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AND

REGISTER.

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THE

UNIVERSITY OF NEBRASKA.

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CATALOGUE

1887-88,

AND

REGISTER.



LINCOLN:  
BY THE UNIVERSITY.  
1888.

STATE JOURNAL CO., PRINTERS.

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1888.

1889

**JULY**

Sun	Mon	Tues	Wed	Thu	Fri	Sat
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## UNIVERSITY CALENDAR.

1888.

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Thursday, March 29, THIRD TERM begins.

Saturday, June 9, Exhibition of the Union Society.

Sunday, June 10, Baccalaureate Address.

Monday, June 11, Exhibition of the Philodicean Society.

Tuesday, June 12, Exhibition of the Palladian Society.

Wednesday, June 13, Commencement Concert.

Thursday, June 14, COMMENCEMENT.

Friday and Saturday, June 15 and 16, Examinations for Admission.

Tuesday and Wednesday, Sept. 11 and 12, Examinations for Admission.

Wednesday, Sept. 12, FIRST TERM begins.

Friday, Dec. 21, FIRST TERM ends.

1889.

Thursday, Jan. 3, SECOND TERM begins.

Friday, Feb. 15, CHARTER DAY.

Friday, March 15, SECOND TERM ends.

Thursday, March 28, THIRD TERM begins.

Wednesday, June 12, COMMENCEMENT.

## BOARD OF REGENTS.

---

HON. CHARLES H. GERE, <i>President.</i>	Lincoln,	Term expires in 1891.
HON. MILTON J. HULL,	Edgar,	Term expires in 1887.
HON. JOHN T. MALLALIEU,	Kearney,	Term expires in 1887.
HON. LEAVITT BURNHAM,	Omaha,	Term expires in 1891.
HON. BYRON B. DAVIS,	McCook,	Term expires in 1893.
HON. GEORGE ROBERTS,	Creighton,	Term expires in 1893.



## THE FACULTY AND OTHER OFFICERS.

---

- IRVING J. MANATT, PH.D., LL.D.,  
*CHANCELLOR, and Professor of Political Science*  
(Room 5) 520 S. 16th st.
- HENRY E. HITCHCOCK, PH.D.,  
*Professor of Mathematics*  
(Room 15) 511 N. 16th st.
- GEORGE McMILLAN, PH.D.,  
*Professor of Greek*  
(Room 14) 1503 H st.
- AUGUST HJALMAR EDGREN, PH.D.,  
*Professor of Modern Languages and Sanskrit*  
(Room 2) 1446 Q st.
- LEWIS E. HICKS, PH.D.,  
*Professor of Geology and Allied Sciences*  
(Rooms 2, 4) Hotel Ideal.
- CHARLES E. BESSEY, PH.D.,  
*Professor of Botany and Horticulture*  
(Chem. Lab.) 1634 H st.
- EDGAR S. DUDLEY, 1st Lieut. 2d U. S. Artillery,  
*Professor of Military Science and Tactics*  
(Rooms 8, 10) 1527 M st.
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*Professor of Latin*  
(Room 13) 1805 D st.
- LUCIUS A. SHERMAN, PH.D.,  
*Professor of English Literature*  
(Room 25) 1138 T st.
- GEORGE E. HOWARD, M.A.,  
*Professor of History*  
(Room 20) 1504 S st.
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*Professor of Chemistry and Physics, and Director  
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 (Room 28) 1845 F st.
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 (Rooms 19, 20) 1730 D st.
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*Instructor in Mathematics*  
 (Room 6) 641 N. 16th st.
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*Teacher of Piano, Organ, and Voice Culture*  
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*Adjunct Professor of Rhetoric and Oratory*  
 (Room 27) 1746 C st.
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*Instructor in Physics and Astronomy*  
 (Chem. Lab.) University.
- JOSEPH A. FONTAINE, PH.D.,  
*Instructor in Modern Languages and Latin*  
 (Room 26) 1446 Q st.
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*Assistant in Chemical Laboratory*  
 Chemical Laboratory.
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*Teacher of the Violin, Harmony, and Counterpoint*  
 38 Ledwith Block.

J. STUART DALES, ESQ., *Steward*

(Room 1) 1242 P st.

ELLEN SMITH, M.A., *Registrar and Custodian of the Library*

(Room 16) 1204 U st.

HENRY H. WING. *Superintendent of the College Farm*

College Farm.

FRANK S. BILLINGS, D.V.M., *Director of the Station for the Study of  
Diseases of Animals*

(Room 34) 1939 E st.

## COLLEGE OF LITERATURE, SCIENCE, AND THE ARTS.

---

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EBENEZER W. HUNT, B.A., *Rhetoric and Oratory.*

SECRETARY.

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GEORGE BELL FRANFORTER, B.Sc., University of Nebraska, 1886. }	<i>Lincoln</i>	922 U st.
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WILL OWEN JONES, B.L., University of Nebraska, 1886. }	<i>Lincoln</i>	606 Grand Ave.
CONWAY G. McMILLAN, B.A., M.A., University of Nebraska, 1885, '86. <i>Instructor in Botany in the Uni- versity of Minnesota.</i> }	<i>Minneapolis, Minn.</i>	
AMANDA LEEPER TAYLOR, B.A., Simpson Centenary College, M.A. }	<i>Peru</i>	429 N. 13th st.
MARY ADELL TREEMAN, B. Sc., University of Nebraska, 1881. }	<i>Lincoln</i>	1318 R st.

## UNDERGRADUATE STUDENTS.

## SENIORS.

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Hovey Paine Barrett, LIT.	<i>Lincoln</i>	1611 Q st.
Jay Amos Barrett, CL.	<i>Lincoln</i>	1611 Q st.
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William Henry Wagner, LIT.	<i>Beatrice</i>	712 N. 16th st.
Cora Emily White, LIT.	<i>Lincoln</i>	1505 S st.

SENIORS, 20.

JUNIORS.

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Helen Barbara Aughey, SC.	<i>Lincoln</i>	1201 U st.
George Henry Baughman, LIT.	<i>Lincoln</i>	2630 R st.
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Charles Marvin French, LIT.	<i>Rulo</i>	1228 Q st.
George William Gerwig, CL.	<i>Allegheny City, Pa.</i>	4 State Block.
Laura Augusta Haggard, CL.	<i>Lincoln</i>	1320 G st.
Rachel Emerah Manley, SC.	<i>Lincoln</i>	1101 D st.
Charles Berry Newcomer, CL.	<i>Falls City</i>	4 State Block.
Alfred Pizey, LIT.	<i>Dakota City</i>	1641 P st.
Wilbur Wade Robertson, LIT.	<i>Ashland</i>	1504 S st.
Francis Haskell Shedd, CL.	<i>Ashland</i>	1449 S st.
William Logan Stephens, CL.	<i>Sutton</i>	445 N. 13th st.
Elbert Roy Tingley, SC.	<i>Lincoln</i>	3045 O st.
May Tower, LIT.	<i>Lincoln</i>	Cor. 24th and Q sts.
Abel Eveson Wagner, SC.	<i>Beatrice</i>	712 N. 16th st.
Herbert Webber, SC.	<i>Lincoln</i>	1020 G st.
Thomas Albert Williams, SC.	<i>Weeping Water</i>	1240 U st.
Jessie Benton Wolfe, CL.	<i>Lincoln</i>	423 S. 11th st.

JUNIORS, 26.

## SOPHOMORES.

Frank Fayette Almy, SC.	<i>Greenwood</i>	University.
Clark Fisher Ansley, CL.	<i>Suedonia, Ill.</i>	445 N. 13th st.
Elizabeth Bonnell, LIT.	<i>Lincoln</i>	1213 K st.
Edna Dean Bullock, LIT.	<i>Lincoln</i>	1423 Q st.
Annie Christine Childe, CL.	<i>Lincoln</i>	444 S. 9th st.
Amos Calvin Cope, SC.	<i>Lincoln</i>	1316 T st.
Clara Hettie Cramphorn, LIT.	<i>Marietta, O.</i>	1620 P st.
Edwin Farmer, CL.	<i>Albion</i>	1347 S st.
Edward Ellsworth Gillespie, LIT.	<i>Lincoln</i>	1630 G st.
Walter Bishop Graham, LIT.	<i>Seward</i>	445 N. 13th st.
Charles Buckingham Gregory, CL.	<i>Lincoln</i>	1230 L st.
David Avery Haggard, SC.	<i>Lincoln</i>	1320 G st.
Thomas Lee Hall, LIT.	<i>Verdon</i>	1631 Q st.
George Oscar Hearn, CL.	<i>Lincoln</i>	659 S. 18th st.
Harry King Heffleman, LIT.	<i>Anselmo</i>	2630 R st.
Ernest Raymond Holmes, LIT.	<i>Kearney</i>	1446 Q st.
Hugh LaMaster, LIT.	<i>Tecumseh</i>	623 S. 14th st.
Stephen Claude Langworthy, LIT.	<i>Seward</i>	445 N. 13th st.
Gertrude Hardenburg Laws, CL.	<i>Lincoln</i>	1108 H st.
Dena Kate Loomis, LIT.	<i>Lincoln</i>	1704 K st.
Joseph Hamlin Mallalieu, LIT.	<i>Kearney</i>	14 Billingsley Block.
Wilson Jay Marsh, CL.	<i>Waverly</i>	419 N. 27th st.
Thomas Herbert Marsland, SC.	<i>Lincoln</i>	Cor. L and 28th sts.
Edith Theodosia Mockett, LIT.	<i>Lincoln</i>	535 N. 16th st.
Hans Christian Peterson, SC.	<i>Lincoln</i>	902 S. 8th st.
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Francis Wayland Russell, SC.	<i>Ord</i>	1504 S st.
Sara Schwab, CL.	<i>Lincoln</i>	1600 L st.
Lucius Seymour Storrs, SC.	<i>Lincoln</i>	1708 M st.
Frank Collins Taylor, CL.	<i>Linwood</i>	1127 O st.
Guy Plummer Thurber, LIT.	<i>Lincoln</i>	831 N. 14th st.
Charles Edward Tingley, SC.	<i>Lincoln</i>	3045 O st.
Hans Theodore Westerman, LIT.	<i>Decatur, Ill.</i>	1522 S st.
Richard Owen Williams, CL.	<i>Lincoln</i>	732 J st.
Frank Henry Woods, SC.	<i>Lincoln</i>	2600 J st.

SOPHOMORES, 35.



FRESHMEN.

Evelyn Belle Ayres, CL.	<i>Huntington, Ind.</i>	1730 E st.
Joseph Allen Barris, SC.	<i>New Brighton, Pa.</i>	1310 L st.
Mabel Cynthia Barton, LIT.	<i>Kingsville, O.</i>	422 N. 12th st.
George Allen Beecher, CL.	<i>Kearney</i>	1510 P st.
Ida Bonnell, LIT.	<i>Lincoln</i>	1213 K st.
Lucy Cornelia Braun, SC.	<i>Sutton</i>	445 N. 13th st.
Edward Provost Brown, LIT.	<i>Lincoln</i>	221 S. 27th st.
William Brown, CL.	<i>Nebraska City</i>	1240 U st.
Daniel Wesley Bush, LIT.	<i>Sidney</i>	1500 S st.
Charles W. Cattern, CL.	<i>Mt. Ayr</i>	1311 M st.
Thomas Edward Chappell, CL.	<i>Neligh</i>	926 K st.
Henry Rolette Cooley, CL.	<i>Petters</i>	Cor. 9th and Van Dorn sts.
Charles Engelhard, SC.	<i>Rising City</i>	34 Ledwith Block.
Albert Alfred Faurot, CL.	<i>Rising City</i>	629 N. 16th st.
Nellie Amelia Felton, LIT.	<i>Lincoln</i>	1835 P st.
Elizabeth Content Field, SC.	<i>Lincoln</i>	2410 Q st.
Charles Hanna Fleming, CL.	<i>Omaha</i>	606 N. 16th st.
Clarence Conrad Fletcher, SC.	<i>Lincoln</i>	811 G st.
John Bernard Fogarty, CL.	<i>Gretna</i>	518 N. 14th st.
Pauline Friend, LIT.	<i>Lincoln</i>	718 J st.
Guy Henry Gere, LIT.	<i>Kansas City</i>	14 Billingsley Block.
Elmer Ellsworth Green, CL.	<i>Glen Rock</i>	522 N. 14th st.
<i>Graduate of the Nebraska</i>		
<i>State Normal School</i>		
William George Hoover, LIT.	<i>Blue Hill</i>	1458 U st.
Everett Huling, SC.	<i>Aurora</i>	14th st., on G.
Eugenia Linn, LIT.	<i>Humboldt</i>	445 N. 13th st.
James Warren McCrosky, LIT.	<i>Tecumseh</i>	Cor. 14th and S sts.
Agnes Ogilvie Mortimer, LIT.	<i>Lincoln</i>	1143 S. 8th st.
Jacob Oppenheimer, LIT.	<i>Lincoln</i>	423 N. 10th st.
Ralph Platt, SC.	<i>Grand Island</i>	1311 N st.
Norris Plumb, CL.	<i>Rulo</i>	1228 Q st.
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Henry Allen Reese, LIT.	<i>Wahoo</i>	1344 M st.
Edward John Righter, SC.	<i>Lincoln</i>	1547 H st.
Anna Rogers, SC.	<i>Lincoln</i>	937 L st.
Belle Rogers, SC.	<i>Lincoln</i>	937 L st.
Charles Daniel Schell, CL.	<i>Beatrice</i>	36 Richards Block.
Paul Harper Sroat, SC.	<i>Nebraska City</i>	334 N. 17th st.

Jennie McIntire Stout, LIT.	<i>Beatrice</i>	1215 G st.
Marie Lavinia Sundean, LIT.	<i>Lincoln</i>	1501 Q st.
Anna Lucile Taylor, CL.	<i>Lincoln</i>	1730 E st.
William James Taylor, CL.	<i>Lincoln</i>	1730 E st.
Katharine Weston, LIT.	<i>Beatrice</i>	1618 L st.
William Herbert Wheeler, LIT.	<i>Omaha</i>	527 S. 11th st.
Elinor Louise Williams, CL.	<i>Lincoln</i>	732 J st.
Thomas Frederick Williams, LIT.	<i>Portsmouth, Iowa</i>	2820 Z st.
Albert Frederick Woods, SC.	<i>Lincoln</i>	Cor. 26th and J sts.
		FRESHMEN, 46.

SPECIAL STUDENTS.

Charles Addison Beach	<i>Weeping Water</i>	15th st. bet. U and V.
Amy Blything	<i>Lincoln</i>	1327 L st.
Rosa Bouton	<i>Sabetha, Kas.</i>	1504 S st.
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Frederick Wallace Collins	<i>Fairfield</i>	1504 S st.
Idaer Annita Cornell	<i>Verdon</i>	1504 S st.
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Emma Eliza Davis	<i>Lincoln</i>	410 N. 12th st.
Ada Pearl Dement	<i>Lexington, Ill.</i>	36 Ledwith Block.
Henry Bruce Duncanson	<i>Aurora</i>	522 N. 14th st.
<i>Graduate of the Nebraska State Normal School</i>		
George Fossler	<i>Lincoln</i>	734 N. 9th st.
Eleanor Martha Hiltner	<i>Lincoln</i>	1301 N st.
Mabeth Hurd	<i>Newburyport, Mass.</i>	606 N. 16th st.
Anna Weddell LaMaster	<i>Tecumseh</i>	623 S. 14th st.
Edith Leighton	<i>Lincoln</i>	1700 R st.
Edward Leighton	<i>Lincoln</i>	1700 R st.
Emma Funke Little	<i>Lincoln</i>	1845 F st.
Katherine Daira McChesney	<i>Fullerton</i>	1220 R st.
<i>Graduate of Pennsylvania State Normal School</i>		
Bertha McMillan	<i>Lincoln</i>	1503 H st.
Minnie Julia Moore	<i>Lincoln</i>	1519 Q st.
Elinor Ann Mullon	<i>Lincoln</i>	1311 N st.
Margaret Mullon	<i>Lincoln</i>	1311 N st.
Lydia Grace Reynolds	<i>Lincoln</i>	621 N. 16th st.
May Lucile Roberts	<i>Lincoln</i>	126 S. 30th st.
Winfield Sherman Scott	<i>Lincoln</i>	1427 L st.
Cordie Margaret Sherer	<i>Red Cloud</i>	1431 R st.
Jessie Ismay Shilton	<i>London, England</i>	Cor. 14th and S sts.
Mary Estelle Southworth	<i>Harvard</i>	630 S. 17th st.
Nellie Millett Young	<i>Lincoln</i>	943 S. 9th st.

SPECIALS, 32.

## THE INDUSTRIAL COLLEGE.

## FACULTY AND OTHER INSTRUCTORS.

IRVING J. MANATT, PH.D., LL.D., *Chancellor of the University,*  
*ex-officio* PRESIDENT.

CHARLES E. BESSEY, PH.D., *Botany and Horticulture,*  
DEAN.

HENRY E. HITCHCOCK, PH.D., *Mathematics.*

GEORGE E. HOWARD, M.A., *History.*

HUDSON H. NICHOLSON, M.A., *Chemistry and Physics.*

LUCIUS A. SHERMAN, PH.D., *English Literature.*

LEWIS E. HICKS, PH.D., *Geology and Allied Sciences.*

EDGAR S. DUDLEY, U. S. A., *Military Science and Tactics.*

AUGUST H. EDGREN, PH.D., *Modern Languages.*

CHARLES N. LITTLE, PH.D., *Civil Engineering.*

HON. ROBERT W. FURNAS, *Forestry.*

HOWARD W. CALDWELL, B.PH., *History.*

HENRY H. WING, B.AGR., *Agriculture,*

SECRETARY.

RACHEL LLOYD, PH.D., *Analytical Chemistry.*

EBENEZER W. HUNT, B.A., *Rhetoric and Oratory.*

DEWITT B. BRACE, PH.D., *Physics and Astronomy.*

JOSEPH A. FONTAINE, PH.D., *Romance Languages.*

STUDENTS.

SENIORS.

Oscar Van Pelt Stout, ENG.	<i>Beatrice</i>	1215 G st. SENIOR, 1.
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JUNIORS.

Ernest George Eagleson, ENG.	<i>Craig</i>	1504 S st.
Hervey Bryan Hicks, ENG.	<i>Lincoln</i>	1427 L st.
Frank Austin Manley, ENG.	<i>Lincoln</i>	1101 D st.
George Henry Tinker, ENG.	<i>Lincoln</i>	321 S. 11th st.

JUNIORS, 4.

SOPHOMORES.

Harvey Eden Shotwell, ENG.	<i>Bennet</i>	1806 P st.
Lewis Herbert Stoughton, AGR.	<i>Perry, Iowa</i>	College Farm.

SOPHOMORES, 2.

FRESHMEN.

Llewellyn Byran, ENG.	<i>Audubon, Iowa</i>	712 N. 16th st.
Morgan McQuon Maghee, ENG.	<i>Laramie, Wyoming</i>	518 N. 14th st.
Leonidas Pethoud, ENG.	<i>Beatrice</i>	36 Richards Block.
Conrad Frederick Scharmann, ENG.	<i>North Platte</i>	1510 P st.
Charles Percy Walter, ENG.	<i>Lincoln</i>	1301 C st.

FRESHMEN, 5.

SPECIALS.

Earl Benton	<i>Rockwell City, Iowa</i>	1227 L st.
Gilbert Horace Ellsworth	<i>Red Wing, Iowa</i>	Cor. F and 17th sts.

SPECIALS, 2.

## THE LATIN SCHOOL.

## INSTRUCTORS.

CHARLES E. BENNETT, B.A., PRINCIPAL, *Greek and Latin*.  
 HUDSON H. NICHOLSON, M.A., *Chemistry*.  
 HOWARD W. CALDWELL, B.PH., *History*.  
 LEWIS E. HICKS, PH.D., *Zoology*.  
 CHARLES E. BESSEY, PH.D., *Botany*.  
 T. MOREY HODGMAN, B.A., *Mathematics*.  
 EBENEZER W. HUNT, B.A., *English*.  
 DEWITT B. BRACE, PH.D., *Physics*.  
 JOSEPH A. FONTAINE, PH.D., *Latin*.

## SECOND YEAR STUDENTS.

Lottie Huntington Andrus	<i>Lincoln</i>	1709 L st.
James Barkley	<i>Lincoln</i>	1436 S st.
Frank Elmer Bishop	<i>Lincoln</i>	1646 P st.
Bert Bonnell	<i>Omaha</i>	1807 R st.
Theophil Brugger	<i>Neboville</i>	1404 R st.
Horace Clason	<i>Lincoln</i>	935 C st.
Lyman Beecher Cornell	<i>Verdon</i>	1228 Q st.
Annie Eliza Edwards	<i>Lincoln</i>	530 N. 12th st.
Manford Edwin Davis	<i>Bennett</i>	1230 O st.
Thomas Eaton Doubt	<i>Lincoln</i>	1826 O st.
Edgar Stuart Dudley, jr.	<i>Lincoln</i>	1527 M st.
Robert Warren Gilbert	<i>Lincoln</i>	1507 A st.
Russell Augustine Grant	<i>Saltillo</i>	1222 O st.
Anna Harrison	<i>York</i>	1417 Q st.
Paul Llewellyn Hibbard	<i>York</i>	1746 C st.
Edna Elizabeth Hyatt	<i>Lincoln</i>	1311 L st.
Parkerson James Jewell	<i>Waverly</i>	556 N. 14th st.
Frank George Jewett	<i>Centre Ridge, Kas.</i>	Cor. J. & 26th sts.
Frederick Courtland Kenyon	<i>Unadilla</i>	1228 Q st.
Stella Anna Kirker	<i>Lincoln</i>	636 S. 17th st.
Edgar Charles Lewis	<i>Lincoln</i>	545 S. 11th st.

Cora Katherine Lyons	<i>Lincoln</i>	629 N. 16th st.
John Fremont Lyons	<i>Lincoln</i>	Cor. 18th and K sts.
Oliver Morton Males	<i>Lincoln</i>	1827 L st.
Avis Belle Manley	<i>Lincoln</i>	1101 D st.
Griffith Holmes Maghee	<i>Laramie, Wyoming</i>	518 N. 14th st.
Lulu Anna McBride	<i>Harvard</i>	1830 L st.
James Boyd McDonald	<i>North Platte</i>	1510 P st.
Elbert Ervin Munger	<i>Arapahoe</i>	410 N. 12th st.
Frank Alvord Noble	<i>Aurora</i>	1458 U st.
Amos Edward Perrin	<i>Roca</i>	1510 P st.
Grace Pershing	<i>Lincoln</i>	1803 R st.
May Pershing	<i>Lincoln</i>	1803 R st.
Norman Peters	<i>Albion</i>	1246 Q st.
Louise Pound	<i>Lincoln</i>	1542 P st.
Alfred Lemuel Rice	<i>Lincoln</i>	College Farm.
Myrtle Cecilia Robertson	<i>Ashland</i>	722 N. 16th st.
Floyd Seybolt	<i>Lincoln</i>	806 S. 11th st.
Carrie Wilhelmina Sidles	<i>Bennett</i>	1619 V st.
Charles McClellan Skiles	<i>Elmwood</i>	712 N. 16th st.
Martha Smith	<i>Fairmont</i>	1417 Q st.
Lura Adelia Stockton	<i>Lincoln</i>	629 N. 16th st.
William Lester Stockton	<i>Lincoln</i>	629 N. 16th st.
Frederick Amos Stuff	<i>Ashton, Ill.</i>	2630 R st.
Mattie Thurber	<i>Lincoln</i>	831 N. 14th st.
Eda Tibbles	<i>Bancroft</i>	441 N. 10th st.
May Tibbles	<i>Bancroft</i>	1512 R st.
Leroy Ellsworth Troyer	<i>Dorchester</i>	College Farm.
Mabel Irene Tuttle	<i>Lincoln</i>	650 S. 17th st.
George Franklin Unangst	<i>Lincoln</i>	East Lincoln.
Mary Emily Unangst	<i>Lincoln</i>	East Lincoln.
Lucy Upton	<i>Pierce</i>	710 S. 17th st.
William Colman Van Gilder	<i>Omaha</i>	Cor. 28th and U sts.
Mary Wedgwood	<i>Lincoln</i>	902 C st.
Roy McMillan Wheeler	<i>Creston, Ill.</i>	1503 H st.
Jacob Butler White	<i>Lincoln</i>	1505 S st.
John Piper Williams	<i>Lincoln</i>	732 J st.
Alice Earl Wing	<i>Lincoln</i>	Cor. 14th and Marion sts.
Jacob Vance Wolfe, Jr.	<i>Lincoln</i>	926 K st.
Clarence Dudley Wright	<i>Utica</i>	College Farm.
Bruce Clinton Yates	<i>Emerald</i>	1634 P st.



## FIRST YEAR STUDENTS.

Anna Mary Atwood	<i>Humboldt</i>	1505 S st.
Norman Burton Barr	<i>Holdrege</i>	1229 S st.
Fred Belt	<i>Bennet</i>	1731 L st.
Harvey Thomas Blatchley	<i>Sterling</i>	226 N. 10th st.
William Ellsworth Brook	<i>Ashland</i>	530 N. 12th st.
James Dysart Monroe Buckner	<i>Macedonia, Iowa</i>	Roca.
John Thomas Burton	<i>Waverly</i>	1926 Q st.
Jeannette Clenen	<i>Brooklyn, N. Y.</i>	134 S. 18th st.
Nellie Sherer Cochrane	<i>Lincoln</i>	1141 D st.
John Lewis Cohron	<i>Pleasant Hill, Mo.</i>	1027 F st.
Kittie Cowdery	<i>Lincoln</i>	1826 F st.
David Washington Crabtree	<i>Victoria</i>	556 N. 14th st.
Barney Ellsworth Crosby	<i>Tolona, Ill.</i>	930 K st.
Isabella Louisa Cross	<i>Victoria</i>	1505 S st.
Susie May Cyphers	<i>Rising City</i>	446 N. 14th st.
Anton Vincent Dworak	<i>Geneva</i>	433 N. 10th st.
Frank DeWitt Eager	<i>Davey</i>	835 N. 14th st.
Effa Edson	<i>Jamestown, Pa.</i>	1912 P st.
Mary Louise Engelhard	<i>Rising City</i>	19 Lansing Block.
John Edward Erb	<i>Lincoln</i>	2606 V st.
Ruth Everett	<i>Lyons</i>	1420 V st.
Frederick Filer Fowle	<i>Oak Creek, Wis.</i>	943 U st.
Harry Sherman Ganson	<i>Lodge Pole</i>	835 N. 14th st.
Charles Maltravis Haft	<i>Rapid City, Dak.</i>	1346 S st.
George Edward Hall	<i>Verdon</i>	1631 Q st.
Lucena Anna Hardin	<i>Lincoln</i>	344 N. 17th st.
Fred Elon Harris	<i>Lincoln</i>	2223 N st.
Walter Van Fleet Hoagland	<i>North Platte</i>	1302 L st.
Mary Billings Holmes	<i>Tecumseh</i>	1504 S st.
Fannie Hepsibah Hunt	<i>Wood River</i>	2609 K st.
Julia Marie Korsmeyer	<i>Lincoln</i>	923 S. 19th st.
Halbert Elmer Leedom	<i>Wood River</i>	College Farm.
Derrick Norman Lehmer	<i>Lincoln</i>	1336 D st.
Clyde Warren McCargar	<i>Lincoln</i>	1712 P st.
Stella Cornelia McGinnis	<i>Lincoln</i>	733 N. 16th st.
Otto Gabriel Miller	<i>Syracuse</i>	16 Quick Block.
John Philip Sheridan Neligh	<i>West Point</i>	545 N. 16th st.
Hugo Emil Nelson	<i>Oakland</i>	1240 U st.
Russell Neumann	<i>Oakland</i>	1240 U st.
Edward Everett Nicholson	<i>Lincoln</i>	418 N. 12th st.
Leffler Palmer	<i>Atwood, Kas.</i>	College Farm.



Frank Oscar Perrin	<i>Roca</i>	1510 P st.
Edith Lorraine Pierce	<i>Victoria</i>	1138 T st.
Paul Pizey	<i>Dakota City</i>	1641 P st.
Ernest Marsh Pollard	<i>Nehawka</i>	1840 N st.
Nelson Levi Pollard	<i>Nehawka</i>	1104 T st.
Carrie Curtiss Reed	<i>Lincoln</i>	1829 E st.
James Joel Roberts	<i>Lincoln</i>	126 S. 30th st.
Christian Rohwer	<i>De Soto</i>	1404 R st.
Selden Jay Ruliffson	<i>Lincoln</i>	1024 T st.
Albert Dudley Safford	<i>Lincoln</i>	1201 M st.
Willits Herbert Sawyer	<i>Lincoln</i>	1840 N st.
James Joseph Sayer	<i>Lincoln</i>	1635 V st.
Herbert Almon Senter	<i>Bancroft</i>	1240 U st.
Jeannette Mary Shedd	<i>Ashland</i>	518 N. 14th st.
George Lawton Sheldon	<i>Nehawka</i>	1104 T st.
Catharine Emily Shotwell	<i>Garrison</i>	629 N. 10th st.
Charles Benjamin Franklin Smith	<i>Solon</i>	1336 S st.
Cora Frances Smith	<i>Lincoln</i>	1631 F st.
Ernest Elwood Taylor	<i>Lincoln</i>	3042 S st.
Lewis Gilmore Thayer	<i>Iola, Kas.</i>	1420 V st.
Lea Travis	<i>Ashland</i>	College Farm.
Frank Palmer Vale	<i>Lincoln</i>	Hotel Ideal.
George Sherzer Walsh	<i>Lincoln</i>	1326 G st.
Mary Emerson Walton	<i>Lincoln</i>	1006 D st.
Montana Allen Whisler	<i>Ashland</i>	530 N. 12th st.
John C. Wilcockson	<i>Elmwood</i>	College Farm.
Bessie Russell Wing	<i>Lincoln</i>	Cor. 14th and Marion sts.
Harry Sheridan Winterrowd	<i>Newton, Ill.</i>	1440 R st.
Clarence Hubert Woods	<i>Lincoln</i>	825 J st.
Charles Atkinson Yont	<i>Brock</i>	1222 O st.

FIRST YEAR STUDENTS, 71.

# SPECIAL STUDENTS.

Nora Minerva Campbell	<i>Queen City, Mo.</i>	533 N. 14th st.
Kate Lorena Heizer	<i>Mediapolis, Iowa</i>	1804 R st.
Eugene Joseph Howard	<i>Colin</i>	556 N. 14th st.
Nathan McCrary	<i>Vandalia, Ind.</i>	1342 N st.
Clara Emma Meservey	<i>Blair</i>	1310 S st.
Charles Frederick Meth	<i>Grand Island</i>	1700 J st.
Ed Martin Roberts	<i>Lincoln</i>	126 S. 30th st.
Harriet Maria Tracy	<i>Harvard</i>	1830 L st.

SPECIAL STUDENTS, 8.

## SCHOOL OF THE FINE ARTS.

SARAH WOOL MOORE, *Art History, Painting, and Drawing.*

CHARLES N. LITTLE, PH.D., *Industrial Drawing.*

ERMINA DAY COCHRAN, M.A., *Piano and Voice.*

GUSTAV C. MENZENDORF, *Violin, Harmony, and Counterpoint.*

## ART STUDENTS.

Clark Fisher Ansley	Art History	<i>Suedonia, Ill.</i>
Harriet E. Barnard	Art History	<i>Lincoln.</i>
Mary J. Boyer	Drawing	<i>Lincoln.</i>
Earl Benton	Drawing	<i>Rockwell City, Iowa.</i>
Florence Briscoe	Drawing, Painting, Perspective	<i>Lincoln.</i>
Henry Barber	Drawing	<i>Lincoln.</i>
Harriet E. Coffroth	Art History	<i>Lincoln.</i>
Ada Bertha Caldwell	Drawing, Painting, Perspective	<i>Lincoln.</i>
Mabel Clason	Drawing	<i>Lincoln.</i>
Jennie Chapman	Painting	<i>Lincoln.</i>
Lizzie Crowley	Drawing, Painting	<i>Friend.</i>
Ida Cornell	Drawing	<i>Humboldt.</i>
Cora Damrow	Drawing, Art History	<i>Lincoln.</i>
Blanche Garten	Drawing	<i>Lincoln.</i>
Pearl Griffin	Drawing, Perspective	<i>Lincoln.</i>
Mabeth Hurd	Art History	<i>Newburyport, Mass.</i>
Anna Hall	Painting	<i>Lincoln.</i>
Henry Harley	Drawing	<i>Lincoln.</i>
Dora Harley	Drawing	<i>Lincoln.</i>
Grace Rae Imhoff	Drawing	<i>Lincoln.</i>
Woodward Jones	Drawing	<i>Lincoln.</i>
Minnie Belle Latta	Art History	<i>Lincoln.</i>
Dena Kate Loomis	Art History	<i>Lincoln.</i>
Carrie Leland	Drawing	<i>Lincoln.</i>
Edith Leighton	Drawing	<i>Lincoln.</i>
Gertrude Linley	Drawing, Painting	<i>Long Island, Kas.</i>

Rachel E. Manley	Art History	<i>Lincoln.</i>
Harley P. Mathewson	Art History	<i>San Gabriel, Cal.</i>
Norah Millspaugh	Art History	<i>Lincoln.</i>
Sophia McMurtry	Art History	<i>Lincoln.</i>
Winifred Manatt	Drawing, Painting	<i>Lincoln.</i>
William Whitney Manatt	Drawing	<i>Lincoln.</i>
Florence Marley	Drawing	<i>Lincoln.</i>
Bertha McMillan	Drawing	<i>Lincoln.</i>
Hazel Norton	Drawing	<i>Lincoln.</i>
Carrie Nyce	Drawing	<i>Lincoln.</i>
Olivia Pound	Drawing	<i>Lincoln.</i>
Edward Roberts	Drawing	<i>Lincoln.</i>
Alice Righter	Drawing	<i>Lincoln.</i>
Sarah Riley	Drawing	<i>Lincoln.</i>
Maggie Smith	Drawing	<i>Lincoln.</i>
Emma Stephenson	Drawing, Perspective, Art History	<i>Geneva.</i>
Mary Thompson	Drawing	<i>Lincoln.</i>
May Taylor	Art History	<i>Alton, Ill.</i>
Adele Wade	Drawing, Perspective, Art History	<i>Lincoln.</i>
Otis Weeks	Drawing	<i>Lincoln.</i>
Emily Weeks	Drawing	<i>Lincoln.</i>

ART STUDENTS, 47.

## MUSIC STUDENTS.

Anna M. Atwood	Voice	<i>Humboldt.</i>
Ella Bagley	Harmony	<i>Lincoln.</i>
Flora Baker	Voice	<i>Lincoln.</i>
Anna Barr	Piano	<i>Lincoln.</i>
Alma Benedict	Piano	<i>Lincoln.</i>
Ida Bierwirth	Violin	<i>Lincoln.</i>
Charlotte A. Boggs	Piano	<i>Lincoln.</i>
Lizzie C. Boggs	Piano	<i>Lincoln.</i>
Lucy Cornelia Braun	Voice	<i>Sutton.</i>
Nellie Cornell	Piano and Harmony	<i>Syracuse.</i>
Lulu Crone	Piano	<i>Lincoln.</i>
John Crowley	Violin	<i>Lincoln.</i>
Bella L. Cross	Voice	<i>Victoria.</i>
Ada Pearl Dement	Piano and Voice	<i>Lexington, Ill.</i>
Mary Louisa Engelhard	Piano	<i>Rising City.</i>
Elnetta Gaffney	Violin	<i>Lincoln.</i>
Lester C. Greenman	Violin	<i>Peru.</i>
Thomas Lee Hall	Voice	<i>Verdon.</i>
George Hall	Voice	<i>Verdon.</i>
Anna Hawkins	Violin	<i>Lincoln.</i>
Eleanor Hiltner	Piano	<i>Lincoln.</i>
Oetta Hulburt	Voice	<i>Lincoln.</i>
Fannie Hunt	Piano	<i>Wood River.</i>
Mabeth Hurd	Voice	<i>Newburyport, Mass.</i>
Nellie Hyde	Piano	<i>Lincoln.</i>
Fred Korsmeyer	Violin	<i>Lincoln.</i>
Julia Korsmeyer	Piano	<i>Lincoln.</i>
Alla Lantz	Voice	<i>Lincoln.</i>
Gertrude F. Lindley	Piano and Voice	<i>Long Island, Kas.</i>
Mabel Lindly	Piano	<i>Lincoln.</i>
Dena K. Loomis	Voice	<i>Lincoln.</i>
Winifred Manatt	Piano	<i>Lincoln.</i>
Lulu A. McBride	Piano and Harmony	<i>Harvard.</i>
Katherine D. McChesney	Harmony	<i>Fullerton.</i>
Arthur McKinnon	Violin	<i>Lincoln.</i>
Louise Merrill	Harmony	<i>Lincoln.</i>
Jessie Miller	Piano	<i>Lincoln.</i>
Bessie Meta Okeson	Piano, Voice, and Harmony	<i>Lexington, Ill.</i>
Edith L. Pierce	Voice	<i>Victoria.</i>

Arletta M. Pittman	Piano and Harmony	<i>Lincoln.</i>
Louise Pound	Piano and Sight Reading	<i>Lincoln.</i>
Olivia Pound	Voice	<i>Lincoln.</i>
Harry Allen Reese	Voice	<i>Wahoo.</i>
Jennie D. Rehlænder	Piano	<i>Lincoln.</i>
Lydia Grace Reynolds	Piano	<i>Lincoln.</i>
Alice M. Russell	Piano	<i>Ord.</i>
Edith E. Russell	Voice	<i>Ord.</i>
Conrad Frederick Scharmann	Voice	<i>North Platte.</i>
Anna Seybolt	Piano	<i>Lincoln.</i>
Jeannette Shedd	Piano	<i>Ashland.</i>
Cordie Margaret Sherer	Piano	<i>Red Cloud.</i>
May E. Southworth	Piano, Voice, and Harmony	<i>Harvard.</i>
Clarence Stewart	Violin	<i>Lincoln.</i>
Lura Stockton	Piano	<i>Lincoln.</i>
Amanda L. Taylor	Piano	<i>Peru.</i>
Georgia Taylor	Piano, Voice, and Harmony	<i>Lincoln.</i>
Hattie M. Tracy	Piano and Harmony	<i>Harvard.</i>
John T. Watters	Violin	<i>Leroy, Ill.</i>
Herbert Webber	Voice	<i>Lincoln.</i>
Grace Weir	Voice	<i>Lincoln.</i>
Elinor Williams	Piano	<i>Lincoln.</i>
Charles Witte	Violin	<i>Lincoln.</i>
Albert F. Woods	Voice	<i>Lincoln.</i>
Nellie Young	Harmony	<i>Lincoln.</i>

NON-RESIDENT PUPILS.

R. G. Ball	Violin	<i>Beatrice.</i>
Curtis John Ballard	Violin	<i>Beatrice.</i>
Laura Barrett	Violin	<i>Beatrice.</i>
Irving E. Ingraham	Viola	<i>Beatrice.</i>
Henry D. Riecker	Violin	<i>Beatrice.</i>
Jessie Robbins	Violin	<i>Beatrice.</i>
John W. Robinson	Violin	<i>Beatrice.</i>
William Wiebe	Violin	<i>Beatrice.</i>

MUSIC STUDENTS, 72.

## UNIVERSITY ORCHESTRA.

GUSTAV C. MENZENDORF, Conductor.  
 ERMINA D. COCHRAN, Pianist.  
 GEORGE B. FRANKFORTER, 1st Violin.  
 NELLIE YOUNG, 1st Violin.  
 CLARA YOUNG, 2d Violin.  
 JOHN T. WATTERS, 2d Violin.  
 LLEWELLYN BRYAN, 2d Violin.  
 EMMA YOUNG, Viola.  
 SADIE YOUNG, Cello.  
 FRANKLIN W. KRAMER, Flute.  
 GILBERT H. ELLSWORTH, Flute.  
 JOSEPH R. SCHOFIELD, 1st Clarionet.  
 THOMAS A. WILLIAMS, 2d Clarionet.  
 WILLIAM O'SHEA, 1st Cornet.  
 ERNEST G. EAGLESON, 1st Cornet.  
 CONRAD F. SCHARMANN, 2d Cornet.  
 JAMES B. McDONALD, Trombone.

## UNIVERSITY CHORUS.

## SOPRANOS.

ANNA ATWOOD  
 FLORA BAKER  
 ALMA BENEDICT  
 LUCY C. BRAUN  
 A. PEARL DEMENT  
 DENA K. LOOMIS  
 BESSIE M. OKESON  
 MAY PERSHING  
 EDITH PIERCE  
 MAY TOWER

## TENORS.

HOVEY P. BARRETT  
 ROY G. CODDING  
 DERRICK N. LEHMER  
 ALBERT F. WOODS

## ALTOS.

HELEN AUGHEY  
 LIZZIE BONNELL  
 IDA BONNELL  
 GRACE PERSHING  
 NELLIE M. YOUNG

## BASSES.

GEORGE W. GERWIG  
 WALTER B. GRAHAM  
 THOMAS L. HALL  
 GEORGE HALL  
 HARRY A. REESE  
 CONRAD F. SCHARMANN  
 FRANK C. TAYLOR  
 BURT WHEELER

## MILITARY DEPARTMENT.

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### BATTALION ORGANIZATION.

#### STAFF.

LIEUT. ROY G. CODDING, Acting Adjutant.

SERGEANT CHARLES P. WALTER, Acting Sergeant-Major.

#### BAND.

DAVID F. EASTERDAY, Instructor.

GEORGE H. BAUGHMAN, Drum Major.

GILBERT H. ELLSWORTH, Piccolo.

THOMAS A. WILLIAMS, Bb Clarionet.

GEORGE O. HEARN, Eb Cornet.

WILLIAM H. WHEELER, 1st Bb Cornet.

FRANK A. NOBLE, Solo Alto.

HARRY A. REESE, 1st Alto.

JAMES J. SAYER, 2d Alto.

ALFRED PIZEY, Tenor.

JAMES B. McDONALD, Baritone.

FRANK E. BISHOP, Trombone.

OTTO G. MILLER, Tuba.

WILLIAM E. BROOK, Snare Drum.

OLIVER M. MALES, Bass Drum and Cymbals.

#### OFFICERS

##### *Co. A.*

CAPT. ROSCOE POUND.

1ST LIEUT. JOSEPH R. SCHOFIELD

2D LIEUT. ORPHEUS B. POLK.

##### *Co. B.*

CAPT. ARTHUR E. ANDERSON.

1ST LIEUT. ROY G. CODDING.

2D LIEUT. CHARLES S. LOBINGIER.

##### *Co. C.*

CAPT. JARED G. SMITH.

1ST LIEUT. HARVEY P. MATHEWSON, JR.

2D LIEUT. OSCAR V. STOUT.

## SERGEANTS.

*Co. A.*

1. HERBERT WEBBER.
2. CHARLES P. WALTER.
3. THOMAS S. ALLEN.
4. THOMAS H. MARSLAND.

*Co. B.*

1. G. W. GERWIG.
2. WILLIAM L. STEPHENS.
3. REUBEN D. CHURCH.
4. HARRY B. HICKS.
5. HUGH LA MASTER.

*Co. C.*

1. WILLIAM N. FLETCHER.
2. DAVID D. FORSYTHE.
3. FRED H. WOODS.
4. ALBERT A. REED.

## CORPORALS.

*Co. A.*

1. DAVID A. HAGGARD.
2. FRANK F. ALMY.
3. HANS C. PETERSON.
4. ALBERT F. WOODS.

18 Privates.

*Co. B.*

1. CHARLES B. NEWCOMER.
2. WILLIAM J. TAYLOR.
3. EDGAR S. DUDLEY, JR.
4. HARRY K. HEFFLEMAN.

24 Privates.

*Co. C.*

1. ERNEST G. EAGLESON.
2. GEORGE H. TINKER.
3. ORIEN W. FIFER.
4. THOMAS L. HALL.

18 Privates.



ARTILLERY.

UNIVERSITY BATTERY.

1ST LIEUT. E. S. DUDLEY, 2D U. S. Artillery, COMMANDING.

*A Co. Detachment.*

SERGT. CHARLES P. WALTER,  
COMMANDING.

ROSCOE POUND,  
GUNNER.

*B Co. Detachment.*

SERGT. ROY G. CODDING,  
COMMANDING.

CHARLES E. TINGLEY,  
GUNNER.

CANNONEERS.

F. F. ALMY.  
THEO. BRUGGER.  
CHAS. HAFT.  
D. A. HAGGARD.  
P. J. JEWELL.  
G. H. MAGHEE.  
T. H. MARSLAND.  
H. C. PETERSON.  
J. R. SCHOFIELD.  
F. SEYBOLT.  
GUY THURBER.

H. B. DUNCANSON.  
F. D. EAGER.  
E. FARMER.  
H. B. HICKS.  
E. C. LEWIS.  
J. H. MALLALIEU.  
C. B. NEWCOMER.  
W. L. STEPHENS.  
F. C. TAYLOR.

*C Co. Detachment.*

SERGT. JARED G. SMITH,  
COMMANDING.

ALBERT A. REED,  
GUNNER.

CANNONEERS.

WM. BROWN.  
H. R. COOLEY.  
J. B. FOGARTY.  
T. L. HALL.  
H. E. NELSON.  
E. M. POLLARD.  
F. H. WOODS.

# THE AGRICULTURAL EXPERIMENT STATION OF NEBRASKA.

## OFFICIAL ROSTER.

### GOVERNING BOARD (REGENTS OF THE UNIVERSITY.)

CHARLES H. GERE, Lincoln .....	Term expires in 1892.
<i>President.</i>	
JOHN T. MALLALIEU, Kearney.....	Term expires in 1890.
MILTON J. HULL, Edgar .....	Term expires in 1890.
LEAVITT BURNHAM, Omaha .....	Term expires in 1892.
BYRON B. DAVIS, McCook.....	Term expires in 1894.
GEORGE ROBERTS, Creighton .....	Term expires in 1894.

### EXECUTIVE COMMITTEE.

CHARLES H. GERE,      LEAVITT BURNHAM,      CHARLES E. BESSEY.

### VISITING COMMITTEE.

R. W. FURNAS, Brownville, }	Agricultural Society.
W. R. ROBERTSON, Madison, }	
G. J. CARPENTER, Fairbury .....	Horticultural Society.

### STATION OFFICERS.

CHARLES E. BESSEY.....	<i>Director.</i>
J. STUART DALES.....	<i>Treasurer.</i>

### WORKING STAFF.

HENRY H. WING, B.AGR.....	<i>Agriculturist.</i>
HUDSON H. NICHOLSON, M.A.....	<i>Chemist.</i>
DEWITT B. BRACE, PH.D.....	<i>Meteorologist.</i>
FRANK S. BILLINGS, D.V.M.....	<i>Investigator of Animal Diseases.</i>
LEWIS E. HICKS, PH.D.....	<i>Geologist.</i>
CONWAY G. McMILLAN, M. A. (in 1887) }	<i>Entomologist.</i>
LAWRENCE BRUNER (after April 1, 1888) }	
CHARLES E. BESSEY, PH.D.....	<i>Botanist.</i>
J. D. COURTNEY.....	<i>Foreman of the Farm.</i>

## SUMMARY OF STUDENTS.

## COLLEGE OF LITERATURE, SCIENCE, AND THE ARTS—

Graduate students .....	11
Seniors .....	20
Juniors .....	26
Sophomores.....	35
Freshmen.....	46
Specials.....	32—170

## INDUSTRIAL COLLEGE—

Seniors.....	1
Juniors .....	4
Sophomores .....	2
Freshmen .....	5
Specials .....	2— 14

## LATIN SCHOOL—

Second Year.....	61
First Year.....	71
Specials .....	8—140

## SCHOOL OF THE FINE ARTS—

Art Students .....	47
Music Students .....	72—119

—

Aggregate enrollment ..... 443

Repeated ..... 37

—

Total of unrepeatd names..... 406

## THE COLLEGES.

The University of Nebraska consists at present of two undergraduate Departments or Colleges, as follows:

THE COLLEGE OF LITERATURE, SCIENCE, AND THE ARTS;

THE INDUSTRIAL COLLEGE.

There is in operation, in connection with these Colleges, a *Latin School*. Preparatory instruction is here provided for students denied the opportunity in the schools of their own neighborhood.

An inchoate *School of Graduate Instruction* is open to graduates of these and other colleges.

There is also a *School of Art and Music*, in which, pending the opening of the COLLEGE OF THE FINE ARTS, instruction is given in Instrumental and Vocal Music, and in Drawing, Painting, and the History of Art.

## UNDERGRADUATE INSTRUCTION.

### THE COLLEGE OF LITERATURE, SCIENCE, AND THE ARTS.

In this College are offered THREE COURSES OF STUDY, designated as the CLASSICAL, the SCIENTIFIC, and the LITERARY, leading to the degrees of B.A., B.Sc., and B.L. respectively.

All candidates for admission to the Freshman Class in any Course (except those holding certificates of graduation from the High Schools named below) will be examined in the following subjects:

*English.*—A practical knowledge of English composition and thorough mastery of the studies leading to it; together with so much of further preparation for beginning the study of Rhetoric proper as is contained in Book I. of A. S. Hill's Principles of Rhetoric.

*Geography.*

*Mathematics.*—Arithmetic; Higher Algebra to Undetermined Co-efficients; Plane and Rectilinear Solid Geometry.

*History.*—Barnes's History of the United States; Barnes's General History, or Swinton's Outlines.

*Botany.*—A knowledge of general Botany, including the principal characters of the great divisions of the vegetable kingdom (lectures and field-work); with a practical acquaintance with the structure, analysis, and identification of flowering plants (Gray's Lessons and Manual), and the presentation of a collection of one hundred plants in herbarium.

*Latin.*—Allen and Greenough's or Harkness's Grammar; Cæsar, two books; Cicero, four orations; Allen's Latin Composition, thirty lessons. (The Roman pronunciation should be used exclusively.)

Applicants for admission to the CLASSICAL COURSE will be further examined in the following text-books:

*Greek.*—Goodwin's Greek Grammar, and White's Lessons to Syntax.

But applicants for admission to the SCIENTIFIC or the LITERARY COURSE will prepare for examination in the following subjects, *instead of Greek*:

*Chemistry.*—A knowledge of Elementary Chemistry, such as may be obtained by a year's study of Avery's, Clarke's, or Eliot and Storer's Elements of Chemistry, with laboratory practice.

*Physics.*—Such knowledge of Elementary Physics as may be acquired by thorough study of Balfour Stewart's Elementary Physics, or an equivalent.

*Zoology.*—Orton's or an equivalent.

NOTE.—For a more detailed view of the requirements for admission, see Course of Study in the LATIN SCHOOL.

The first examination of candidates for the Freshman Class, or for advanced standing, will be held on Friday and Saturday after Commencement, June 15 and 16, 1888, beginning at 9 A.M. A second examination will be held on Tuesday and Wednesday, Sept. 11 and 12, at the opening of the Fall term. Attendance is required in all cases at the opening of the examination.

#### ADMISSION BY DIPLOMA.

Candidates holding diplomas from the High Schools of *Alma, Beatrice, Edgar, Fremont, Grand Island, Kearney, Lincoln, Nebraska City, Plattsmouth, and Tekamah*, will be admitted to the Freshman Class without examination.

All candidates for advanced standing will be examined, in addition to the preparatory subjects enumerated above, in the studies already pursued by the class which they wish to enter. Following is the complete program of studies for each college year in the several courses. In general, equivalent text-books and authorities will be accepted in place of the works named.

### CLASSICAL COURSE.

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#### FRESHMAN YEAR.

##### FIRST TERM.

*Latin*.—Vergil: *Aeneid*, books I., II. Prosody. (Five hours per week.)

*Greek*.—Xenophon: *Anabasis*, book I. Syntax. Jones's Prose Composition. (Four hours.)

*Mathematics*.—Solid Geometry (Loomis: books VII.—X.). Exercises in original demonstration. (Five hours.)

*Rhetoric*.—Practical exercises in Criticism and Composition; study of special models in Narration and Description; one Declamation. (Two hours.)

##### SECOND TERM.

*Latin*.—Vergil: *Aeneid*, book VI.; and four Eclogues. Prosody. Review of Syntax of Nouns by Grammar and Analytical Charts. (Four hours.)

*Greek*.—*Anabasis*, or *Hellenica*, one book. Syntax. Greek Composition. (Five hours.)

*Mathematics*.—Wheeler's Trigonometry (Plane and Spherical) finished. Original demonstrations. (Five hours.)

*Rhetoric*.—Practical exercises in Criticism and Composition, continued. Themes and Studies in Styles; one Declamation. (Two hours.)

THIRD TERM.

- Latin*.—Cicero: De Senectute. Review of Syntax of Verbs by Grammar and Analytical Charts. (Five hours.)  
*Greek*.—Lysias: one Oration. Syntax. Greek Composition finished. (Four hours.)  
*Mathematics*.—Loomis's Conic Sections. Original demonstrations. (Five hours.)  
*Rhetoric*.—Argumentative Themes; Studies in Oratory; one Declamation. (Two hours.)

SOPHOMORE YEAR.

FIRST TERM.

- Latin*.—Livy: book XXI.; with Quintus Curtius at sight. (Four hours.)  
*Greek*.—Homer: Iliad, books I. and II. (Four hours.)  
*German*.—Whitney's Grammar and Reader (three hours); Ahn-Fischer's Exercises (two hours).  
*Military Science*.—Upton's Infantry Tactics. (Two hours.)  
*Rhetoric*.—One Theme; one Declamation.

SECOND TERM.

- Latin*.—Livy: book XXII., with Quintus Curtius at sight, continued through one book. (Four hours.)  
*Greek*.—Thucydides: book VII. (Four hours.)  
*German*.—Whitney's Grammar and Reader (three hours); Ahn's Exercises and Stern's Studien, second series (two hours).  
*Military Science*.—U. S. Army Artillery Tactics. (Two hours.)  
*Rhetoric*.—One Theme; one Declamation.

THIRD TERM.

- Latin*.—Horace: Selected Odes, with Prosody. (Four hours.)  
*Greek*.—Plato: Apology and Crito. (Four hours.)  
*German*.—Whitney's Grammar and Reader (two hours); Schiller's Der Neffe, and Stern's Studien, at sight (three hours).  
*Military Science*.—United States Army Regulations. (Two hours.)  
*Rhetoric*.—One Theme; one Declamation.

JUNIOR YEAR.

FIRST TERM.

- Latin*.—Horace: selected Satires and Epistles; Ars Poetica. (Three hours.)  
*Greek*.—Sophocles: Antigone. Studies and Essays on the Greek Drama. (Three hours.)  
*German*.—Fouque's Undine (three hours); Lessing's Minna von Barnhelm (two hours).  
*Rhetoric*.—One Essay.  
*Electives*.—(Five hours are required.)



## SECOND TERM.

*Latin*.—Plautus: Captivi; Terence: Adelphi. (Three hours.)

*Greek*.—Demosthenes: De Corona; Studies and Essays on the Greek Orators. (Three hours.)

*German*.—Schiller's Wilhelm Tell (three hours); Goethe's Prose (two hours).

*Rhetoric*.—One Essay.

*Electives*.—(Five hours.)

## THIRD TERM.

*Latin*.—Tacitus: Germania and Agricola. (Three hours.)

*Greek*.—Plato: Phædo. (Three hours.)

*German*.—Lessing's Nathan der Weise (three hours); Goethe's Hermann and Dorothea (two hours); Lectures on the History of the Language.

*Rhetoric*.—One Oration.

*Electives*.—(Five hours.)

## SENIOR YEAR.

## FIRST TERM.

*Political Economy*.—General study of the subject on the basis of F. A. Walker's larger work, with special reading and reports on topics assigned in Mill, Cairnes, Jevons, Sidgwick, Roscher, Newcomb, Perry, and other writers. (Three hours.)

*Philosophy*.—General study of the subject, following Sully and Lotze; special reading and reports from other authorities. (Three hours.)

*Rhetoric*.—One Oration.

*Electives*.—(Ten hours required.)

## SECOND TERM.

*Political Economy*.—A more thorough study of selected topics, with special reference to current practical questions. (Three hours.)

*Logic*.—Formal Logic; Logic in its applications in the fields of Science and Forensics. (Three hours.)

*Rhetoric*.—One Oration.

*Electives*.—(Ten hours.)

## THIRD TERM.

*International Law*.—Outline study of the subject, with special reference to existing relations among the Great Powers of Europe. (Three hours.)

*Ethics*.—Martineau's Ethical Theory; special readings in Sidgwick, Janet, Spencer, Bain, and other writers. (Three hours.)

*Rhetoric*.—One Oration.

*Electives*.—(Ten hours.)



SCIENTIFIC COURSE.

FRESHMAN YEAR.

FIRST TERM.

*Chemistry*.—Remsen's Introduction to the Study of Chemistry, as far as Carbon. (Two hours.)

*Zoology*.—Practical work introductory to general Zoology: Collection, Drawing, and Description of Specimens; Colton's Practical Zoology. (Two hours.)

*Mathematics*.—Solid Geometry (Loomis: books VII.-IX.). Original demonstrations. (Five hours.)

*German*.—Whitney's Grammar and Reader (three hours); Ahn-Fischer's Exercises (two hours).

*Rhetoric*.—Practical exercises in Criticism and Composition; study of special models in Narration and Description; one Declamation. (Two hours.)

SECOND TERM.

*Chemistry*.—Remsen's Introduction: Carbon and Carbon Compounds. (Two hours.)

*Zoology*.—Anatomy and Physiology of Invertebrata; Huxley and Martin's Practical Biology; Huxley's The Crayfish. (Two hours.)

*Mathematics*.—Wheeler's Trigonometry, Plane and Spherical, finished. Original demonstrations. (Five hours.)

*German*.—Whitney's Grammar and Reader (three hours); Ahn's Exercises and Stern's Studien, second series (two hours).

*Rhetoric*.—Practical Exercises in Criticism and Composition, continued: Themes and Studies in Styles; one Declamation. (Two hours.)

THIRD TERM.

*Chemistry*.—Remsen's Introduction: Classification and Grouping of Elements (two hours); Laboratory work (four hours).

*Zoology*.—Jordan's Manual of Vertebrates: Mammalia, Diagnoses of ordinal and family characters, and determination of species. (Three hours.)

*Mathematics*.—Loomis's Conic Sections. Original demonstrations. (Five hours.)

*Rhetoric*.—Argumentative Themes; Studies in Oratory; one Declamation. (Two hours.)

*German*.—Whitney's Grammar and Reader (two hours); Schiller's Der Neffe, and Stern's Studien at sight (three hours).

## SOPHOMORE YEAR.

## FIRST TERM.

*Chemistry*.—Inorganic Chemistry; Lectures and Recitations (three hours); Laboratory work (six hours).

*Physics*.—Wood's Mechanics, and Lee's Acoustics. (Two hours.)

*Botany*.—Vegetable Anatomy; including the study of protoplasm, plant-cells, cell-products, the tissues of plants, the grouping of tissues into tissue-systems, and the general types of the plant-body (two hours); Laboratory work (five hours).

*Zoology*.—Birds: Drawing, Description, and Determination of Species; Taxidermy. (Three hours.)

*Rhetoric*.—One Theme; one Declamation.

*Modern Languages*.—German or French (four hours), with the Sophomores of the LITERARY COURSE. See page 43.

*Military Science*.—Upton's Infantry Tactics. (Two hours.)

## SECOND TERM.

*Chemistry*.—Inorganic Chemistry, and Fresenius's Qualitative Analysis, Recitations and Lectures (three hours); Laboratory work (five hours).

*Physics*.—Optics and Heat. (Two hours.)

*Botany*.—Vegetable Physiology; including the study of the water in plants, evaporation of water, plant-food; assimilation, vegetable digestion, temperature and light as affecting vegetation and movements of plants (two hours); Laboratory work (five hours).

*Zoology*.—Mollusca: Drawing, Description, and Determination of Species. (Three hours.)

*Rhetoric*.—One Theme; one Declamation.

*Modern Languages*.—German or French (four hours), with the Sophomores of the LITERARY COURSE. See page 43.

*Military Science*.—U. S. Army Artillery Tactics. (Two hours.)

## THIRD TERM.

*Chemistry*.—Inorganic Chemistry and Fresenius's Qualitative Analysis; Recitations and Lectures (three hours); Laboratory work (six hours).

*Botany*.—Special Anatomy and Physiology; including study of the Protophytes (Slime-moulds, Bacteria, Yeast-plants, and Green Slimes); Zygomycetes (Conferva, Sea-Lettuce, Kelp, Desmids, Diatoms, Pond-Scums, and Black-Moulds); Oomycetes (Volvox, *Codium*, Green Felt, Water-Moulds, Fly Fungus, Mildew, White Rusts, and Rockweeds.) (Two hours.) Laboratory work (five hours).

*Crystallography*.—Dana's Manual of Mineralogy and Lithography. Crystallographic Symbols; drawing and description of Crystals. (Two hours.)

*Zoology*.—Entomology: Structure and Habits of Insects; collecting and mounting specimens; identification of Species. (Three hours.)

*Rhetoric*.—One Theme; one Declamation.

*Modern Languages*.—German or French with the Sophomores of the LITERARY COURSE. See page 44. (Four hours.)

*Military Science*.—U. S. Army Regulations. (Two hours.)

## JUNIOR YEAR.

### FIRST TERM.

*Physics*.—Physical Problems: Lectures (three hours); Laboratory work (six hours).

*Botany*.—Special Anatomy and Physiology; including study of the Carpophytes (Red seaweeds, Blights, Cup-Fungi, Black-Fungi, Lichens, Rusts, Smuts); Bryophytes (Liverworts, Mosses); Pteridophytes (Equisetum, Ferns, Lycopods); Phanerogams (Gymnosperms, Angiosperms). (Two hours.) Laboratory work (five hours).

*Mineralogy*.—Dana's and Brush's Mineralogies. Identification and description of minerals. (Two hours.)

*Geology*.—Physiographic and Structural Geology (Dana's Manual), with Field Work. (Three hours.)

*Rhetoric*.—One Essay.

*Electives*.—Six hours are required: three hours must be given to the advanced study of Botany, or Chemistry, or Geology, or Zoology. See under these subjects in "DEPARTMENTS OF STUDY," below. The remaining three hours must not be given to a scientific subject.

### SECOND TERM.

*Physics*.—Physical Problems: Lectures (three hours); Laboratory work (six hours).

*Mineralogy*.—Dana's and Brush's Mineralogies, continued. Identification and description of minerals. (Two hours.)

*Geology*.—Historical and Dynamical Geology (Dana's Manual), with Field Work. (Three hours.)

*Meteorology*.—Recitations and Lectures, with practical use of the instruments in the University Meteorological Station. (Two hours.)

*Rhetoric*.—One Essay.

*Electives*.—Six hours required, under same restrictions as in First Term.

### THIRD TERM.

*Physics*.—Physical Problems: Lectures (three hours); Laboratory work (six hours).

*Palæontology*.—Classification, description, and figuring of Fossils; use of technical terms. (Three hours.)

*Descriptive Astronomy*.—Lockyer's Astronomy; Lectures, and Study of the Constellations. (Three hours.)

*Constitutional Law*.—Cooley, with Library references. (Two hours.)

*Rhetoric*.—One Oration.

*Electives*.—Six hours required, under same restrictions as in First and Second Terms.

#### SENIOR YEAR.

##### FIRST TERM.

*Political Economy*.—General Study of the subject, on the basis of F. A. Walker's larger work, with special reading and reports on topics assigned in Mill, Cairnes, Jevons, Sidgwick, Roscher, Newcomb, Perry, and other writers. (Three hours.)

*Rhetoric*.—One Oration.

*Electives*.—Eight hours are required, five of which must be given to an advanced course in Botany, Chemistry, Geology, or Zoology, as in Junior year; the three remaining hours are unrestricted.

*Thesis*.—Five hours are to be given to the investigation of some subject, which shall be thoroughly and elaborately discussed in a graduation thesis.

##### SECOND TERM.

*Logic*.—Formal Logic; Logic in its applications in the fields of Science and Forensics. (Three hours.)

*Rhetoric*.—One Oration.

*Electives*.—As in First Term.

*Thesis*.—As in First Term.

##### THIRD TERM.

*Philosophy*.—Martineau's Ethical Theory; special readings in Sidgwick, Janet, Spencer, Bain, and other writers. (Three hours.)

*Electives*.—As in First and Second Terms.

*Thesis*.—As in First and Second Terms.

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#### LITERARY COURSE.

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##### FRESHMAN YEAR.

##### FIRST TERM.

*Mathematics*.—Solid Geometry. Original demonstrations. (Five hours.)

*Rhetoric*.—Practical Exercises in Criticism and Composition; study of special models of Narration and Description; one Declamation. (Two hours.)

*German*.—Whitney's Grammar and Reader (three hours); Ahn-Fischer's Exercises (two hours).

*History*.—Ancient History: Cox's Greeks and Persians and Athenian Empire. Lectures and blackboard analyses on the Const. Hist. of Athens and Sparta. One Lecture required from each student on some topic assigned. (Four hours.)

SECOND TERM.

*Mathematics*.—Wheeler's Trigonometry, Plane and Spherical. Original demonstrations. (Five hours.)

*Rhetoric*.—Practical Exercises in Criticism and Composition, continued. Themes and Studies in Style; one Declamation. (Two hours.)

*German*.—Whitney's Grammar and Reader (three hours); Ahn's Exercises and Stern's Studien, second series (two hours.)

*History*.—Ancient History: Ihne's Early Rome; Smith's Rome and Carthage; special analysis of Roman institutions, the Comitia, Magistracies, Collegia, Ranks, Classes, etc. One Lecture (Four hours.)

THIRD TERM.

*Mathematics*.—Loomis's Conic Sections. Original demonstrations. (Five hours.)

*Rhetoric*.—Argumentative Themes; Studies in Oratory; one Declamation. (Two hours.)

*German*.—Whitney's Grammar and Reader (two hours); Schiller's Der Neffe and Stern's Studien, at sight (three hours.)

*History*.—Ancient History: Beesley's The Gracchi, Marius, and Sulla; Merrivale's Triumvirates. Blackboard exercises on political institutions, continued. Theme or Lecture by each student. (Four hours.)

SOPHOMORE YEAR.

FIRST TERM.

*German*.—Fouque's Undine (two hours); Lessing's Minna von Barnhelm (two hours.)

*French*.—Whitney's Grammar: French Readings. (Four hours.)

*Anglo-Saxon*.—Siever's Grammar, and Sweet's Reader; Cædmon's Exodus; Beowulf begun. (Three hours.)

*Rhetoric*.—One Theme; one Declamation.

*History*.—Cape's Early Empire and Age of the Antonines; Arnold's Roman Provincial Administration. Further study of the Roman Constitution, with particular attention to the Civil and Military Organization under Diocletian and Constantine. One Theme. (Three hours.)

*Military Science*.—Upton's Infantry Tactics. (Two hours.)

SECOND TERM.

*German*.—Schiller's Wilhelm Tell (two hours); Goethe's Prose (two hours.)

*French*.—Whitney's Grammar; French Readings. (Four hours.)

*Anglo-Saxon and Early English*.—Beowulf, 1200 lines. Mætzner's Altenglische Sprachproben. (Three hours.)

*Rhetoric*.—One Theme; one Declamation.

*History*.—The Middle Ages: Studies in Hodgkin's Italy and Her Invaders, Church's Beginning of the Middle Ages, Gibbon's Decline and Fall, Hallam's Middle Ages, Cox's Crusades, covering the period from Constantine to the Crusaders. Particular topics: The Barbarian Invasion; Charles the Great; Theory of the Holy Roman Empire; Rise of the Papal Power. (Three hours.)

*Military Science*.—U. S. Army Artillery Tactics. (Two hours.)

### THIRD TERM.

*German*.—Lessing's Nathan Der Weise (two hours); Goethe's Herman and Dorothea (two hours).

*French*.—Lamartine's Cromwell; Moliere's Le Misanthrope. (Four hours.)

*Early English*.—Mætzner's Altenglische Sprachproben; Lounsbury's History of the English Language; special Grammatical Analyses of Early English Authors. (Three hours.)

*Rhetoric*.—One Theme; one Declamation.

*History*.—Middle Ages, continued. Special topics: Philip the Fair; The Hundred Years' War; Louis XI. and Charles the Bold; Analysis of Feudal Institutions. References: Guizot's History of Civilization; Kitchen's, Guizot's, Martin's, and Michelet's histories of France; Hallam's Middle Ages; Secretan's Feudalite; Warburton's Edward III. One Theme for the last two terms of the year. (Three hours.)

*Military Science*.—U. S. Army Regulations. (Two hours.)

### JUNIOR YEAR.

#### FIRST TERM.

*French*.—Corneille's Cid; George Sand's Marianne. (Three hours.)

*English Literature*.—General survey of the subject: English social and literary history from Piers Plowman to Shakespeare, on the basis of Morley's First Sketch; the influence of Italy and the universities; the beginnings of popular literature; special study of Chaucer, Spenser, and Shakespeare. (Three hours.)

*History*.—Seeböhm's Era of the Protestant Revolution, and Gardiner's Thirty Years' War. Special library work on topics connected with these eras. One Theme or Lecture from each student on some topic assigned. (Three hours.)

*Rhetoric*.—One Essay.

*Electives*.—Six hours required.

#### SECOND TERM.

*French*.—Moliere's Les Femmes Savantes; Lamartine's Lyric Poetry; Lectures on the history of the Language. (Three hours.)

*English Literature*.—General survey, continued: Readings in the Dramatists from Shakespeare to Shirley; the Classical Movement from Cowley to Johnson; Growth of Popular Literature; special study of Milton, Pope, Thomson, and the Ballads. (Three hours.)



*History*.—Gardiner's Puritan Revolution; Special Topics: Petition of Right; Cromwell, Laud, and Strafford; Religious Legislation in the Reigns of Charles II. and James II.; Revolution of 1688. One Theme or Lecture during this (or following) term. (Three hours.)

*Rhetoric*.—One Essay.

*Electives*.—(Six hours.)

### THIRD TERM.

*Italian*.—Italian Grammar and Exercises; Manzoni's *I Promessi Sposi*. (Three hours.)

*English Literature*.—General survey continued to living writers; Study of the Romantic, Nature, and Life Schools; Triumph of the People's Literature; Progress of English Prose; Lectures on American Literature; special study of Keats, Shelley, Byron, Wordsworth, and Tennyson. (Three hours.)

*History*.—Morris's Age of Anne: Library work with special reference to moral and social conditions; the political bearings of the literature, the Sacheverell trial, and the union of England and Scotland. (Three hours.)

*Rhetoric*.—One Oration.

*Electives*.—(Six hours.)

### SENIOR YEAR.

#### FIRST TERM.

*Political Economy*.—General study of the subject, on the basis of F. A. Walker's larger work, with special reading and reports on topics assigned in Mill, Cairns, Jevons, Sidgwick, Roscher, Newcomb, Perry, and other writers. (Three hours.)

*Rhetoric*.—One Oration.

*Electives*.—(Eight hours are required.)

*Thesis*.—Out of the above thirteen elective hours three may be given, if the student so elect, to the investigation of some subject which shall be thoroughly and elaborately discussed in a graduation thesis.

#### SECOND TERM.

*Political Economy*.—A more thorough study of selected topics, with special reference to current practical questions. (Three hours.)

*Rhetoric*.—One Oration.

*Electives*.—(Eight hours.)

*Thesis*.—As in First Term.

#### THIRD TERM.

*International Law*.—Outline study of the subject, with special reference to existing relations among the Great Powers of Europe. (Three hours.)

*Rhetoric*.—One Oration.

*Electives*.—(Eight hours.)

*Thesis*.—As in First and Second Terms.

NOTE.—To accommodate students desiring to devote special attention to Applied Electricity, a modification of the Scientific Course (as above exhibited, pp. 39-42) is proposed as follows: students completing the entire course as arranged to be given the regular B.Sc. degree.

#### FRESHMAN YEAR.

<i>First Term.</i>	<i>Second Term.</i>	<i>Third Term.</i>
Geometry, 5 hrs.	Trigonometry, 5 hrs.	Analytical Geometry, 5 hrs.
German, 5 hrs.	German, 5 hrs.	German, 5 hrs.
Chemistry, 2 hrs.	Chemistry, 2 hrs.	Chemistry, 2 hrs.
Rhetoric, 2 hrs.	Rhetoric, 2 hrs.	Rhetoric, 2 hrs.
Drawing, 2 hrs.	Drawing, 2 hrs.	Descriptive Geometry, 4 hrs.

#### SOPHOMORE YEAR.

Analytical Geometry and Calculus, 5 hrs.	Calculus, 5 hrs.	Calculus, 5 hrs.
French, 4 hrs.	French, 4 hrs.	French, 4 hrs.
Chemistry, 3 hrs.	Chemistry, 3 hrs.	Chemistry, 3 hrs.
Physics, 2 hrs.	Physics, 2 hrs.	Physics, 2 hrs.
Military Tactics, 2 hrs.	Military Tactics, 2 hrs.	Military Tactics, 2 hrs.

#### JUNIOR YEAR.

Mathematical Theory of Electricity and Magnetism, 4 hrs.	Mathematical Theory of Electricity and Magnetism, 4 hrs.	Mathematical Theory of Electricity and Magnetism, 4 hrs.
Physics, 3 hrs.	Physics, 3 hrs.	Physics, 3 hrs.
Applied Physics, 3 hrs.	Applied Physics, 3 hrs.	Applied Physics, 3 hrs.
Eng. Literature, 3 hrs.	Eng. Literature, 3 hrs.	Eng. Literature, 3 hrs.
Electives, 3 hrs.	Electives, 3 hrs.	Electives, 3 hrs.

#### SENIOR YEAR.

Applied Electricity, 5 hrs.	Applied Electricity, 5 hrs.	Applied Electricity, 5 hrs.
Political Science, 3 hrs.	Logic, 3 hrs.	Ethics, 3 hrs.
Thesis, 5 hrs.	Thesis, 5 hrs.	Thesis, 5 hrs.
Electives, 3 hrs.	Electives, 3 hrs.	Electives, 3 hrs.



## ELECTIVES.

In each course, up to the end of the Sophomore year, the studies are prescribed ; but in the Junior and the Senior year they are largely elective. This arrangement is designed to enable those students who may desire it, to concentrate their work upon special lines, or subjects. In addition to the elective studies which appear below, the required subjects of other Courses in either college are open to each student. But it is expected that in general all who have mastered the required work of the first two years will avail themselves of the special advanced studies of some Department. The following rules regarding the choice of electives are in force :

1. No study can be elected unless the professor in charge deem the student qualified to pursue it.

2. No electives shall be changed after two weeks of the term have passed.

3. No elective need be taught unless at least three students elect it.

The special subjects at present offered as electives, and the order in which they should be pursued, together with the required studies which lead up to them, are shown under the following summary of the Departments. Elective studies are distinguished by an asterisk.

## DEPARTMENTS OF STUDY.

## POLITICAL SCIENCE.

- I. Constitutional Law : General Principles of Civil Government, with detailed study of the Constitutions of this state and the United States.—*Junior Year*: third term, two hours, T., Th. Adj. Prof. CALDWELL.
- II. Political Economy : General study of the subject.—*Senior Year*: first term, three hours, M., W., F. Chancellor MANATT.
- III. Political Economy : A more thorough study of selected topics.—*Senior Year*: second term, three hours, M., W., F. Chancellor MANATT.
- IV. \*Social Science : A short study of the chief data of Sociology, laying special stress on living questions.—*Senior Year*: third term, three hours, M., W., F.
- V. International Law : Outline study of the subject, with special reference to existing relations among the Great Powers.—*Senior Year*: third term, three hours, M., W., F. Chancellor MANATT.
- VI. \*The Modern Transportation System. Canals : History and Economic Influence. Railroads : Origin, Growth, Tendency to concentrate population. Ownership and Speculation ; Competition and Combination ; Legislation and State management. Special history of some railroad.—*Senior Year*: second term, two hours, T., Th. Adj. Prof. CALDWELL.

## PHILOSOPHY.

- I. Psychology: General study of the subject.—*Senior Year*: first term, three hours, M., W., F.
  - II. \*History of Philosophy: Outline study, in connection with Psychology and Logic; special reading in the Greek and Roman systems, and modern schools.—*Senior Year*: first and second terms, two hours, T., Th.
  - III. Logic: Formal Logic; Logic in its practical applications in the fields of Science and Forensics.—*Senior Year*: second term, three hours, M., W., F.
  - IV. Ethics: General and topical study of the principal writers.—*Senior Year*: third term, three hours, M., W., F.
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## GREEK LANGUAGE AND LITERATURE.

- I. Xenophon: Anabasis; Greek Prose.—*Freshman Year*: first and second terms, five hours. Professor McMILLAN.
- II. Xenophon: Hellenica; Greek Prose.—*Freshman Year*: third term, five hours. Professor McMILLAN.
- III. Homer: Iliad.—*Sophomore Year*: first term, four hours, T., W., Th., F. Professor McMILLAN.
- IV. Lysias: Select Orations.—*Sophomore Year*: second term, four hours, T., W., Th., F. Professor McMILLAN.
- V. Plato: Apology and Crito.—*Sophomore Year*: third term, four hours, T., W., Th., F. Professor McMILLAN.
- VI. \*Hellenistic Greek: The Acts; selections from the Epistles.—*Junior Year*. first term, three hours, M., W., F. Professor McMILLAN.
- VII. \*Pindar, or Theocritus.—*Junior Year*: first term, two hours, T., Th. Professor McMILLAN.
- VIII. Sophocles: Antigone; History of Greek Literature.—*Junior Year*: first term, three hours, M., W., F. Professor McMILLAN.
- IX. \*Greek Tragedy, or Comedy; Greek Theatre.—*Junior Year*: second term, two hours, T., Th. Professor McMILLAN.
- X. Demosthenes: Select orations; Greek antiquities.—*Junior Year*: second term, three hours, M., W., F. Professor McMILLAN.
- XI. \*History of Greek Philosophy.—*Junior Year*: third term, two hours, T., Th. Professor McMILLAN.
- XII. Plato; Phædo.—*Junior Year*: Professor McMILLAN.
- XIII. \*Greek Grammar, from the comparative standpoint: Phonetics; Forms; Syntax; References; Gustav Meyer's Grammatik; Delbrueck's Grundlagen der Griechischen Syntax.—*Senior Year*: first, second, and third terms, two hours, T., Th. Principal BENNETT.

# LATIN LANGUAGE AND LITERATURE.

- I. Vergil: *Æneid*, and *Eclogues*; Latin Syntax and Prosody.—*Freshman Year*: first and second terms, five hours. Professor BARBER.
- II. Cicero: *De Senectute*; Latin Grammar.—*Freshman Year*: third term, five hours. Professor BARBER.
- III. Livy: books XXI., XXII.; Quintus Curtius at Sight.—*Sophomore Year*: first and second terms, four hours, T., W., Th., F. Professor BARBER.
- IV. Horace: Selected Odes; Latin Prosody.—*Freshman Year*: third term, four hours, T., W., Th., F. Professor BARBER.
- V. \*Cicero: *Epistolæ*.—*Junior Year*: first term, two hours, T., Th. Professor BARBER.
- VI. Horace: *Satires* and *Epistles*.—*Junior Year*: first term, three hours, M., W., F. Professor BARBER.
- VII. \*Tacitus: *Annals*.—*Junior Year*: second term, two hours, T., Th. Professor BARBER.
- VIII. Plautus: *Captivi*; Prosody.—*Junior Year*: second term, three hours, M., W., F. Professor BARBER.
- IX. \*Juvenal, or Catullus.—*Junior Year*: third term, two hours, T., Th. Professor BARBER.
- X. \*Quintilian; *Lectures in Roman Literature*.—*Junior Year*: third term, two hours, T., Th. Professor BARBER.
- XI. Tacitus: *Germania* and *Agricola*.—*Junior Year*: third term, three hours, M., W., F. Professor BARBER.
- XII. \*Terence, or Seneca.—*Senior Year*: first term, two hours, T., Th. Professor BARBER.
- XIII. \*Pliny's *Letters*; Roman Law. *Senior Year*: second term, two hours, T., Th. Professor BARBER.
- XIV. \*Lectures on *Antiquities*, or *Philology*.—*Senior Year*: third term, one hour, Th. Professor BARBER.

## MATHEMATICS.

- I. Solid Geometry.—*Freshman Year*: first term, five hours. Professor HITCHCOCK.
- II. Conic Sections.—*Freshman Year*: second term, five hours. Professor HITCHCOCK.
- III. Plane and Spherical Trigonometry.—*Freshman Year*: third term, five hours. Professor HITCHCOCK.
- IV. \*Analytical Geometry.—*Junior Year*: second and third terms, five hours. Professor HITCHCOCK.
- V. Calculus.—*Junior or Senior Year*: first and second terms, three hours, M., W., F. Professor HITCHCOCK.

## CHEMISTRY AND PHYSICS.

- I. General Inorganic Chemistry: Lectures and recitations, with four hours in the Laboratory.—*Freshman Year*: first, second, and third terms, two hours, T., Th. Professor NICHOLSON.
- II. Advanced Inorganic Chemistry and Qualitative Analysis: Lectures and recitations, with six hours in the Laboratory.—*Sophomore Year*: first, second, and third terms, three hours, M., W., F. Associate Professor LLOYD.
- III. Agricultural Chemistry: Lectures and recitations, with ten hours in the Laboratory. (Required of Agricultural students.)—*Junior Year*: first, second, and third terms, five hours. Professor NICHOLSON.
- IV. \*Quantitative Analysis: Lectures on gravimetric and volumetric methods, with six hours in the Laboratory. (Open to students who have taken Courses I. and II.)—*Junior or Senior Year*: first, second, and third terms, three hours, M., W., F. Associate Professor LLOYD.
- V. \*Organic Chemistry and Chemical Philosophy: Lectures, with six hours in the Laboratory.—*Senior Year*: first, second, and third terms, three hours. Associate Professor LLOYD.
- VI. \*Assaying ores: Lectures, with six hours in the Laboratory. (Open to students who have taken Courses I. and II.)—*Junior or Senior Year*: one term, three hours. Professor NICHOLSON and Laboratory Assistant.
- VII. \*Blowpipe Analysis: Lectures, with six hours in Laboratory. (Open to students who have taken Courses I. and II.)—*Junior or Senior Year*: one term, three hours. Professor NICHOLSON and Laboratory Assistant.
- VIII. \*Proximate Quantitative Analysis and Toxicology: Lectures, with six hours in the Laboratory. (Open to students who have taken Courses I. and II.)—*Junior or Senior Year*: one term, three hours. Professor NICHOLSON and Laboratory Assistant.
- IX. \*Reading of current chemical literature and reports thereon. (Open to students who have taken Courses I., II., IV., and V.)—*Junior or Senior Year*: first, second, and third terms, one hour. Professors NICHOLSON and LLOYD.
- X. \*Sanitary Chemistry: Investigation of problems connected with Drinking Water and its Purification; Foods and their Adulterations; and Heating and Ventilation: Lectures and Laboratory work. (Open to students who have taken Courses I., II., and IV.)—*Junior or Senior Year*: first, second, and third terms, two hours. Professors NICHOLSON and LLOYD.
- XI. \*Original Investigations of Chemical Problems. (Open to Scientific students electing Chemistry as their specialty.)—*Junior or Senior Year*. Professors NICHOLSON and LLOYD.
- XII. Mechanics, Heat, Sound, Light, and Electricity and Magnetism: Lectures, with four hours in the Laboratory.—*Sophomore Year*: first and second terms, two hours. Dr. BRACE.

- XIII. Physical Problems: Lectures, with six hours in the Laboratory.—  
*Junior Year*: first, second, and third terms, three hours. Dr. BRACE.
- XIV. \*Electricity and Magnetism: Lectures, with four hours in the Laboratory (continuation of Course I., for students in Electrical Engineering).—*Sophomore Year*: third term, two hours. Dr. BRACE.
- XV. \*Mathematical Theory of Electricity and Magnetism: Lectures and recitations.—*Junior Year*: first, second, and third terms, four hours. Dr. BRACE.
- XVI. \*Applied Physics: Lectures and Laboratory work.—*Junior Year*: first, second, and third terms, six hours. Dr. BRACE.
- XVII. \*Applied Electricity: Laboratory work.—*Senior Year*: first, second, and third terms, fifteen hours. Dr. BRACE.

#### GEOLOGY AND ALLIED SCIENCES.

- I. Zoology: General Introductory Course.—*Freshman Year*: first term, two hours. Professor HICKS.
- II. Zoology: Anatomy and Physiology of Invertebrata.—*Freshman Year*: second term, two hours. Professor HICKS.
- III. Zoology: Mammalia.—*Freshman Year*: third term, two hours. Professor HICKS.
- IV. Zoology: Birds.—*Sophomore Year*: first term, three hours. Professor HICKS.
- V. Zoology: Mollusca.—*Sophomore Year*: second term, three hours. Professor HICKS.
- VI. Zoology: Entomology.—*Sophomore Year*: third term, three hours. Professor HICKS.
- VII. \*Zoology: Systematic study of the inferior sub-kingdoms; advanced work in general Zoology. (For Junior Scientific students who elect Zoology as a special study. See page 41.)—*Junior Year*, three hours; *Senior Year*, five hours. Professor HICKS.
- VIII. Determinative Mineralogy.—*Junior Year*: first and second terms, two hours, T., Th. Professor HICKS.
- IX. Structural, Historical, and Dynamical Geology.—*Junior Year*: first and second terms, three hours, M., W., F. Professor HICKS.
- X. \*Geology: Special reading in U. S. and State Geological Reports, and investigation of local problems. (Course supplementary to the two preceding, for Junior Scientific students who elect Geology as a special study. See page 41.)—*Junior Year*: first, second, and third terms, three hours, M., W., F. Professor HICKS.
- XI. Palæontology: Outline study of the subject.—*Junior Year*: third term, three hours, M., W., F. Professor HICKS.



- XII. \*Geology, or Palæontology: Advanced and special study of the Geology of Nebraska; or special problems in Palæontology. (Choice between these subjects to be made by special students in Geology for their work in Senior Year. See page 42.)—*Senior Year*: first, second, and third terms, five hours. Professor HICKS.

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BOTANY.

- I. Vegetable Anatomy, with five hours in Laboratory.—*Sophomore Year*: first term, two hours. Professor BESSEY.
- II. Vegetable Physiology, with five hours in Laboratory.—*Sophomore Year*: second term, two hours. Professor BESSEY.
- III. Special Anatomy and Physiology of the lower plants (Protophytes to Oophytes), with five hours in Laboratory.—*Sophomore Year*: third term, two hours. Professor BESSEY.
- IV. Special Anatomy and Physiology (Carpophytes to Phanerogams), with five hours in Laboratory.—*Junior Year*: first term, two hours. Professor BESSEY.
- V. \*Study of the structure or physiology of one plant. (Choice between this and the courses following to be made by Junior Scientific students electing Botany as their specialty. See page 41. These four courses are open to other students prepared to undertake them.)—*Junior and Senior Years*. Professor BESSEY.
- VI. \*Comparative Anatomy of particular tissues or organs.—*Junior or Senior Years*. Professor BESSEY.
- VII. \*Study of a selected group of plants, including structure and classification.—*Junior and Senior Years*. Professor BESSEY.
- VIII. \*Study of the flora of Lincoln, including collections of specimens and preparation of a catalogue.—*Junior and Senior Years*. Professor BESSEY.

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MODERN LANGUAGES, SANSKRIT, AND HEBREW.

- I. German: Grammar and Reader, with especial reference to correct pronunciation, mastery of the essentials of grammar, critical and exact translation, and the relations of German with English.—*Freshman Year*: first, second, and third terms, five hours. Professor EDGREN.
- II. German: Readings from select authors, both with preparation and at sight, with philologic and literary lectures.—*Sophomore Year*: first, second, and third terms, five hours. Professor EDGREN.
- III. French: Grammar and Reader, with special reference to correct pronunciation, mastery of the essentials of grammar, critical and exact translation, and the relations of French with Latin and English.—*Sophomore Year*: first, second, and third terms, four hours, M., T., W., Th. Dr. FONTAINE.

- IV. \*German: Advanced Reading; Lectures on General Literature.—*Junior and Senior Years*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- V. \*German Conversation and Composition.—*Junior or Senior Year*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- VI. French: Corneille, Moliere, and Lamartine.—*Junior Year*: first and second terms, three hours, M., W., F. Dr. FONTAINE.
- VII. Italian: Grammar and Reader.—*Junior Year*: third term, three hours, M., W., F. Professor EDGREN.
- VIII. \*French: Advanced Reading, or Conversation and Composition.—*Senior Year*: first, second, and third terms, two hours, T., Th. Dr. FONTAINE.
- IX. \*Sanskrit: Grammar and Reader.—*Senior Year*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- X. \*Italian: Select authors.—*Senior Year*: first and second terms, two hours, T., Th. Dr. FONTAINE.
- XI. \*Spanish: Grammar and Readings.—*Junior or Senior Years*: second and third terms, two hours, T., Th. Dr. FONTAINE.
- XII. \*Scandinavian Languages: Special courses in Swedish and Danish (designed primarily for students of Scandinavian birth who wish to read critically their native literature; but elementary instruction will be given if desired).—*Junior Year*: first and second terms, two hours. Professor EDGREN.
- XIII. \*Sanskrit: Advanced Course.—*Senior Year*: first, second, and third terms, two hours, T., Th. Professor EDGREN.
- XIV. \*Hebrew: Elementary Course.—*Senior Year*: first, second, and third terms, two hours. Professor EDGREN.

#### ENGLISH LITERATURE, RHETORIC, AND ORATORY.

- I. Rhetoric: Practical Exercises in Criticism and Composition; Themes and Studies in Style; Argumentative Themes and Studies in Oratory.—*Freshman Year*: first, second, and third terms, two hours, T., Th. Adj. Prof. HUNT.
- II. Anglo-Saxon and Early English: Historical Study of English by principal authors from Cædmon to Chaucer.—*Sophomore Year*: first, second, and third terms, three hours, M., W., F. Professor SHERMAN.
- III. \*Anglo-Saxon and Early English: Special Authors.—*Junior Year*: first term, two hours, T., Th. Professor SHERMAN.
- IV. English Literature, Introductory Course: General Survey from Chaucer to the modern period, with special study of chief Authors, origin of various Schools, and influence of other Literatures.—*Junior Year*: first, second, and third terms, three hours, M., W., F. Professor SHERMAN.

- V. \*Shakespeare, First Course: Macbeth; Hamlet; Othello.—*Junior Year*: first, second, and third terms, three hours, M., W., F. Professor SHERMAN.
- VI. \*Shakespeare, Advanced Course: King Lear; Merchant of Venice; Coriolanus.—*Senior Year*: first, second, and third terms, three hours, T., Th., F. Professor SHERMAN.
- VII. \*Practical Elocution: Readings from the Poets; from Shakespeare; and from the best Orators.—*Junior or Senior Year*: first, second, and third terms, two hours, T., Th. Adj. Prof. HUNT.
- VIII. \*Rhetoric and Oratory, Advanced Course: Studies of best Stylists and Models; Practical Training in the formation of a correct style, whether in the essay or oration.—*Junior or Senior Year*: first, second, and third terms, two hours, T., Th. Adj. Prof. HUNT.
- IX. \*English Literature, Advanced Course: Critical study of select authors, with reference to the genesis and development of modern Taste and Standards; Lectures on Æsthetics, Resources of Style, and Comparison of Literatures; Practical Criticism of Current Literature.—*Senior Year*: first, second, and third terms, four hours, M., T., W., Th. Professor SHERMAN.
- X. \*American Literature.—*Senior Year*: first, second, and third terms, two hours, T., Th. Professor SHERMAN.
- XI. \*Browning Course: Pippa Passes, Paracelsus, Sordello.—*Senior Year*: second and third terms, two hours, T., Th. Professor SHERMAN.

#### HISTORY.

- I. Ancient History: Epochs of Grecian, Persian, and Roman History; Lectures on Athenian, Spartan, and Roman Constitutions.—*Freshman Year*: first, second, and third terms, four hours. Professor HOWARD.
- II. Ancient History: The Early Empire, from Augustus to Constantine.—*Sophomore Year*: first term, four hours, M., W., F. Professor HOWARD.
- III. The Middle Ages: From Constantine to the Crusades; The Hundred Years' War; Louis XI. and Charles the Bold.—*Sophomore Year*: second and third terms, three hours, M., W., F. Professor HOWARD.
- IV. \*History of the Renaissance: Revival of Literature; Dante, Petrarch, Boccaccio; Of Learning: Study of Latin and Greek, Universities, Printing, etc.; Of Art: Michael Angelo, Raphael da Vinci; Politics and Religion: Machiavelli, Savonarola, etc. *References*: Symonds, Pater, Grimm, Villari, Roscoe, Burckhardt, etc.—*Junior or Senior Year*: first term, four hours. Adj. Prof. CALDWELL.



- V. European History, 1500-1800: Protestant Revolution; Thirty Years' War; Puritan Revolution; Age of Anne.—*Junior Year*: first, second, and third terms, three hours, M., W., F. Adj. Prof. CALDWELL.
- VI. \*The French Revolution: Ancient Regime, Rousseau, Voltaire, Diderot, National and Legislative Assemblies; Jacobin Conquest, Thermidor, Vandemiaire; Eighteenth Fructidor, Eighteenth Brumaire.—*Junior or Senior Year*: second and third terms, three hours, T., Th., F. Professor HOWARD.
- VII. \*Ancient Law: A Study of the Genesis of Aryan Institutions in the works of Maine, Hearn, Coulanges, Laveleye, Morgan, McLennan, Spencer, etc.—*Junior or Senior Year*: first term, three hours, M., W., F. Professor HOWARD.
- VIII. \*Growth of the English Constitution: A Comparative Study of the Development of English Institutions from Tacitus to the present time, in the works of Stubbs, Waitz, Kemble, May, Bagehot, C x, the Collections of Schmidt and Thorpe, the Rolls Series, etc.—*Junior or Senior Year*: first, second, and third terms, five hours. (This course will be given in 1888-89, but not in 1889-90.) Professor HOWARD.
- IX. \*Political History of the Nineteenth Century: Reform Bills of 1832 and 1867; growth of British India; Corn Laws and Rise of Free Trade; French Revolution; Rise of Prussia; German Empire; growth of Italy; Minor Powers.—*Junior or Senior Year*: first term, three hours, M., W., F. Adj. Prof. CALDWELL.
- X. \*American History: Discoveries, Explorations, Settlements, with related European history; Analysis of forms of Colonial government; Establishment of Local Institutions in the Colonies, North and South; Plans of Union among the Colonies; Independence; Confederation.—*Junior or Senior Year*: first, second, and third terms, five hours. (This course will be given in 1889-90, but not in 1888-89.) Professor HOWARD.
- XI. \*American History: Formation of the Constitution, Ratification, Political and Constitutional development to Jackson's Administration; Political and Constitutional development to the Civil War; Reconstruction. *Authorities*: Bancroft, Von Holst, Curtis, Elliot, Federalist, Greeley, Wilson, Statesmen Series, Draper, Benton, Poore, etc.—*Junior or Senior Year*: first, second, and third terms, five hours. Adj. Prof. CALDWELL.

#### MILITARY SCIENCE.

- I. Infantry and Artillery Tactics.—*Sophomore Year*: first and second terms, two hours. Professor DUDLEY.
- II. U. S. Army Regulations.—*Sophomore Year*: third term, two hours. Professor DUDLEY.

- III. \*Field Fortification.—*Junior Year*: first term, two hours. Professor DUDLEY.
- IV. \*Art and Science of War.—*Junior Year*: second term, two hours. Professor DUDLEY.
- V.\* Manufacture and Use of Gunpowder; Manufacture of Small Arms, Cannon, Torpedoes, and their Use; Strategy and Tactics, Campaigns, etc.; Logistics; Military Law; Customs of the Service; Lectures.—*Junior Year*: third term, two hours. Professor DUDLEY.

THE INDUSTRIAL COLLEGE.

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In this College are offered TWO COURSES OF STUDY, designated as the CIVIL ENGINEERING and the AGRICULTURAL, leading to the Degrees of B.C.E. and B.AG., respectively.

All candidates for admission to the Freshman Class in either Course (except those holding certificates of graduation from the High Schools named below) will be examined in the following subjects:

*English*.—A practical knowledge of English composition and thorough mastery of the studies leading to it; together with so much of further preparation for beginning the study of Rhetoric proper as is contained in Book I. of A. S. Hill's Principles of Rhetoric.

*Geography*.

*Mathematics*.—Arithmetic; Higher Algebra to Undetermined Co-efficients; Plane and Rectilinear Solid Geometry.

*History*.—Barnes's History of the United States; Barnes's General History, or Swinton's Outlines.

*Latin*.—Allen and Greenough's or Harkness's Grammar; Cæsar, two books; Cicero, four orations; Allen's Latin Composition, thirty lessons.

*Chemistry*.—A knowledge of Elementary Chemistry, such as may be obtained by a year's study of Avery's, Clarke's, or Eliot and Storer's Elements of Chemistry, with laboratory practice.

*Botany*.—A knowledge of general Botany, including the principal characters of the great divisions of the vegetable kingdom (lectures and field-work); with a practical acquaintance with the structure, analysis, and identification of flowering plants (Gray's Lessons and Manual), and the presentation of a collection of one hundred plants in herbarium.

*Physics*.—Such knowledge of Elementary Physics as may be acquired by thorough study of Balfour Stewart's Elementary Physics, or an equivalent.

*Zoology*.—Orton's, or an equivalent.

NOTE.—For a more detailed view of the requirements for admission, see Course of Study in the LATIN SCHOOL.

The first examination of candidates for the Freshman Class, or for advanced standing, will be held on Friday and Saturday after Commencement, June 15 and 16, 1888, beginning at 9 A.M. A second examination will be held on Tuesday and Wednesday, Sept. 11 and 12, at the opening of the Fall term. Attendance is required in all cases at the opening of the examination.

## ADMISSION BY DIPLOMA.

Candidates holding diplomas from the High Schools of *Alma, Beatrice, Edgar, Fremont, Grand Island, Kearney, Lincoln, Nebraska City, Plattsmouth,* and *Tekamah*, will be admitted to the Freshman Class without examination.

All candidates for advanced standing will be examined, in addition to the preparatory subjects enumerated above, in the studies already pursued by the class which they wish to enter. Following is the complete program of studies for each college year in the several courses. In general, equivalent text-books and authorities will be accepted in place of the works named.

## ENGINEERING COURSE.

## FRESHMAN YEAR.

## FIRST TERM.

*Chemistry*.—Remsen's Introduction to the Study of Chemistry, as far as Carbon. (Four hours.)

*Mathematics*.—Solid Geometry (Loomis: books VII.-X.). Original demonstrations. (Five hours.)

*German*.—Whitney's Grammar and Reader (three hours); Ahn-Fischer's Exercises (two hours).

*Rhetoric*.—Practical exercises in Criticism and Composition; study of special models in Narration and Description; one Declamation. (Two hours.)

## SECOND TERM.

*Chemistry*.—Remsen's Introduction: Carbon and Carbon Compounds. (Four hours.)

*Mathematics*.—Wheeler's Trigonometry (Plane and Spherical) finished. Original demonstrations. (Five hours.)

*German*.—Whitney's Grammar and Reader (three hours); Ahn's Exercises and Stern's Studien, second series (two hours).

*Rhetoric and Elocution*.—Practical exercises in Criticism and Composition, continued; Themes and Studies in Style; one Declamation. (Two hours.)

## THIRD TERM.

*Chemistry*.—Remsen's Introduction: Classification and Grouping of Elements. (Four hours.)

*Graphics*.—Elementary Plane Problems; Drafting Instruments and Operations. (Four hours.)

*Mathematics*.—Loomis's Conic Sections. Original demonstrations. (Five hours.)

*Rhetoric*.—Argumentative Themes; Studies in Oratory; one Declamation. (Two hours.)

*German*.—Whitney's Grammar and Reader (two hours); Schiller's *Der Neffe* and Stern's *Studien*, at sight (three hours).

# SOPHOMORE YEAR.

## FIRST TERM.

*Mathematics*.—Olney's Higher Algebra, part III.; Spherical Trigonometry begun. (Five hours.)

*Graphics*.—(One hour.)

*Rhetoric*.—One Theme; one Declamation.

*Modern Languages*.—German or French (four hours), with the Sophomores of the LITERARY COURSE. See page 43.

*Military Science*.—Upton's Infantry Tactics. (Two hours.)

## SECOND TERM.

*Mathematics*.—Spherical Trigonometry, finished; Bowser's Analytical Geometry, begun. (Five hours.)

*Graphics*.—(One hour.)

*Rhetoric*.—One Theme; one Declamation.

*Modern Languages*.—German or French (four hours), with the Sophomores of the LITERARY COURSE. See page 43.

*Military Science*.—U. S. Artillery Tactics. (Two hours.)

## THIRD TERM.

*Mathematics*.—Analytical Geometry. (Five hours.)

*Graphics*.—(One hour.)

*Crystallography*.—Dana's Manual of Mineralogy and Lithography. Crystallographic Symbols; drawing and description of Crystals. (Two hours.)

*Rhetoric*.—One Theme; one Declamation.

*Modern Languages*.—German or French (four hours), with the Sophomores of the LITERARY COURSE. See page 44.

*Military Science*.—United States Army Regulations. (Two hours.)

# JUNIOR YEAR.

## FIRST TERM.

*Mathematics*.—Byerly's Differential Calculus. (Five hours.)

*Surveying*.—Johnson's Land Surveying: Recitations (three hours); Field Work with Compass and Transit, Platting Surveys, and Computations (three hours).

*Physics*.—Physical Problems: Lectures (five hours); Laboratory work (six hours).

*Rhetoric*.—One Oration.

## SECOND TERM.

*Mathematics*.—Byerly's Integral Calculus. (Five hours.)

*Graphics*.—Church's Descriptive Geometry: Recitations (five hours);  
Drawing (five hours).

*Physics*.—(As in First Term.)

*Rhetoric*.—One Oration.

## THIRD TERM.

*Mathematics*.—Calculus. (Five hours.)

*Graphics*.—Church's Shades and Shadows, Linear Perspective. (Five hours.)

*Physics*.—Physical Problems: Lectures (three hours); Laboratory work (six hours).

*Surveying*.—Higher Surveying and Leveling; Field Work with Level. (Five hours.)

*Rhetoric*.—One Oration.

## SENIOR YEAR.

## FIRST TERM.

*Field Engineering*.—Location of Line of Railroad, with calculations of Excavations and Embankments; Henck's Field Book for Railroad Engineers. Searle's Railroad Spiral. (First half of Term: Eighteen hours.)

*Mathematics*.—Todhunter's Analytical Statics. (Five hours.)

*Civil Engineering*.—Resistance of Materials. (Second half of term: Five hours.)

*Rhetoric*.—One Oration.

*Thesis*.

## SECOND TERM.

*Civil Engineering*.—Strength of Materials: Bridges and Roofs. (Five hours.)

*Mathematics*.—Todhunter's Analytical Statics. (Five hours.)

*Electives*.—(Five hours required.)

*Thesis*.

*Rhetoric*.—One Oration.

## THIRD TERM.

*Civil Engineering*.—Mahan's Civil Engineering. (Three hours.)

*Graphics*.—Warren's Stereotomy. (Five hours.)

*Electives*.—(Five hours.)

*Thesis*.

*Rhetoric*.—One Oration.

AGRICULTURAL COURSE.

FRESHMAN YEAR.

FIRST TERM.

*Chemistry*.—Remsen's Introduction to the Study of Chemistry, as far as Carbon (two hours); Laboratory work (four hours).

*Mathematics*.—Solid Geometry (Loomis: books VII.—IX.). Original demonstrations. (Five hours.)

*German*.—Whitney's Grammar and Reader (three hours); Ahn-Fischer's Exercises (two hours).

*Rhetoric*.—Practical exercises in Criticism and Composition; study of special models in Narration and Description; one Declamation. (Two hours.)

*History*.—Ancient History: Cox's Greeks and Persians, and Athenian Empire. Lectures and blackboard Analysis on the constitutional history of Athens and Sparta. One Lecture required from each student on some topic assigned. (Four hours.)

SECOND TERM.

*Chemistry*.—Remsen's Introduction: Carbon and Carbon Compounds (two hours); Laboratory work (four hours).

*Mathematics*.—Wheeler's Trigonometry, Plane and Spherical, finished. Original demonstrations. (Five hours.)

*German*.—Whitney's Grammar and Reader (three hours); Ahn's Exercises and Stern's Studien, second series (two hours).

*Rhetoric and Elocution*.—Practical exercises in Criticism and Composition continued; Themes and Studies in Style; one Declamation. (Two hours.)

*History*.—Ancient History: Ihne's Early Rome, and Smith's Rome and Carthage; special analysis of Roman institutions, as the Comitia, Magistracies, Collegia, Ranks, Classes, etc. One Lecture, as first term. (Four hours.)

THIRD TERM.

*Chemistry*.—Remsen's Introduction: Classification and Grouping of Elements (two hours); Laboratory work (four hours).

*Zoology*.—Jordan's Manual of Vertebrates: Mammalia, Diagnoses of ordinal and family characters, and determination of species. (Two hours.)

*Mathematics*.—Loomis's Conic Sections. Original demonstrations. (Five hours.)

*Rhetoric*.—Argumentative Themes; Studies in Oratory; one Declamation. (Two hours.)

*German*.—Whitney's Grammar and Reader (two hours); Schiller's Der Neffe, and Stern's Studien at sight (three hours).

*History*.—Ancient History: Beesley's The Gracchi, Marius, and Sulla; Merivale's Triumvirates. Blackboard exercises on political institutions, continued. Theme or Lecture by each student. (Four hours.)



## SOPHOMORE YEAR.

## FIRST TERM.

*Chemistry*.—Inorganic Chemistry; Lectures and Recitations (three hours); Laboratory work (six hours).

*Physics*.—Wood's Mechanics, and Lee's Acoustics. (Two hours.)

*Botany*.—Vegetable Anatomy; including the study of protoplasm, plant-cells, cell-products, the tissues of plants, the grouping of tissues into tissue-systems, and the general types of the plant-body (two hours); Laboratory work (five hours).

*Zoology*.—Jordan's Manual: Birds, Reptiles, and Fishes. Practical work in collecting and classifying specimens. (Three hours.)

*Rhetoric*.—One Theme; one Declamation.

*Modern Languages*.—German or French (five hours), with the Sophomores of the LITERARY COURSE. See page 43.

*Military Science*.—Upton's Infantry Tactics. (Two hours.)

## SECOND TERM.

*Chemistry*.—Inorganic Chemistry, and Fresenius's Qualitative Analysis, Recitations and Lectures (three hours); Laboratory work (five hours).

*Physics*.—Optics and Heat. (Three hours.)

*Botany*.—Vegetable Physiology; including the study of the water in plants, evaporation of water, plant-food; assimilation, vegetable digestion, temperature and light as affecting vegetation and movements of plants (two hours); Laboratory work (five hours.)

*Zoology*.—Anatomy and Histology. Dissections and demonstrations. (Works of reference: Owen, Huxley, Carpenter.) (Three hours.)

*Rhetoric*.—One Theme; one Declamation.

*Modern Languages*.—German or French (five hours), with the Sophomores of the LITERARY COURSE. See page 43.

*Military Science*.—U. S. Army Artillery Tactics. (Two hours.)

## THIRD TERM.

*Chemistry*.—Inorganic Chemistry and Fresenius's Qualitative Analysis; Recitations and Lectures (three hours); Laboratory work (six hours).

*Botany*.—Special Anatomy and Physiology; including study of the Protophytes (Slime-moulds, Bacteria, Yeast-plants, and Green Slimes); Zygophytes (Conferva, Sea-Lettuce, Kelp, Desmids, Diatoms, Pond-Scums, and Black-Moulds); Oophytes (Volvox, *Cedogonium*, Green Felt, Water-Moulds, Fly Fungus, Mildew, White Rusts, and Rockweeds.) (Two hours.) Laboratory work (five hours).

*Crystallography*.—Dana's Manual of Mineralogy and Lithography. Crystallographic Symbols; Drawing and Description of Crystals. (Two hours.)

*Zoology*.—Entomology: Structure and Habits of Insects; collecting and mounting specimens; identification of species. (Three hours.)



*Rhetoric.*—One Essay.

*Modern Languages.*—German or French with the Sophomores of the LITERARY COURSE. (Five hours.)

*Military Science.*—U. S. Army Regulations. (Two hours.)

## JUNIOR YEAR.

### FIRST TERM.

*Chemistry.*—Analysis of Simple and Complex Salts, by both Gravimetric and Volumetric Methods. (Five hours.)

*Botany and Horticulture.*—Special Anatomy and Physiology; including study of the Carpophytes (Red Seaweeds, Blights, Cup-Fungi, Black Fungi, Lichens, Rusts, Smuts); Bryophytes (Liverworts, Mosses); Pteridophytes (Equisetums, Ferns, Lycopods); Phanerogams (Gymnosperms, Angiosperms); Fertilization and Propagation of Plants; Hybridization; Diseases of Plants. (Five hours.) Laboratory work (ten hours).

*Geology.*—Physiographic and Structural Geology (Dana's Manual), with Field work. (Three hours.)

*Entomology.*—Life histories of insects which are injurious to vegetation; parasitic insects: Remedies (two hours.)

*Rhetoric.*—One Essay.

*Electives.*—(Three hours.)

### SECOND TERM.

*Chemistry.*—Analyses of Minerals, Ores, Fertilizers, and Farm Products. (Five hours.)

*Botany and Horticulture.*—Variation of Plants; Improvement of Varieties; Plant-breeding; Diseases of Plants (five hours); Laboratory work (ten hours).

*Geology.*—Historical and Dynamical Geology (Dana's Manual), with Field work. (Three hours.)

*Meteorology.*—Recitations and Lectures, with practical use of the instruments in the University Meteorological Station. (Two hours.)

*Rhetoric.*—One Essay.

*Electives.*—(Three hours.)

### THIRD TERM.

*Chemistry.*—Analyses of Minerals, etc., continued. (Five hours.)

*Botany and Horticulture.*—Plant Food; Plant Growth; Diseases of Plants. Lectures on the principles of landscape gardening (five hours); Laboratory work (ten hours).

*Entomology.*—Life histories of insects which are injurious to vegetation; parasitic insects: Remedies. (Two hours.)

*Palæontology.*—Classification, description, and figuring of Fossils; use of technical terms. (Three hours.)

*Rhetoric.*—One Oration.

*Electives.*—(Three hours.)

## SENIOR YEAR.

## FIRST TERM.

*Agriculture*.—Selection, laying out, and improvement of farms; drains, fences, and farm buildings; farm implements; farm law. (Three hours.)

*Veterinary Science*.—Anatomy of domestic animals. (Five hours.)

*Thesis*.—Original investigation of some problem in the application of science to agriculture and horticulture, the results of which are to be embodied in an elaborate graduation thesis.

*Rhetoric*.—One Oration.

*Electives*.—(Three hours.)

## SECOND TERM.

*Agriculture*.—History, development, and characteristics of the various breeds of domestic animals; stock-breeding; feeding; dairying. (Five hours.)

*Veterinary Science*.—Physiology and Pathology of domestic animals. (Five hours.)

*Thesis*.—As in First Term.

*Rhetoric*.—One Oration.

*Electives*.—(Three hours.)

## THIRD TERM.

*Agriculture*.—History, cultivation, and varieties of the cereal crops; pastures and meadows; special and local crops. (Five hours.)

*Veterinary Science*.—Outlines of Veterinary Medicine and Surgery. (Five hours.)

*Thesis*.—As in first term.

*Rhetoric*.—One Oration.

*Electives*.—(Three hours.)

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ELECTIVES.

No electives are at present offered in continuation of the required studies in the Industrial College; but students of this or of the Academic College are at liberty to elect studies from the required subjects of any course for which they have received the necessary preparation. The sequence of studies is shown in the following summary of Departments:

DEPARTMENTS OF STUDY.

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CIVIL ENGINEERING.

- I. Elementary Projection Drawing; Use of Drafting Instruments; Isometric Projection.—*Sophomore Year*: six hours. Associate Professor LITTLE.
- II. Descriptive Geometry; Shades and Shadows; Linear Perspective.—*Junior Year*: second term, ten hours; third term, five hours. Associate Professor LITTLE.
- III. Stereotomy.—*Senior Year*: third term, five hours. Associate Professor LITTLE.
- IV. Land Surveying; Use of Compass and Chain Transit.—*Junior Year*: first term, six hours. Associate Professor LITTLE.
- V. Higher Surveying and Leveling; Use of Level.—*Junior Year*: third term, five hours. Associate Professor LITTLE.
- VI. Railroad Engineering; Laying out Curves; Location of Line of Railroad; Setting Slope Stakes; Calculation of Excavation and Embankment; Transition Curves.—*Senior Year*: first half of first term, eighteen hours. Associate Professor LITTLE.
- VII. Resistance of Materials; Bridges and Roofs; Mahan's Civil Engineering.—*Senior Year*: first, second, and third terms, five hours. Associate Professor LITTLE.
- VIII. Differential and Integral Calculus; Differential Equations; Adjustment of Observations; Methods of Least Square.—*Junior Year*: first, second, and third terms, five hours. Associate Professor LITTLE.
- IX. Analytical Statics; Conditions of Equilibrium of Systems of Forces; Friction; Attraction.—*Senior Year*: first and second terms, five hours. Associate Professor LITTLE.

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BOTANY AND HORTICULTURE.

- I. Vegetable Anatomy, with five hours in the laboratory.—*Sophomore Year*: first term, two hours. Professor BESSEY.
- II. Vegetable Physiology, with five hours in the laboratory.—*Sophomore Year*: second term, two hours. Professor BESSEY.
- III. Special Anatomy and Physiology of the Lower Plants (Protophytes to Oophytes), with five hours in the laboratory.—*Sophomore Year*: third term, two hours. Professor BESSEY.
- IV. Special Anatomy and Physiology (Carpophytes to Phanerogams); The Fertilization and Propagation of Plants; Hybridization; Diseases of Plants, with ten hours in the laboratory.—*Junior Year*: first term, five hours. Professor BESSEY.

- V. Variation of Plants; Improvement of Varieties; Plant Breeding; Diseases of Plants, with ten hours in the laboratory.—*Junior Year*: second term, five hours. Professor BESSEY.
- VI. Plant Food; Plant Growth; Diseases of Plants. Lectures on the Principles of Landscape Gardening; with ten hours in the laboratory.—*Junior Year*: third term, five hours. Professor BESSEY.

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### AGRICULTURE.

- I. Selection, laying out, and improvement of farms; drains, fences, and farm buildings; farm implements; farm law.—*Senior Year*: first term, three hours. Adj. Prof. WING.
- II. History, development, and characteristics of the various breeds of domestic animals; stock-breeding, feeding, dairying.—*Senior Year*: second term, five hours. Adj. Prof. WING.
- III. History, cultivation, and varieties of the cereal crops; pastures and meadows; special and local crops.—*Senior Year*: third term, five hours. Adj. Prof. WING.

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### ELEMENTARY AGRICULTURAL COURSE.

A two-years course in Elementary Agriculture is now offered to those who are not able to take the full course. The requirements for admission to the studies of this course are as follows:

*English Grammar.*

*Arithmetic.*—Fractions, denominate numbers, percentage and its applications, analysis, and proportion.

*Geography.*

*History of the United States.*

Examinations of candidates will be held this year at the University on Friday and Saturday, June 15 and 16, and on Tuesday and Wednesday, September 11 and 12.

The arrangement of studies for the two years is as follows:

### FIRST YEAR.

#### FIRST TERM.

*Mathematics.*—Elementary Algebra. (Five hours.)

*Botany.*—The gross anatomy of the flowers, fruits, leaves, and roots of several plants. Talks on Green Slimes, Yeast-plant, Black Mould, Green Felt, and Grape Mildew. (One hour.)

*Zoology*.—Systematic General Zoology; Nicholson, or Packard.  
(Five hours.)

*Agriculture*.—Talks on Elementary Topics of the subject. (Three hours.)

*Civil Government*.—Macy and True. (Two hours.)

## SECOND TERM.

*Mathematics*.—Elementary Algebra. (Five hours.)

*Botany*.—The gross anatomy of stems and buds, with study of the effects of low temperature on vegetation. Talks on Seaweeds, Blights, Cup-Fungi, Black Fungi, Rusts, and Smuts. (One hour.)

*Physics*.—Stewart's Elementary Physics: Mechanics and Sound.  
(Two hours.)

*Chemistry*.—Remsen's Introduction, with exercises in chemical manipulation. (Two hours.)

*Agriculture*.—Talks on Elementary Topics. (Three hours.)

*Civil Government*.—Macy and True. (Two hours.)

## THIRD TERM.

*Mathematics*.—Olney's Elementary Algebra. (Five hours.)

*Botany*.—The structure, analysis, and identification of flowering plants (Gray's Lessons and Manual, and Coulter's Manual); the preparation of a collection of one hundred plants in herbarium.  
(Two hours.)

*Physics*.—Stewart's Physics: Heat, Light, and Electricity. (Three hours.)

*Chemistry*.—Remsen's Introduction, with practice in Laboratory in cutting, bending, and blowing glass, and setting up apparatus.  
(Three hours.)

*Agriculture*.—Talks on Elementary Topics. (Three hours.)

*Civil Government*.—Macy and True. (Two hours.)

## SECOND YEAR.

### FIRST TERM.

*Botany and Horticulture*.—Special Anatomy and Physiology; Fertilization and Propagation of Plants; Hybridization; Diseases of Plants. (Five hours.)

*Veterinary Science*.—Anatomy of domestic animals. (Five hours.)

*Entomology*.—Studies of insects injurious to vegetation; parasitic insects: Remedies. (Two hours.)

*Agriculture*.—Selection, laying out, and improvement of farms; drains, fences, and buildings; farm implements; farm law. (Three hours.)

*Political Economy*.—Elementary topics. (Two hours.)

## SECOND TERM.

*Botany and Horticulture*.—Variation of plants; improvement of varieties; plant breeding; diseases of plants. (Five hours.)

*Meteorology*.—Recitations and Lectures, with practical use of the instruments in the University Meteorological Station. (Two hours.)

*Agriculture*.—History and characteristics of the various breeds of domestic animals; stock breeding; feeding; dairying. (Five hours.)

*Veterinary Science*.—Physiology and Pathology of domestic animals. (Five hours.)

*Political Economy*.—Elementary topics. (Two hours.)

## THIRD TERM.

*Botany and Horticulture*.—Plant food and growth; diseases of plants. Lectures on Landscape Gardening. (Five hours.)

*Entomology*.—Studies of injurious and parasitic insects, continued: Remedies. (Two hours.)

*Veterinary Science*.—Outlines of Veterinary Medicine and Surgery. (Five hours.)

*Agriculture*.—History, cultivation, and varieties of the cereal crops; pastures and meadows; special and local crops. (Five hours.)

*Political Economy*.—Elementary topics. (One hour.)

SYNOPTICAL VIEW OF THE UNDERGRADUATE  
COURSES OF STUDY.



## COURSES OF STUDY.

Year	Term	COLLEGE OF LITERATURE, SCIENCE, AND THE ARTS				INDUSTRIAL COLLEGE		
		CLASSICAL COURSE	SCIENTIFIC COURSE	LITERARY COURSE		ENGINEERING COURSE	AGRICULTURAL COURSE	
Freshman	1st	Latin 5 Greek 4 Mathematics 5 Rhetoric 2	German 5 Chemistry 2 Zoology 2 Mathematics 5 Rhetoric 2	German 5 Mathematics 5 History 2 Rhetoric 2		German 5 Chemistry 4 Mathematics 5 Rhetoric 2	German 5 Chemistry 4 Mathematics 5 Rhetoric 2	
	2d	Latin 4 Greek 5 Mathematics 5 Rhetoric 2	German 5 Chemistry 2 Zoology 2 Mathematics 5 Rhetoric 2	German 5 Mathematics 5 History 4 Rhetoric 2		German 5 Chemistry 4 Mathematics 5 Rhetoric 2	German 5 Chemistry 4 Mathematics 5 Rhetoric 2	
	3d	Latin 5 Greek 4 Mathematics 5 Rhetoric 2	German 5 Chemistry 4 Mathematics 5 Zoology 2	German 5 Mathematics 5 Rhetoric 2 History 4		German 5 Chemistry 2 Mathematics 5 Graphics 4	German 5 Chemistry 2 Mathematics 5 Zoology 4	
Sophomore	1st	Latin 4 Greek 5 German 5 Military Science 2	Modern Languages 4 Botany* 2 Physics 2 Zoology* 3 Chemistry 3 Military Science 2	German 4 French 4 Anglo-Saxon 3 History 3 Military Science 2		H. Alg., Sph. Trig. 5 History 4 Graphics 4 Modern Languages 1 Military Science 2	Modern Languages 4 Botany 2 Physics 2 Zoology 2 Chemistry 3 Military Science 2	
	2d	Latin 5 Greek 4 German 5 Military Science 2	Modern Languages 4 Botany* 2 Physics 2 Zoology* 3 Chemistry 3 Military Science 2	German 4 French 4 Early English 3 History 3 Military Science 2		Sph. Trig., An. Geom. 5 History 4 Graphics 4 Modern Languages 1 Military Science 2	Modern Languages 4 Botany 2 Physics 3 Zoology 3 Chemistry 3 Military Science 2	
	3d	Latin 4 Greek 5 German 5 Military Science 2	Modern Languages 4 Botany* 2 Crystallography 5 Zoology* 3 Chemistry 3 Military Science 2	German 4 French 4 Early English 3 History 3 Military Science 2		Analytical Geometry 5 History 4 Graphics 4 Modern Languages 1 Military Science 2	Modern Languages 4 Botany 2 Crystallography 2 Zoology 2 Chemistry 3 Military Science 2	

\*Or Mathematics, 5 hours.



# COURSES OF STUDY.—CONTINUED.

COLLEGE OF LITERATURE, SCIENCE, AND THE ARTS.					INDUSTRIAL COLLEGE	
Year	Term	CLASSICAL COURSE	SCIENTIFIC COURSE	LITERARY COURSE	ENGINEERING COURSE	AGRICULTURAL COURSE
Junior	1st	Latin Greek German or French Electives	Min. and Geology Physics Botany Electives: Science Electives 3 } General Electives 3 }	French English Literature History Electives	Calculus Surveying Physics	Agr. Chemistry Botany and Elements of Horticulture Geology Entomology Electives
	2d	Latin Greek German or French Electives	Min. and Geology Physics Meteorology Electives: Science Electives 3 } General Electives 3 }	French English Literature History Electives	Calculus Desc. Geometry Physics	Agr. Chemistry Botany and Elements of Horticulture Geology Meteorology Electives
	3d	Latin Greek German or French Electives	Palaeontology Physics Constitutional Law Desc. Astronomy Electives: Science Electives 3 } General Electives 3 }	Italian English Literature History Electives	Calculus Desc. Geometry Surveying and Level Physics	Agr. Chemistry Botany and Elements of Horticulture Palaeontology Entomology Electives
Senior	1st	Political Science Philosophy Electives	Political Science Thesis Electives 5 hours must be given to Zool., Bot., Geol., or Chem.	Political Science Electives	R. R. Engineering Analyt. Statics Res. Materials Thesis	Agriculture Veterinary Science Orig. Investigation (Thesis Subject) Electives
	2d	Political Science Philosophy Electives	Logic Electives as in first term Thesis	Political Science Electives	Bridges and Roofs Analyt. Statics Electives Thesis	Agriculture Veterinary Science Orig. Investigation (Thesis Subject) Electives
	3d	Political Science Philosophy Electives	Ethics Electives Thesis	Political Science Electives	Civil Engineering Stereotomy Electives Thesis	Agriculture Veterinary Science Orig. Investigation (Thesis Subject) Electives

## GRADUATE INSTRUCTION.

Graduates of this and other Colleges and other persons of approved attainments are provided advanced instruction in certain lines of study, with or without reference to a degree.

The subjects in which at present Graduate Instruction is offered are the following:

## LATIN.

Professor BARBER: The Satirists; the Roman Drama; Roman Law.

## GREEK.

Professor McMILLAN: The Lyric Poets; the Comic Drama; Greek Philosophy.

## SANSKRIT.

Professor EDGREN: Sanskrit; Comparative Philology.

## OLD FRENCH.

Dr. FONTAINE: Old and Middle French; Old French Morphology and Phonetics.

## MATHEMATICS AND CIVIL ENGINEERING.

Professors HITCHCOCK and LITTLE: Analytical Mechanics; Higher Geometry; Determinants; Quaternions, Geodesy.

## ENGLISH.

Professor SHERMAN: Anglo-Saxon and Middle English; English or American Literature.

## HISTORY.

Professor HOWARD: Growth of the English Constitution, or American Institutional History.

## CHEMISTRY.

Professor NICHOLSON: Analysis of the Minerals and Waters of the State; Ultimate Analysis of Organic Products; Analysis of Gases; Study of Unsolved Chemical Problems.

## NATURAL SCIENCES.

Professor HICKS: Special Problems in Structural Geology; Palæontology; Analysis and Determination of Mineral Specimens; Descriptive Mineralogy.

Professor BESSEY: Advanced Work in Vegetable Physiology, and the Structure and Classification of the Lower Plants.

## THE DEGREE OF MASTER OF ARTS.

The degree of Master of Arts is conferred upon graduates of this or any other college of equivalent undergraduate courses, who have passed a satisfactory examination in certain lines of study pursued under the direction of the Faculty.

None but resident students are eligible to examination for the degree of Master of Arts, and at least one year's study is required. Candidates are restricted in the choice of studies to a single department. In the department selected each student may give his whole time to a single (or *Complete*) subject; or, if he prefer, having so arranged his time as to devote 60 per cent to a *Major* subject, he is at liberty either to give the remaining 40 per cent to one *First Minor* subject, or to divide it between two *Second Minors*, each having a value in time of 20 per cent. The minimum amount of time, or work, necessary to render the candidate eligible to examination for the degree in any department may therefore be represented by 100; but this minimum being reached, candidates may offer for higher standing other subjects in any department they may choose.

*Instruction is not given* to candidates studying for the Master's degree, except in connection with the studies named above. But all professors not offering instruction will aid the student in the selection of his subjects, and from time to time advise and assist him in preparing for his examination. The examination is mainly written, and the result in each subject is determined by a committee consisting of the examiner and an associate. Each candidate,\* moreover, after passing the examination must present an acceptable thesis upon some topic included in the studies of the year; each thesis *to be publicly defended*, if required.

All candidates for the degree of M.A. must pay to the steward a fee of \$10 before examination.

## GRADUATE COURSES OF STUDY.

## I. DEPARTMENT OF POLITICAL SCIENCE AND HISTORY.

## I. POLITICAL SCIENCE.

*Complete Course (100).*—Political Economy: *a.* History of the Science; *b.* General Economic Theory; *c.* Applications, and Unsettled Questions.

*Major Course (60).*—Same as above, but less extended in *a* and *c*.

*First Minor Course (40).*—Constitutional Law: *a.* The Constitution of Nebraska, with comparison of other State Constitutions; *b.* The Constitution of the United States, with comparison of those of other Constitutional nations.

\* Except in the subjects of Sanskrit and Modern Languages, in which the preparation of a thesis is optional.

*Second Minor Course (20).*—International Law: *a.* Theory (in some standard work, as Woolsey); *b.* Practice (as illustrated in select treaties and chapters of modern diplomacy).

## II. HISTORY.

*Complete Course (100)* —1. Growth of the English Constitution; (or) 2. American Institutional History.

*Major Course (60).*—1. Studies in Grecian and Roman Political Institutions; (or) 2. Ecclesiastical Institutions.

*First Minor Course (40).*—Select studies in Mediæval History.

## II. DEPARTMENT OF ANCIENT LANGUAGES AND COMPARATIVE PHILOLOGY.

### I. LATIN.

*Complete Course (100).*—*a.* Latin Satirists, or Latin Drama, or Roman Law; *b.* Latin Literature; *c.* Merguet's *Entwicklung der Lateinischen Formenlehre*; *d.* Stolz's *Lateinische Grammatik*; *e.* Delbrueck's *Introduction to the Study of Language*.

*Major Course (60)* —The same as above, with less extended reading, and Merguet and Delbrueck omitted.

*First Minor Course (40)*—*a.* Lucretius; *b.* Stolz's *Lateinische Grammatik*, and Latin Literature.

*Second Minor Course (20)*—*a.* Tacitus's *Annals*; *b.* Latin Literature.

### II. GREEK.

*Complete Course (100)*—*a.* Pindar and Æschylus; *b.* Mahaffy's *History of Classical Greek Literature*; *c.* Symonds's *Study of the Greek Poets*; *d.* Brugmann's *Griechische Grammatik*; *e.* Delbrueck's *Introduction to the Study of Language*.

*Major Course (60).*—The same as above, with less extended reading, and Symonds and Delbrueck omitted.

*First Minor Course (40)*—*a.* Æschines's *Oration against Ctesiphon*; *b.* Brugmann's *Griechische Grammatik*; *c.* Mahaffy's *History of Greek Literature*.

*Second Minor Course (20).*—Same as last, Brugmann's *Grammar* omitted.

### III. SANSKRIT.

*Complete Course (100).*—Edgren's *Grammar*; Lanman's *Reader*, pp. 1-68; Bhagavadgita, 12 songs; Shakuntala, 4 acts.

*Major Course (60).*—Edgren's *Grammar*; Lanman's *Reader*, pp. 1-68; Bhagavadgita, 5 songs.

*First Minor Course (40).*—Edgren's *Grammar*; Lanman's *Reader*, pp. 1-44.

*Second Minor Course (20).*—Edgren's *Grammar*; Lanman's *Reader*, pp. 1-12.

## IV. COMPARATIVE PHILOLOGY.

*Major Course (60).*—Following college course in Greek and Latin, so much Sanskrit as is included in the Second Minor; Whitney's *Life and Growth of Language*; Delbrueck's *Einleitung in das Sprachstudium*; Brugmann's *Compendium der vergleichenden Sprachwissenschaft* (soon to appear).

*First Minor Course (40).*—Latin, Greek, and Sanskrit as above; Whitney's *Life and Growth of Language*; *Outlines of Brugmann's Compendium*.

## III. DEPARTMENT OF MODERN LANGUAGES.

## I. GERMANIC GROUP.

## ENGLISH.

*Complete Course (100).*—Grein's *Bibliothek des Angelsächsischen Poesie*, Vol. II., with Ten Brink's *Early English Literature*.

*Major Course (60).*—Genesis and Exodus, Sir Gawayne and the Green Knight, Lancelot of the Laik, Morte d'Arthure, Merlin, West Mid-Land Alliterative Poems, and Havelok the Dane (in *Early English Text Society's* publications).

*First Minor Course (40).*—Layamon's Brut, King Horn, The Ancren Riwe, The Minor Works of Chaucer.

*Second Minor Course (20).*—Robert of Gloucester's, and Peter Langtoft's *Chronicles*.

## GERMAN AND GOTHIC.

*Complete Course (100).*—*a. Modern German:* Scherer's *Geschichte der deutschen Literatur*; a careful study of some author or literary period; Schleicher's *Geschichte der deutschen Sprache*—*Old High German:* Braune's *Altdeutsches Lesebuch*.—*Gothic:* Stamm-Heine's *Ulfilas* (grammar and 40 pp. text).

*Major Course (60).*—Same as above, Gothic omitted, and less reading in old High German.

*First Minor Course (40).*—Same as Major Course, Old High German omitted.

*Second Minor Course (20).*—About 500 pages reading (from authors not studied in college); Schleicher's *Geschichte der deutschen Sprache*.

## II. ROMANCE GROUP.

*Complete Course (100).*—*a. French:* Demogeot's *Histoire de la littérature française*; Demogeot's *Textes classiques de la littérature française*; Brachet's *Historical French Grammar*; Bartsch's *Chrestomathie de l'ancien français* (text, pp. 3-58).—*b. Italian:* Cotterill's selections from Dante and Tasso.—*c. Spanish:* Knapp's *Spanish Readings*.—*d. Diez's Grammatik der Romanischen Sprachen* (in outline).

*Major Course (60).*—Same as above, with the exception of Spanish, and also of Bartsch and Diez.

*First Minor Course (40).*—Same as Major Course, Italian excepted.

*Second Minor Course (20).*—Herrig and Burguy's *La France littéraire*; Brachet's *Historical French Grammar*.

The courses marked out in this Department are those recommended to the candidate, but others, if deemed equivalent, will be accepted.

#### IV. DEPARTMENT OF MATHEMATICS, PHYSICS, AND CIVIL ENGINEERING.

#### V. DEPARTMENT OF BOTANY AND ZOOLOGY.

#### VI. DEPARTMENT OF CHEMISTRY, GEOLOGY, AND MIN- ERALOGY.

In these Departments no attempt has been made to differentiate courses according to the general plan above. The professors in charge will arrange and adapt suitable courses on application of candidates.



## THE LATIN SCHOOL.

In this school preparation is afforded for the Undergraduate Courses in the COLLEGE OF LITERATURE, SCIENCE, and THE ARTS, and also for those in the INDUSTRIAL COLLEGE.

The preparatory studies run through two years. Applicants for admission to the First Year will be examined in the following subjects:

*English Grammar.*

*Arithmetic.*—Fractions, denominate numbers, percentage and its applications, analysis, and proportion.

*Geography.*

*History of the United States.*

Applicants for admission to the Second Year (excepting those holding diplomas from the High Schools named below) will be examined in the several studies of the First Year, as enumerated hereafter. All candidates must attain a grade of sixty on the scale of one hundred, and no conditions will be allowed.

Examinations of candidates will be held at the University, commencing at 9 A.M., on Friday and Saturday after Commencement, June 15 and 16, 1888, and on Tuesday and Wednesday, Sept. 11 and 12, before the opening of the Fall Term. Attendance at the opening of the Examination is required in all cases.

### ADMISSION BY DIPLOMA.

Candidates holding diplomas from the High Schools of *Ashland, Columbus, Fairmont, Friend, Gibbon, Harvard, Hebron, McCook, North Loup, Ord, Red Cloud, Sutton, Tecumseh, Ulysses, and Wilber* will be admitted to the Second Year without examination.

There is but one course of study preparatory to all the College Courses. In the second year the student chooses between Greek and Science. The arrangement of the studies for the two years is as follows:

### FIRST YEAR.

#### FIRST TERM.

*Latin.*—Allen's New Latin Method. (Five hours.)

*Algebra.*—Olney's Elementary Algebra. (Five hours.)

*English.*—Ayres' Orthoepist; Practical Exercises in Vocal Expression; one Declamation delivered before the class. (Two hours.)

*History.*—Barnes's, Swinton's, or Myers' General History: Roman and Greek History. Library work from blackboard diagrams. (Three hours.)



## SECOND TERM.

*Latin*.—Allen's New Method, continued; Cæsar begun; Allen and Greenough's Grammar. (Five hours.)

*Algebra*.—Olney's University Algebra. (Five hours.)

*English*.—A. S. Hill's Rhetoric, Book I., begun; one Declamation delivered before the class. (Two hours.)

*History*.—Mediæval History. Library work, as first term. (Three hours.)

## THIRD TERM.

*Latin*.—Allen and Greenough's Grammar; Cæsar, twenty chapters. (Five hours.)

*Algebra*.—Olney's University Algebra. (Five hours.)

*English*.—A. S. Hill's Rhetoric, Book I., and Appendix, finished. (Two hours.)

*History*.—Modern History. Library work, as before. (Three hours.)

## SECOND YEAR.

## FIRST TERM.

*Latin*.—Cæsar, books III. and IV.; Allen's Latin Composition. (Five hours.)

*Algebra*.—Olney's University Algebra, finished; Wells's Geometry, begun. (Five hours.)

*English*.—One Essay, on an assigned subject; one Declamation.

*Greek*.—Allen's Hadley's Grammar; Harkness's First Greek Book (five hours); *or*

*Botany, Physics and Chemistry*.—The gross anatomy of the flowers, fruits, leaves, and roots of several plants; talks on Green Slime, Yeast-plant, Black Mould, Green Felt, and Grape Mildew (one hour); Balfour Stewart's Lessons in Elementary Physics: Mechanics and Sound (two hours); Remsen's Introduction to the Study of Chemistry, with exercises in chemical manipulation, and preparation of apparatus (two hours).

## SECOND TERM.

*Latin*.—Cicero, First and Second Orations against Catiline; Allen's Latin Composition. (Five hours.)

*Algebra*.—Wells's Geometry, continued through book V. (Five hours.)

*English*.—One Essay, on an assigned subject; one Declamation.

*Greek*.—Greek Grammar, and First Greek Book, continued; Anabasis begun (five hours); *or*

*Botany, Physics, Chemistry, and Drawing*.—The gross anatomy of stems and buds, and a study of the effects of low temperature on vegetation; talks on Seaweeds, Blights, Cup Fungi, Black Fungi, Rusts, and Smuts (one hour); Stewart's Lessons: Heat, Light, and Electricity (three hours); Remsen's Introduction to the Study of Chemistry, with exercises in chemical manipulation, and preparation of apparatus (one hour); Free-hand Drawing (one hour).

THIRD TERM.

*Latin*.—Cicero: Third and Fourth Orations against Catiline; Allen's Composition, through thirty lessons. (Five hours.)

*Mathematics*.—Wells's Geometry, through Book VII. (Five hours.)

*English*.—One Essay on an assigned subject; one Declamation. (All Essays this year are corrected by private appointment with the Instructor.)

*Greek*.—Greek Grammar; Anabasis continued through four chapters (five hours); *or*

*Botany, Drawing, and Chemistry*.—The structure, analysis, and identification of flowering plants (Gray's Lessons and Manual, and Coulter's Manual); and the preparation of a collection of one hundred plants in herbarium (two hours); Remsen's Introduction to Study of Chemistry, with exercises in chemical manipulation, as cutting, bending, and blowing glass, and setting up apparatus (two hours); Free-hand Drawing (one hour).

## SCHOOL OF THE FINE ARTS.

### ART.

In the studio under Miss Moore's direction, instruction will be given in drawing and painting from the flat, casts, still life, nature, and models in progressive order, the aim being to unfold the broad principles on which all sound systems of drawing and painting rest, train the eye to recognize these in every object placed before it, educate the taste, and make the hand the skilled servant of the eye. Pupils are required to provide easels and material; an ample selection of casts and studies are furnished in the studio.

The charge for daily lessons during 12 weeks is \$25.00, payable in advance.

Four lessons weekly .....\$21.00

Three lessons weekly..... 17.00

### CLASSES.

Tuesday .....from 2 till 5 P.M.

Wednesday..... " 9 " 12 A.M.

Thursday..... " 2 " 5 P.M.

Friday ..... " 9 " 12 A.M.

Saturday ..... " 9 " 12 A.M.

The Art History Class opens up a delightful subject hitherto strangely overlooked in our colleges and educational institutions, a knowledge of which, however, is now being recognized as an essential of culture. It is well known that Americans are the greatest travelers in the world, and are for the most part least fitted by their education to benefit by travel. A little preparatory study of the history of art and of art itself would convert the wearisome round of museums and galleries into the most eloquent and refining pleasure.

It is hoped that not only the art students, who of course have a natural interest in the subject, but the advanced University students in general and many residents of the city, will avail themselves of this opportunity to help in taking away from Americans the reproach of inappreciation and ignorance of art.

The course of lectures will cover a school year, and will deal consecutively with art development from the earliest times to the nineteenth century. It will be abundantly illustrated by photographs, engravings, casts, etc. The nucleus is already formed of an art library.

A class in Plastic Anatomy is taught during the Fall term. The text-book used is "Artistic Anatomy," by Mathias Duval, Professor at the Ecole des Beaux Arts, Paris. One morning of each week is appropriated to this study, the first hour being devoted to a discussion of the text and examination of the human skeleton. The two remaining hours are given to drawing from the new set of anatomical casts, secured for the studio from the New Orleans Exposition.

During the Spring term the study of Perspective will be substituted for that of Anatomy.

## MUSIC.

Music is more than an ornamental study, and those who would play or sing well must expect to give to its pursuit untiring and persevering labor. Plaidy, in his preface to the best work ever produced on Pianoforte Technique, says: "Many pianoforte players, professional as well as amateur, endeavor to escape a thorough study of their instrument with the excuse that it is not their object to become *virtuosi*. To this it may be replied that some fundamental study will by no means expose them to the danger of suddenly finding themselves *virtuosi*, and that before they reach that point they must first become simply *good players*. This should be the aim of every pianist, so far as circumstances will allow:—of the *professional*, otherwise he will be subject to the reproach of having lowered his art to the level of a mere ordinary occupation; of the *amateur*, for the fact that he studies only for his own pleasure gives him no right to regard his art merely as a pastime, or to perform a composition for his own amusement in a manner more or less mutilated." This may be said of organists and singers also.

### THE PIANOFORTE.

The following is an outline of the proposed course of instruction.

#### FIRST TWO YEARS.

*Lebert and Stark's* First and Second Books, *Plaidy's* Technical Studies—*Czerny, Kohler, Bertini, Loeschorn, and Heller* Studies.

#### THIRD YEAR.

*Lebert and Stark's* Third Book, *Cramer's* Studies, Sonatas, and other works of *Clementi, Mozart, Beethoven, and Mendelssohn*.

#### FOURTH YEAR.

*Moscheles, Kullak, Schuman, Rubenstein, Liszt, Chopin* Studies.

The most careful training practicable is given; particular attention is

paid to technique, style, phrasing, and to that which constitutes the chief power of the performer, expression.

The Conservatory or Class System is employed, or private lessons given at the option of the pupil.

#### THE ORGAN.

Lessons are given on the Pipe and Reed Organ, and, as in the Piano-forte department, are designed for the purpose of imparting a complete training. The technical works of *Best*, *Stainer*, *Rinck*, etc., and the compositions of *Bach*, *Mendelssohn*, *Merkel*, *Guilmant*, etc., are used.

#### THE VOICE.

There is no part of musical instruction more necessary than a correct and careful training of the voice. The vocal organs are so delicate that the greatest care is necessary in this work lest harm instead of good should result. The proper management of the breath, so often wanting and yet so necessary to the singer, must be learned. These details are cared for in the system employed here; and carefully selected exercises, scales (major, minor, and chromatic), and arpeggios are given in order to obtain flexibility of voice and a clear enunciation of words.

Classes in the rudiments of music will be formed, if a sufficient number desire it.

#### MUSICAL THEORY.

Harmony, Counterpoint, Fugue, Form, Instrumentation, Composition, etc., may be studied separately or in classes.

#### THE VIOLIN.

The best instruction upon this instrument is now given by a teacher trained at the Berlin and Leipzig Conservatories. Great care is taken to have the pupil attain correct position as a performer, on which the development of tone and technique so largely depends. The aim is to make the study simple and comprehensive, instead of difficult and discouraging; and the results thus far are most satisfactory.

Musical Soirees will be given during the year, in order that pupils may become accustomed to playing before the public and their friends.

#### TUITION IN MUSIC.

For a period of ten weeks—two lessons per week:

#### PIANO.

Private lessons, one hour.....	\$15 00
Private lessons, half hour .....	8 00
Classes of two pupils, each.....	7 50
Classes of four pupils, each.....	5 00

## VOICE CULTURE.

Private lessons, one hour.....	\$15 00
Private lessons, half hour .....	8 00

## THOROUGH BASS AND HARMONY.

Classes.....	\$7 50
Use of piano (one hour daily), per month .....	1 00

No deduction will be made for temporary absence from lessons, or for lessons discontinued, except in cases of protracted illness, deduction being made from date of notification to the instructor; but an opportunity will be given to make up the same at a subsequent term. Tuition is payable one-half in advance, and the balance at the middle of the term.

Pupils should enter the classes at the beginning of the term.

For further information, address Miss Cochran.

## GENERAL INFORMATION.

## THE UNIVERSITY AND THE PUBLIC SCHOOLS.

The University of Nebraska is the head of the public educational system of the State. It aims to continue and complete the work begun in the public schools, and secure to all an opportunity of liberal culture in literature and science, and in such technical and professional courses as shall from time to time be added. These advantages are offered to all *free of charge for tuition*, without regard to sex or race, or place of residence, on the sole condition of possessing the intellectual and moral qualifications requisite for admission to such an institution.

The present standard of admission to the undergraduate departments of the University is the Course of Study given in the Latin School (pages 77-79). Any High School or Academy, which has adopted and has in actual operation a course of study based upon this standard, may on proper application and inspection be accredited as a preparatory school of the University. The following schools have already entered into this relation:

## I. For the Major Course, preparing for the Freshman Class:

ALMA	P. P. BENTLEY, Principal	
BEATRICE	WILLIAM EBRIGHT, Superintendent	}
	LOU O. RAWLES, Principal	
EDGAR	MARION THRASHER, Supt. and Principal	
FREMONT	J. A. HORNBERGER, Supt. and Principal	
GRAND ISLAND	R. J. BARR, Superintendent	}
	E. E. COLE, Principal	
KEARNEY	M. ISABEL STEWART, Supt. and Principal	
LINCOLN	E. T. HARTLEY, Superintendent	}
	S. P. BARRETT, Principal	
NEBRASKA CITY	C. D. RAKESTRAW, Supt. and Principal	
PLATTSMOUTH	W. W. DRUMMOND, " "	
TEKAMAH	J. A. SMITH, " "	

## II. For the Minor Course, preparing for the second year of the Latin School:

ASHLAND	D. E. REESE,	Principal
COLUMBUS	W. B. BACKUS,	"
FAIRMONT	J. S. VAN EATON,	"
FRIEND	M. H. LOBDELL,	"
GIBBON	G. O. HIGLEY,	"



HARVARD	A. V. STORM,	Principal
HEBRON	A. J. MERCER,	"
MCCOOK	W. S. WEBSTER,	"
NORTH LOUP	M. B. C. TRUE,	"
ORD	S. S. GILLESPIE,	"
RED CLOUD	W. C. PICKING,	"
SUTTON	ALEXANDER STEPHENS,	"
TECUMSEH	W. H. GARDNER,	"
ULYSSES	W. A. PRINCE,	"
WILBER	C. G. PEARSE,	"

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### ORGANIZATION OF THE UNIVERSITY.

The University was chartered by an act of the Legislature, which took effect February 15, 1869, and authorized the establishment of five departments or colleges, as follows :

1. A College of Ancient and Modern Literature and the Natural Sciences, now called the College of Literature, Science, and the Arts.
2. An Industrial College, embracing Agriculture, Practical Science, Civil Engineering, and the Mechanic Arts.
3. A College of Medicine.
4. A College of Law.
5. A College of the Fine Arts.

The authority to establish these colleges was placed in the hands of a Board of Regents, to consist of the Governor of the State, the Superintendent of Public Instruction, and the Chancellor of the University, *ex-officio*, with nine members to be named by the Governor. The board thus constituted proceeded at once to organize Colleges 1 and 2. Of the other departments, the College of Medicine was opened in 1883, and suspended in 1887; the College of Law and the College of the Fine Arts are not yet organized.

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### LOCATION, BUILDINGS, ETC.

The act establishing the University located it at Lincoln, the capital of the state, prescribing that the several buildings should be erected within a radius of four miles from the State House. Accordingly the four blocks in the north part of the city, bounded by 10th and 12th, R and T streets, were selected as the site, and at the center of the campus, which contains about twelve acres, the first building was erected, in 1870. This, THE MAIN BUILDING, contains some twenty recitation rooms, in addition to the chapel, library, cabinets, society halls, etc.

THE CHEMICAL LABORATORY was opened for use in September, 1886. This building was planned after a careful study of the newest and best arranged laboratories of Europe and this country, and is equipped throughout with approved apparatus in the most thorough manner. The work rooms are convenient, commodious, well ventilated and lighted, and adapted to the study of Chemistry in all its branches. Each room has its ventilation hoods, steam and sand baths, drying ovens, filtering pumps, etc.; and each work table is supplied with a complete set of re-agents, gas, and running water. On the ground floor is a large general laboratory, in which eighty students can be provided with conveniences for work at the same time. Adjacent to this laboratory are rooms for storage of apparatus and chemicals, and for assaying, combustions, and distilling. On the second floor is the Qualitative Laboratory, accommodating thirty-two students at one time; a small lecture and class room; a special analytical laboratory; a room for analysis of gases; and the necessary store-rooms. On the third floor are the large lecture room, capable of seating two hundred and twenty-five students; a Quantitative Laboratory, with tables for twenty students; a library and balance rooms; a professor's study and laboratory; store and apparatus rooms. This laboratory is open to all students of the University, and also to all other persons who wish to pursue special studies therein, provided they comply with the conditions for the admission of special students. (See page 90.)

The INDUSTRIAL COLLEGE or GENERAL SCIENCE BUILDING, for the erection of which the last legislature appropriated \$50,000, will be ready for occupancy in January, 1889. This building will contain lecture rooms, laboratories, and museums for Agriculture, Horticulture, and Botany, Geology, and the Allied Sciences, with accommodations for Civil Engineering and the Mechanic Arts.

AN ARMORY AND GYMNASIUM, to be known as the GRANT MEMORIAL HALL, for which \$20,000 has been appropriated, will be ready for use by September, 1888. It will furnish full accommodations for the Military Department, and adequate facilities for Physical Culture.

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#### THE GOVERNING BOARD.

Since 1875, when some changes in the government of the institution took effect, the University has been controlled by a board of six Regents, each elected for six years. Two vacancies occur every two years, and are filled by direct vote of the people at the general election. The board elects biennially a president from its own number, and a secretary from without, who receives a salary. The office of Regent is without compensation.

The Board holds two regular meetings each year, the first beginning the last Tuesday of the Fall term, the second on Tuesday before Commencement.

#### ACADEMIC AND INDUSTRIAL COLLEGES.

The Faculty of Literature, Science, and the Arts now consists of the following chairs: Political Science (filled by the Chancellor); Philosophy (as yet unfilled), Mathematics, Greek, Latin, Chemistry and Physics, Geology and the Allied Sciences, Botany, Military Science and Tactics, Modern Languages, English, and History. The Industrial Faculty, in addition to the special chairs of Agriculture, Botany and Horticulture, and Civil Engineering, includes all the Academic chairs above named, with the exception of Greek and Latin.

The Chancellor is President of each Faculty, which has separate meetings to consider matters pertaining to its own college; and in the absence of the Chancellor each Faculty is presided over by a Dean appointed yearly by the Board of Regents. Each Faculty has also its own Secretary.

The four years of study are divided into gymnasial or disciplinary and University work. The most approved methods in use in this country and abroad are in operation here, and an examination of the course of study will show in detail the plan of work.

#### THE INDUSTRIAL COLLEGE.

This College of the University is designed to give prominence to "those branches of learning which are related to Agriculture and the Mechanic Arts," and thus to secure a firm foundation for those applications which find their place in the practical work of the farmer and the engineer. The student of this College must, on the one hand, acquaint himself with the problems which have to do with the life, growth, and reproduction of plants and animals, with the structure, origin, and composition of the soil, with the varying conditions of the air, and in general with the great forces of nature; or, on the other hand, he must become an adept in the knowledge and use of the higher mathematics, and have a full acquaintance with the laws of matter and force. Such a knowledge must be obtained by a study and investigation of the things themselves in the laboratory and the field. The student must have a *personal acquaintance* with the subject of his study. It is not enough that he should learn what others know about a plant, or an animal, the soil, the characteristics and strength of rocks and metals, etc., etc. He must be enabled by observing and study-

ing the thing itself to build up a mass of knowledge at first hand, for this alone will serve him when he comes to applying his knowledge to practical operations.

Two courses of study are offered, namely, the Civil Engineering and the Agricultural.

#### THE COURSE IN CIVIL ENGINEERING.

The course in Civil Engineering is based upon the preliminary training of the preparatory school and of the Freshman year of the Scientific Course. During the remaining years the work is mainly along three lines :

(*a.*)—The study of pure Mathematics, including Analytical Geometry, the Differential and Integral Calculus (with a glance at Differential Equations), and Analytical Statics.

(*b.*) Surveying and Leveling, Railroad Engineering, followed by a study of the Strength of Materials and the construction of Bridges and Roofs. In this part of the course the work of the class room is supplemented or replaced by work in the field. In the Senior year a line of railroad is surveyed and located, grade and slope stakes are set, and earth-work computations are made. In connection with the work on bridges some important bridge is studied in detail.

(*c.*) Graphics, Descriptive Geometry, Shades and Shadows, Linear Perspective and Stereotomy. The mathematical principles underlying any work in Drawing are steadily insisted upon.

The course as a whole is designed to give those who wish to become civil engineers such a knowledge of principles as shall enable them readily to acquire a command over the details of any department of the profession into which they may enter. The course is also adapted to the needs of those who desire the severe discipline of extended mathematical study.

#### THE AGRICULTURAL COURSE.

As scientific agriculture rests upon and is an outgrowth from the natural sciences ; the student in this course devotes much of his time in the earlier part of his College life to their mastery, and afterwards employs himself in a study of their applications. Thus Chemistry, Physics, Zoology, Botany, and Geology occupy prominent places in the curriculum, each one contributing to that mass of knowledge and practice which constitutes modern scientific agriculture. With these the student takes up such language studies as will enable him to use his own language properly, and to consult with ease the works of the best foreign authorities. In addition, provision is made for the study of History and Literature, in order that he may enrich and liberalize his mind by an acquaintance with the treasures of the past.

To the foregoing are added, in the Junior and Senior years, the special studies of the course, viz.: Agricultural Chemistry, Horticulture, Entomology, Agriculture, and Veterinary Science, thus combining and directing into a special channel the knowledge given by the previous lines of work.

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#### THE COLLEGE FARM.

The Industrial College possesses a fine farm of 320 acres of rolling up-land situated in the suburbs of the city. It is in a good state of cultivation, is divided by Osage Orange hedges and barbed wire fences into easily accessible fields. An excellent barn, and convenient outbuildings, together with a stone cottage and a wooden dormitory, constitute the present buildings. The farm is used for illustrative farm operations, and for the field work of the Experimental Station. It also furnishes remunerative employment to the students in the Agricultural Course. The office of the Superintendent of the Farm is in the dormitory building.

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#### THE AGRICULTURAL EXPERIMENT STATION.

The Agricultural Experiment Station of Nebraska has been formally established in accordance with the Act of Congress approved March 2, 1888, and several lines of experimentation and study have been inaugurated, including the following, viz.: 1. Popular and illustrative field experiments. 2. Observations upon soil temperatures. 3. Observations upon the water of the soil (lysimetry). 4. Experiments upon subterranean irrigation. 5. Continuous meteorological observations. 6. The study of the diseases of domestic animals. 7. The analysis of soils and waters. 8. The study of the problem of irrigation in various parts of the State. 9. The study of injurious insects. 10. The study of injurious fungi. 11. The study of the grasses and forage plants of the state.

The Industrial College Farm has been set apart for the field work of the Station, and rooms have been assigned in the building on the campus in the city for special work. A patho-biological laboratory has been fitted up with the instruments and utensils necessary for carrying on experimental work in the study of animal diseases, and in making investigations into the nature of the causes of those which are contagious or infectious.

The Station has two publications, viz., (1) The Annual Report, and (2) Bulletins. Of the former one (The First Annual Report) has been published, while of the latter three have appeared, viz.: No. I.—*Irrigation in Nebraska*; No. II.—*Twenty-two Common Insects of Nebraska*; and No. III.—*The Southern Cattle Plague (Texas Fever)*.



Inquiries respecting matters pertaining to the Station should be addressed to the Director of the Station, or to the individual members of the working staff.

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#### COLLEGES YET TO BE ORGANIZED.

The College of Law and the College of Fine Arts are not yet organized. In the latter, however, a beginning has been made, and superior instruction in Drawing, Painting, and the History of Art is now offered. In Music, also, the best instruction, both vocal and instrumental, is given. But for all instruction in Art and Music, until the formal opening in this college on the same basis with the other departments, students will pay the usual tuition charges.

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#### THE MILITARY DEPARTMENT.

The Act of Congress of July 2, 1862, donating lands, which have been accepted by the state as part of the endowment of this University, provides that instruction in Military Tactics shall be one of its leading objects.

This Department was accordingly established in 1876, and is at present under the charge of an officer detailed for the purpose by direction of the President of the United States.

All male students in the college classes, or having two studies therein, and not excused by the Chancellor, are required to drill six consecutive terms during their course. Students may take the required number of terms at any time during the Preparatory or College Courses.

Students are required to wear a uniform, consisting of regulation coat, cap, and gloves, with any dark (blue or black) pantaloons. Arms and equipments are furnished by the Government. Two 3-inch rifled cannon, with their equipments, etc., have recently been secured, and artillery drills begun.

A Cornet Band is maintained by the Cadets

In this Department there are required studies two hours per week throughout the Sophomore year, and elective studies throughout the Junior year.

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#### SPECIAL STUDENTS.

Persons over twenty-one years of age, not regularly admitted to the Freshman Class, are sometimes allowed by a vote of the Faculty to select all their studies from the College classes. Such students receive no degree, but are entitled to a certificate showing the studies pursued with credit.

Candidates for a degree, at the discretion of the Faculty, may take less than the prescribed number of hours each term, and thus extend their course over a greater number of years.

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### THE CABINETS.

For illustration in the sciences of Geology, Mineralogy, Palæontology, Botany, Ornithology, Entomology, and General Zoology there is an ample supply of materials. The cabinets of minerals and fossils are especially rich in the quality and quantity of their contents. An important addition has recently been made of specimens collected by Professor Hicks in Europe.

The University is happily situated for field work in Geology. It is built upon the Dakota group of the cretaceous period, which is richer in fossil leaves of angiospermous plants than any other geological formation. Within easy reach to the eastward, the whole series of Paleozoic rocks is exposed at the surface, while to the westward, within the boundaries of the state, the White River, Niobrara, and Loup Fork beds offer to the collector the most abundant treasures of mammalian fossils from the Tertiary period.

The University Herbarium contains upwards of 17,000 specimens, together with the collections belonging to the professor of Botany. There are available for the study of fungi about 8,000 specimens; algæ, 5,000; lichens, 1,000; hepaticæ, 900; musci, 1,000; pteridophytes, 450; phanerogams, 9,000. The standard reference books necessary for the study of the plants of all the primary divisions of the vegetable kingdom and the principal local floras of the world are kept in cases adjoining the Herbarium.

In the Botanical Cabinet there are many specimens of the woods of the world (that of Nordlinger containing 1,000 kinds), grains, grasses, and other plants of economic importance.

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### THE LIBRARY.

The University Library, with the additions of the year, will contain about 8,000 volumes, well selected and classified. The Reading Room is supplied with the best American and foreign magazines and periodicals. Both Library and Reading Room are open from nine to twelve o'clock, and from two to five o'clock each day. The Librarian or an assistant is in constant attendance to mark out courses of reading, and to guide students in their researches.

In addition to the general library resources, many of the departments have begun the collection of special libraries.



## LITERARY AND OTHER SOCIETIES.

There are three flourishing literary societies. The Palladian is the oldest, its origin having been nearly coincident with that of the University. The Union society was organized some two years later, while the Philodicean society dates from 1884. There are also two special societies (the Classical and the Scientific) composed of students interested in those lines of study and supplementing the regular College work. The Young Men's and Young Women's Christian Associations have each a branch in the University.

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## THE RESOURCES OF THE UNIVERSITY.

The revenues of the University are derived from three sources. Of these, the principal one at present is a tax of three-eighths of a mill upon each dollar of taxable property in the State. Next in importance is the revenue from land given to the University as an endowment by the United States. The whole amount given was 136,080 acres, and with proper management it ought to become the chief source of revenue. Matriculation fees form the third source of revenue, insignificant in amount as compared with other sources. The financial statements are published biennially, and the latest one accessible is for the two years ending with 1886. This shows an aggregate *biennial* income of \$155,709.85. Nearly three-fifths of this was yielded by the State tax, two-fifths was income from lands, and a small amount was from matriculation fees paid by students.

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## FEES AND EXPENSES.

The matriculation fee in all departments is \$5.

There are no other fees or charges except a diploma fee of \$5 at graduation. Students in the department of Chemistry are charged with the cost of material actually consumed.

Students usually live with private families, or board in clubs. Board in the latter can be had as low as \$2 a week; in families, from \$2.50 up; furnished rooms, at from \$3 to \$6 a month.

Students in the Agricultural Course may board and lodge on the Industrial College Farm, at an expense not exceeding \$2.75 per week. No rent is charged for the rooms (unfurnished). Such students may obtain remunerative employment in the fields, gardens, orchards, stables, or ornamental grounds at from fifteen to twenty-five cents per hour, dependent upon the quality of the work.

For catalogues, or information concerning the several departments, address the Chancellor.

UNIVERSITY REGISTER.

1869-1888.



## REGENTS OF THE UNIVERSITY.

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### PRESIDENTS OF THE BOARD.

1869	THE HON. DAVID BUTLER, <i>ex-officio</i> , Governor.....	1871
1871	THE HON. WILLIAM H. JAMES, <i>ex-officio</i> , Acting Gov....	1873
1873	THE HON. ROBERT W. FURNAS, <i>ex-officio</i> , Governor.....	1874
1874	THE HON. SILAS GARBER, <i>ex-officio</i> , Governor.....	1875
1876	HON. SAMUEL J. TUTTLE.....	1878
1879	HON. WILLIAM ADAIR.....	1881
1881	HON. CHARLES A. HOLMES.....	1883
1884	HON. CHARLES H. GERE.....	—

### SECRETARIES OF THE BOARD.

1869	AUGUSTUS F. HARVEY .....	1871
1871	REV. H. T. DAVIS.....	1875
1876	J. STUART DALES.....	—

### TREASURER OF THE BOARD.

1871	JOHN L. McCONNELL.....	1874
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### MEMBERS OF THE BOARD..

1869	DAVID BUTLER, <i>ex-officio</i> , Governor.....	1871
1869	SAMUEL D. BEALS, <i>ex-officio</i> , State Supt. of Public Instruction..	1871
1869	CHAMPION S. CHASE.....	1874
1869	WILLIAM B. DALE.....	1871
1869	REV. DAVID R. DUNGAN.....	1874
1869	JOHN C. ELLIOTT.....	1871
1869	ROBERT W. FURNAS.....	1873
1869	FYFIELD H. LONGLEY .....	1874
1869	REV. JOHN B. MAXFIELD.....	1874
1869	WILLIAM G. OLINGER .....	1873
1871	WILLIAM H. JAMES, <i>ex-officio</i> , Acting Governor.....	1873
1871	JOHN M. MCKENZIE, <i>ex-officio</i> , State Supt. of Public Instruction.	1875
1871	ALLEN R. BENTON, LL.D., <i>ex-officio</i> , Chancellor .....	1874
1871	URIAH BRUNER.....	1875
1871	J. D. McCANN.....	1873
1873	ROBERT W. FURNAS, <i>ex-officio</i> , Governor.....	1874
1873	WILLIAM ADAIR .....	1881

1873	W. D. SCOTT.....	1875
1873	JAMES W. SAVAGE.....	1875
1873	SILAS GARBER, <i>ex-officio</i> , Governor.....	1875
1874	BEN. H. BARROWS.....	1875
1874	ALEXANDER BEAR.....	1875
1874	E. M. HUNGERFORD.....	1875
1874	SAMUEL J. TUTTLE.....	1879
1876	CHARLES A. HOLMES.....	1883
1876	REV. LEBBEUS B. FIFIELD.....	1883
1876	J. W. GANNETT .....	1884
1876	SETH P. MOBLEY.....	1878
1878	NEWTON R. PERSINGER.....	1883
1880	JOHN L. CARSON.....	1883
1882	ISAAC POWERS, JR.....	1883
1882	H. C. MERRITT.....	1883
1882	CHARLES H. GERE.....	—
1883	JESSE M. HIATT .....	1887
1884	EDWARD P. HOLMES.....	1887
1884	MILTON J. HULL.....	—
1884	JOHN T. MALLALIEU .....	—
1884	LEAVITT BURNHAM.....	—
1888	BYRON B. DAVIS.....	—
1888	GEORGE ROBERTS.....	—

## THE FACULTY.

### CHANCELLORS.

1871	ALLEN R. BENTON, LL.D.....	1876
1876	EDMUND B. FAIRFIELD, S.T.D., LL.D.....	1882
1884	IRVING J. MANATT, PH.D., LL.D.....	—

### PROFESSORS AND INSTRUCTORS.

ALLEN R. BENTON, LL.D. (Bethany), CHANCELLOR.

1871	Professor of Intellectual and Moral Science .....	1876
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\*ORSAMUS C. DAKE, M.A. (Hamilton).

1871	Professor of English Literature .....	1875
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1873	Dean of Academic Faculty.....	1874
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SAMUEL H. MANLEY, M.A. (Ohio Wesleyan University).

1871	Professor of Ancient Languages.....	1876
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1872	Dean of Academic Faculty.....	1873
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SAMUEL R. THOMPSON, M.A. (Westminster, 1860).

1871	Professor of Agriculture and Dean of Industrial Faculty.....	1875
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1881	“ “ “ “ “ .....	1884
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SAMUEL AUGHEY, PH.D., LL.D. (Pennsylvania College, 1856).

1871	Professor of the Natural Sciences .....	1883
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1874	Dean of Academic Faculty.....	1875
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1879	“ “ “ .....	1881
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HENRY E. HITCHCOCK, PH.D. (Knox, 1846).

1872	Professor of Mathematics .....	—
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1876	Dean of Academic Faculty.....	1879
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1882	Acting Chancellor.....	1884
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GEORGE E. CHURCH, M.A. (Univ. of Mich., 1867).

1871	Principal of the Latin School.....	1875
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1875	Professor of Latin .....	1882
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GILBERT E. BAILEY, M.A. (Univ. of Chicago, 1872).

1874	Assistant Professor of the Natural Sciences .....	1878
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GEORGE McMILLAN, PH.D. (Oberlin, 1855).

1875	Professor of Greek.....	—
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1884	Dean of the Academic Faculty .....	1886
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EDMUND B. FAIRFIELD, S.T.D., LL.D. (Oberlin), CHANCELLOR.

1876	Professor of Philosophy and Economics.....	1882
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	*HIRAM COLLIER, M.A., LL.D.	
1876	Professor of Chemistry and Physics.....	1880
	EDGAR S. DUDLEY, 1st Lieut. 2d U. S. Artillery (West Point, 1870).	
1876	Professor of Military Science and Tactics.....	1879
1884	“ “ “ “ .....	—
	HARRINGTON EMERSON, M.A.	
1876	Professor of Modern Languages.....	1882
	GEORGE E. WOODBERRY, B.A. (Harvard, 1877).	
1877	Acting Professor of Rhetoric, English Literature, and History..	1878
1880	Professor of Anglo-Saxon and Rhetoric.....	1882
	HARVEY CULBERTSON, B.A.G., 1873; M.Sc. (Hanover, 1883).	
1878	Acting Professor of Agriculture and Farm Superintendent.....	1881
1881	Professor of Horticulture .....	1884
	*ISAAC T. WEBSTER, 1st Lieut. U. S. Army (West Point).	
1879	Professor of Military Science and Tactics .....	1882
	GEORGE E. HOWARD, M.A., 1876.	
1878	Tutor in English Literature and History .....	1880
1880	Professor of History.....	—
	ALONZO COLLIN, M.A.	
1880	Professor of Chemistry and Experimental Physics .....	1882
	GROVE E. BARBER, M.A. (Hiram, 1871).	
1882	Professor of the Latin Language and Literature .....	—
1886	Dean of the Academic Faculty .....	1887
	HUDSON H. NICHOLSON, M.A.	
1882	Professor of Chemistry and Physics.....	—
	LUCIUS A. SHERMAN, PH.D. (Yale, 1871).	
1882	Professor of English Literature .....	—
1887	Dean of the Academic Faculty .....	—
	FREDERICK W. GRUBE, M.A. (Univ. of Dublin, 1860).	
1882	Professor of Modern Languages .....	1884
	RICHARD H. TOWNLEY, Lieut. U. S. Navy (Annapolis).	
1882	Professor of Military Science and Tactics.....	1884
	ALBERT R. MITCHELL, M.D.	
1883	Professor of Anatomy and Dean of the Medical Faculty.....	1887
	PAUL GROSSMAN, M.D.	
1883	Professor of Surgery .....	1885
	HAMILTON B. LOWRY, M.A., M.D.	
1883	Professor of Physiology.....	1887



	WILLIAM M. KNAPP, M.D.	
1883	Professor of Obstetrics.....	1887
	HON. OLIVER P. MASON.	
1883	Professor of Medical Jurisprudence.....	1887
	LYNN B. GRADDY, M.D.	
1883	Professor of Diseases of the Eye and Ear.....	1887
	LAURESTON A. MERRIAM, M.D.	
1883	Professor of the Principles and Practice of Medicine .....	1887
	BARTLETT L. PAINE, M.D.	
1883	Professor of Theory and Practice of Medicine (Homœopathic)..	1887
	CLEMENT L. HART, M.D.	
1883	Professor of Materia Medica and Therapeutics (Homœopathic)	1887
	FREDERICK B. RIGHTER, M.D.	
1883	Professor of Obstetrics (Homœopathic).....	1887
	WILLIAM S. LATTÀ, M.D.	
1883	Professor of Theory and Practice of Medicine (Eclectic).....	1885
	JAMES H. WOODARD, M.D.	
1883	Professor of Materia Medica and Therapeutics (Eclectic) .....	1885
	IRA VAN CAMP, M.D.	
1883	Professor of Obstetrics (Eclectic) .....	1885
	IRVING J. MANATT, PH.D. (Yale); LL.D. (Iowa), CHANCELLOR.	
1884	Professor of Political Science.....	—
	LEWIS E. HICKS, PH.D. (Denison).	
1884	Professor of Geology and Allied Sciences.....	—
	CHARLES E. BESSEY, B.SC. (Mich. Agr., 1869); PH.D. (Univ. Iowa).	
1884	Professor of Botany and Horticulture, and Dean of the Industrial Faculty .....	—
1887	Director of the Agricultural Experiment Station.....	—
	ROBERT R. LIVINGSTON, M.D.	
1884	Professor of Theoretical Surgery.....	1885
	SAMUEL D. MERCER, M.D.	
1884	Professor of Clinical Surgery .....	1886
	AUGUST HJALMAR EDGREN, PH.D. (Cornell and Yale).	
1885	Professor of Modern Languages and Sanskrit .....	—
	ELLEN SMITH, M.A. (Hillsdale).	
1877	Instructor in Latin and Greek .....	1882
1882	Principal of the Latin School and Registrar .....	1884
1884	Registrar and Instructor in Mathematics .....	1886
1886	Registrar and Custodian of the Library.....	—

	CHARLES B. PALMER, M.A.	
1877	Tutor in the Latin School.....	1878
1878	Principal of the Latin School.....	1880
	CHARLES MARINE, B.A.	
1880	Principal of the Latin School.....	1881
	CHARLES N. LITTLE, M.A. (1879); PH.D. (Yale, 1885).	
1880	Tutor in Mathematics .....	1884
1885	Associate Professor of Civil Engineering .....	—
	LAWRENCE FOSSLER, B.A. (1881).	
1882	Tutor in Modern Languages .....	1882
	MRS. ADELAIDE DEARBORN.	
1880	Instructor in Elocution.....	1885
	MARGUERITE G. HITCHCOCK, B.A. (1885).	
1882	Instructor in Latin and Mathematics.....	1884
	LEVI M. F. EASTERDAY, M.A. (Univ. Illinois, 1863).	
1883	Instructor in Physics and Astronomy .....	1884
	HOWARD W. CALDWELL, B.Ph. (1880).	
1883	Instructor in History.....	1887
1887	Adjunct Professor of History.....	—
	BION H. CULVER, B.Sc. (1883).	
1883	Instructor in Modern Languages.....	1886
	NATHANIEL J. BEACHLY, M.D.	
1883	Demonstrator of Anatomy and Professor of Orthopedic Surgery..	1885
	ELIJAH M. WHITTEN, M.D.	
1883	Lecturer on Gynecology.....	1885
1886	Acting Professor of Surgery.....	1884
	CHARLES M. DINSMOOR, M.D.	
1883	Lecturer on Electro-Therapeutics .....	1885
	RICHARD CARSCADDEN, M.D.	
1883	Lecturer on Organic Diseases of the Chest .....	1885
	MILTON LANE, M.D.	
1884	Lecturer on Materia Medica .....	1885
	JOHN F. WAYMAN, M.A., M.D.	
1884	Lecturer on Physiology.....	1885
	E. B. GUILD, M.D.	
1884	Lecturer on Obstetrics.....	1885
	CHARLES E. BENNETT, B.A. (Brown, 1878).	
1884	Instructor in Latin and Greek .....	1885
1885	Principal of the Latin School.....	—

	SARAH W. MOORE (Vienna).	
1884	Lecturer on the History of Art .....	—
	HENRY H. WING, B.A.G. (Cornell, 1880).	
1884	Instructor in Agriculture.....	1887
1887	Adjunct Professor of Agriculture.....	—
	T. MOREY HODGMAN, B.A. (Rochester, 1884).	
1884	Instructor in Mathematics.....	—
	ERMINA D. COCHRAN, M.A. (Iowa College, 1873).	
1885	Instructor in Music.....	—
	PALIN SAXBY, MUS. DOC. (Dublin, 1883).	
1885	Instructor in Music.....	1885
	J. GILBERT WHITE, B.A. (Pa. State Coll., 1882); PH.D. (Cornell, 1885).	
1885	Instructor in Physics and Astronomy.....	1887
	STEPHEN L. GEISTHARDT, B.A. (Yale, 1883).	
1885	Instructor in Latin and French .....	1886
1886	Instructor in Modern Languages.....	1887
	EBENEZER W. HUNT, B.A. (Rochester).	
1887	Instructor in Rhetoric and Oratory .....	1887
1887	Adjunct Professor of Rhetoric and Oratory.....	—
	RACHEL LLOYD, PH.D. (Zurich).	
1887	Associate Professor of Analytical Chemistry.....	—
	DEWITT B. BRACE, B.A. (Boston); PH.D. (Berlin).	
1887	Instructor in Physics and Astronomy.....	—
	JOSEPH A. FONTAINE, PH.D. (J. H. U.)	
1887	Instructor in Romance Languages and Latin.....	—
	GUSTAV C. MENZENDORF (Leipzig).	
1888	Teacher of the Violin.	

## ALUMNI.

1872.

THE RT. REV. ROBERT H. CLARKSON, Bishop of Nebraska, LL.D.

1873.

JAMES STUART DALES, B.PH., M.PH., 1876.

Attorney at Law; Police Judge of Lincoln, 1877-82; Deputy Clerk  
District Court; since 1875 Secretary of the Board of Regents and,  
1885, Steward. Lincoln.

WILLIAM H. SNELL, B.PH., M.PH., 1876.

Attorney at Law; 1884-1888, State Senator.

Tacoma, Wash. Terr.

1874.

FRANK P. HURD, B.SC., M.SC., 1877.

Insurance Agent.

Omaha.

URIAH H. MALICK, B.SC., M.SC., 1887.

Physician and Druggist; President of Republican Valley Medical  
Association four years. Bloomington.

WALLACE MILES STEVENSON, B.SC., M.SC., 1877.

1874-75, teacher; 1875-84, farmer; 1884-86, Clerk of District Court  
of Otoe county. Unadilla.

1876.

HARVEY CULBERTSON, B.AG.

(B.SC., 1873; M.SC., 1883, Hanover); Professor of Horticulture,  
1881-84. San Diego, Cal.

ALICE MAY FROST (Mrs. Geo. E. Howard), B.PH.

1876-80, teacher; 1882-83, Graduate Student in Constitutional His-  
tory. Lincoln.

GEORGE ELLIOTTE HOWARD, B.A., M.A., 1879.

1876-78, Student in History and Roman Law at Munich and Paris;  
1879-80, Instructor in English Literature, Rhetoric, and History;  
1880-81, Professor of History and English; since 1881, Professor  
of History; Secretary State Historical Society, Lincoln.

\*JOHN F. E. MCKESSON, B.SC.

Died April 24, 1887.

CLARENCE WALTER RHODES, B.A.

LL.B., Columbia, 1878, licensed same year by New York Supreme Court as Attorney at Law; 1879 to present, printer.

Denver, Colorado.

1877.

CHARLES L. BRAINARD, B.AG.

Teacher, 1877-81; since 1881, Civil Engineer; County Surveyor, Polk county, Minn., 1883-84. Benkleman.

ALLEN W. FIELD, B.Sc., M.A., 1885.

Attorney at Law; 1883-84, Representative for Lancaster county; 1884-86, Speaker of the House of Representatives; City Attorney, 1887; Judge of the District Court, 1888. Lincoln.

FRANCIS MARION LAMBERTON, B.A.

1877-80, Teacher; Attorney at Law. Newport, Ark.

WILLIAM A. MCALLISTER, B.Sc.

1877-79, Student in Jurisprudence at Munich, Vienna, and Paris; Attorney at Law; 1883-84, Representative for Platte county; 1884-86, Senator for Platte county. Columbus.

1878.

WAYLAND BAILEY, B.A.

MARY A. CARTER, B.PH.

Lincoln.

EDWARD P. HOLMES, B.L.

Attorney at Law; Regent of the University, 1884-1888; Representative, 1884-86. Lincoln.

ALFRED COLES PLATT, B.A.

Attorney at Law. San Diego, California.

WELLINGTON PAYNE RHODES, B.A.

Teacher; 1884-85, Student of Theology. Evanston, Ill.

FLORENCE L. VAUGHN, B.L.

Chicago, Ill.

HENRY H. WILSON, B.PH., M.A., 1885.

Principal of Seward High School, 1878-80; contributed to *Popular Science Monthly*, March, 1881, "The State as an Educator;" March, 1884, "The Jury System;" 1881 to present, Attorney at Law.

Lincoln.

HON. ANDREW J. POPPLETON, LL.D.

Omaha.

1879.

ADA J. IKWIN (Mrs. H. M. Atkinson), B.L. Lincoln.

CHARLES NEWTON LITTLE, B.A.; M.A, 1884; PH.D., Yale, 1885.

Graduate Student at Yale College, 1879-80 and 1884-85; Instructor in Mathematics, 1880-84; Associate Professor of Civil Engineering, 1884-.

FREDERICK O. MORTON, B.L.  
Teacher.

\*JAMES O. STURDEVANT, B.L.  
Died, 1879.

CORA B. D. THOMAS, B.A.  
For two years teacher of Latin and History; Student of Art and History.  
Washington, D. C.

1880.

HOWARD WALTER CALDWELL, B.Ph.

1880-81, Principal of Geneva Schools; 1881-82, Principal of Lincoln High School; 1882-83, Graduate Student at Johns Hopkins Univ.; Instructor in History, 1883-87; Adjunct Professor, 1887-.

Lincoln.

SAMUEL DAVID COX, B.A.

Journalist; 1883-86, Reporter and City Editor *State Journal*; Newspaper Correspondent; Member of Lincoln Board of Education.

Lincoln.

WARREN LOREE, B.Sc.

Civil Engineer. Seattle, Washington Territory.

DAVID HENRY MERCER, B.L., LL.B., Univ. of Mich., 1882.

Attorney at Law, City Clerk, and Police Judge, Brownville; Sec. Repub. State Central Committee.

Omaha.

EMMA PARKS (Mrs. H. H. Wilson), B.Sc.

1882-83, Graduate Student in Constitutional History; for two years Teacher in Public Schools.

Lincoln.

CHARLES E. STRATTON, B.A.

1881-82, Principal of Ashland Schools; Law Student, Albany, N. Y., 1882-83; Attorney at Law.

Omaha.

HARRY K. WOLFE, B.A., PH.D., Leipzig, 1886.

For two years Teacher in High Schools; 1883-1886, Graduate Student in Philosophy at Berlin and Leipzig; author of "Untersuchungen ueber das Tougedaechtniss;" Teacher, 1887.

San Luis Obispo, Cal.

JAMES H. WORLEY, B.A.

Minister M. E. Church in Nebraska two years; Missionary; Principal of the Foochow Biblical Institute; President of the Foochow Annual Conference, 1886; Correspondent of *Central Christian Advocate* and *Gospel in all Lands*. Foochow, China.

PROF. C. D. WILBER, LL.D.

1881.

BENJAMIN J. ARNOLD, B.A.

Insurance. Omaha.

CORA A. BANTA (Mrs. S. G. Dorr), B.L. Lincoln.

JOHN BRIDENBAUGH, B.PH.

Attorney at Law and Real Estate Agent. Coleridge.

BERTHA C. HEBARD, B.L., M.A. (Wellesley, 1888).

Teacher City Schools; Graduate Student in History at Wellesley College, 1886-88. Lincoln.

LAWRENCE FOSSLER, B.SC.

1881-82, Student of Languages in Paris; Instructor in Modern Languages in the Lincoln High School. Lincoln.

ALBERT R. KEIM, B.A.

Instructor in Falls City High School (1882-83) and Principal (1884-85); Attorney at Law. Falls City.

FRANK PARKS, B.SC.

One year Assistant Engineer on Railroad; one year reading law, Lincoln; published in *Atlantic* for June, 1884, "Wentworth's Crime," a short story of Western life; Editor. Kansas.

ANNIE R. SHUCKMAN, B.SC.

Teacher in City Schools; Principal Q St. School, 1886. Lincoln.

JOHN H. SILVERNAIF, B.C.E.

1883-84, Civil Engineer, B. & M. R. R.; 1883-84, County Surveyor of Buffalo county; Teacher in State Industrial School.

Kearney.

MARY ADELL TREEMAN, B.SC.

Teacher in Lincoln High School; Graduate Student in History at Bryn Mawr, 1886-87; Graduate Student in American History, 1887-88. Lincoln.

EDWIN P. UNANGST, B.A.

One year, R. R. surveying in Utah; two, teaching in Nebraska and California; Student of Law in University of California; Attorney at Law, 1886. San Luis Obispo, California.



MINNIE T. WILLIAMS, B.A.

Died, 1881.

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PROF. GEORGE H. COLLIER, LL.D.

1882.

BYRON B. DAVIS, B.A.

M.D., 1884, Minnesota College Hospital; Resident Physician Minnesota College Hospital; Practitioner; Regent of the University.

McCook.

MAY B. FAIRFIELD (Mrs. A. W. Field), B.A.

Also B.A., Oberlin, 1883.

Lincoln.

EUGENE MONTGOMERY, B.A.

Attorney at Law.

Omaha.

HEBER WESLEY OLMSTED, B.A.

Law Student.

Washington, D. C.

NOVIA Z. SNELL, B.Sc.

Attorney at Law.

Lincoln.

RALPH A. WESTON, B.A.

Broker.

Alliance.

JACOB F. LAMER, B.A.G.

Farmer.

Dakota City.

---

HON. JAMES MONROE, LL.D.

1883.

JOSIE E. CHAPMAN (Mrs. Chas. T. Brown), B.Sc.

1883-84, Graduate Student of Literature.

Lincoln.

CHAMPION CLEMENT CHASE, B.A.

Six months following graduation, city editor Omaha *Daily Bee*;

1884-85, Private Secretary to Hon. Charles F. Manderson, U. S.

Senator from Nebraska; editor of Omaha *Excelsior*. Omaha.

MINNIE E. CODDING (Mrs. Chas. E. Stratton), B.Sc.

Teacher in the Lincoln Public Schools (1883-84).

Omaha.

BION HENRY CULVER, B.Sc.

Instructor in German, 1883-86; Principal of the Rulo Schools,

1886-87; Graduate Student in Modern Languages, 1888.

Munich, Germany.

AMOS WILLIAM FOOTE, B.Sc., B.Ag.

Principal (1883-84) of Rulo, (1885-86) of Pierce, and (1886-87) of Waverly Schools; (1888) Employe B. & M. R. R. Lincoln.

GEORGE GALE HITCHCOCK, B.A.

1883-84, Journalist; 1884-85, Graduate Student at Johns Hopkins University; Professor of Greek in Pierre University.

Pierre, Dakota Ter.

SAMUEL V. MALLORY, B.Ag.

Jewell City, Kansas.

CHARLES ALBERT PIERCE, B.C.E.

Civil Engineer, 1884; Banker.

Bennet.

EDSON P. RICH, B.L.

Student in Political Economy at Johns Hopkins University, 1883-84;

Attorney at Law.

Lincoln.

ALANSON O. TAYLOR, B.Ag.

Farmer; Graduate Student in Agriculture, 1884-85.

Lincoln.

WILLIAM ANDREW TRIS, B.A.

Attorney at Law.

Kansas.

DANIEL H. WHEELER, JR., B.L.

Real Estate and Insurance Agent.

Omaha.

ALVIN L. WHITE, B.A., B.C.E., 1884.

Civil Engineer.

Omaha.

HON. CHAMPION S. CHASE, LL.D.

Omaha.

1884.

ANNIE D. ALDRICH, B.Sc.

Teacher.

Chicago, Ill.

GEORGE WASHINGTON BOTSFORD, B.A.

1884-85, Graduate Student in Greek and Sanskrit at Johns Hopkins University; Instructor in St. Charles College, 1885-86; in DeLand University, 1886-87; Professor of Greek in Kalamazoo College.

Kalamazoo, Mich.

FLORA EVELYN FROST (Mrs. N. Z. Snell), B.Sc.

Lincoln.

JESSE HERMAN HOLMES, B.Sc.

Graduate Student in Chemistry at Johns Hopkins University, 1885-86; Instructor in Chemistry, 1886-.

Washington, D. C.

WILLIAM HENRY LICHTY, B.A.

Graduate Student in History and Political Science at Johns Hopkins University, 1884-85.

Hastings.

ELLIS OSCAR LEWIS, B.C.E.	
Principal Stella Schools, 1886.	Falls City.
ROBERT LUVERNE MARSH, B.A.	
Student at Yale Theological Seminary.	New Haven, Conn.
ALEXANDER A. MUNRO, B.A.	
Principal of the Public Schools.	South Omaha.
HERBERT WATSON OLMSTED, B.Sc.	
Attorney at Law.	Washington, D. C.
CLARA PARKS (Mrs. B. F. Johnson), B.L.	
Teacher in the Lincoln City Schools, 1884-85.	Lincoln.
EDWARD JAMES ROBINSON, B.C.E.	
Surveyor with B. & M. R. R., 1884-88; Civil Engineer and Surveyor, 1888.	Lincoln.
WILLIAM PARRIS SULLIVAN, B.L.	
Principal of Table Rock Schools, 1886-7.	Kansas.
ALVIN L. WHITE, B.C.E.	Lincoln.
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PROF. E. BENJAMIN ANDREWS, LL.D.	Providence, R. I.
<hr/>	
CHARLES SUMNER BOGGS, M.D.	
Practitioner.	
WILLIAM ROBERT KNAPP, M.D.	
Practitioner.	St. Paul.
KAVORK M. KRECORIAN, M.D.	
Practitioner.	
NORMAN A. SACKETT, M.D.	
Practitioner.	Ewing.
JOHN M. ZIELIE, M.D.	
Practitioner.	Dorchester.
WILLIAM R. BOLDING, M.D.	
Practitioner.	Dorchester.
EUGENE D. THURSTON, M.D.	
Practitioner.	Ord.
1885.	
EDMUND JOHN CHURCHILL, B.A.	
Attorney at Law.	Cheyenne, Wyoming Ter.
HAMLIN CHARLES EDDY, B.L.	
Attorney at Law.	Lincoln.

MARGUERITE GALE HITCHCOCK (Mrs. Chas. E. Bennett), B.A.

Instructor in Latin and Mathematics, 1882-84.

Lincoln.

MARY LETITIA JONES, B.L.

Teacher in the Hastings High School.

Hastings.

CONWAY GEORGE McMILLAN, B.A., M.A.

Graduate Student of Natural Science, and Assistant in Geology, 1885-86; Student of Biology at Johns Hopkins University, 1886-87; Entomologist of the Agricultural Experiment Station, and author of its second bulletin, "Twenty-two Common Insects of Nebraska;" Instructor in Botany in the University of Minnesota.

Minneapolis, Minn.

AMOS GRISWOLD WARNER, B.L.; PH.D., J. H. U., 1888.

Graduate Student of Political Science and History at Johns Hopkins University (1885-87); Author of "LePlay's Studies in Social Phenomena" (*Popular Science Monthly*, Oct., 1886), and "Three Phases of Co-operation in the West," Johns Hopkins University Studies, 1887; "Sketches from Territorial History," in Second Annual Report of Nebraska Historical Society; Secretary of the Baltimore Board of Charities.

Baltimore, Md.

GEORGIA ANNA ARBUCKLE, M.D.

Omaha.

DAVID REESE BELL, M.D.

ANDREW BENNIE, M.D.

WILLIS ENOCH BUCK, M.D.

MARY CAROLINE CASE, M.D.

HERSCHEL BENONI CUMMINS, M.D.

EMMA JANE DAVIES, M.D.

Nebraska City.

MORTIMER HOWARD FARMER, M.D.

MARY ANNE HOWARD, M.D.

ORIN EVERETT MULVANE, M.D.

ERNEST OTTO SVENSON, M.D.

CHARLES TRUMBULL, M.D.

JAMES ALBERTUS VAN CAMP, M.D.

1886.

CHARLES SUMNER ALLEN, B.A.

Attorney at Law.

Valparaiso.

- MARY RANDOLPH CAMPBELL, B.L.  
Instructor in Pierre University. Pierre, D. T.
- CORA ELLEN FISHER, B.L.  
Teacher. Lincoln.
- JAMES ROBERT FOREE, B.A.  
Real Estate and Insurance. Tekamah.
- GEORGE BELL FRANKFORTER, B.Sc.  
Graduate Student and Assistant in Chemical Laboratory. Lincoln.
- ABRAHAM LINCOLN FROST, B.L.  
Graduate Student in History and Political Economy at Johns Hopkins University, 1886-87; Law Student. Lincoln.
- NORA ELIZA GAGE, B.A.  
Assistant in Hebron High School (1886-87); Instructor in Fairfield College. Fairfield.
- KATHLEEN GEORGIANA HEARN, B.A.  
Teacher in High School. Hebron.
- WILLIAM OWEN JONES, B.L.  
City Editor of *State Journal*. Lincoln.
- WILBUR CLINTON KNIGHT, B.Sc.  
Assayer and Mineralogist. Cheyenne, Wyo. T.
- SOPHIA MYERS, B.L. (Mrs. Byron B. Davis).  
Teacher in Beatrice Schools, 1886-87. McCook.
- 
- CHARLES BALDWIN, M.D.
- THOMAS CLAY CANINE, M.D.
- JENNINGS COFFMAN, M.D.
- BENJAMIN FRANKLIN GAY, M.D. Pierce.
- SARAH BURCH GREENE, M.D.
- WILLIAM NATHANIEL HYLTON, M.D.
- DON FRANK MORRIS, M.D.
- FREDERIC WILLIAM VOOS, M.D. Nebraska City.
- JESSE JAMES CAMPBELL, M.D.
- OREN BRANCH HUGG, M. D.
- MARY ALICE LUTZ, M.D. Lincoln.
- CHARLES ALONZO SHOEMAKER, M.D.  
Coroner of Lancaster County. Lincoln.

1887.

ANSON HARDIN BIGELOW, B.Sc.	
Editor <i>Greeley News</i> .	Greeley.
LUKE HENRY CHENEY, B.A.	
Law Student.	Ann Arbor, Mich.
PAUL FENIMORE CLARK, B.L.	
Law Student.	Lincoln.
SARAH KYLE DALEY, B.L.	
City Librarian.	Lincoln.
EVERETT HENRY EDDY, B.L.	
Medical Student.	Chicago, Ill.
ETON FULMER, B.Sc.	
Mining Assayer.	Bear City, Arkanas.
EDMUND DUDLEY HOWE, B.C.E.	
Surveyor.	Table Rock.
CLARK SUMNER KATHAN, B.A.	
Graduate Student at Syracuse University.	Syracuse, N. Y.
SAMUEL DICKSON KILLEN, B.L.	
Law Student.	Ann Arbor, Mich.
WILLIAM SPENCER PERRIN, B.L.	
Editor <i>Alliance Argus</i> .	Alliance.
CAREY SIGEL POLK, B.L.	
Law Student.	Plattsmouth.
LAURA MELLE ROBERTS, B.A.	
Teacher in the Lincoln Schools.	Lincoln.
DEAN TYLER SMITH, B.Sc.	
Medical Student.	Chicago, Ill.
ADELLA EUGENIA STRATTON, B.L.	
Teacher in the Ashland Schools.	Ashland.
EDWIN CHARLES WIGGENHORN, B.L.	
Law Student.	Lincoln.
<hr/>	
EDWARD FRANCIS DODD, M.D.	
MAHLON ASHBROOK KELSO, M.D.	
DWIGHT SHUMWAY MOORE, M.D.	
JOSEPH SYLVESTER EATON, M.D.	
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H. W. CALDWELL	'80	Lincoln.
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C. G. McMILLAN	'85	Minneapolis, Minn.
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C. A. PIERCE	'83.		



ERRATA.

Pages 35 and 57: omit *Zoology* from the list of required subjects.

Pages 27 and 33: *Read* Music Students, 78 (six names having been omitted in the enrollment on pp. 26-27).

Page 33: *Read* Total of unrepeatd names . . . 412.

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