

THE UNIVERSITY OF MINNESOTA,
MINNEAPOLIS, MINN., Sept. 1, 1886.

To the Hon. D. L. Kiehle, State Superintendent of Public Instruction:

SIR: I have the honor to transmit herewith the fourth biennial report (No. 15 of the series), of the condition and progress of the University for the years 1884-85, and 1885-86.

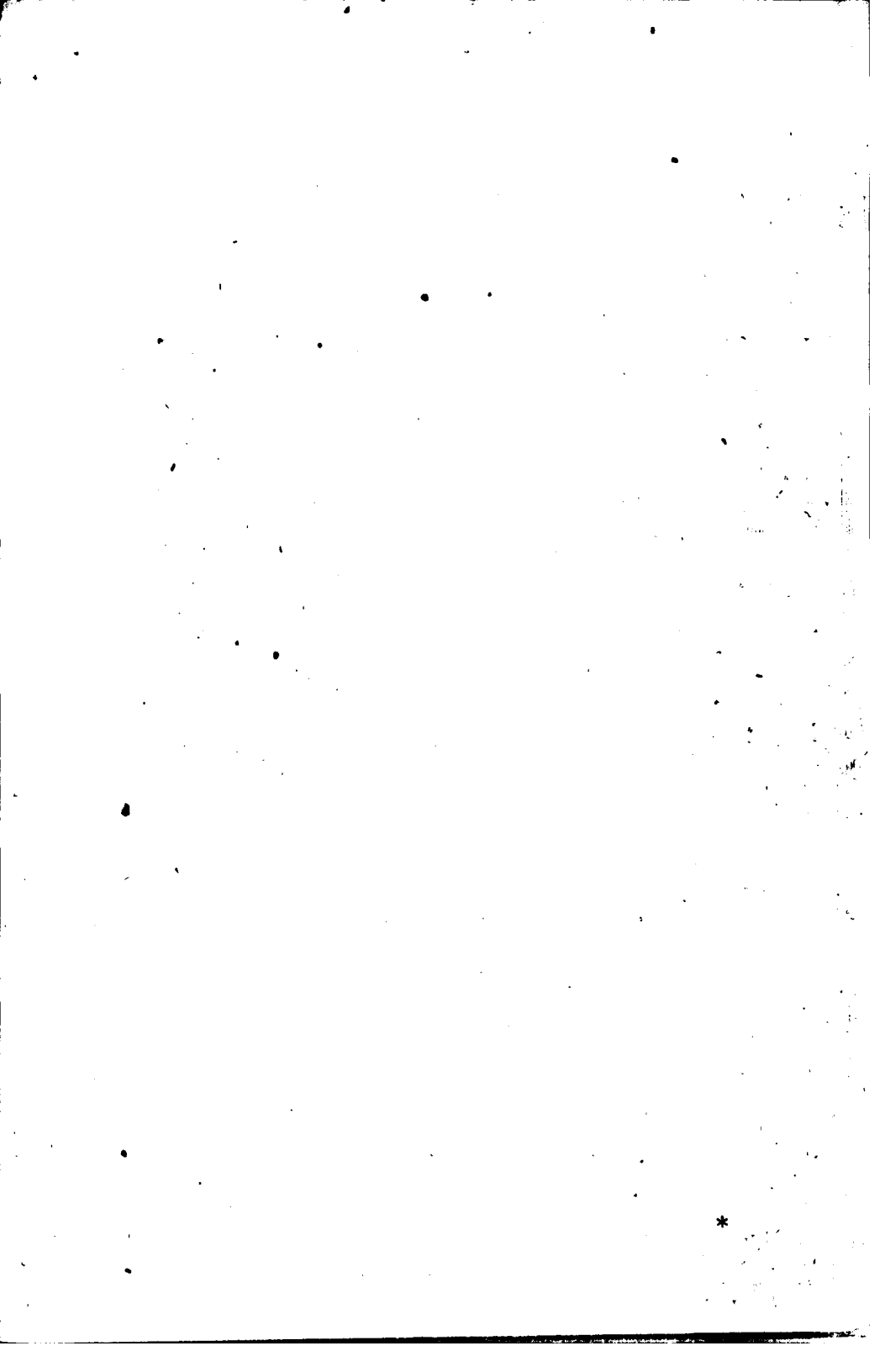
Very respectfully,

Your obedient servant,

CYRUS NORTHROP,

President.

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REPORT
OF THE
UNIVERSITY OF MINNESOTA.

To the State Superintendent of Public Instruction:

During the two years which have passed since I became president of the University of Minnesota, the university has enjoyed a good degree of prosperity, as evinced by the increasing number of its students; its enlarged force of teachers, the additions to its library and apparatus, the erection of a commodious building for the college of mechanic arts, and the physical laboratory; the reorganization of the college of agriculture; the organization and successful working of a graduate department, and the spirit and zeal of instructors and students in every department of the institution.

While thus the internal evidences of prosperity are very satisfactory, it is not less gratifying to observe the manifestations of good will towards the institution on the part of the people of the State, especially as shown in the closer relations between the high schools and the university — relations which seem to realize the hope of my predecessor, as expressed in his last biennial report, "that at no distant day, the high schools of the State may form a broad and direct avenue from the common schools to the university." The action of the board of regents, in authorizing the admission to the freshman class in the university of all students who present diplomas as graduates of first-class high schools, cannot fail to strengthen these relations and to be most salutary in its results, both to the university and the high schools, and thus to do much towards accomplishing the purpose of the State in establishing its system of public education, and in providing for the higher education in the university as a part of that system.

CHANGES IN THE BOARD OF REGENTS AND THE FACULTY.

Since the last biennial report no change has occurred in the membership of the board of regents, except that occasioned by a change in the presidency of the university. In the faculty a number of changes have occurred—none of them, however, involving the removal of any professor—and some, happily, caused by the enlargement of the courses of study. Mr. C. L. Herriek, instructor in zoology, having been appointed professor in another institution, declined a reappointment in the university and was succeeded by Henry F. Nachtrieb, B. S., as assistant professor of biology.

Prof O. J. Breda, who had been elected professor of the Scandinavian languages and literatures while in Europe, but who had not entered upon his duties at the time of the last report, has been on duty during the last two years, teaching Latin the first year and German and the Scandinavian languages the second year. His work is of growing importance and will soon require that all his time be given to his own department.

Prof. George E. MacLean, Ph. D., who was an instructor in English literature during the last term of 1883-84, was soon after elected professor of English literature, and entered upon the duties of the office at the opening of the university year 1884-85.

History, until the third term of 1884-85, under the care of the instructor in mental and moral philosophy, was at that time made a separate department, and Harry Pratt Judson, B. A., was elected professor. He entered upon the duties of his office at the opening of the year 1885-86, and has taught during the year, dividing his time between Latin and history. For the future his whole attention will be given to history and to pedagogics. In the latter subject Professor Judson gave a course of lectures to the senior class the past year, and he will give an enlarged course in the same subject to successive classes.

During the year 1885-86 Fred. S. Jones, B. A., has been the instructor in physics, a subject heretofore under the care of the professor of engineering.

John H. Barr, B. M. E., has been instructor in mechanical engineering during the past year, having succeeded Mr. Wilbur F. Decker, B. M. E., who declined a reappointment, and Mr. William R. Hoag, B. C. E., has been an instructor in civil engineering during the same, time having succeeded Mr. W. F. Carr, who was instructor in civil engineering during the year 1884-85,

and who succeeded Henry M. Waitt, B. S., on duty the preceding year.

Prof. John S. Clarke, B. A., for some years assistant professor of Latin, was elected, in the third term of 1885-86, professor of Latin, and placed in charge of the department, Professor Brooks, for several years past in charge of the Latin department, being relieved of the same.

Prof. John C. Hutchinson, B. A., for some years assistant professor of Greek and mathematics, was, in the third term of 1885-86, elected professor of Greek and mathematics, with the title of associate professor of Greek and mathematics. By these changes in the faculty, three graduates of the university, two graduates of Williams College, and one graduate of Yale College, have been added to the faculty, and two graduates of the university have been advanced to full professorships. It gives me great pleasure to say that all the gentlemen who have been added to the faculty since the last report have proved themselves to be most capable instructors, and they have all been very helpful to me in my work.

6. Degrees Conferred.

Since the last report, degrees have been conferred as follows:

	1885	1889
Bachelors of arts.....	3	6
Bachelors of science.....	3	6
Bachelors of literature.....	6	6
Bachelors of civil engineering.....	2	
Bachelor of mechanical engineering.....	1	
Bachelor of architecture.....		1
Bachelor of agriculture.....	1	
Bachelors of medicine.....	2	3
Master of science.....	1	
	<hr/>	<hr/>
	19	22

The names and residences of these graduates are given in appendix "A."

The following table shows the number and kinds of degrees which have been conferred by this university:

	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	Total.	
B. A.	2	1	3	3	9	5	8	4	10	11	8	9	3	6	82
B. S.		1	2	5	3	8	10	9	10	9	7	9	3	6	82
B. L.			1		4	1	6	4	7	11	7	3	6	6	66
B. C. E.			3	3			2				2	3	2		15
B. M. E.						1					1		1		3
B. Arch.					1									1	2
B. A.										1			1		2
M. A.								1	1						2
M. S.										1			1		2
En. M.												2	2	3	7
Totals.	2	2	9	11	17	15	26	18	28	33	25	26	19	22	253

The whole number of persons graduated is two hundred and forty-three (243), five persons having received degrees, both in science and in engineering, one person having received a degree, both in arts and in science, and four bachelors having received a master's degree, after passing the required examinations. No honorary degrees are conferred by this university.

The whole number of women who have been graduated is seventy-two, viz.: bachelors of arts, 13; of science, 20; of literature, 40; one person having received a degree both in arts and in literature. The work done by the women to secure their degrees is the same as that done by the men who graduate. I am happy to say that, after two years' experience here of "the co-education of the sexes," I know of nothing to make me regret the presence here of both ladies and gentlemen as students.

ATTENDANCE.

The number of students in attendance in the year 1884-85 was slightly greater than the number in attendance in the year 1883-84. The number in attendance in the year 1885-86 was nearly one hundred greater than the number in attendance in the preceding year. But, unfortunately, the students whose names appear on our registry are not all present and at work during the entire year. It was to me a matter of no little sur-

prise and disappointment to find at the end of my first week in office, September, 1884, that only one hundred and twenty students had registered, while the calendar of the university showed that two hundred and seventy-eight had registered during the preceding year. Accustomed, as I had been, to have all the students of a college report for work on the first day of the collegiate year, I could not understand why there should be considerably less than half of the apparent student body present and at work when the first week ended. I soon learned, however, that in this particular of regularity in attendance from the opening of the year to the end, the students in the West differ widely from those in the East, and that to a considerable extent the failure of students in the West to report for work on the first day of the term was supposed to be due to the necessity of their earning at least a part of their own living, and therefore of conforming their engagements for study to the requirements of their business engagements. So far as irregularity in attendance is a necessity, it is proper for the authorities of the university to allow it, but it should be clearly recognized by all concerned that any considerable degree of irregularity—especially the entrance of many students after the term has been some weeks in progress—is a very great injury, not merely to those who enter late, but also to those who are regular and prompt in attendance. I am happy to say that the promptness in registering at the opening of the year, and the regularity in attendance, were much greater in 1885-86 than in the previous year. I believe that, hereafter, students will understand that when the university announces a day on which to begin work, work will be begun on that day; and that it is reasonable for the student to conform to the requirements of the university rather than for the university to conform to the requirements of every student. The university is a State institution, and its policy in all respects should be liberal so as to meet the real wants of the people. But its policy must not be so liberal as to destroy the university or to convert it into an educational camp meeting, to which all may go when they please and in what way they please.

For the enrollment and classification of students during the two years covered by this report, 1884-85 and 1885-86, see appendix "B."

ADMISSIONS.

The record of admissions to the university is as follows:

PUBLIC INSTRUCTION.

RECORD FOR 1884-85.

	Gentlemen.	Ladies.	Total.
Examined.....	96	53	149
Admitted.....	49	24	73
Rejected.....	47	29	76

RECORD FOR 1885-86.

	Gentlemen.	Ladies.	Total.
Examined.....	136	57	193
Admitted.....	108	35	143
Rejected.....	28	22	50

The number of high school board certificates presented at the university during the year 1884-85 was one hundred and sixty-one, and during the year 1885-86, three hundred and thirty-nine.

The different towns represented by the candidates presenting the certificates in 1884-85, and in 1885-86, the number of certificates from each town, the subjects, and the number of candidates presenting certificates, are shown in appendix "C."

CYRUS NORTHROP,

President.

APPENDIX "A."

At the thirteenth annual commencement, held June 12, 1885, the following persons received degrees:

COLLEGE OF SCIENCE, LITERATURE AND ARTS.

For Bachelor of Arts.

Mary Lathrop Benton.....	Minneapolis.
Samuel Lolfest Langland.....	Cedarville.
Charles William Moulton.....	Cleveland, O.

For Bachelor of Science.

James Gray.....	Minneapolis.
Cassius Marcius Locke.....	Minneapolis.
Curtis Langdon Greenwood.....	Rochester.

For Master of Science.

Clarence Luther Herrick, B. S., 1880.....	Minneapolis.
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For Bachelor of Literature.

Howard Strickland Abbott.....	Rockford.
Albert Melancthon Baldwin.....	Tower City, D. T.
Bertha Minnie Brown.....	Richfield.
Mary Eliza Irving.....	Owatonna.
Ida Victoria Mann.....	Minneapolis.
Mary Lorain Smith.....	Le Sueur.

COLLEGE OF MECHANIC ARTS.

For Bachelor of Mechanical Engineering.

Elbert Ellsworth Bushnell.....	Minneapolis.
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For Bachelor of Civil Engineering.

Patrick Thomas Fitzgerald.....	Donnelly.
Albert Irving Reed.....	Hastings.

COLLEGE OF AGRICULTURE.

For Bachelor of Agriculture.

Thomas Ezekiel Wurrell..... Champlin.

COLLEGE OF MEDICINE.

For Bachelors of Medicine.

Karl Henry E. Castle..... St. Paul.

William Byther Pineo..... Minneapolis.

At the fourteenth annual commencement, held June 3, 1886,
the following persons received degrees:

COLLEGE OF SCIENCE, LITERATURE AND ARTS.

For Bachelors of Arts.

John Williams Adams..... Lake City.

Henry James Grannis..... High Forest.

James C. E. King..... Otsego.

Elizabeth Quincy Sewall..... St. Paul.

William Franklin Webster..... Clearwater.

Ida Victoria Mann, B. S., 1885..... Minneapolis.

For Bachelors of Science.

John William Bennett..... Montrose.

Fremont Crane..... Mapleton.

Mary Whitmore Elwell..... Minneapolis.

Frank Amos Johnson..... Marshall.

Joseph Kennedy..... Oshawa.

Lillian Lincoln Ware..... Brownsdale.

For Bachelors of Literature.

Jennie May Amy..... Minneapolis.

Leo Melville Crafts..... Minneapolis.

Ada May Kiehle..... Minneapolis.

Maud Julia Lyall..... Minneapolis.

Josephine Florence Marrs..... Minneapolis.

May Alden Powell..... Minneapolis.

For Bachelor of Architecture.

Charles Comstock Woodmansee..... Minneapolis.

For Bachelors of Medicine.

William C. E. Van Danum..... Minneapolis.

A. W. Brunnell..... Minneapolis.

James J. O'Reiley..... Olga, Dakota.

APPENDIX "B."

The following tables exhibit the enrollment and classification of the students:

SUMMARY, 1884-85.

COLLEGE OR DEPARTMENT.	CLASS.	Gentlemen.	Ladies.	Totals.	
Graduate Students.....		9	8	17	
College of Science, Literature, and Arts.....	Senior.....	5	4	9	
	Junior.....	11	9	20-29	
Mechanic Arts.....	Senior.....	3		3	
	Special.....	4		4	
	Artisans' Training School.	A.....	4		4
		B.....	2		2
		C.....	12		12
D.....		50		50-75	
Agriculture.....	Junior.....	1		1	
Collegiate Department.....	Sophomore.....	26		26	
	Freshman.....	31	15	47	
	Subfreshman.....	34	20	54	
	Special.....	35	22	57-155	
Totals.....		227	83	310	

SUMMARY, 1885-86.

DEPARTMENT.	CLASS.	Gentlemen.	Ladies.	Totals.	
Graduate Students.....		19	6	25	
College of Science, Literature and Arts.....	Senior.....	9	8	17	
	Junior.....	20	1	27-44	
College of Mechanic Arts.....	Senior.....	1		1	
	Junior.....	1		2	
	Sophomore.....	30	9	39	
	Freshman.....	30	17	47	
	Subfreshman.....	88	30	118	
	Special.....	33	17	50-249	
	Artisans' A.....	A.....	4		4
		B.....	1		1
C.....		17		17	
D.....		64		64	
Totals.....		318	88	406	

Of the whole number of students in the year 1884-85 all but twenty-nine were enrolled as residents of Minnesota; and in the year 1885-86 all but thirty. Some of those who are enrolled as residents of Minneapolis are residents only for the purpose of gaining an education, their families residing in the city temporarily for the education of the children.

PUBLIC INSTRUCTION.

The number of students in the regular classes of the university, in the various courses, during the two years covered by this report, was as follows:

1884-85.

	Classical.	Scientific.	Modern or Literary.	Total.
Senior.....	8	4	5	12
Junior.....	5	5	6	16
Sophomore.....	8	17	5	30
Freshman.....	11	19	17	47
Sub-Freshman.....	8	29	17	54
Total.....				159
To which should be added two Seniors in Civil Engineering, one Senior in Mechanical Engineering, one Senior in Agriculture and one Junior in Architecture.....				5
Total.....				164

1885-86.

Senior.....	5	6	6	17
Junior.....	7	15	5	27
Sophomore.....	8	19	12	39
Freshman.....	9	24	14	47
Subfreshman.....	14	69	30	113
To which should be added one Senior in Architecture and one Junior in Civil Engineering.....				2
Total.....				245

APPENDIX "O."

The following statement shows the towns from which came candidates for admission to the university, who presented certificates of the state high school board—also the number of certificates presented from each town represented—the subjects upon which the certificates were given—and the number of candidates presenting certificates in the years 1884-85, and 1885-86:

In the year 1884-85:—Austin 11, Anoka 16, Albert Lea 5, Faribault 8, Minneapolis Academy 12, Mankato 14, St. Peter 9, Fergus Falls 12, Lake City 28, Litchfield 10, Winnebago City 14, Cannon Falls 6, Red Wing 8, Willmar 2, Duluth 1, Winona 5.

In the year 1885-86:—Albert Lea 7, Anoka 48, Elk River 15, St. Cloud 18, Farmington 7, Lake City 82, Litchfield 10, Sauk Centre 5, Hastings 11, Garden City 1, St. Peter 21, Henderson 33, Red Wing 9, St. Charles 2, Carver 7, Mankato 8, Howard Lake 7, Owatonna 14, Minneapolis Academy 39.

The certificates presented were as follows:

In 1884-85:—Arithmetic 11, elementary algebra 11, plane geometry 12, geography 6, United States history 4, general history 8, physiology 8, English grammar 8, Latin grammar 6, Caesar 9, Cicero 8, Greek grammar 2, physical geography 10, natural philosophy 11, elementary astronomy 13, ancient history 6, higher algebra 7, solid geometry 3, anabasis 3, Virgil 7, chemistry 5, botany 3.

In 1885-86:—Arithmetic 26, elementary algebra 28, plane geometry 17, geography 23, United States history 21, general history 17, physiology 17; English grammar 17, Latin grammar 13, Caesar 16, Cicero 12, natural philosophy 22, physical geography 33, ancient history 12, higher algebra 7, solid geometry 11, Virgil 8, chemistry 13, botany 11, elementary astronomy 13, drawing 2.

The number of candidates presenting their certificates was twenty seven in 1884-85, and forty-five in 1885-86.