a 5, 9:30-10:30. Prof. Wheeler.
Pre. Eh. 3.
- a, Grammar and special drill in pronunciation. Translation of easy English sentences into French. Elementary reading and translation.
Fraser and Squair's Grammar.
Super's Reader.

- 14 French, a 5, 9:30-10:30. Prof. Wheeler.
Pre. 13.
- a, Pronunciation and grammar, translations into French, translations at sight and by hearing, dictation exercises, memorizing of selections of prose and poetry.
Fraser and Squair's Grammar.
Super's Reader.
- 15 S.—French, a 5, 9:30-10:30. Prof. Wheeler,
Pre. 14.
- a, Grammar continued, idioms and syntax, study of the subjunctive mode and irregular verbs, translation at sight and by ear, memorizing of prose and poetry, dictation and conversation exercises. In this course a large amount of easy French will be read.
Fraser and Squair's Grammar.
- 16 F.—French, a 5, 2:15-3:15. Prof. Wheeler.
Pre. 15.
- a, Continuation of course 15. Grammar, composition based upon the works read, reading and translation of a large number of selections drawn from the works of the nineteenth century writers. Dictations.
Fraser and Squair's Grammar.
- 17 W.—French, a 5, 1:15-9:15. Prof. Wheeler.
Pre. 16.
- a, Grammar and composition. Several easy classical plays will be read and the lives of the most important writers and the customs of the seventeenth century will be discussed.
Dictations upon literary subjects once a week.
Fraser and Squair's Grammar.
- 18 S.—French, a 5, 1:15-2:15. Prof. Wheeler.
Pre. 17.
- a, In this course a large amount of scientific French will be

read and selected passages carefully translated. Translation by ear and at sight, dictation exercises on scientific subjects.

Simple Lectures sur les Sciences, les Arts et l'Industrie.
Garrigues et Monvel.

Department of English Language and Literature. Eh.

PROFESSOR EYERLY; MISS DUBOIS.

In this department the aim is to make the study of language and literature practical in the fullest sense of the term. Language is regarded as an instrument for the performance of a large part of the most important and most delicate work of life. Literature is studied largely with the view both of discovering such principles and processes of thought building as the student may embody in original composition, and of finding such truths as will guide him in his reading, heighten his appreciation of good literature, and quicken his conception of life.

The following courses are given:

- 1 F.—Rhetoric, a 5, 9:30-10:30. Miss DuBois.
- a, The choice of words, phraseology, and special objects of style. Genung's *Outlines of Rhetoric* is used as a guide, but many exercises are taken from *Hill's Foundations of Rhetoric*, and *Scott and Denney's Composition Rhetoric*. In connection with the work in Rhetoric throughout the two terms, there will be studied the following English classics: *The Sir Roger de Coverly Papers* in the *Spectator*; *Goldsmith's The Vicar of Wakefield*; *Cooper's The Last of the*

Mohicans; Burke's Speech on Conciliation with America. Students beginning this course are expected to have a practical knowledge of the facts of some advanced grammar. If they are only slightly deficient in this knowledge they may make up the deficiency by taking, along with the Rhetoric during the Fall term, instruction in a special class in Buehler's Practical Exercises.

- 2 W.—Rhetoric, a 5, 10:30-11:30. Miss DuBois.
Pre. 1.
a, Continuation of course 1. The sentence and the paragraph.
- 3 F.—American Literature, a 5, 10:30. Prof. Eyerly.
Pre. 2. Required in groups "A," "B" and "C."
a, A general survey of American literature and the study of a few of the most important works.
Occasional essays on assigned topics.
- 4 W.—English Literature; a 3, 9:30-10:30, Prof. Eyerly.
Pre. 3. Required in groups "A," "B" and "C."
a, An historical view of English literature and the study of some representative masterpieces.
Occasional essays on assigned topics.
- 5 S.—English Classics, a 3, 9:30-10:30 Prof. Eyerly,
Pre. 1, 2 and 3.
Studies from the following: Pope's Translation of the Iliad (Books, I, VI, XXII and XXIV); Milton's L'Allegro, Il Penseroso, Comus and Lycidas; Macaulay's Essays on Milton and Addison; George Eliot's Silas Marner; Scott's Ivanhoe; Shakspeare's Macbeth; Tennyson's Princess; Coleridge's Ancient Mariner; Lowell's Vision of Sir Launfal.
- 6 F., W. and S.—Oratory and Argumentation, 3:15-4:15. Prof. Eyerly. Required in groups "A," "B" and "C."
a, The study of master pieces of oratory and argumentation.

This work continues throughout the year, three times a week in the Fall term, and once a week in the Winter and Spring terms. Each member of the class must prepare and deliver in public at least three original productions. All candidates for the Bachelor's degree are required to take this course and should do so during the Junior year.

- 7 F.—Shakespere, a 5, 2:15-3:15. Prof. Eyerly.
Twelve plays studied in class.
- 8 W.—Milton's Paradise Lost and Dante's Divine Comedy (in English), a 5, 2:15-3:15. Prof. Eyerly.
- 9 S.—Modern Essayists, a 5, 2:15-3:15. Prof. Eyerly.
Lamb, DeQuincey, Macaulay, Carlyle, Emerson and Matthew Arnold.
- 10 F.—Chaucer, and Lounsbury's History of the English Language, a 5, 2:15-3:15. Prof. Eyerly.
- 11 W.—Tennyson or Browning, a 5, 8:30-9:30. Prof. Eyerly.
- 12 S.—Modern Fiction, a 5, 10:30-11:30. Prof. Eyerly.
Scott, Dickens, Thackeray, and George Eliot.

Department of History, Economics and Philosophy.
H-P.

DR. HESTON; PROF. HARDING.

The work in History and Economics is designed to give that information and training which are requisite to intelligent citizenship; to enable the students to trace the genesis

and development of political institutions, and especially to awaken in him an enthusiasm for personal individual effort. Courses 1-3 should precede all work in political science, sociology and economics. Especial effort is made in courses 1 and 2 to aid the student in acquiring habits of careful and systematic use of the material with which he works. In the more advanced courses students are sent to original sources of information so far as possible. The topical and library methods are for the most part adopted as best calculated to develop the individual powers of the student.

The studies in Philosophy are intended to help the student form habits of close, careful and logical analysis and reasoning; to interest him in considering questions of a subjective character and those which pertain more especially to his own rational nature and the organism of the state. The work is begun by a study of Psychology from a biological standpoint. Man as an individual is first considered and then as a part of the social organism where he becomes a factor in the social and political forces of the world. Text-books are used where they are found to be of real service, supplemented by lectures and class discussions based on assigned readings and original and individual work of students.

The following courses are offered:

- 1 W.—General History, a 5, 8:30-9:30. Prof. Harding.
Pre. Eh. 3, Ms. 4. Required in groups "A," "B" and "C."
 - a, History of Europe to the middle ages, with brief preliminary survey of Oriental history; text-book, reference work, special study of a few carefully selected sources and training in the preparation of historical papers.
West's Ancient History.
- 2 S.—General History, a 5, 10:30-11:30. Prof. Harding.
Pre. 1. Required in groups "A," "B" and "C."
 - a, Continuation of 1. The middle ages, reformation and re-

naissance periods, rise and development of modern nations.
Adams' Mediaeval and Modern History.

- 3 F.—English History, a 5. Prof. Harding.
Pre. 1 and 2.
- a, General survey of the history of England. The influence of English history upon American institutions makes this study one of particular interest. Text-book, collateral readings, written papers and the thorough study of several important constitutional documents will be features of the course.
- 4 F.—U. S. Economic History, a 5, 2:15-3:15. Dr. Heston.
Pre. 1 and 2.
- a, A study of household industries in the colonies, colonial commerce, internal transportation, invention of agricultural implements, labor organizations, monetary disturbances, tariff legislation. Emphasis will be placed on the organic conception of industrial society and an effort made to understand our different industrial situations.
Text-book, Wright's Industrial Evolution of the U. S.
Lectures and assigned readings.
- 5 W.—American History, a 5. Prof. Harding.
*Pre. 1 and 2.
- a, Constitutional and political history of the United States from 1783 to 1829. The growth of Union, formation of the constitution, the development of nationality, and the beginnings of the conflict between nationality and slavery. This course pre-supposes an elementary knowledge of United States history. Lectures, topics, reports, study of important documents and orations.
Channing's Student's History of the United States.
- 6 S.—American Institutions, a 5, 9:30-10:30. Prof. Harding.
Pre. 1 and 2. Required in groups "A" and "C."

- a, A study of the structure, nature and working of American governmental and political institutions, federal and state; the federal system, constitutional interpretation, working relations of the national and state governments, state and territorial system, party machinery and methods, nature and action of public opinion. Supplemented by lectures on political science and American constitutional law. Bryce's American Commonwealth (abridged edition).
- 7 S.—Psychology, a 3, 3:15-4:15. Dr. Heston.
Pre. Eh. 6, Ms. 6, Bt. 2, Zo. 3, Ph. 3 and H-P. 1-3.
Required in groups "A," "B" and "C."
- a, Study of nervous mechanism at disposal of the mind. Discussion of the various phases of mental activity. Special attention given to the cultivation of mental faculties and will power.
Halleck's Psychology and Psychic Culture.
Also selections from Witmer's Analytic Psychology.
Lectures and discussion.
- 8 F.—Sociology, a 3, 3:15-4:15. Dr. Heston.
Pre. 7. Required in groups "A," "B" and "C,"
- a, This course is designed to introduce the student into the rich field of social science. He is here required to familiarize himself with the principal forms of social organizations; the thoughts, sympathies, purposes and virtues that make society possible; with the benefits society confers and the conduct that worthy membership of it requires. Such study lies at the foundation of all further consideration of social problems.
Gidding's Elements of Sociology.
Lectures and discussions.
- 9 F.—Municipal Government, a 3, 10:30-11:30. Prof. Harding.
Pre. 3, 5 and 6.
- a, A study of municipal government, with particular refer-

ence to the legal relation of the city to the state, and to the economic and social problems of American cities. Discussions, reports and papers.

- 10 F. American Territorial Development, a 2, 10:30-11:30. Prof. Harding. Pre. 5 and 6,
- a, The acquisition of territory and the problems that have from time to time grown out of it. Influence of frontier conditions upon nationality; slavery, democracy and the development of the American type of man.
- 11 F.—Comparative Politics, a 3, 1:15-2:15. Prof. Harding. Pre. 6.
- a, A comparative study of the constitutions and governments of the chief European nations. Lectures, discussions and reports.
Woodrow Wilson's "The State."
- 15 W.—Economics, a 5, 10:30-11:30. Dr. Heston. Pre. 8. Required in groups "A," "B" and "C."
- a, The effort here is to point out the true field of economic study; its leading features and practical bearing on the industrial affairs of life, also to get a correct view of various economic theories and their applications to our industrial activities.
Text-book, Bunlock's Economics.
Selected readings from Smith, Mills and others.
- 13 W.—International Law, a 5, 9:30-10:30. Prof. Harding. Pre. 5, 6 and 8.
- a, Sources of international law examined. Rights and obligations of nations connected with peace, war and neutrality. Class discussions and papers.
Lawrence's International Law.
- 14 S.—Ethics and Applied Psychology, a 5, 10:30-11:30. Dr. Heston. Pre. 7. 8 and 12. Required in groups "A," "B" and "C."

a, The course in Ethics includes a study of Ethical principles, grounds of governmental authority, discussions on conduct of individuals and nations.

Hickok's Moral Science.

Course in Applied Psychology is given. Lectures and selected readings.

Department of Mathematics and Astronomy.

Ms.

PROFESSOR BROWN.

The general work of this department is planned with the view of cultivating in the student habits of systematic and accurate thinking as well as of giving a knowledge of methods in dealing with the practical problems that may arise in college work and in future life. Independent effort is encouraged to the greatest possible extent, the solution of problems and original demonstrations forming an important part of each course. In mathematics, courses 1, 2, 3, 4 and 5 mentioned below are required of all students; course 6 of all except students studying Agriculture or Horticulture, and course 8 of students following group "B."

In addition to these, other courses are offered for election, including the prerequisites required in the other departments, together with subjects designed primarily for students who may wish to pursue special work in mathematics.

In Astronomy one course is required for graduation. This is intended to give such a knowledge of the science as an educated person should possess. A course in Practical Astronomy is also offered for election. The class room work of both these courses is supplemented by the use of instruments in the ob-

servatory. These include a five inch equatorial telescope, a transit instrument, a sidereal clock and a chronograph.

The following courses are offered:

- 1 W.—Algebra, a 5.
Required of Preparatory students.
 - a, The fundamental operations, involution, evolution, factors and multiples.
Beman & Smith's Elements.
- 2 S.—Algebra, a 5.
Pre. 1. Required of Preparatory students.
 - a, Fractions, simple equations of the first degree, indices, complex numbers.
Beman & Smith's Elements.
- 3 F.—Algebra, a 5, 10:30-11:30.
Pre. 2. Required of Sub-Freshman students.
 - a, Quadratic equations, inequalities, logarithms, ratio, variation, proportion.
- 4 W.—Geometry, a 5, 9:30-10:30.
Pre. 2. Required of Sub-Freshman students.
 - a, Especial emphasis is laid on original solutions.
Sanders' Plane Geometry.
- 5 S.—Geometry, a 5, 9:30-10:30.
Pre. 4. Required of Sub-Freshman students.
 - a, Completion of Plane Geometry.
- 6 F.—Solid Geometry, a 3, 9:30-10:30.
 - a, All the important principles of Solid Geometry will be covered.
- 7 W.—Trigonometry, a 5, 9:30-10:30.
Pre. 3 and 5. Required in groups A, B and C.
 - a, The trigonometric functions, analytically and graphically;

the use of logarithms, the solution of right and oblique triangles.

Wentworth's Trigonometry and Surveying.

- 8 F.—Algebra, a 5, 8:30-9:30,
Pre. 3. Required in group B.
- a, A review of the quadratic equation, the progressions, imaginary quantities, inequalities, permutations and combinations, the binomial theorem, logarithms.
- 9 F.—Spherical Trigonometry, a 2, 8:30.
- a, The principles and applications to solutions of problems.
Wentworth.
- 10 W.—Analytic Geometry, a 5, 8:30-9:30,
Pre. 7 and 8. Required in group B.
- a, The point, right line, the conics, the general equation of second degree.
Nichol's Analytic Geometry.
- 11 S.—Differential Calculus, a 5, 10:30-11:30.
Pre. 10. Required in group B.
- a, The differential co-efficient, the formulas of differentiation, the expansion of functions, successive and partial differentiation, indeterminate forms, tangents and normals, radius of curvature, evolutes and involutes, envelopes, maxims and minima.
- 12 F.—Integral Calculus, a 3, 8:30-9:30.
Pre. 11. Required in group B.
- a, Integration as the inverse operation of differentiation, integration of rational fractions, integration by rationalization, by substitution, reduction formulas, integration as a summation, rectification of curves, areas and volumes with numerous problems.
- 13 W.—Analytic Mechanics, a 5, 2:15-3:15.
Pre. 12. Required in group B.
- a, The application of analytic geometry and differential and

integral calculus to the problems of mechanics. The laws of equilibrium, motion, work and energy of particles and rigid bodies.

- 14 S.—Analytic Mechanics, a 5.
Pre. 13.
- a, A continuation of course 13. Lectures and references.
- 15 F.—Advanced Analytic Geometry, a 5.
Pre. 11.
- a, The general equation of the second degree. the analytic geometry of space, the point, plane, straight line, surfaces of the second order.
- 16 W.—Theory of Equations and Determinants, a 5, 1:15-2:15,
Pre. 9.
- 17 W.—Differential Equations, a 5, 2:15-3:15.
Pre. 13.
Johnson's Differential Equations.
- 18 F.—Astronomy, a 5, 9:30-10:30.
Pre. 7. Required in groups A, B and C.
- a, Astronomical instruments, astronomical co-ordinates, the earth, moon and sun; the planets, fixed stars and constellations; observations and measurements with the equatorial and the transit instruments.
Young's Manual.
- 19 S.—Practical Astronomy, a 3.
Pre. 7 and 14.
- a, Astronomical problems; use of ephemeris.

Department of Physics and Electrical Engineering.
Ph.

PROFESSOR MATHEWS; MR. HOY.

The various courses offered by this department are designed for four classes of students.

First:—Those desiring a scientific training where physics is necessary as a foundation subject.

Second:—Those expecting to gain some knowledge of the principles of physics and to fit themselves as teachers of science in our high schools.

Third:—Those wishing to make physics their major subject.

Fourth:—Those desiring to fit themselves for electrical engineers.

From the fact that physics is one of the foundation sciences and that a knowledge of its laws is necessary to every student seeking a scientific training, the department has been well fitted with rooms and appliances to provide this training. Its lecture rooms are well provided with arm-rest chairs. The laboratories are well lighted and provided with non-vibratory piers. Water, gas and electricity are provided for the recitation rooms, the dark room and laboratories.

This department is now housed in its new quarters in the engineering and physics building. Its facilities for instruction are now equal to those of any in the Northwest.

The laboratory equipment includes such expensive pieces as analytical balances, cathetometer, laboratory clock making electrical contact every second, spectroscope, microscope, photometers, stereopticon (arc light), Carhart-Clark standard cells, several different types of dynamos, electro-motor, galvanometers, storage battery, induction coils, ammeters, magnetometers, voltmeters, Wheatstone bridges, polariscope, quadrant electrometer, lathe, and wireless telegraphy and X-Ray apparatus.

A desirable arrangement of work for those who wish to take electrical engineering is shown on pages 71 to 77. The following is the list and descriptions of the courses offered in this department.

- 1 F.—Elementary Physics, $\left\{ \begin{array}{l} \text{a 3, 8:30-9:30.} \\ \text{b 2, 8:00-9:30.} \end{array} \right\}$
 Pre. with Ms. 1.
 a, Properties of matter, mechanics of solids, and mechanics of fluids.
 b, Laboratory work showing principal phenomena and proving laws governing them in properties of matter, mechanics of solids and mechanics of fluids.
 Carhart and Chute's Elements of Physics to page 119.
 Chute's Practical Physics—Laboratory Manual.
- 2 W.—Elementary Physics, $\left\{ \begin{array}{l} \text{a 3, 8:30-9:30.} \\ \text{b 2, 1:15-3:15.} \end{array} \right\}$ Prof. Mathews.
 Pre. 1 and Ms. 2.
 a, Heat, magnetism, static and current electricity.
 b, Laboratory work in heat, magnetism, static electricity, arrangement of batteries, detection of the electric current and its direction, induced currents and measurements of electrical resistance.
 Carhart and Chute's Elements of Physics, 119-260.
 Chute's Practical Physics—Laboratory Manual.
- 3 S.—Elementary Physics, $\left\{ \begin{array}{l} \text{a 4, 10:30-11:30} \\ \text{b 1, 1:15- 3:15} \end{array} \right\}$ Prof. Mathews.
 Pre. 2 and Ms. 2.
 a, Sound and light.
 b, Laboratory work in sound, color, refraction and reflection of light.
 Carhart and Chute's Elements of Physics, 260-374.
 Chute's Practical Physics—Laboratory Manual.
- 4 F.—General Physics, $\left\{ \begin{array}{l} \text{a 3, 8:30-9:30.} \\ \text{b 2, 8:00-9:30.} \end{array} \right\}$ Prof. Mathews.
 Pre. 1, 2, 3 and Ms. 7. Required in groups B and C.
 a, Mechanics of solids and fluids and heat with numerous examples.
 b, Exact measurements of mass, distance, time, calorimetry, etc.
 Hastings and Beach.
 Austin and Thwing.

- 5 W.—General Physics, $\left\{ \begin{array}{l} \text{a 3, 10:30-11:30,} \\ \text{b 2, 1:15- 3:15.} \end{array} \right\}$ Prof. Mathews.
 Pre. 4.
- a, Electricity and its applications in the dynamo, motor and transformer, electric light and study of electrical and magnetic fields.
 - b. Laboratory work on topics mentioned in (a).
 Hastings and Beach.
 Austin and Thwing.
- 6 S.—General Physics, $\left\{ \begin{array}{l} \text{a 4, 8:30-9:30.} \\ \text{b 1, 1:15-3:15.} \end{array} \right\}$ Prof. Mathews.
 Pre. 5.
- a, Nature and velocity of sound, refraction and reflection of light, interference and color.
 - b, Laboratory work on topics mentioned in (a).
 Hastings and Beach.
 Austin and Thwing.
- 7 F.—Advanced Physics, $\left\{ \begin{array}{l} \text{a 3, 10:30-11:30.} \\ \text{b 2, 1:15- 3:15.} \end{array} \right\}$ Prof. Mathews.
 Pre. 6; Ms. 7 and 12.
- a, Mechanics, kinematics, kinetics, mechanics of fluids, and heat and its applications.
 - b, Laboratory work and measurements covering topics mentioned in (a).
 Nichols and Franklin, Vol. I.
 Nichols' Laboratory Guide.
- 8 W.—Advanced Physics, $\left\{ \begin{array}{l} \text{a 3, 9:30-10:30.} \\ \text{b 2, 10:00-11:30.} \end{array} \right\}$ Prof. Mathews.
 Pre. 6 and Ms. 12. Required in Mechanical Engineering, in group B.
- a, Magnetism, electricity, electrolysis, induction currents, primary batteries, electric oscillations and waves.
 - b, Laboratory work on topics of (a).
 Nichols and Franklin, Vol. II.
 Nichols Laboratory Guide.

- 9 S.—Advanced Physics, $\left\{ \begin{array}{l} \text{a } 3, 9:30-10:30. \\ \text{b } 2, 1:15-3:15. \end{array} \right\}$ Prof. Mathews.
Pre. 6 and Ms. 12.
- a, Nature and motion of sound, physical theory of music, nature and propagation of light, refraction, reflection, interference, color and polarization.
- b, Laboratory work on topics of (a).
Nichols and Franklin, Vol. III.
Nichols' Laboratory Guide.
- 10 F.—Heat, $\left\{ \begin{array}{l} \text{a } 3, 2:15-3:15. \\ \text{b } 2, 1:15-3:15. \end{array} \right\}$ Prof. Mathews.
Pre. 7 and Ms. 12.
- a, Sensible and latent heat, dynamical generation of heat, thermometry, calorimetry, specific heat, atomic and molecular heat capacities, evaporation, ebullition, vapor densities, cooling, diathermancy, conductivity and dynamical equivalent of heat.
- b, Laboratory work covering topics mentioned in (a).
Preston's Theory of Heat.
Maxwell's Heat.
- 11 W.—Sound, $\left\{ \begin{array}{l} \text{a } 3, 1:15-2:15. \\ \text{b } 2, 1:15-3:15. \end{array} \right\}$ Prof. Mathews.
Pre. 9 and Ms. 12.
- a, A mathematical study of sound and the theory of music.
- b, Advanced laboratory work in sound.
- 12 S—Light, $\left\{ \begin{array}{l} \text{a } 3, 8:30-9:30. \\ \text{b } 2, 1:15-3:15. \end{array} \right\}$ Prof. Mathews.
Pre. 9 and Ms. 12.
- a, Shadows and images, spectrum, velocity of light, color, phosphorescence, fluorescence, diffraction, measuring waves, prisms and polarization.
- b, Laboratory work along same line as (a).
Preston's Light.

- 13 F.—Electricity and Magnetism, $\left. \begin{array}{l} \text{a 3, 2:15-3:15.} \\ \text{b 2, 1:15-3:15.} \end{array} \right\}$ Prof. Mathews. Pre. 6 and Ms. 13.
- a, Magnetism, static electricity, electric capacity magnetomotive force, electro magnets, electro dynamometers, grouping of cells, methods of measuring magnetism, current strength, voltage and resistance, thermo-electricity, dynamos, alternators, accumulators and transformers.
- b, Laboratory work on the above topics.
Thompson's Electricity and Magnetism.
Carhart and Patterson's Electrical Measurements.
- 14 W.—Dynamo Electric Mach., $\left. \begin{array}{l} \text{a 3, 9:30-10:30.} \\ \text{b 2, 10:00-11:30.} \end{array} \right\}$ Mr. Hoy.
Pre. 6 and Ms. 12. Required in Electrical Engineering, group B.
- a, Theory, magnetic circuit, equation and computation of parts of dynamo, construction of armature and field magnets and types of dynamos.
- b, Computation and construction of parts of small dynamos.
Thompson's Dynamo Electric Machinery.
- 15 S.—Dynamo Electric Mach., $\left. \begin{array}{l} \text{a 3, 9:30-10:30.} \\ \text{b 2, 1:15- 3:15.} \end{array} \right\}$ Mr. Hoy.
Continuation of course 14.
- 16 F.—Alternating Currents, $\left. \begin{array}{l} \text{a 3, 10:30-11:30.} \\ \text{b 2, 1:15- 3:15.} \end{array} \right\}$ Mr. Hoy.
Pre. 15 and Ms. 12.
- a, Theory of alternating currents, and the study of dynamos, motors, transformers, etc.
- b, Laboratory work on topics of (a).
Jackson's Alternating Currents.
- 17 W.—Elec. Light & Power Distribution, $\left. \begin{array}{l} \text{a 3, 8:30- 9:30} \\ \text{b 2, 9:00-10:30.} \end{array} \right\}$
Mr. Hoy. Pre. 16 and 12.
- a, Electric lighting, methods of wiring, efficiency of transmission, cost of material and construction.
- b, Laboratory work on topics of (a).

establishments. It is important that French be elected as the language that is required in addition to English.

The department will occupy, hereafter, the new Engineering building, for which provision was made by the last legislature. The work-shops are supplied with a large variety and quantity of tools. The wood-shop is furnished with twenty sets of carpenter tools and with eight wood-turning and one pattern-maker's lathe, a scroll saw and a complete set of tools for each. There is also a variety of special tools for wood-working.

The machine shop is furnished with engine lathes, planer, drill press, emery wheels and a great variety of hand tools. The machinery is driven by a 25 H. P. Atlas engine. A supply of instruments for testing work, such as indicators, planimeters and tachometers, are at the disposal of the students of the department.

Two courses in Architectural Drawing and Designing are offered. Additional work along this line will be given to students who desire it.

A large number of pictures, drawings, and illustrative material has been recently added to the equipment through the liberality of manufacturers and friends of the College.

The following work is offered:

- 1 F. and W.—Carpentry, b 3, 1:15 3:15. Prof. Solberg.
b, Talks on the care and use of different tools. Practice at the bench in making the various joints used in wood construction.
- 2 W.—Wood Turning, b 3, 1:15-3:15. Mr. Hoy.
Required in group B.
b, Wood turning in hard and soft woods.
- 3 F., W. and S.—Forging, b 3, 1:15-3:15. Mr. Hoy.
Required in group B.
b, Bending, drawing, up-setting, welding and forging iron.

- 3c F., W. and S.—Forging (steel), b 2, 1:15-3:15. Mr. Hoy.
 Required in group B.
- b, Steel manipulation, including cold chisels, punches and lathe and planer tools, tempering and hardening.
- 4 F., W. and S.—Machine Shop, b 2, 1:15-3:15. Mr. Hoy.
 Required in group B.
- b, Filing, clipping and fitting, work with different machines, such as lathes, planer and drill press.
- 4c F., W. and S.—Machine Shop, b 3, 1:15-3:15. Mr. Hoy.
 Required in group B.
- b, Construction of some machine or appliance from designs made in drawing room.
- 5 F., W. and S.—Mechanical Drawing, 1:15-3:15. Prof. Solberg. Pre Ar. 1. Required in group B.
- b, Instrumental drawing, geometrical problems, and parts of machines.
 This work is offered during the entire year, and at hours convenient to teacher and students.
- 5c F.—Architectural Drawing, b 5, 1:15-3:15. Prof. Solberg.
 Pre. Me. 5.
- b, Rendered drawings of simple buildings, examples of various orders, giving facility in draughtmanship, familiarizing students with principles.
- 6 W
 S.—Machine Design, $\left\{ \begin{array}{l} \text{b 2,} \\ \text{b 3,} \\ \text{b 2,} \end{array} \right\} 1:15-3:15$. Prof. Solberg.
 F.
 Required in group B.
- b, Solution of various problems involving the design of simpler parts of a machine.
 Klein's Machine Designs.
- 6c W.—Architectural Design, b 5, 1:15-3:15. Prof. Solberg.
 Pre. 1 and 2.
- b, Principles of planning introduced in practical problems, exercises in composition and details.

- 7 F.—Kinematics, b 5, 1:15-3:15. Prof. Solberg.
b, Geometry of machinery, problems in the design of motion transmitting appliances.
- 8 W.—Engineering Design, b 5, 1:15-3:15. Prof. Solberg.
b, Solution in the drawing room of some practical problems in design and making working drawings of same.
- 8c S.—Engineering Design, b 5, 1:15-3:15. Prof. Solberg.
Continuation of course 8.
- 9 F.—Elements of Mechanism, a 5, 9:30-10:30. Prof. Solberg.
a, Elements of machinery, velocity ratios, graphic representation of speed and acceleration. Motion transmitting parts, such as gears, belts, cams, screws, link work. Automatic feeds, parallel and quick return motions. Designing. Wood and Stahl.
- 10 S.—Steam Engine, a 5, 8:30-9:30. Prof. Solberg.
Required in group B.
a, Study of the modern steam engine, slide valve, and when in combination with independent cut-off valves, link motion and Zeuner diagrams, reciprocating parts and indicator practice.
Holmes' Steam Engine.
- 11 F.—Steam Boilers, a 5, 8:30-9:30. Prof. Solberg.
a, Advantages and disadvantages of using the various forms of boilers, methods in construction, tubes and flues, plates, riveting, bracing, grate and heating surface, gauges and feed appliances, setting, care and operation.
Wilson and Flather's Steam Boilers.
- 13 W.—Strains in Framed Structures, a 5, 8:30-9:30. Prof. Solberg.
a, Graphical determination of stresses under action of static, moving and wind forces.
Green, Vol. I.

- 14 S.—Farm Engineering, a 2, 8:30-9:30. Mr. Crane.
a, A short course for students in Steam Engineering.
- 15 S.—Algebra, a 3, 8:30-9:30. Mr. Hoy.
a, A special course for students in Steam Engineering.
-

SHORT COURSE IN PRACTICAL STEAM ENGINEERING.

Modern agricultural methods have introduced, in such a marked degree, the steam engine as a substitute for animal power that the consequent growing demand for steam engineers has led the college to arrange a one year course of study for the special training of steam (especially traction) engineers. Extreme care has been taken only to offer such work as shall prove valuable to the man running the traction engine or other machinery. A relatively large amount of shop work, engine repairing and engine running is introduced, with a proper proportion of recitations in closely allied subjects. Upon the satisfactory completion of this work the student is given a certificate which is virtually the same as a license in this state to run an engine.

Students who complete the work of the fall term of the Preparatory department will be admitted as candidates for certificate without entrance examinations. Others are expected to pass satisfactory examinations in Arithmetic and English as far as the Preparatory class carries those subjects in the fall term. Also to read intelligently and show such general elementary training as shall indicate that they are able to understand the subjects embraced in the Engineering course. At present this would require preparation in Arithmetic to percentage, and in English a thorough knowledge of Elements of Grammar and the Analysis of ordinary English prose sentences.

(Winter Term, January 5 to March 27.)

Arithmetic, a 5,	8:30-9:30
Physics of Steam, a 5,	9:30-10:30
Civil Government, a 2,	10:30-11:30
Physics, a 3,	10:30-11:30
Forging, b 3	1:15-3:15
Mech. Drawing, b 2,	1:15-3:15

(Spring Term, March 30 to June 17.)

Farm Engineering, a 2,	8:30-9:30
Algebra, a 3,	8:30-9:30
Physical Geography, a 5,	9:30-10:30
Steam Engine Lectures, a 5	10:30-11:30
Forging, b 2,	1:15-3:15
Mech. Drawing, b 3,	1:15-3:15
Engine Practice, b 5	3:15-5:15

Department of Civil and Agricultural Engineering. Ce.

PROFESSOR CRANE.

The aim of the work in this department is to impart a practical knowledge of the principles of land surveying, drainage and irrigation work, road construction, and in fact, all forms of civil engineering applicable to agricultural and municipal work, together with practice in the use of surveying instruments, manuals and tables, as well as the study of theoretical text-books on the subject.

The instruments are placed in the student's hands at once and he learns how to handle them from actual experience.

After he has had sufficient practice to understand the text in describing and explaining operations a text book course in the theory of surveying is given to supplement the practice.

Attention is given to the use, care and adjustment of the instruments and the relative values of different forms for particular kinds of work.

The use and distribution of water in growing crops will be studied, the principles of irrigation being supplemented by laboratory and field work.

The following courses are offered:

- 1 S.—Surveying, b 2, 1:15-3:15.
Field practice in the use of surveying instruments; computations from field notes; application of trigonometric formulas in surveying computations.
- 2 F.—Surveying, b 2.
A continuation of Course 1. Leveling and profile work; use of solar compass.
- 3 W.—Theory and Practice of Surveying, a 3, 1:15-3:15.
Study of text; the U. S. Manual; problems in practical surveying.
- 4 S.—Plotting, b 3, 1:15-3:15.
Graphical representations of fields, areas, etc., drawn to scale from field notes; profile drawing.
- 5 F.—Irrigation Engineering, a 5, 9:30-10:30.
A study of the development of irrigation from the earliest times; present application; use and distribution of water.
- 6 F.—Topographical Drawing, b 2, 1:15-3:15.
Representation of topographical features; contour lines; location of irrigation and drainage canals.
- 7 S.—Hydraulics, a 3, b 2, 9:30-10:30.
Study of flow of water and formulas for computation; water measurements; weirs and meters; coefficients of resistance.
- 8 F.—Road Construction, a 5, 9:30-10:30.
Principles, methods and materials used in the construction of roads and pavements; establishing grades; locating culverts and bridges; improvement of rural roads.

9 F.—Irrigation Experimentation, a 3, 1:15-3:15.

A general study of irrigation experiments as pursued by the different states and shown in their reports; application of different methods in South Dakota.

10 W.—Water Disposal, a 5, 1:15-2:15.

Study of drainage and the disposal of water either by use in irrigation or by sewer systems and carrying streams.

11 S.—Reservoirs and Dams, a 3, 8:30 9:30.

Location, construction and maintenance of reservoirs and dams for irrigation and waterworks purposes.

12 S.—Meteorology, a 2, 1:15-2:15.

General study of the subject; storms, their formation and course; climatic changes due to man's modification of earth's surface; Signal Service work and reports.

Department of Domestic Science.

DS.

MRS. FEULING.

The work of this department is designed not only to give the student a knowledge of the subjects which are so important to the house-keeper and home-maker, but in addition to develop the mind by training the hand, and at the same time teach the science of comfortable, healthful living. As an example, the work in sewing teaches the student how to make the various garments, their appropriateness under different conditions and the methods of manufacture of some of the common fabrics. Attention is given to dining room etiquette and the tasteful arrangement of the table. Several courses in ap-

plied science are offered, and all girls are required to take such work throughout the Sophomore year.

The department has ample room for its different sections of work which are well supplied with proper equipment such as sewing machines, cooking utensils and charts. A large number of illustrative samples are kept on hand for use in connection with lectures. Many books of reference and leading magazines on the subject are kept in the general library. For scheme of work in Domestic Science, see page 73.

The following fully describes the work offered:

- 1 S.—Sewing, b 3, 1:15-3:15.

Required in group C.

This course aims to give students an understanding of the stitches and methods employed in plain sewing. Each student is required to prepare a model book and make a suit of underwear. This course or its equivalent is necessary prerequisite to any other course in needle-work offered in the department.

- 2 F.—Cooking, b 3, 1:15-3:15.

Pre. Ch. 3, Bt. 3, Ph. 3, Zo. 2.

Carbohydrates, non-starchy vegetables and proteids. Particular stress is laid upon the scientific principles involved. The work consists of lectures, assigned readings, experiments and practical cooking.

- 3 F.—Household Economy, a 5. 2:15-3:15.

Pre. Ch. 3, Zo. 2.

Required of all girls.

The aim is to give the student an understanding of the principles underlying general housekeeping, including house furnishing, laundry work, domestic service, chemis-

try of cleaning, proper serving of foods, and marketing and household buying.

- 4 F.—General Hygiene, a 5, 8:30-9:30.
Pre. Ph. 3, Ch. 3, Zo. 2.

Special attention is paid to the principles of personal hygiene and to the relation of the housekeeper to public health, disease germs, common contagious diseases, and means by which the housekeeper can help prevent their spread.

- 5 F., S.—Sewing b 3, 1:15-3:15.
Pre. 1

Plain dress-making, drafting, cutting, fitting and general dress-making. The aim is to give the necessary training to enable the student to do home dressmaking. The Vienna Tailoring System is used.

- 6 W.—Cooking, b 3, 8:00-9:30.
Pre. 2.

Proteids, fats and fermentations, including the cooking of meats, soups, fish, game, butters and doughs.

- 7 W.—Foods, a 3, 9:30-10:30.
Pre. Ch. 1, 2, 3, Bt. 1, 2, 3, Ph. 1, 2, 3, Zo. 2.
Required of all girls.

Composition of the human body, classification of nutrients needed and a study of the different food stuffs as a source of supply. Food adulterations. Special study is given to the subject of dietetics. The balanced ration, combinations of foods mixed for workers, children, old persons, invalids. Practice in making proper menus for 25c to 60c per person each day.

- 8 W.—Foods, a 3.
Pre. 7.

Required of all girls.
A continuation of 7.

- 9 W.—Cooking, b 2, 1:15-3:15.
For short course and Sub-Freshman students. No pre.
The course will consist of lectures, experiments and practical cooking. Subjects to be determined.
- 10 W.—Sewing, b 3, 1:15-3:15.
For short course students.
The work will include the principles of plain sewing and will be adapted to the needs of the students. This course will be followed by plain dressmaking in the Winter of 1903-1904. No pre.
- 11 W.—Science Lectures, a 3, 3:15-4:15.
For short course students.
The lectures will deal with subjects bearing upon domestic science. Subject matter to be determined by needs of the class. No pre.
- 12 W.—Household Art, b 2, 8:00-9:30.
For short course students.
This course is intended as an introduction to the subject of house furnishing and decoration. Subject matter will be determined. No pre.
- ✓ 13 S.—Cooking, b 3, 8:00-9:30.
Pre. 6.
Continuation of 6 Canning, preserving, pickling, making of salads, preparation of beverages and hot-weather dishes.
- ✓ 14 F.—Home Nursing, Emergencies and Invalid Cookery, a 5, 9:30-10:30.
Pre. 2-6.
For advanced students.
Care of sick in the home, proper clothing, moving helpless patients, bandaging, baths, foods, etc. What to do in case of emergencies as burns, sprains, dislocation, unconscious Conditions. Practice in preparing foods for invalids.

- 15 S.—Household Sanitation, a 5, 1:15-2:15.

Pre. Ch. 1, 2, 3, Bt. 1, 2, 3, Ph. 1, 2, 3, Zo. 2.

Study of situation of house, with a discussion of soil and drainage of land. Building materials. Construction of cellar. Plumbing, water supply, heating, lighting, ventilation, cleaning and disinfection, disposal of garbage. Lectures, readings, papers, experiments. Buildings visited and critical reports made.

- 16 W., S.—Sewing, b 3, Art Needle-work, 1:15-3:15.

Pre. 1.

Principles underlying drawnwork, lace making as Battenberg, point lace, crocheting, knitting, tatting. Embroidery.

- 17 S.—Fabrics, a 5, 10:30-11:30.

Pre. Ch. 3, Bt. 3, Ph. 3.

For advanced students.

Historical study of the manufacture of the fabrics used in the sewing room as cotton, woolen, silk and linen.

- 18 W.—Dietary Studies, a 5.

a, Standard menus, marketing, cooking and serving meals, with instruction in entertaining and keeping accounts.

SHORT COURSE IN DOMESTIC SCIENCE.

For the benefit of young ladies who are not able to take an extended course in the college, special work in this and allied departments is offered. Their aim is to furnish sound training and thus to give an impetus to scientific applications in practical life. A certificate will be given to those students who complete in a satisfactory manner the following:

Household Art, b 2,	8:00-9:30
Horticultural and Home Gardening, b 3,	8:00-9:30
Domestic Dairying, b 2,	9:30-11:30
Cooking, b 2,	1:15-3:15
Sewing, b 3,	1:15-3:15
Science Lectures, a 3,	3:15-4-15

Music and Free Hand Drawing as desired.

Department of Art.

Ar.

MISS CALDWELL.

The aim of the work in the Art department is to train the eye and hand to give free expression to ideas; to develop observation, reflection and interpretation. Attention is given to drawing and modeling from casts and objects for thorough study of form; painting in oil and water color from nature for appreciation of color; sketching from nature in black and white, and in color to give material from which to construct original designs. Practical application of the principles of decoration is given by work in wood-carving and pyrography and designing for-art needle-work, for the Domestic Science department.

During the Winter term special work in public-school drawing is offered.

A certificate is given students who satisfactorily complete a three years' course of not less than five hours per week of work in these different branches:

FALL.

Design, a 1, Modeling, b 2, Wood Carving, b, 2	8:00-9:30
Drawing, b 3, Oil Painting, b 2,	9:30-10:30
Art History, a 2,	10:30-11:30
Drawing, b 3, Wood Carving and Pyrography, b 2,	1:15-3:15

WINTER.

Design, a 1, Modeling, b 2, Wood Carving, b 2,	8:00-9:30
Drawing, b 3, Painting, b 2,	9:30-10:30
Art History, a 2,	10:30-11:30
Drawing, b 3, Wood Carving and Pyrography, b 2,	1:15-3:15

SPRING.

Design, a 1, Pen and Ink, b 2. Water Color, b 2,	8:00-9:30
Modeling, b 2, Wood Carving and Pyrography, b 3,	9:30-10:30
Art History, a 2,	10:30-11:30
Drawing, b 3, Pyrography and Wood Carving, b 2,	1.15-3:15

Department of Music and Physical Culture.

Mu.

MISS MCNAMEE; MR. MANN.

This department will hereafter occupy the building formerly used as the girls' dormitory.

Any student taking special work in music must pursue whatever courses in other departments the faculty may think best unless a request from parents or guardian is received asking that the student be excused from this additional work. No major can be taken in this department; however, work above the second grade (see below) in both vocal and instrumental

music can be selected as counting towards a degree, according to the general rules.

A special fee of **ten dollars** per term will be charged all those who take music, either vocal or instrumental. This will cover both tuition and rental of instrument.

Two lessons of thirty minutes each are given per week as the required amount of instruction needed. Pupils are expected to practice two hours each day.

Instruction and practice hours are arranged by the professor and absence from either treated the same as from any other college exercise.

Music students are expected to take part regularly in the public recitals arranged, as in no other way can they secure that self control and confidence so necessary and valuable in a music education.

For the convenience of those who wish to make a specialty of music, the instruction offered is here set fourth in grades. The studies thus arranged are intended to give a broad and thorough musical education based not only on the classic masters, but embracing the best works of modern composers.

Piano Music.

Practice in note writing, ear training, etc., is begun in the first grade. Theory of Music is taken up with grade III, followed by Harmony and Musical History with grades IV and V. This work is taken in class.

Those who complete successfully the first four grades in piano music, theory of music, one year of harmony, and give a public recital, will be given a certificate in music.

Students who complete all of the grades in piano work, two years of harmony, history of music, and give a public recital, will be given a diploma in music.

GRADE I.

Position of hands, National Course of Music.

Duvernoy, Czerny, Touch and Technic.

Schumann's Studies for the Young.

GRADE II.

Mathews' Graded Studies, Czerny, Schmidt.
Loeschhorn, Heller, Bertini. Touch and Technic.

GRADE III.

Clementi, Kulau, Heller, Bach, Czerny, Haydn.
Chopin's Valses, Zwintscher.

GRADE IV.

Bach, Clementi, Cramer, Chopin, Mozart, Mendelssohn,
Kullak, Zwintscher, Tappert's School for left hand.

GRADE V.

Bach, Moscheles Beethoven, Compositions of Schubert,
Chopin. Handel, Schumann, Rubenstein, Grieg, Liszt,
Weber.

Voice Culture.

Pupils who complete the three grades below, together with theory of music and one year of harmony and give a public recital, will receive a certificate in music. To obtain a diploma, two years of harmony and one year of history of music will be required.

The work is as follows:

GRADE I.

Placing the voice, correct breathing, exercises for true production and attack, technical and other studies to suit the voice, Sieber op. 94, eight measure vocalises, Marchesi, twenty elementary vocalises, etc.

GRADE II.

Concone, Marchesi, Sieber, exercises in interpretation and expression, tone placement, songs.

GRADE III.

Sieber, Concone, Panofka, study of larger forms of execution, songs from Schumann, Schubert, Rubenstein, ballads and sacred songs.

Violin Music.

In this work the following is offered:

GRADE I.

Position, scale studies, exercises in bowing, Brayley's easy scale and finger exercises, Wohlfart op. 38, Easiest beginning, David's Violin School Part I, DeBeriot's School Part I, easy duets and solos.

GRADE II.

Hoffmann, School Part II, Kayser, Etudes, Op. 20, Hermann's School Part II, Hancla's Peletes Airs Varie, Pleyel's duets, Mazas, Op. 36, Part I Etudes speciales, solos.

Physical Culture.

Regular physical exercises are required of all and most excellent provision is now made for both sexes to secure systematic development of body and graceful carriage through indoor and field exercises.

This work is under careful and efficient supervision. A medical director has charge of the gymnasium exercises, and an experienced athletic trainer of all field sports.

Both sexes have well equipped gymnasiums. Girls are required to take regular class work in free movements with the dumb-bells and clubs and such other exercises as belong to indoor gymnastics according to requirements fully set forth in Part II.

Department of Military Science.*

Mt.

The wisdom of the Federal law, requiring military instructions in land grant colleges was forcibly illustrated in the war

*A United States Army officer is to be detailed for this work in September.

with Spain. Students and graduates of these colleges were potent factors in putting the volunteer army into proper condition for actual service.

Male members of the Preparatory department are required to take the drill of the Fall and Spring terms, but may omit the drill recitations of the Winter term.

All male students above the Preparatory department are required to take the work in military offered for the first two years they are connected with the college or until they complete the required number of courses. Male students of the Senior class are also required to take the course in military lectures (Mt. 7).

No exemption from military duty is allowed except for grave reasons. When such excuse is granted some other work satisfactory to the faculty must be taken as an equivalent. All the training is of such a nature as to fit young men for the duties of officers. Members of the battalion holding the highest military rank for this entire college work will, upon graduation, be reported to the Adjutant General of the United States Army who will publish their names in the Army Register. From this list officers are selected by appointment of the President of the United States for volunteer service in case of war.

The military work of the institution consists of drill, lectures, and recitations in United States drill regulations. Additional courses will be offered in this department as soon as a military officer is again detailed. The work is as follows:

1 F.—Setting up Drill, 3, 3:15-4:15.

Setting up exercises, military gymnastics and manual of arms.

2 W.—Drill Regulations, a 2, 3:15-4:15.

Pre. 1.

a, Recitations in United States Army Regulations.

-
- 3 S.—Drill, 3, 3:15-4:15.
Pre. 2.
Manual of arms and military gymnastics, with target practice.
- 4 F.—Drill, a 3, 3:15-4:15.
Pre. 3.
School of company and school of battalion.
- 5 W.—Drill Regulations, a 2, 3:15-4:15.
Pre. 4.
Recitations in U. S. army regulations and lectures on military science.
- 6 S.—Drill 3, 3:15-4:15.
Pre. 5.
General drill and target practice.
- 7 F.—Art of War, a 1, 3:15-4:15.
Pre. 6. Required of male members of the Senior class.
- a, Course of lectures on military science designed to fit young men for officers in the regular service.
-

Department of Pharmacy.

Py.

PROFESSOR WHITEHEAD.

This work is intended, primarily, to thoroughly teach young men and women the science of pharmacy.

The student may on completion of the courses of the Freshman and Sophomore years of group C given on page 77 receive the degree of Pharmacy Graduate (Ph. G.). This is the only work of the kind offered in the state and receives the hearty commendation of the State Board of Pharmacy. This lines of work offers many inducements to young men, the requests of

the druggists for graduates of the department being far in excess of the supply.

For the student intending to take up the study of medicine or dentistry, or who wishes to prepare himself to teach the sciences in the high schools of the state, a continuation of the work of this group to the completion of the Junior and Senior years is recommended. On the completion of the group the student may receive the degree of Bachelor of Science.

1 F.—Scientific Latin, a 5, 10:30-11:30.

Pre. Eh. 3.

a, Subject is taught with special reference to its application in Pharmacy. The vocabulary employed is strictly pharmaceutical.

Robinson's Grammar of Pharmacy and Medicine, first 80 pages.

2 F.—Pharmacy, a 5, 8:30-9:30.

Pre. Ch. 3.

a, Forms and uses of pharmaceutical apparatus, weighing by apothecary and metric systems, specific gravity of solids and liquids, heating apparatus, determination of boiling and melting points, distillation, comminution, solution, precipitation, filtration, crystalization, percolation.

3 W.—Pharmacy, a 5, 9:30-10:30.

Pre. 2 and Ch. 4.

a, Study of official medicines, waters, syrups, mucilages, mixtures, spirits, elixirs, liniments, infusions, tinctures, fluid extracts, oleoresins, extracts and official inorganic salts and compounds.

Remington's Practice of Pharmacy.

4 W.—Pharmacy, b 5, 1:15-3:15.

Pre. 2 and Ch. 4.

b, Preparation of waters, syrups, mucilages, etc., mentioned in course 3, and must be taken in connection with it.

Remington's Practice of Pharmacy.

- 5 S.—Pharmacy, a 5, 10:30-11:30.
Pre. 3 and 4.
- a, Solutions, emulsions, powders, pills, ointments, plasters; reading prescriptions.
Remington's Practice of Pharmacy.
- 6 S.—Pharmacy, b 5, 1:15-3:15.
Pre. Py. 3 and 4.
- b, Compounding of prescriptions, making of solutions, emulsions, powders, pills; reading and compounding prescriptions. Must be taken same term as course 5.
Remington's Practice of Pharmacy.
Ruddiman's Incompatibilities in Prescriptions.
- 7 F.—Materia Medica, a 5, 9:30-10:30.
Pre. Py. 4.
- a, Medicinal properties, doses and poisonous effects of the various medicines, together with the antidotes which the pharmacist may be required to administer in an emergency will receive full and careful treatment.
- 8 W.—Materia Medica, a 5, 8:30-9:30.
Pre. 7.
- a, Continuation of course 7.
Wilcox and White.
- 9 S.—Materia Medica, a 5, 9:30-10:30.
Pre. 8.
- a, Continuation of courses 7 and 8.
Wilcox and White.
- 10 S.—Drug Assaying, b 5, 3:15-5:15.
Pre. 3 and 4.
- b, The drug assaying consists mainly in acquiring knowledge and practice in the preparation of official tests and volumetric solutions and the quantitative determination of the alkaloids found in some of the crude drugs. A short course

in urine analysis is given in connection with drug assaying.
Pharmacopœia.

Lyon's Pharmaceutical Assaying.

Schimpf's Volumetric Analysis.

Department of Commercial Science.

Cl.

PROFESSOR CROSIER.

The Commercial department occupies commodious quarters on the second floor of the central building. Its rooms are exceptionally well suited to the work of the department and are supplied with tables, typewriters, offices for carrying on business transactions such as banking, mercantile and post-office work. There are two distinct courses of study offered in this department, each extending over a period of one year: the Amanuensis or Shorthand course, and the Business or Commercial course. When the student has satisfactorily completed either course he will be given a certificate of graduation. The applicant for graduation in the Amanuensis course must attain a shorthand speed, from general matter, of one hundred words per minute and transcribe the same on a machine at the rate of thirty-five words per minute. He must also show a thorough proficiency in his spelling, use of punctuation marks and other rules of composition and rhetoric. Neatness, thoroughness and speed are required of all. Penmanship and business letter writing, while not scheduled as a part of the regular course, are given particular emphasis throughout the year.

The admission requirements to the work of this department are the same as those to the Sub-Freshman class, except that Physical Geography is not required. No student should attempt either course until he has become proficient in the ele-

mentary branches of a common school education. It is both a waste of time and money to study shorthand and business branches before having formed the habit of correct spelling and neatness in written exercises. Students found to be deficient in any of the Preparatory work will be required to make up the same.

The expenses are the same as for any other work in the institution and far below what is usually charged for such instruction. College charges per term of twelve weeks are **five dollars**, which includes the use of a typewriter.

The work is as follows:

Amanuensis Course.

FALL TERM.

- 1 Shorthand, b 5, 1:15-3:15.
 - b, Consonant stems, vowels, diphthongs, initials and final hooks and circles, word signs, etc., in logical order. Elimination of vocalization through position; the habit of coordination emphasized from the beginning.
 - Graham's hand book to page 261.
- Eh. 1. Rhetoric, a 5, 9:30-10:30.
For description see the department of English.
- 2 Typewriting, b 5.
 - b, Graded exercises on machine to learn key board, care of machine; business letters, law forms, manifolding, and mimeographing; department correspondence, speed practice, binding, folding and filing of all kinds of typewritten matter. One hour each day during school hours.
 - 3 F. or W.—Bookkeeping, a 5, 8:30-10:30.
 - a, In all its elementary phases, as journalizing, posting, taking trial balances, closing ledger, changing from single to double entry, etc., paying special attention to penmanship, neatness and accuracy.
 - Benton's High School Edition, completed.

WINTER TERM.

- 4 Shorthand, b 5, 8:30-10:30.
- b, Completion of hand book, observing particularly reporting words, signs and contractions, word phrasing, etc., easy business letters and completion of I. C. R. Graham's Hand Book. Graham's I. C. R.
- Eh. 2. Rhetoric, a 5, 10:30-11:30. -
For description see the department of English.
- Pr. 6. Civil Government, a 5, 8:30-9:30.
For description, see Preparatory department.
- 5 Typewriting, b 5.
- b, Continuation of work of Fall term. One hour each day during school hours. Students are required to transcribe all work taken in shorthand.
- Military or Physical Culture, 3:15-4:15.

SPRING TERM.

- 6 Shorthand, b 5, 9:30-10:30.
- b, General dictation from Brown's Business correspondence. Humphrey's Typewriting Manual and Universal Dictation Book, devoting considerable time to law forms.
The aim of this term is to familiarize the individual with letters pertaining to all branches of commerce and social life.
Musick's Universal Dictation Book.
- 7 Commercial Law, a 5, 10:30-11:30.
- a, Law in general, contracts, principal and agent, partnership, corporations, sales of personal and real property, bailments and common carriers, negotiable paper, deeds, mortgages and leases, collection laws, legal rates of interest, insurance, patent rights, trade marks and copyrights. This work is conducted by the outline method and at the end of each week an original essay of not less than five hundred words is required of each member of the class on the work

covered during that period. At the close of the term an original disquisition of not less than five hundred words touching upon all the work is required. This must be typewritten, bound and in presentable shape to file for future reference.

Spencer's Commercial Law.

8 Typewriting, b 5.

b, One hour each day during school hours. All work of this term to be from shorthand notes. The purpose of this is to give the student the power to read notes readily and transcribe the same rapidly. A speed of thirty-five words per minute from shorthand notes is required for graduation.

9 Commercial Geography, a 4, 8:30-9:30.

a, This course is intended to give the student a practical knowledge of commercial conditions and methods and thus enable him the better to apprehend business.
Clow's Introduction to Commercial Geography.

10 Parliamentary Law, a 1, 8:30-9:30.

a, A short, concise course pertaining to the rules and regulations of parliamentary practice.
Lyon's Manual of Parliamentary Law.

Military or Physical Culture, 3:15-4:15.

Business Course.

FALL TERM.

3 Book-keeping, a 5, 8:30-9:30.

a, For description of work see Amanuensis course.
Completion of Benton's High School Edition.

Eh. 1. Rhetoric, 9:30-10:30.

For description of work, see department of English.

11 Intellectual Arithmetic, a 3, 1:15-2:15.

a, To qualify the student to make rapid mental calculations.
Multiplication table required up to twenty-five inclusive.

8 Typewriting, b 5.

b, One hour each day during school hours. For description see Amanuensis course.

Military or Physical Culture, 3:15-4:15.

WINTER TERM.

12 Book-keeping, b 5, 1:15-3:15.

b, Each student carries on regular retail business, through six offices, with the student body. While all transactions are of the same general nature the results are different, thus creating in the individual student a habit of self reliance. All work must be of a certain degree of excellency before the next step can be taken. This term's work comprises four hundred different transactions, together with the necessary letters, checks, drafts, notes, etc., that would naturally attend the same in actual business.

Pr. 6. Civil Government, a 5, 8:30-9:30.

13 Commercial Arithmetic, a 5, 9:30-10:30.

a, Short methods in addition, subtraction, multiplication and division, rapid calculation in percentage, interest, discount and ordinary arithmetical processes.

Goodyear's Progressive Arithmetic.

Ed. 2. Rhetoric, a 5, 10:30-11:30.

a, For description see the department of English.

Military or Physical Culture, 3:15-4:15.

SPRING TERM.

14 Business Practice, b 5, 1:15-3:15.

b, Business practice, changing work of previous term into wholesale and commission business. All transactions are carried out by students with outside colleges, thereby approaching, as nearly as possible, actual business.

Goodyear's System of Business.

7 Commercial Law, a 5, 10:30-11:30.

a, For description of work see Amanuensis course.

- 9 Commercial Geography, a 4, 8:30-9:30.
 a, For description of work see Amanuensis course.
- 10 Parliamentary Law, a 1, 8:30-9:30.
 For description of work see Amanuensis course.
- Military or Physical Culture, 3:15-4:15.

Sub-Freshman Year.

The work of this year is required for admission to the Pharmacy Department and to the regular College courses. It includes subjects which no student can well omit, however technical a training is desired. These courses serve as a foundation upon which the higher work is based, and so taught as to stimulate the desire of the student towards this broader education. At the same time, the work is thoroughly practical to every walk of life.

FALL TERM.

El. Physics (Ph. 1, a 3 b 2),	8:00- 9:30
Rhetoric, (Eh. 1, a 5),	9:30-10:30
Algebra, (Ms. 3, a 5),	10:30-11:30
El. Horticulture, (Ho. 1, a 2 b 1),	1:15- 3:15
*Dairying, (Ag. b 3),	2:15- 4:15
Military 3 or Physical Culture 2,	3:15- 4:15

WINTER TERM.

El. Physics, (Ph. 2, a 3 b 2),	8:00- 9:30
Algebra, (Ms. 4, a 5),	9:30-10:30
Rhetoric, (Eh. 2, a 5),	10:30-11:30
†Carpentry, (Me. b 3),	1:15- 3:15
*Dairying, b 2,	1:15- 3:15
Military or Physical Culture, 2,	3:15- 4:15

 SPRING TERM.

El. Zoology, (Zo. 1, a 4 b 1),	8:30- 9:30
Geometry, (Ms. 5, a 5)	9:30-10:30
†Breeds of Live Stock, (Ag. a 5),	10:30-11:30
†Cheese-making, b 3,	1:15- 3:15
Military of Physical Culture, 2.	3:15- 4:15

* Not required of those who do not intend to follow the scheme in Agricultural studies.

† Students not expecting to follow the scheme in Agriculture may choose Elementary Physics instead of Breeds of Live Stock, and Free-hand Drawing instead of Cheese-making. In the Winter Term the girls are required to take Cooking instead of Carpentry.

Preparatory Department.

Pr.

MR. FORSEE.

The work in this department is prerequisite to all the other courses offered. Standings from the public schools in the state, at the discretion of the Principal of the department, may be accepted, and due credit given for the same grade of work completed therein. The students of this department are under the immediate charge of an experienced member of the faculty, who superintends the methods of work, and strives to secure the forming of correct habits of work and life on the part of all. Students will not be admitted to this department unless they show sufficient development and training to carry the work offered.

A class in Elementary Algebra, reciting three times a week, will be formed at the beginning of the Fall term and continue their work throughout the year providing a sufficient number who have completed Arithmetic desire to take up this work.

The Franklin Literary Society is made up entirely of first and second year Preparatory and Short-course students.

The following courses are offered:

FALL TERM.

- 1 Arithmetic, a 5, 9:30-10:30.
Pre. Arithmetic to Percentage.
a, All the applications of percentage, analysis, rates and proportion, involution and evolution, mensuration, general review.
White's Complete Arithmetic.
- 2 English, a 5, 10:30-11:30.
Pre. A fair knowledge of Elementary Grammar.
a, Technical Grammar.
General review of Etymology, including analysis, parsing and construction of sentences. Syntax.
Maxwell's Advanced Lessons.
- 3 History, U. S., a 5, 1:15-2:15.
Pre. A general knowledge of the early history of the U. S., the revolutionary war and the war of 1812.
a, The industrial development of our country (p. 241), the long struggle with slavery, the indestructibility of the Union, the economic struggle, the growth of the Northwest.
McMaster's School History.
- 4 Book-keeping, a 3, 8:30-9:30.
a, Single and double entry sets in actual business.
Benton's High School Edition.
Military, 3, or Physical Culture, 2.

WINTER TERM.

- Ms. 1, Algebra, a 5, 8:30-9:30.
For description of work see Ms. 1, Department of Mathematics.
- 5 English, a 5, 9:30-10:30.
a, Practical applications of Course 2 from Fall Term's work, such as choice of words, meanings of words, preferred usages of words, according to best authorities.
Buehler's Practical Exercises.

6 Civics, a 5, 10:30-11:30.

- a, General principles of government, state government, branches of government, the national government, principles of law, municipal law, international law, completion of Young's Civics.

Young's Government Class Book.

7 English History, a 5, 1:15-2:15.

- a, Brief study of some elementary text.

Text to be announced.

Bookkeeping. a 3, 2:15-3:15.

- a, Repetition of Course 4. May be taken by those who did not take the work during the Fall Term.

Benton's High School.

SPRING TERM.

8 Elementary Physiology, a 5, 1:15-2:15

- a, The anatomy of the chief structures of the human body and their physiology.

Text to be announced.

9 English, a 5, 9:30-10:30.

Pre. 2 and 5.

- a, Continuation of Course 5. The class will take up higher work in preparation for Eh. 1. Exercises will consist of such work in construction and composition as may be required by the instructor in charge.

Butler's School English.

Ms. 2, Algebra, a 5, 8:30-9:30.

For description of work see Ms. 1, Department of Mathematics.

10 Physical Geography, a 5, 10:30-11:30.

- a, Physiography of United States, introduction to G1, 1.

Dryer's Physical Geography.

Military 3 or Physical Culture 2.

SOUTH DAKOTA
Agricultural College

DEPARTMENT OF

Military Science and Tactics



COURSE OF STUDY

AND

REGULATIONS

BROOKINGS, S. D., SEPTEMBER 1902
DUTCHER & BREED

Table of Contents.

Admission, Conditions of.....	59	Hatch Act.....	43-44
Agriculture.....	67, 71, 78-88	Heating.....	48
Agromony.....	85	History.....	107
Alumni.....	9-17	Horticulture.....	88
Amanuensis Course.....	143	Income, Sources of.....	42
Art.....	133	Instructors.....	4-5
Astronomy.....	112	Laboratories.....	46
Athletic Grounds.....	46	Languages.....	101
Athletics.....	56	Library.....	47
Band.....	38	Lighting.....	48
Botany.....	91	Literary Societies.....	38, 57
Buildings.....	45	Location of College.....	42
Business Course.....	145	Majors and Minors.....	65
Calendar.....	2	Mathematics.....	112
Cheese-making.....	83	Mechanical Engineering.....	74, 121
Chemistry.....	94	Military.....	39, 56, 137
Christian Associations.....	38, 57	Morrill Act.....	43
Civil and Agr. Engineering.....	76, 126	Museums.....	47
Collegian Staff and Organization.....	38, 58	Music.....	134
Commercial Science.....	142	Oratorical Association.....	38, 58
Committees, Faculty.....	6	Organizations, Student.....	38
Conditioned Students.....	61	Pharmacy.....	69, 77, 139
Course Defined.....	61	Philosophy.....	107
Dairying.....	82-83	Physical Culture.....	56, 134, 137
Degrees.....	63	Physics.....	115
Departments of Study.....	50-51	Post-Office, College.....	49
Department.....	63	Preparatory.....	148
Domestic Science.....	73, 128	Regents.....	3, 49
Domestic Science, Short Course in.....	132	Registration, Method of.....	60
Dormitory.....	54	Schedules of Courses.....	71-78
Economics.....	68, 107	Schemes of Study.....	64
Electives.....	65	Scholarships.....	55
Electrical Engineering.....	75, 115	Special Students.....	60
Engineering.....	67	Special Courses.....	64
English.....	105	Steam Engineering.....	125
Equipment.....	45	Student List.....	21-37
Establishment and Purpose of the College.....	41	Study Room.....	48
Examinations for Entrance.....	59	Sub-Freshman.....	147
Expenses, Student.....	53	Terms and Vacations.....	2, 53
Experiment Station.....	7, 44-46	Tuition.....	53
Faculty.....	4-5, 50	Tutoring.....	8, 52, 62
Farmers' Institutes.....	44	Veterinary Medicine.....	97
Farm.....	46	Violin Music.....	137
Geology.....	85	Voice Culture.....	136
Grades.....	61	Zoology.....	97
Graduate Club.....	9, 58		
Groups of Studies.....	64		
Gymnasium.....	46		

SOUTH DAKOTA AGRICULTURAL COLLEGE

DEPARTMENT OF

MILITARY SCIENCE AND TACTICS.

BROOKINGS, S. D., September 1st, 1902.

These regulations having received the approval of the President of the College, are published for the information and guidance of all concerned. They will be strictly observed until amended or revoked by competent authority.

(Signed) J. C. McARTHUR,
Capt. 28th Infantry U. S. Army,
Professor of Military Science and Tactics.

GENERAL INFORMATION.

1. Extracts from General Order 94, Headquarters of the Army, August 9th, 1902.

Par. II. The following regulations, in regard to the detail of officers of the Army at established colleges, universities, etc., within the United States, are prescribed by the President, under existing laws of congress:

1. All institutions, within the meaning of section 1225, Revised Statutes of the United States, and of the acts of Congress amendatory thereof, shall, for purposes of the detail of officers of the Army as military instructors and of the course of military instruction to be pursued thereat, be divided into three classes, as follows:

First Class.—All schools to which officers of the Army, active or retired, may be detailed under provisions of existing law, except schools of the second and third classes.

Second Class.—Agricultural schools established under the provisions of the act of Congress of July 2, 1862, and which are required by said act to include military tactics in their curriculum.

Third Class.—Military schools or colleges, i. e., those whose organization is essentially military and one of whose primary objects is the acquisition of a high degree of military drill and discipline.

9. Officers detailed as military instructors shall, at the end of each quarter, report in writing to the Adjutant General of the Army as to the exact compliance by the school authorities with these requirements of the regulations, for

such action as the Secretary of War may direct. A similar report shall be made annually by an officer of the Inspector General's Department, after a careful inspection of the military department of each institution, and if in any case the report is adverse the military instructor shall be withdrawn.

10. No detail of military instructor shall be made at any institution which does not guarantee to maintain at least 100 pupils under military instruction.

11. Pupils under military instruction shall be organized into companies and battalions of infantry, the drill and administration of which shall conform in all respects to that of the Army. The officers and the non-commissioned officers shall be selected by the military instructor according to the principles governing such selection at the United States Military Academy, and shall receive their commissions and warrants from the president of the institution.

12. Pupils organized for military instruction shall be known as "The company (or, battalion) of cadets of _____ Institution." Upon occasions of military ceremony, in the execution of drills, guard duty, and when students are receiving any other practical military instruction, they shall appear in the uniform prescribed by the institution. They shall be held strictly accountable for the arms and accouterments issued to them.

13. At every institution of the first class (see Paragraph III) at which a military instructor is detailed there shall be allowed a minimum of four hours each week during each school term to the department of military science and tactics; at every institution of the second class there shall be allowed a minimum of five hours; and at every institution of the third class there shall be allowed a minimum of six hours. This time shall be occupied as the military instructor, in view of the hereinafter prescribed cur-

riculum and such instructions as he may from time to time receive from the War Department, may deem best.

III. All rules and orders relating to the organization and government of the military students; the appointment, promotion and change of officers, and all other orders affecting the military department, except those relating to routine duty, shall be made and promulgated by the professor of military science and tactics after being approved by the president or other administrative officer of the institution.

IV. It is the duty of the professor of military science and tactics to enforce proper military discipline at all times when students are under military instruction, and in case of serious breaches of discipline or misconduct, to report the same to the proper authorities of the institution, according to the established methods. In case no suitable action is taken by the authorities of the school, the military instructor will report the facts to the Adjutant General of the Army with a view to his being relieved from an institution where discipline cannot be maintained.

V. The following is prescribed as the minimum course of military instruction, practical and theoretical, at all institutions to which a military instructor is assigned:

1.—AGRICULTURAL COLLEGES.

(a) Practical.

Infantry drill regulations, through the school of the battalion in close and extended order.

Advance and rear guards, and outposts.

Marches.

The ceremonies of battalion review, inspection, parades, guard mounting, and escort of the colors.

Infantry target practice.

Instruction in First Aid to the Injured.

A guard shall be mounted five times (weather permitting) in each week of the school year and the guard shall be practically instructed for one hour in the posting and relief of sentinels and their duties.

In no case shall target practice, to the extent permitted by the allowance of ammunition, be omitted during the school year except on authority given in each case by the Secretary of War.

Target practice on the range should be preceded by instruction in gallery practice, and at those institutions where range practice cannot be had, effort must be made to substitute gallery practice for it.

(b) Theoretical.

The Infantry Drill Regulations covered by the practical instruction.

The Manual of Guard Duty.

Small-Arms Firing Regulations, Parts I, II, and VII.

The Articles of War, with special reference to Articles 4, 8, 15, 20, 21, 22, 23, 24, 32, 38, 39, 40, 42, 44, 46, 47, 50, 55, 57, 61, and 65.

And the following records:

Enlistment and discharge papers, including descriptive lists.

Morning reports.

Field and monthly returns.

Muster rolls.

Rosters.

Ration returns.

Requisitions.

Property returns.

Ten lectures each year upon the following subjects, notes to be taken by the students and to be made the basis of subsequent recitations:

Two lectures on the organization of the United States

Army, including volunteers and militia.

One lecture on patrols and outposts.

One lecture on marches.

One lecture on camps and camp hygiene.

Three lectures on lines and bases of operations.

Two lectures on the attack and defense of advance and rear guards and outposts, and convoys.

All of the foregoing to be illustrated by historical examples.

The articles of war specifically mentioned are among the most important for the young officer to know upon first entering the service.

The records prescribed for study should be thoroughly understood by all graduating cadets, because they show how the soldier enters and leaves the service, how he is accounted for, paid, fed, clothed, armed, and how his military duties are regulated.

VII. The following are the regulations prescribed by the Secretary of War for the issue of arms, etc., required for military instruction and practice at colleges, universities, etc., under section 1225, Revised Statutes, and the amendments thereof:

2. Only such ordnance and ordnance stores as are enumerated in the following paragraphs will be issued for the purpose of military instruction to each selected college and university having an officer of the Army stationed thereat.

3. The field pieces of artillery, with their carriages and implements, will be limited to the following, viz:

2 muzzle-loading wrought-iron rifled guns, caliber 3 inches.

2 carriages and limbers for 3-inch gun.

2 gunner's haversacks.

2 trail handspikes.

4 lanyards.

- 2 priming wires.
- 4 sponges and rammers, 3 inch.
- 4 sponge covers, 3-inch.
- 2 tube pouches.
- 4 thumb stalls.
- 2 tompions, 3 inch.
- 2 vent covers.
- 1 pendulum hausse, 3 inch.
- 1 pendulum-hausse seat.
- 1 pendulum-hausse pouch.
- 2 paulins, 12 by 15 feet.

4. When in the opinion of the Chief of Ordnance the supply on hand will permit, there may be issued in lieu of the foregoing two of the 3.2-inch breech-loading steel field guns, with their carriages and implements, as above.

5. The small arms issued to any college will be the Springfield "Cadet" rifles, similar to those which were supplied the United States Military Academy at West Point, but in no case will the number of rifles issued be in excess of the number of male students in regular attendance and actually receiving military instruction.

6. The accouterments to be issued with the Cadet rifles will consist of a bayonet scabbard, cartridge box, gun sling, waist belt, and waist-belt plate.

7. The service non-commissioned officer's sword can be issued for the use of the officers and non-commissioned officers of the Corps of Cadets. The sliding frog will enable these swords to be worn on the ordinary waist belt.

8. A limited number of cavalry sabers and belts (for purposes of instruction only) will be issued when satisfactory evidence of their necessity is presented.

10. For practice firing, the following allowances of ammunition will be made annually to each of the various institutions, viz: One hundred blank cartridges and 300 fric-

tion primers for 3-inch, or for 3.2-inch breech-loading gun, as the case may be. Projectiles will not be issued for the field guns.

11. Ammunition for rifle target practice will be issued annually at the rate of 50 carbine ball cartridges (or their equivalent value in reloading material, reloading tools, or target supplies) for each cadet actually engaged in target practice, but there shall not be issued to any college more than 7,500 ball cartridges in any one year. Where it is not deemed practicable to have target practice, a limited quantity of rifle blank cartridges will be furnished for instruction in firing. This ammunition will be issued upon requisition to be forwarded to the Chief of Ordnance by the presidents or superintendents of the institutions; and as annual allowances date in all cases from July 1st of each year, requisitions should be forwarded before or as soon after that date as practicable for the current year's supply. Undrawn allowances of one year can not be drawn in the succeeding year.

18. The cost of all missing property must be made good to the United States.

20. The guns and carriages must not be allowed to remain out doors with only the paulins as a protection from the weather, but they must be housed in a suitable shed and habitually kept there except when used for drills or saluting purposes.

21. Regular property returns will be rendered quarterly to the Chief of Ordnance by each president or superintendent of an institution supplied with arms, etc., accounting for all ordnance and ordnance stores issued to the institutions under his charge. These returns will be made on the blank form to be supplied by the Chief of Ordnance.

22. Failure on the part of any institution of learning to comply with the foregoing regulations, or any others that

may be prescribed by the Chief of Ordnance for the care, preservation, or accountability of any ordnance or ordnance stores issued to it by the United States, will be considered sufficient cause for the prompt withdrawal by the Secretary of War of the Government property in its possession.

VIII. In the administration of each cadet battalion the adjutant, assisted by the sergeant major, shall keep a letter book, an order book, a roster, and a consolidated morning-report book. The quartermaster, assisted by the quartermaster sergeant, shall keep a book containing a record of all issues of government property with the receipts of those to whom issued. Each captain shall keep a morning-report book and, where necessary for the regulation of duty, a roster. At institutions of the third class the morning report shall be made out by the captains daily; at the other institutions on drill days or when the cadets are ordered to parade.

IX. The professor of military science and tactics shall render a quarterly report to the Adjutant General of the Army of the whole number of undergraduate students in the institution capable of performing military duty, the number required by the institution to be enrolled as military students, the average attendance at drills, the number absent, and number and kind of drills, recitations and lectures, or other instruction had during the quarter, and the number reported for discipline. He will retain copies of all reports and correspondence and transfer them to the officer who may succeed him, or forward them to the Adjutant General's office should the detail expire. On the graduation of every class he shall obtain from the president of the college and report to the Adjutant General of the Army the names of such students belonging to the class as have shown special aptitude for military service, and furnish a copy thereof to the adjutant general of the State for his information. At

those institutions which grade the department of military science and tactics equally with the other important branches of instruction, and which make proficiency in that department a requisite for securing a diploma, the names of the three most distinguished students in said department shall, when graduated, be inserted in the United States Army Register.

X. The military department shall be subject to inspection under the authority of the President of the United States; such inspections to be made, when practicable, near the close of the college year. The inspecting officer shall, upon his arrival at the institution, report to the president or other administrative officer, in order to obtain from him the necessary facilities for the performance of his duty. A copy of the report of inspection will be furnished the president of the institution by the War Department.

2. COURSE OF INSTRUCTION ADOPTED IN ACCORDANCE WITH REGULATIONS OF THE WAR DEPARTMENT.

All cadets are divided into three classes as follows:

1st class—Juniors and Seniors.

2nd class—Freshmen and Sophomores, with such other students as are of about equal academic rank.

3rd class—Preparatory and Sub-Freshman cadets and others of about equal academic rank.

All classes except Juniors and Seniors will be required to take the full military course. All Juniors and Seniors will be required to take the course of lectures and will be examined on the subjects covered. Cadets of these classes may elect to take the full course, and all will be required to turn out for unusual or great events. In other words, cadet privates of Junior and Senior classes will be excused from drill, but may be turned out at the will of the Commandant with the approval of the President.

Cadet Officers, Sergeants, and N. C. S. will be selected from the 1st and 2nd classes.

Cadet Corporals from the 3rd class.

FALL TERM.

PRACTICAL.

ALL.

Drills—Squad, company, and battalion,—close and extended order.

Guard, advance and rear guard and outposts, marches.

Ceremonies—Guard mount, inspection, review, parade.

1st class, Field Engineering, elements.

2nd class, Military Topography.

3rd class, Signaling, flag.

WINTER TERM.

PRACTICAL.

ALL.

Outside—Company and battalion drills
Guard, Reconnoissance. } When weather permits

Inside—Squad drill, bayonet exercise.

Military gymnastics.

First aid to the injured.

WINTER TERM—Continued.

THEORETICAL.

1st class—Records and papers, Field Engineering, Army Regulations, Lectures.

2nd class—Firing Regulations, Military Topography, Lectures.

3rd class—Drill Regulations, Guard Manual.

SPRING TERM.

PRACTICAL.

ALL.

Company and battalion drills, guard duty, practice

marches.

Ceremonies—Guard mount, inspection, review, parade, escort of colors.

Camp—Advance and rear guard, outpost, camp sanitation, cooking.

Solution of problems in minor tactics.

1st class—Field Engineering (Continued).

2nd class—Military Topography (Continued).

3rd class—Signal, Heliograph and Telegraph.

SIGNALING AND MILITARY TOPOGRAPHY.

This course is an exceedingly valuable one and it is regretted that time does not permit more exhaustive instruction. However, the earnest student may acquire much practical knowledge of telegraphy, map making and reading.

MORSE CODE (Telegraph).

A, --	J, ---	S, ...	1, ---
B, -...	K, --	T, -	2, ---
C, ...	L, —	U, ..-	3, ---
D, ---	M, --	V, ...-	4, ---
E, .	N, -.	W, --	5, ---
F, .-	O, . .	X, ---	6, ---
G, --	P,	Y, . . .	7, ---
H,	Q, ---	Z,	8, ---
I, ..	R, . . .		9, ---
			0, ———

Period, .- - - - Repeat, . . .
 Comma, .- - Go ahead, - - - -

SIGNAL SERVICE CODE.

(Prescribed by G. O. No. 32, A. G. O., 1896.)

A..... 22	J.....1122	S..... 212
B.....2112	K.....2121	T..... 2
C..... 121	L..... 221	U..... 112
D..... 222	M.....1221	V.....1222

E..... 12	N..... 11	W.....1121
F.....2221	O..... 21	X.....2122
G.....2211	P.....1212	Y..... 111
H..... 122	Q.....1211	Z.....2222
I 1	R..... 211	tion.....1112

Numerals.

1.....1111	2.....2222
3.....1112	4.....2221
5.....1122	6.....2211
7.....1222	8.....2111
9.....1221	0.....2112

Abbreviations.

a.....after	n.....not	ur.....your
b.....before	r.....are	w.....word
c.....can	t.....the	wi.....with
h.....have	u.....you	y.....yes

Conventional Signals.

End of word	3
End of sentence	33
End of message	333
xx3	numerals follow or numerals end
sig3	signature follows
Error	12 12 3
Acknowledgment, or "I understand"	22 22 3
Cease signaling	22 22 22 333
Wait a moment	1111 3
Repeat after (word)	121 121 3 22 3 (word)
Repeat last word	121 121 33
Repeat last message	121 121 121 333
Move a little to right	211 211 3
Move a little to left	221 221 3
Signal faster	2212 3

INSTRUCTIONS FOR USING THE SYSTEM.

The whole number opposite each letter or numeral stands for that letter or numeral.

To signal with flag, torch, hand lantern, or beam of search light.

There are but one position and three motions.

The first position is with the flag or other appliance held vertically, the signalman facing squarely towards the station with which it is desired to communicate.

The first motion ("one" or "1") is to the right of the sender and will embrace an arc of 90 degrees, starting with the vertical and returning to it, and will be made in a plane at right angles to the line connecting the two stations.

The second motion ("two" or "2") is a similar motion to the left of the sender.

The third motion ("front," "three" or "3") is downward directly in front of the sender, and instantly returned upward to the first position.

Numbers which occur in the body of a message must be spelled out in full.

TARGET PRACTICE.

All cadets will be required to take the prescribed course, and proficiency in this important branch of a soldier's duty will count on graduation. Prizes will be awarded for best company and individual scores.

ARTILLERY DRILL.

A detachment will be drilled once each week in loading, firing and maneuvering the piece.

GUARD DUTY.

As the War Department makes guard duty a prominent

feature of the new regulations, the following information is of special importance:

All cadets will be required to memorize the following:

My general orders are:

To take charge of this post and all Government property in view;

To walk my post in military manner, keeping constantly on the alert, observing everything that takes place within sight or hearing;

To report every breach of orders or regulations that I am instructed to enforce;

To repeat all calls from posts more distant from the guard house than my own;

To quit my post only when properly relieved;

To receive, transmit, and obey all orders from, and allow myself to be relieved by the commanding officer, officer of the day, an officer or non-commissioned officer of the guard only;

To hold conversation with no one except in the proper discharge of my duty;

In case of fire or disorder to give the alarm;

To allow no one to commit nuisance in the vicinity of my post;

In any case not covered by instructions, to call the corporal of the guard;

To salute all officers, and colors or standards not cased;

At night to exercise the greatest vigilance. Between retreat and broad daylight, challenge all persons seen on or near my post, and allow no person to pass without proper authority.

203. In addition to the foregoing, sentinels posted at the guardhouse or guard tent will be required to memorize the following:

Between the reveille and retreat, to turn out the guard

for all persons entitled to the compliment, for all colors or standards not cased, and for all armed parties approaching my post, except troops at drill and reliefs and detachments of the guard.

At night, after challenging any person or party, to advance no one, but call the corporal of the guard, repeating the answer to the challenge.

The following should be studied carefully:

INSTRUCTIONS FOR CHALLENGING— FIRE, ETC.

215. Between retreat and broad daylight, if a sentinel sees any person or party on or near his post, he will advance rapidly along his post toward such person or party, and when within about thirty paces will challenge sharply "Halt. Who is there?" If the reply be "Friend" the sentinel will answer, "Advance, friend, to be recognized," or, if the countersign be used, "Advance, friend, with the countersign." If the answer be "Corporal of the guard," "Relief," "Officer of the day," &c the same formula is used, substituting for "friend," "Corporal of the guard," &c.

218. In case of fire the sentinel will call "Fire, No. (—)," giving the number of his post; if possible he will extinguish the fire by his own efforts. In case of disorder he will call "The Guard, No. (—)."

If the danger be great, he will, in either case, discharge his piece before calling.

219. Until duly recognized by countersign or otherwise, the sentinel will allow no one to approach nearer than about ten feet from him.

COMPETITIVE DRILLS.

Competitive drills will be held twice yearly at the end of the fall and spring terms.

The competition will be between: 1st, companies; 2nd, selected squads; 3rd, individuals.

Prizes will be awarded individuals. The winning squad will be color guard, and the winning company color company until the next competition.

CAMP.

The battalion will go into camp at some point to be selected later. An entire week will be devoted to marching, making and breaking camp, camp sanitation, camp cooking, advance and rear guard, and outpost duty and the solution of problems in minor tactics.

PROMOTIONS.

Examinations semi-annual.

Appointments of officers and N. C. O. will be based largely on examinations, supplemented by: 1st, recommendation of cadet officers (in case of N. C. O.); 2nd, by approval of Commandant.

Competitive examinations for promotion will, in general, be coincident with the semi-annual examinations, and selections for officers and non-commissioned officers will be determined by:

1st, General standing—weight 60;

2nd, Examination (practical)—weight 40.

All cadet officers and non-commissioned officers will be required to compete at all examinations, and their continuance in office or promotion will depend on their proficiency so determined.

All cadets are invited to compete.

STANDINGS.

General standings for term, year, and course will be determined by:

1st, daily record;

2nd, examinations; their relative weights being, daily record, 60, examination, 40,

The daily record will be made up of:

1st, attendanceweight 30;
 2nd, discipline ;.....weight 30;
 3rd, instructionweight 40;

Cadets failing to average 70 per cent. on general standing for any year will be declared deficient.

EQUIPMENT.

Provided By the U. S. Government.

Each cadet is supplied with one cadet rifle, cal. 45; one set infantry equipment. After being issued this property, the cadet is held responsible for its care and preservation. Any damage due to carelessness or neglect must be paid for by him.

Two field guns with limbers and carriages are provided cadets for artillery practice. The library of military books at the office of the Commandant is at the service of all cadets. None of this property must be taken from its proper place on college campus without permission from Commandant.

PROVIDED BY CADETS.

BOOKS REQUIRED.

ALL.

Drill Regulations.

Guard Manual.

In Addition:

2nd class:

Army Regulations

Root's Military Topography.

1st class:

Army Regulations.

Beach's Field Engineering.

UNIFORMS.

All cadets will be required to provide themselves with the uniform prescribed by the college. Prices and other information may be obtained on application. Juniors and Seniors are not to dispose of their uniforms, as they are liable to duty at any time.

ATTENDANCE ON MILITARY EXERCISES.

All students classified for military duty are required to attend regularly and report promptly at the drill hour. When a cadet finds it will be necessary for him to be absent from any formation, he should, if possible, see the Commandant before each absence. If this be not practicable, he should report to the Commandant immediately on return to duty and submit excuse in the following form, to be written with pen and ink on single sheet of letter paper:

Report.

Absent from drill Oct. 21st, 1902.

The Commandant,

Battalion of Cadets, S. D. A. C.

Sir:—

In explanation of the above report, I have the honor to inform you, &c.

* * * * *

Very respectfully,

Cadet Private Co. "A."

MILITARY COURTESIES.

Next to discipline, and in fact, included in it, is the necessity for an observance of the distinction of rank. This deference is paid to the office, not to the man. Cadets will salute all commissioned officers between first call and re-

call, whether on or off the campus, and whether either or both are in uniform or civilian clothing.

This courtesy will also be paid the Commandant, who will in addition be entitled to the salute at all times while on the campus.

The attention of all is invited to paragraphs 451 to 461, both inclusive, Army Regulations.

DISCIPLINE.

During the drill period cadets will be required to submit to rigid discipline.

II. Offenses are divided into three classes, those of the first class being those for which ten (10) to fifty (50) demerits are awarded according to nature of offense, as "disobedience of lawful orders," insubordination towards officers and non-commissioned officers while in exercise of legitimate authority, and other offenses of like nature. Offenses of the second class are of a kind for which from four (4) to ten (10) demerits are awarded according to their nature, such as unexcused absence from drill or other formation, continued negligence or carelessness during a drill or other formation or offenses of like nature. Offenses of the third class are those for which from two (2) to four (4) demerits are awarded according to their nature, as late at drill or other formation, failure to appear in proper uniform at a drill or other formation where a uniform is prescribed, appearing at inspection in slovenly or dirty condition, or in other than the prescribed manner, inattention at drill, gazing about in ranks, laughing in ranks while at "attention", and offenses of like nature.

III. Any cadet receiving during a current week eight or more demerits will be awarded one tour of extra duty or two hours extra drill according to circumstances.

IV. The fact that certain offenses are specified will be

no bar to demerits being awarded for other offenses not named herein, the only requisite being that the offense shall be in violation of good order and military discipline.

V. The Band being a portion of the Cadet Battalion, its members are subject to these regulations.

VI. Any cadet receiving more than a hundred demerits during a term shall be declared deficient in discipline and fail to pass in Military and be compelled to serve an extra term to make up deficiency.