

THE UNIVERSITY OF MINNESOTA, }
MINNEAPOLIS, MINN., }
December 1, 1875. }

*To the Honorable David Burt, Superintendent of Public Instruction
for the State of Minnesota :*

SIR : I have the honor to transmit, according to law, the Report
of the University of Minnesota, for the year ending June 24th, 1875,
being the Ninth Annual Report.

I am, Sir, very respectfully,

Your obedient servant,

WILLIAM W. FOLWELL,
President.

BOARD OF REGENTS.

At the close of the year (1874-5) the Board of Regents was composed as follows :

The Hon. HENRY H. SIBLEY, St. Paul.....	1876
The Hon. CHARLES S. BRYANT, St. Peter.....	1876
The Hon. JOHN S. PILLSBURY, Minneapolis	1877
The Hon. PARIS GIBSON, M. A., Minneapolis.....	1877
The Hon. MORRIS LAMPREY, M. A., St. Paul.....	1877
The Hon. WILLIAM R. MARSHALL, St. Paul	1878
The Hon. A. A. HARWOOD, Austin.....	1878

and ex Officiis,

The Governor of the State,

The Hon. CUSHMAN K. DAVIS, M. A., St. Paul.

The State Superintendent of Public Instruction,

Hon. D. BURT, M. A., St. Paul.

The President of the University,

WILLIAM W. FOLWELL, M. A., Minneapolis.

OFFICERS.

Hon. J. S. PILLSBURY, President.

Hon. PARIS GIBSON, Recording Secretary and Treasurer.

WILLIAM W. FOLWELL, Corresponding Secretary.

During the year the following changes took place :

The Hon. Wm. R. Marshall, of St. Paul, and the Hon. A. A. Harwood, of Austin, were appointed by the Governor to fill their own vacancies, caused by expiration of a previous term.

The Rev. D. Burt, of Winona, having been appointed State Superintendent of Public Instruction, in place of the Hon. H. B. Wilson, of Red Wing, whose term had expired, succeeded that officer as Regent, *ex officio*.

The officers of instruction were as follows :

OFFICERS OF INSTRUCTION.

WILLIAM W. FOLWELL, M. A., PRESIDENT,
Instructor in Political Economy and Librarian.

G. CAMPBELL, M. A., B. D., VICE PRESIDENT,
Professor of Mental and Moral Philosophy.

VERSAL J. WALKER, M. A.,
Professor of the Latin Language and Literature.

JABEZ BROOKS, M. A., D.D.,
Professor of the Greek Language and Literature.

EDWIN J. THOMPSON, M. A.,
Professor of Mathematics and Astronomy.

ELI L. HUGGINS, U. S. A.,
Professor of Military Science, and Instructor in French.

NEWTON H. WINCHELL, M. A., STATE GEOLOGIST,
Professor of Geology and Mineralogy.

CHARLES N. HEWITT, M. D.,
Non-Resident Professor of Public Health.

MITCHELL D. RHAME, M. A.,
Professor of Civil and Mechanical Engineering.

STEPHEN F. PECKHAM, M. A.,
Professor of Chemistry and Physics.

JOHN G. MOORE, B. A.,
Professor of the German Language and Literature.

MOSES MARSTON, M. A.,
Professor of the English Language and Literature.

HELEN SUTHERLAND, M. A., PRECEPTRESS,
Assistant Professor of Latin.

RICHARD W. LAING, LL. D.,
Assistant Professor, in charge of History and Elocution.

CHARLES Y. LACY, B. Agr.
Assistant Professor, in charge of Theory and Practice of Agriculture.

LOUIS W. PECK,
Instructor in Physics and Drawing.

The following changes have taken place since the last report :

At the beginning of the year 1874-5, the Rev. Moses Marston, M. A., late professor in the St. Lawrence University, Canton, N. Y., was employed to take charge of the department of English Language and Literature in place of Professor Aris B Donaldson, who had closed his connection with the University at the end of the previous year.

Richard W. Laing, LL. D., late head master of the Grammar and Divinity School, Portland, Oregon, was at the same time engaged as assistant in the department of English.

Mr. Charles Y. Lacy, B. Agr., a graduate of Cornell University, was employed, soon after the opening of the year, to take charge of the department of Theory and Practice of Agriculture, in place of Assistant Professor Dalston P. Strange, whose engagement had expired.

Mr. Louis W. Peck, late of the Massachusetts Institute of Technology, was employed as instructor in Industrial Drawing and Surveying during the second and third terms.

At the annual election, held on the 22d day of April, 1875, the following officers, who had previously held the rank of assistant professor or instructor, were elected professors :

Mitchell D. Rhame, M. A., department of Civil and Mechanical Engineering.

Stephen F. Peckham, M. A., department of Chemistry and Physics.

John G. Moore, B. A., department of German Language and Literature.

Moses Marston, M. A., department of English Language and Literature.

At the same time, the following officers were elected assistant Professors :

Richard W. Laing, LL. D., in charge of the department of History.

Charles Y. Lacy, B. Agr., in charge of the department of Agriculture.

In the course of the year, instruction was given by students, as follows ; by

Mr. John C. Hutchinson, in Greek, and by

Mr. Henry S. Goff, in Mathematics.

A communication from the Secretary of War, dated May 25th, 1875, gave notice to the Board of Regents, that Lieut. Eli L. Huggins, would be relieved from duty on July 11th following, by reason of the expiration of the term of three years, fixed by regula-

tion for the detail of army officers as professors of Military Science. Professor Huggins was accordingly ordered to join his command, and left the University, carrying with him the esteem and best wishes of his late colleagues and pupils. Up to the date of filing this report no successor has been appointed.

The following employes retained throughout the year the positions formerly held:

Mr. Wm. T. Scott, Farm Superintendent.

Mr. John S. Clarke, assistant Librarian.

Mr. Andrew R. Cass, Janitor.

A large amount of mechanical and other labor was performed by students about the buildings and grounds and upon the experimental farm.

THE WORK OF THE YEAR.

The following tables show the amounts and kinds of work performed in the various departments of instruction, exclusive of the entrance and other examinations and the revision and correction of papers:

Subjects.	Instructor.	Class.	No. of Exercises	No. of Students.	Term.
MATHEMATICS.					
Algebra.....	Thompson.	Fourth.	50	64	I.
Algebra, advanced.....	" (H. S. G.)	Third.	55	40	III.
Plane Geometry.....	"	Third.	68	41	I.
Solid Geometry.....	"	Second.	12	40	II.
Plane Trigonometry.....	"	"	44	40	I.
Spherical Trigonometry.....	"	"	44	40	I.
Conic Sections.....	"	"	30	26	III.
Analytical Geometry.....	"	First.	52	21	I.
Surveying.....	Peck.	Second.	40	27	III.
Differential Calculus.....	Thompson.	Junior.	61	10	I.
Integral Calculus.....	"	"	50	7	II.
Modern Geometry.....	"	"	30	6	III.
Gen. Theory of Equations.....	"	"	20	6	III.
Elementary Astronomy.....	"	Fourth.	50	9	III.
Descriptive Astronomy.....	"	First.	50	23	II.
Practical Astronomy.....	"	Senior.	40	3	I.
CHEMISTRY.					
General Chemistry.....	Peckham.	Second.	55	35	II.
Applied Chemistry.....	"	"	54	17	III.
PHYSICS.					
Molecular Physics.....	Peckham.	Second.	64	40	I.
Mechanical Physics.....	Rhame.	First.	65	9	I.
Natural Philosophy.....	Peckham.	Fourth.	55	52	II.
GEOLOGY, &c.					
Historical Geology.....	Winchell.	Junior.	26	12	II.
Historical Geology, lectures.....	"	"	14	12	II.
Dynamical Geology.....	"	Third.	55	56	II.
Mineralogy.....	"	Junior.	43	12	III.
Blowpipe Analysis.....	"	"	42	8	III.
BOTANY.					
Structural Botany.....	Winchell.	Third.	28	33	III.
Systematic Botany.....	"	"	28	27	III.
ZOOLOGY.					
	Lacy.	First.	50	13	III.
PHYSICAL GEOGRAPHY.					
	Peckham.	Third, Fourth	63	66	III.

Subjects.	Instructor.	Class.	No. of Exercises	No. of Students.	Term.
ENGLISH, &c.					
Elements of Criticism.....	Marston.	Senior.	55	8	I.
Elocution.....	"	"	10	7	I.
Constitution, United States.....	"	"	50	7	II.
Constitution, Minnesota.....	"	"	5	7	II.
Rhetorical Exercises.....	"	"	49	7	I, II, III.
English Literature.....	"	Junior.	65	15	I.
English Literature.....	"	"	22	6	II.
English Literature.....	"	"	22	6	III.
Rhetorical Exercises.....	"	"	117	13	I, II, III.
Logic.....	"	First.	55	23	I.
Rhetoric.....	"	"	50	13	III.
Rhetorical Exercises.....	"	"	19	23	I, II.
Rehearsals.....	"	4 Upper.	350	74	I, II, III.
Essays, &c., criticised.....	"	"	280	74	I, II, III.
Prose Composition.....	Laing.	Fourth.	64	61	I.
English Philology.....	"	Second.	64	13	I.
Modern History.....	"	Third.	113	10	II, III.
General History.....	"	"	11	10	II, III.
General History, Lectures.....	"	Fourth.	55	32	III.
Higher English Grammar.....	"	Third.	83	28	III.
Elocution, Lectures.....	"	Fourth.	58	28	II.
Rhetorical Exercises.....	"	2d, 3d & 4th.	43	143	I, II, III.
Rehearsals.....	"	"	785	143	"
Essays, &c., criticised.....	"	"	525	"	"
Hadley's "Brief History".....	Folwell.	Jun.	30	3	I.
GERMAN.					
German Grammar.....	Moore.	Jun. & 3d.	66	25	I.
Iphigenie and History.....	"	Third, § 1.	66	18	I.
Iphigenie and History.....	"	Third § 2.	66	17	I.
Piccolomini and Lager.....	"	2d & Jun.	66	17	I.
Grammar and Reading.....	"	Jun. & 3d.	57	15	II.
Jungfrau von Orleans.....	"	Third.	57	20	"
Wallenstein's Tod.....	"	Second.	57	14	"
Nathan der Weise.....	"	Sen. & Jun.	35	9	"
Herman and Dorothea.....	"	Second.	55	14	III.
Undine.....	"	Third.	55	16	"
Andersen's Marchen.....	"	Jun. & Third.	55	14	"
Goethe's Faust.....	"	Sen. and Jun.	33	5	"
FRENCH.					
Grammar and Exercises.....	Huggins.	First.	65	7	I.
Grammar and Reading.....	"	"	50	4	II.
Reading—Selections.....	"	"	50	3	III.
Fenelon's Télémaque.....	"	Junior.	30	5	III.
LATIN.					
Plautus.....	Walker.	Senior.	56	4	I.
Roman Literature, Lectures.....	"	"	14	4	I.
Juvenal.....	"	Junior.	40	6	III.
Tacitus, History.....	"	"	60	6	II.
Horace, Odes, &c.....	"	First.	60	6	II.
Livy.....	"	Second.	120	21	II, III.
Virgil, Æneid.....	"	Third.	60	37	III.
Cicero, Orations.....	"	"	70	37	I.
Roman History.....	"	Second.	"	21	II, III.
Roman Antiquities.....	"	Junior.	"	6	III.
Latin Composition.....	"	Third.	"	37	III.
Virgil, Æneid.....	Sutherland.	Third.	60	37	II.
Cicero, Orations.....	"	Fourth.	60	34	III.
Caesar, two sections.....	"	"	130	34	I & II.
Latin, Reader, two sections.....	"	"	190	39	I, II, III.
Latin Composition.....	"	Thd. & F'rth.	"	"	"
GREEK.					
Plato and Aristotle.....	Brooks.	Senior.	55	3	II.
Essays on same.....	"	"	3	3	II.
Greek Literature, Lectures.....	"	"	13	4	III.
Greek Literature, Reviews.....	"	"	13	4	III.
Plato.....	"	Junior.	65	4	I.
Essays on same.....	"	"	4	4	I.
Demosthenes, Olynthiacs.....	"	First.	55	12	II.

Subjects.	Instructor.	Class.	No. of Exercises	No. of Students.	Term.
GREEK—(Continued.)					
Æschylus, Prometheus.....	Brooks.	First.	55	12	III.
History and Geography.....	"	"	10	12	II, III.
Homer, Iliad.....	"	Second.	63	13	I.
" ".....	Folwell.	"	53	13	II.
Greek History.....	Brooks.	"	15	13	I, II.
Essays.....	"	"	39	13	I, II.
Xenophon, Anabasis.....	"	Third.	121	8	I, II.
Greek Composition.....	"	"	80	8	I.
Grammar and Reader.....	"(J.C.H.)	"	176	13	I, II, III.
PHILOLOGY (THEORETICAL.)					
Lectures.....	Campbell.	Junior.	24	14	II.
MENT. AND MOR. PHILOSOPHY.					
History of Philosophy.....	Campbell	Senior.	40	8	I.
Ontology.....	"	"	25	8	I.
Ethics.....	"	"	40	6	II.
Evidences of Christianity.....	"	"	15	6	II.
Psychology.....	"	Junior.	55	9	III.
Natural Theology.....	"	Senior.	12	4	III.
HISTORY OF CIVILIZATION.					
Lectures.....	Folwell.	Junior.	31	10	II.
POLITICAL ECONOMY.					
Lectures.....	Folwell.	Senior.	41	8	III.
SANITARY SCIENCE.					
Lectures.....	Hewitt.	Senior.	6	8	III.
Physiology.....	Peckham.	Fourth.	56	29	III.
INDUSTRIAL DRAWING.					
Free Hand, Drawing.....	Peck.	Fourth.	55	40	III.
Plane Problems.....	"	Third.	55	49	II.
Projection and Isometric.....	"	Second.	55	25	II.
Descriptive Geometry.....	Rhame.	First.	55	3	II.
Descriptive and Perspective.....	"	"	55	5	III.
CIVIL ENGINEERING, &C.					
Applied Mechanics.....	Rhame.	Senior.	65	4	I.
Railroad Work.....	"	"	30	4	I.
Leveling.....	"	Junior.	25	3	I.
Topographical Drawing.....	"	"	65	3	I.
Stereotomy.....	"	Senior.	50	4	II.
Bridge Building.....	"	"	55	4	II.
Analytical Mechanics.....	"	Junior.	33	3	II.
Shades and Shadows.....	"	"	55	3	II.
Geodesy.....	"	"	55	3	III.
Ventilation and Heating.....	"	"	80	1	III.
Building Materials.....	"	Senior.	25	3	III.
Applied Mechanics (steam).....	Peck.	"	30	3	III.
MILITARY SCIENCE.					
School of the Soldier.....	Huggins.	Fourth.	15	70	I.
School of the Company.....	"	Four Coll.	15	150	I.
School of the Battalion.....	"	"	20	120	III.
Mil. History, Law and Eng.....	"	Junior.	170	1	I, II, III.

The following tables show the Enrollment and Classification of students for the year (1873-4) :

SUMMARY.

COLLEGE OR DEPARTMENT.	CLASS.	Gentlemen.	Ladies.	Total.
Science, Literature and the Arts..	{ Seniors.....	4	1	5
	{ Juniors	11	1	12
Mechanic Arts.....	{ Seniors.....	3	.....	3
	{ Juniors.....	4	.....	4
Agriculture, (Elementary Course)..	.....	2	.....	2
	{ First.....	17	4	21
Collegiate Department	{ Second.....	36	9	45
	{ Third.....	38	14	52
	{ Fourth.....	57	22	79
	{ Special.....	7	7	14
Totals .....	.....	179	58	237

OR BY CLASSES ONLY,

Seniors,—of all Departments.....	8
Juniors,—“ “ “ “.....	16
Sophomores,—First Class, Collegiate Department	21
Freshmen,—Second “ “ “ “.....	45—90
Preparatory, { Third “ “ “ “.....	52
Preparatory, { Fourth “ “ “ “.....	79
Special, 14; Agricultural, 2... ..	16
Total.....	237

COLLEGE OF SCIENCE, LITERATURE AND THE ARTS.

CLASS.	COURSE.	Gentlemen	Ladies.	Total.
SENIOR	{ Classical.....	3	0	3
	{ Scientific.....	1	0	1
	{ Modern	0	1	1 — 5
JUNIOR	{ Classical.....	4	0	4
	{ Scientific.....	6	1	7
	{ Modern	0	1	1 — 12
Totals.....	.....	14	3	17

COLLEGE OF THE MECHANIC ARTS.

CLASS.	COURSE.	Gentlemen.	Ladies.	Total.
SENIOR	Civil Engineering.....	.....	0	3
JUNIOR	Civil Engineering.....	3	0	3
	Architecture.....	1	0	1
Totals .....	.....	7	0	7

COLLEGE OF AGRICULTURE.

Elementary Course, Gentlemen..... 2

COLLEGIATE DEPARTMENT.

CLASS.	COURSE.	Gentlemen.	Ladies.	Total.
FIRST.....	(Classical.....	12	0	12
	Scientific.....	5	0	5
	Modern.....	0	4	4
		17	4	21
SECOND.....	(Classical.....	11	0	11
	Scientific.....	22	4	26
	Modern.....	3	5	8
		36	9	45
THIRD.....	(Classical.....	7	0	7
	Scientific.....	26	8	34
	Modern.....	5	6	11
		38	14	52
FOURTH.....	(Classical.....	11	0	11
	Scientific.....	43	16	59
	Modern.....	3	6	9
		57	22	79
SPECIAL.....	.....	7	7	14
	.....	155	56	211

Two hundred and two (202) students were registered as residents of Minnesota, the following counties being represented:

Benton, 1; Brown, 1; Blue Earth, 6; Cass, 1; Carver, 1; Dakota, 4; Dodge, 1; Douglas, 2; Fillmore, 18; Freeborn, 1; Hennepin East, 49; Hennepin West, 47; Houston, 2; Kandiyohi, 1; Olmstead, 2; Le Sueur, 4; Meeker, 4; Mower, 1; Nicollet, 2; Ramsey, 5; Rice, 1; St. Louis, 3; Scott, 2; Sibley, 1; Sherburne, 1; Stearns, 2; Steele, 2; Wabasha, 10; Waseca, 2; Washington, 14; Winona, 4; Wright, 6. 33 counties.

Of the 96 students from Hennepin East and West, 23 came from the country, and 19 were temporary residents of Minneapolis.

Thirty-two (32) students were registered from other States and countries, as follows:

Canada, (Ontario), 2; Dakota Ter., 1; Indiana, 1; Illinois, 4; Iowa, 6; Maine, 0; Michigan, 2; Missouri, 1; Nova Scotia, 2; New York, 2; Ohio, 1; Pennsylvania, 1; Wisconsin, 6.

Seventy-four students engaged in some kind of remunerative employment, and 45 are believed to have earned their whole living. Seventy-five students had, at some time, been engaged in teaching.

The whole number of applicants for admission, during the year, was 116. Of this number 98 underwent examination, and 18 either failed to report or disappeared in the course of the examinations. Of the number (98) examined, 21 failed, 77 passed. The average per cents. of merits for the *Elementary Branches* were as follows: reading, 81; writing, 80; Spelling, 91; arithmetic, 78; elementary algebra, 52; English grammar, 68; geography, 74; United States history, 70; general average, 74.

The requisites for admission to the lowest class or grade of the collegiate department will remain the same as hitherto for and during the next University year, 1875-76 only. At the close of that year the instruction of the Fourth class will, by virtue of a resolution of the Board of Regents, be formally discontinued, and the branches and subjects of the said class will be added to the requirements for admission. The lowest class then remaining will be the Third, or sub-Freshman, full standing in which can only be secured by passing satisfactory examinations, as follows:

- (1) *All applicants* will be examined in
 Reading, Writing and Spelling;
 English Grammar, (including Analysis)
 Arithmetic, complete,
 Algebra, through quadractic Equations,
 English Composition and Rhetoric,
 Outlines of General History,

(2) All applicants who desire to pursue the Latin Language, in any of the courses of study will be examined in the Latin Grammar and Reader, and Part I. of Latin Composition.

(3) Applicants for admission to the CLASSICAL COURSE, will be further examined in
 Caesar's Commentaries. (four books),
 Cicero, (First oration),
 Greek Grammar and Reader,
 Xenophon's Anabasis, (8 chapters of Book I.)

(4) Applicants for admission to the SCIENTIFIC COURSE will be further examined in
 Physical Geography,
 Natural Philosophy,
 Physiology,
 Free Hand Drawing,
 History of England,
 Study of English Words,
 Elementary Astronomy; but in lieu of the last

three studies in the English language, applicants may offer, either the Latin or the Greek of the classical requirements.

(5) Applicants for admission to the MODERN COURSE will be examined in

History of England,
Higher English Grammar,
Physiology, and in the
Latin or Greek required for the classical course; but
applicants may offer in lieu of this Latin or Greek, the following
scientific studies :

Physical Geography,
Natural Philosophy,
Elementary Astronomy.

The amount and kind of preparation thus indicated can be furnished without difficulty by several of the High and Graded schools of the State. By some, however, the whole of it cannot be given, and of the common schools we can only expect that the more elementary subjects will be taught. Inasmuch as the majority of our students come from the country districts, with only the preparation of the common schools, the question, "How shall the sons and daughters of farmers, and other country residents, be fitted to enter the University?" remains as important and vexatious as ever.

The institution stands in this dilemma: If all of the preparatory work included in the foregoing list be abruptly abolished the country patrons may complain that there is no place to which they are entitled to send their students to be prepared for admission; if, on the other hand, the University shall continue too long to offer this preparatory instruction, then the city schools may complain of interference with their functions.

What the action of the Board of Regents may be, cannot now be known, but I do not deem it improper to lay before you a plan which has been suggested, as a possible solution of the problem. Its points are:

(1) That the "Fourth Class" be dropped in accordance with the resolution now on record; but

(2) That the Board of Regents retain the privilege of organizing auxiliary classes for instructing students who may be found insufficiently prepared in certain branches; such, for instance, as the elements of Latin and Greek, Algebra, English language and General History, but

(3) that this instruction be offered only to such students as may be unable to obtain it in the public schools of the school districts in which they reside.

Such an arrangement, it is thought, would keep the work of the

University in actual articulation with that of the schools of the State without danger of drawing away from the high and graded schools the pupils who can therein obtain their preparatory instruction. This equitable discrimination in favor of the rural applicants might perhaps be extended still further, so as to close the University to city students of any grade who can carry on their studies in the high schools, until such time as provision may be made for admitting country students to the high schools. This subject is respectfully urged upon your attention.

COMMENCEMENT.

The third annual commencement was held in the new auditorium on Thursday, the 24th day of June, 1875. The following degrees were conferred :

Bachelors in Arts.

Andrew Russell Cass, Ontario.
Julius Elliott Miner, Goodhue county.
Simon Peter Starritt, Wright county.

Bachelors in Science.

Samuel Addison Rank, Fillmore county.
Clark Stewart, Hennepin county.

Bachelors in Literature.

Helen Mar Ely, Winona county.

Bachelors in Civil Engineering.

Henry Clay Leonard, Fillmore county.
Samuel Addison Rank, Fillmore county.
Clark Stewart, Hennepin county.

The music was given by the excellent band of the 20th U. S. Infantry, present through the courtesy of Major General Sykes, commanding the Department.

At the commencement dinner, spread at the Nicollet Hotel in the afternoon, speeches were made by President Neill, of Macalester College, Hon. Mark H. Dunnell, M. C., Rev. Dr. McMasters, Hon. S. P. Jennison, Secretary of State, Hon. Horace Austin, Professor Levi Wright, and others.

THE CALENDAR.

The calendar for the year (1874-5) was published shortly after the close of the year. To this document I would respectfully refer you for detailed information regarding the courses of study, the requirements for admission, and the means and facilities for instruc-

tion in the various departments of the University. The pamphlet has been manufactured in a style creditable to the printers, Messrs. Johnson & Smith, of Minneapolis, and will, it is hoped, be found useful to all concerned. In addition to the matter usually found in college catalogues, this issue contains, as appendices, the by-laws enacted by the Board of Regents for the government of the University, and the names of all students who have at any previous time been in attendance.

BUILDINGS.

The apprehension expressed in the last annual report that neither the new addition to the main edifice, nor the new agricultural college would be ready for occupancy before the opening of still another year has been fulfilled. There is, at length, good ground to hope that the essential portions of these new structures may be available in September, 1875. In that case a large amount of work which has been for some time suspended, may be resumed and still more which has not been attempted at all for lack of suitable appliances, will be commenced. All of which is respectfully submitted.