

THIRTIETH ANNUAL REPORT

OF THE

BOARD OF TRUSTEES

OF THE

OHIO STATE UNIVERSITY

TO THE

GOVERNOR OF OHIO

FOR THE

YEAR ENDING JUNE 30, 1900.

BOARD OF TRUSTEES

1899-1900

JOHN T. MACK.....	Sandusky	May 13, 1901
LUCIUS B. WING.....	Newark	" 1902
THOMAS J. GODFREY.....	Celina	" 1903
J. McLAIN SMITH.....	Dayton	" 1904
PAUL JONES.....	Columbus	" 1905
OSCAR T. CORSON.....	Columbus	" 1906
DAVID M. MASSIE.....	Chillicothe	" 1907

OFFICERS OF THE BOARD.

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OSCAR T. CORSON.....	Vice-President.
ALEXIS COPE.....	Secretary.
L. F. KIESEWETTER.....	Treasurer.

COMMITTEES OF THE BOARD.

EXECUTIVE	FARM	FINANCE
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T. J. GODFREY	L. B. WING	J. McLAIN SMITH
PAUL JONES	JOHN T. MACK	PAUL JONES

FACULTY AND COURSES OF STUDY.

THOMAS J. GODFREY	JOHN T. MACK	OSCAR T. CORSON
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MEMBERS OF THE FACULTIES, AND OTHER INSTRUCTORS

1899-1900

WILLIAM OXLEY THOMPSON, ✓
President — University Grounds.

EDWARD ORTON,*
Professor of Geology and State Geologist — 100 Twentieth street.

WILLIAM HENRY SCOTT, ✓
Professor of Philosophy — 131 Fifteenth avenue.

SIDNEY AUGUSTUS NORTON, ✓
Emeritus Professor and Lecturer in General Chemistry — 363 East Town street.

STILLMAN W. ROBINSON, ✓
Emeritus Professor of Mechanical Engineering — 1353 Highland street.

NATHANIEL WRIGHT LORD, ✓
Professor of Mineralogy and Metallurgy, Director of the School of Mines, and Dean of the College of Engineering — 338 West Eighth avenue.

SAMUEL CARROLL DERBY, ✓
Professor of Latin — 93 Fifteenth avenue.

WILLIAM RANE LAZENBY, ✓
Professor of Horticulture and Forestry — 348 West Eighth avenue.

JOSIAH RENICK SMITH, ✓
Professor of the Greek Language and Literature, and President pro tempore of the University Faculty — 950 Madison avenue.

HENRY ADAM WEBER, ✓
Professor of Agricultural Chemistry — 1342 Forsythe avenue.

BENJAMIN FRANKLIN THOMAS, ✓
Professor of Physics and State Sealer of Weights and Measures — University Grounds.

GEORGE WELLS KNIGHT,
Professor of American History and Political Science, and of Constitutional Law — University Grounds.

ROSSER DANIEL BOHANNAN, ✓
Professor of Mathematics — Sixteenth and Indianola avenues.

C. NEWTON BROWN, ✓
Professor of Civil Engineering — 1343 Forsythe avenue.

ERNST AUGUST EGGERS, ✓
Professor of Germanic Languages and Literatures — University Grounds.

ALBERT MARTIN BLEILE, ✓
Professor of Anatomy and Physiology — 218 King avenue.

WILLIAM ASHBROOK KELLERMAN, ✓
Professor of Botany — 175 Eleventh avenue.

THOMAS FORSYTH HUNT, ✓
Professor of Agriculture, and Dean of the College of Agriculture and Domestic Science — 188 West Tenth avenue.

GEORGE BEECHER KAUFFMAN, ✓
Professor of Pharmacy, and Dean of the College of Pharmacy — University Grounds.

BENJAMIN LESTER BOWEN, ✓
Professor of Romance Languages and Literatures — 46 Jefferson avenue.

JOSEPH VILLIERS DENNEY, ✓
Professor of Rhetoric and the English Language, and Secretary of the University Faculty — 230 West Tenth avenue.

* Died October 16, 1899.

ANNUAL REPORT

ALLEN CAMPBELL BARROWS,

Professor of English Literature and Dean of the College of Arts, Philosophy and Science—
85 West Tenth avenue.

EDWARD ORTON, JR.,

Director of the the Department of Clay Working and Ceramics—The Normandie.

WILLIAM FOREST HUNTER,

Dean of the College of Law; Professor of the Law of Sales, Bailments, Evidence, Wills,
Construction of Contracts, Law of Corporations; Judge of Moot Courts—
1802 Bryden Road; 18 Board of Trade.

DAVID FRANKLIN PUGH,

Professor of Equity Jurisprudence and Law of Real Property—1320 Highland street.

JAMES HENRY COLLINS,

Lecturer on Federal Practice—57 Lexington avenue; Ruggery Building.

EMILIUS OVIATT RANDALL,

Professor of Commercial Law—1025 Oak street; Supreme Court Room.

WILLIAM THOMAS MAGRUDER,

Professor of Mechanical Engineering—191 King avenue.

J. P. GORDY,

Professor of Pedagogy—350 West Seventh avenue.

EDGAR BENTON KINKEAD,

Professor of the Law of Pleading and Practice, Torts, and of Criminal Law—Wyandotte
avenue; Board of Trade.

WILLIAM HERBERT PAGE,

Professor of Elementary Law—527 East Broad Street; 27 Board of Trade.

WM. McPHERSON, JR.,

Professor of Chemistry—97 Hamilton avenue.

JOSEPH NELSON BRADFORD,

Professor of Drawing—54 West Tenth avenue.

DAVID STUART WHITE,

Professor of Veterinary Medicine, and Dean of the College of Veterinary Medicine—West
Fifth avenue.

HERBERT OSBORN,

Professor of Zoology and Entomology—485 King avenue.

CLARENCE P. LINHART,

Professor of Physical Education, and Director of the Gymnasium—The Vendome.

JAMES MADISON BURNS, U. S. A.,

Professor of Military Science and Tactics—The Columbus Club.

OLIVE BRANCH JONES,

Librarian—53 Eleventh avenue.

HENRY CURWIN LORD,

Director of the Emerson McMillen Observatory and Associate Professor of Astronomy—
Observatory Park.

FRANK EDWIN SANBORN,

Director of the Department of Industrial Arts—380 West Eighth avenue.

FRANK ARNOLD RAY,

Associate Professor of Mine Engineering—137 King avenue.

EMBURY ASBURY HITCHCOCK,

Associate Professor of Experimental Engineering—380 West Eighth avenue.

FRANCIS CARY CALDWELL,

Associate Professor of Electrical Engineering—401 Sixth avenue.

PERLA G. BOWMAN,

Associate Professor of Domestic Science—The Saint Anna.

FREDERICK CONVERSE CLARK,

Associate Professor of Economics and Sociology—1634 Neil avenue.

① and April 24, 1901

OHIO STATE UNIVERSITY

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WILBUR HENRY SIEBERT,
Associate Professor of History—1332 Highland street.

WILLIAM DAVID GIBBS,
Associate Professor of Agriculture—234 West Tenth avenue.

STELLA ELLIOTT CANFIELD,
Associate Professor of Physical Education—1457 Worthington street.

GEORGE WASHINGTON McCOARD,
Associate Professor of Mathematics—325 West Sixth avenue.

CHARLES WALTER MESLOH,
Associate Professor of German—University Grounds.

ARTHUR WINFRED HODGMAN,
Associate Professor of Classic Languages—164 West Ninth avenue.

CHARLES SMITH PROSSER,
Associate Professor of Historical Geology—1302 Highland street.

JOHN ADAMS BOWNOCKER,
Associate Professor of Inorganic Geology—1594 Neil avenue.

JOHN WRIGHT DECKER,
Associate Professor of Dairying—329 West Eighth avenue.

JOHN A. SHAUCK,
Lecturer on Supreme Court Practice, Special Cases, etc.—95 Winner avenue.

J. WARREN SMITH,
Lecturer on Meteorology—55 Cleveland avenue.

JAMES ELLSWORTH BOYD,
Assistant Professor of Physics—25 Maynard avenue.

JOSEPH RUSSELL TAYLOR,
Assistant Professor of Rhetoric—corner King and Worthington.

CHRISTOPHER ELIAS SHERMAN,
Assistant Professor of Civil Engineering—772 Oak street.

WILLIAM LUCIUS GRAVES,
Assistant Professor of Rhetoric—1313 Forsythe avenue.

CLAIR ALBERT-DYE,*
Assistant Professor of Pharmacy—169 King avenue.

THOMAS EWING FRENCH,
Assistant Professor of Drawing—1458 Worthington.

CHARLES WILLIAM FOULK,*
Assistant Professor of General Chemistry—41 Eleventh avenue.

CHARLES LINCOLN ARNOLD,
Assistant Professor of Mathematics—328 West Eighth avenue.

CHARLES A. BRUCE,
Assistant Professor of French—234 West Tenth avenue.

JOHN H. SCHAFFNER,
Assistant Professor of Botany—40 West Tenth avenue.

WILLIAM FINLEY LAVERY,
Assistant Professor of Veterinary Medicine—1700 Neil avenue.

CHARLES BYRON FREDERICK,
Assistant Professor of Veterinary Medicine—Veterinary Hospital.

CORNELIA PORTER SOUTHER,
Assistant Professor of Domestic Art—1356 Neil avenue.

CHARLES BRADFIELD MORREY,
Assistant Professor of Anatomy and Physiology—86 King avenue.

WILLIAM EDWARDS HENDERSON,
Assistant Professor of Analytical Chemistry—41 West Eleventh avenue.

* Absent on leave.

^ Resigned September 21, 1900.

ANNUAL REPORT

JAMES STEWART HINE,
Assistant Professor of Entomology — 26 West Fourth avenue.

KARL DALE SWARTZEL,
Assistant Professor of Mathematics — 57 West Eighth avenue.

GEORGE H. MCKNIGHT,
Assistant Professor of Rhetoric and English Language — 312 West Seventh avenue.

HERRICK CLEVELAND ALLEN,
Assistant Professor of Public Speaking — 275 East Gay street.

BURT BIDWELL HERRICK,
Instructor in Cheese-making — 167 Tenth avenue.

FREDERICK EDWARD KESTER,
Instructor in Physics — 1473 Neil avenue.

WILLIAM ABNER KNIGHT,
Assistant in the Industrial Department and Foreman of the Machine Shops — 206 West Lane
avenue.

THOMAS KENYON LEWIS,
Assistant in Drawing — 1298 Dennison avenue.

FRANCIS LEROY LANDACRE,
Assistant in Zoology and Entomology — 1332 Highland street.

HARRIET TOWNSHEND,
Assistant in Library — 53 West Eleventh avenue.

MAUDE DOROTHY JEFFREY,
Assistant in Library — 65 West Eleventh avenue.

ALBERT EARL VINSON,
Assistant in Agricultural Chemistry — 134 West Ninth.

GERTRUDE STOWELL KELLCOTT,
Assistant in Library — 1332 Highland street.

CLARK WISSLER,*
Assistant in Philosophy and Pedagogy — 1355 North High street.

EDWARD EVERETT SOMERMEIER,
Assistant in Metallurgy and Meteorology — 1590 Neil avenue.

FRANK RUHLEN,
Assistant in Agriculture — North Dormitory

LUCY ALLEN,
Assistant in Library — 1490 Neil avenue.

DON CARLOS HUDDLESON,
Assistant in Gymnasium — 249 West Lane avenue.

JOSEPH HENRY VOSSKUEHLER,
Assistant in Drawing — 201 West Eleventh avenue.

CLAUDE B. GUITTARD,
Assistant in Library — 80 McMillen avenue.

ALBERT V. BLEININGER,
Assistant in Ceramics — North Dormitory.

OLIVER V. BRUMLEY,
Assistant in Veterinary Medicine — University Grounds.

SILAS MARTIN,
Assistant in Drawing — 1269 Dennison avenue.

JOHN B. SANBORN,
Assistant in American History — 215 West Tenth avenue.

FRED ALAN FISH,
Assistant in Electrical Engineering — 239 West Eleventh avenue.

HOMER CHARLES PRICE,
Assistant in Horticulture and Forestry — 1594 Neil avenue.

* Resigned September 21, 1900.

WALTER ALEXANDER LANDACRE,
Assistant in Pharmacy—1574 Summit street.

WILLIAM HENRY RENCK,
Assistant in Industrial Arts and Foreman of the Carpenter and Pattern Shops—910 West
Rich street.

CHARLES PHILIP CROWE,
Assistant in Industrial Arts and Forge Master—971 Highland street.

FRANCIS MARION HAMILTON,
Assistant in Philosophy and Education—1355 North High street.

JOHN WESLEY GROVES,
Assistant in Civil Engineering—38 West Eighth avenue.

DELBERT ALONZO CROWNER,
Assistant in Butter-making—North Dormitory.

ELISHA SMITH,
Assistant in Cheese-making.

MELVIN DRESBACH,
Fellow in Anatomy and Physiology—236 West Eighth avenue.

FRANK ORVILLE CLEMENTS,*
Fellow and Laboratory Assistant in Chemistry—252 West Eighth avenue.

FREDERICK J. HALE,
Fellow and Laboratory Assistant in Mechanical Engineering—239 West Tenth avenue.

EMMA LEANNA BALL,
Fellow and Assistant in Mathematics—225 King avenue.

JOHN BERNARD PARKER,
Fellow and Theme Assistant in Rhetoric—43 West Woodruff avenue.

ALBERT HEBER McINTYRE,
Fellow in Industrial Arts—240 West Eighth avenue.

DONALD ALEXIS KOHR,
Fellow, and Laboratory Assistant in Chemistry—1590 Neil avenue.

JOHN WESLEY YOUNG,
Fellow, and Assistant in Mathematics—883 East Main street.

HAROLD WARNER BROWN,
Fellow, and Assistant in Physics—242 King avenue.

HERBERT W. KENNEDY,
Emerson McMillin Fellow in Astronomy—164 West Ninth avenue.

SAMUEL WILLIAMSON COLLETT,
Fellow in Botany—48 West Woodruff avenue.

HERBERT CHARLES GORE,
Fellow and Laboratory Assistant in Chemistry—185 West Ninth avenue.

CHARLES ARTEMUS GRATE,
Fellow and Laboratory Assistant in Mechanical Engineering—1610 Highland street.

GRACE L. PITTS,
Fellow in Economics—309 East Gay street.

ALICE DUFOUR,
Fellow and Assistant in Botany—374 Oak street.

WILBER E. MANN,
Emerson McMillin Fellow in Economics—1340 Hunter street.

WILLIAM C. MILLS,
Curator of Archaeology—91 West Frambes avenue.

* Resigned January 23, 1900.

EXECUTIVE DEPARTMENT

1899-1900

WILLIAM O. THOMPSON.....	President
ALEXIS COPE.....	Secretary Board of Trustees and Bursar
W. C. McCracken.....	Chief Engineer
KATHERINE H. DUNCAN.....	Executive Clerk
EDITH D. COCKINS.....	Registrar
EDITH R. HUBLER.....	Telephone Exchange
CARL E. STEEB.....	Accountant
CHARLES LOW.....	First Assistant Engineer
WILLIAM STANDLEY.....	Second Assistant Engineer
THOMAS BOUDE.....	First Fireman
W. E. CASE.....	Second Fireman
JAMES KELLEY.....	Lawnkeeper

JANITORS

ARTHUR CHANTLER.....	University Hall
HENRY CHANTLER.....	Orton Hall
GEO. W. GOODSPEED.....	Chemical Hall
JOHN H. BROWN.....	Hayes Hall
GEO. DENNY.....	Horticultural Hall and Veterinary Hospital
D. D. GEREN.....	Gymnasium
WILLIAM WHITESTINE.....	Biological Hall
M. N. COOK.....	Townshend Hall

STATE GEOLOGIST.

(1) PROFESSOR EDWARD ORTON.

STATE SEALER OF WEIGTHS AND MEASURES.

THE PROFESSOR OF PHYSICS, *Ex-Officio*.

(1) Died October 16, 1899, and was succeeded by Professor Edward Orton, Jr.

COLUMBUS, O., June 30, 1900.

His Excellency, HON. GEO. K. NASH, Governor of Ohio:

DEAR SIR: I have the honor to transmit herewith the thirtieth annual report of the Board of Trustees, Ohio State University.

Very respectfully,

Your obedient servant,

ALEXIS COPE, *Secretary.*

REPORT OF THE BOARD OF TRUSTEES.

OFFICE OF THE BOARD OF TRUSTEES,

OHIO STATE UNIVERSITY,

COLUMBUS, O., June 30, 1900.

HON. GEORGE K. NASH, *Governor of Ohio.*

SIR:—In compliance with law, the board of trustees respectfully submits the thirtieth annual report of the Ohio State University, it being for the year ending June 30, 1900.

ENDOWMENT.

The part of the irreducible debt of the state which forms the endowment of the university, at the date of the last annual report, June 30, 1899, was \$552,617.66, on which the annual interest was \$33,157.06.

Under the operations of the act of the general assembly of March 14, 1889, entitled "an act to quiet title to unpatented lands in the Virginia military district of Ohio," the following sums were added thereto: July 7, 1899, \$338.00; August 8, 1899, \$130.22; September 11, 1899, \$80.00; November 13, 1899, \$72.70; January 15, 1900, \$428.54; April 18, 1900, \$101.00; May 8, 1900, \$51.50; June 15, 1900, \$74.00; total for the year, \$1,275.96; — making the endowment fund June 30, 1900, \$553,893.62, on which the annual interest is \$33,233.61.

THE WILLIAM J. BRYAN PRIZE.

It will be remembered that in April, 1898, the Honorable William J. Bryan, in a letter addressed to the president of the university proposed "to give to the university, if agreeable to the trustees, \$250, the same to be invested and the proceeds used as a prize for the best essay discussing the principles which underlie our form of government."

The board of trustees promptly expressed its willingness to receive such gift and Mr. Bryan a few weeks later forwarded a draft for the amount.

On July 20, 1898, pursuant to the provisions of section 4105-15 of the revised statutes of Ohio said sum was certified into the state treasury and became a part of the irreducible debt of the state, bearing interest at the rate of six percent per annum payable semi-annually.

There were no competitors for the prize until June 30, 1900, when the accumulated interest added to the principal sum made the endowment \$282.50, and the interest thereon, \$16.95.

The interest thus accumulated was awarded on competition to Mr. Charles W. Gayman, of the class of 1900, in accordance with the terms of the gift, — he having submitted the best essay on the principles underlying our form of government.

RECEIPTS AND DISBURSEMENTS.

The following are the receipts and disbursements for the year ending June 30, 1900:

RECEIPTS.

Balance in treasury June 30, 1899.....	\$9,088 04	
Interest on endowment.....	33,204 22	
State levy	166,076 15	
Sale of refunding bonds.....	43,611 00	
Appropriation act of congress, 1890.....	25,000 00	
Rents	1,111 00	
Virginia military lands.....	30 00	
Student fees	31,920 75	
Sale store room cards.....	2,954 04	
Sale store room supplies.....	459 62	
Emerson McMillin fellowships.....	190 00	
N. B. M. A. scholarship in ceramics.....	250 00	
Diploma fees.....	735 00	
American Association for the Advancement of Science (unused appropriation returned).....	188 51	
Sale of Buckeye engine.....	450 00	
Interest on W. J. Bryan prize.....	8 15	
Sale of supplies, ceramics department.....	50 00	
From commencement luncheon.....	59 00	
Miscellaneous receipts	232 32	
		\$315,617 80

DISBURSEMENTS.

Salaries	\$153,197 84
Expenses of trustees.....	387 87
Repairs	10,680 34
Fuel	6,705 60
Gas	1,448 14
Library	5,974 18
Printing and advertising.....	2,858 12
Special bulletins	1,362 00
Virginia Military Lands.....	5,059 16
Roads and grounds	1,240 43
Water rates	1,219 77
Bonds and interest.....	81,313 20
Repairs and extensions, heat, power and light plant.....	4,682 53
Residence for astronomer.....	2,585 06
Apparatus	9,558 99
Laboratory supplies	10,320 45
Tools and machinery.....	1,756 73
Arc lamps.....	200 00
Orton memorial.....	121 25
Furniture, cases and shelving.....	962 29
Lockers	375 00

Blank books and stationery.....	437 26	
Rent for fire alarm and watchman boxes.....	112 00	
Postage.....	399 90	
Commencement expenses.....	565 45	
Installing experimental boiler.....	1,093 10	
Agricultural students' union.....	119 10	
Oils.....	201 22	
Telephone service.....	365 27	
Telegrams.....	40 58	
Messenger service.....	468 90	
Extra clerical services.....	103 90	
General supplies, cleaning materials, etc.....	434 66	
Freight and cartage.....	666 73	
Examination paper.....	221 90	
Live stock.....	182 00	
Feed.....	300 29	
Seeds and plants.....	132 26	
Miscellaneous.....	637 87	
		<u>\$308,491 34</u>
Balance in hands of treasurer June 30, 1900.....	\$7,126 46	

In the treasurer's report filed herewith said receipts and disbursements are set forth in fuller detail.

THE VIRGINIA MILITARY LANDS.

To June 30, 1899, the total receipts from sales of the Virginia military lands, granted to the university by the act of the general assembly of March 26, 1872, were.....	\$65,395 28	
The receipts from this source during the year ending June 30, 1900, were.....	30 00	
		<u>\$65,425 28</u>
The expenses incident to the survey and disposition of said lands to June 30, 1899, were.....	23,999 09	
Such expenses for the year ending June 30, 1900 (including \$5,000 paid in settlement of pending suits hereafter mentioned) were.....	5,059 46	
		<u>29,058 55</u>
Leaving net cash receipts to June 30, 1900.....	\$36,366 73	
Of this sum on June 30, 1899, there had been paid into the state treasury to the credit of the endowment fund.....	13,665 14	
And expended for building and maintaining residences for the professors under act of April 17, 1882.....	20,052 51	
During the year ending June 30, 1900, there was expended for a residence for the director of the Emerson McMillin Observatory.....	2,585 06	
		<u>36,302 71</u>
Leaving balance June 30, 1900.....	\$64 02	

The receipts and disbursements of this fund for the year ending June 30, 1900, are included in the preceding general account of the aggregate receipts and disbursements.

ADDITIONS TO ENDOWMENT.

For the period ending June 30, 1899, the additions to the endowment under the operations of an act of the general assembly of March 14, 1889, entitled "an act to quiet title to unpatented lands in the Virginia military district of Ohio," the act of April 21, 1893, entitled "an act for the relief of certain persons who formerly held lands in the Virginia military district of Ohio," an act amendatory of said last mentioned act passed May 21, 1894, and an act passed April 26, 1898, entitled "an act making appropriations for the relief of certain persons who formerly held lands in the Virginia military district of Ohio," were \$14,776.22.

During the year ending June 30, 1900, under the operations of said first mentioned act, there was added to the said endowment the sum of \$1,275.96: making total additions to the endowment under said acts \$16,052.18.

THE KENDRICK SUITS.

The suits mentioned in former reports which grew out of a contract made with the late Mr. Sam Kendrick in 1882, for the discovery of undiscovered lands in the Virginia military district of Ohio, have been finally settled and compromised by the payment to the plaintiffs of the sum of \$5,000 inclusive of the costs.

As this important and expensive litigation is now closed a brief resumé of the facts which led to it is presented. In 1882, while the board of trustees, through its agents, was endeavoring to ascertain and dispose of the Virginia military lands granted to the university by act of the general assembly of March 26, 1872, Mr. Sam Kendrick of Chillicothe, at that time principal surveyor of said lands, represented to the board that he had in his possession the only complete records of said lands and was able to point out numerous tracts which the agents of the board had failed to discover and which would yield a handsome addition to the funds of the university. After full consideration of these representations, the board, in August 31, 1882, employed said Kendrick "to discover, survey, plat, cause to be appraised, and sell undiscovered lands in the Virginia military district, belonging to the Ohio State University," * * * "the sales and the conduct of all litigations and negotiations concerning the same to be reported to the executive committee of the board and by said committee approved before the same shall be binding upon either party. After said approval, all expenses of surveying, appraising or litigating, and other necessary expenses incurred, save and except the time given by said Kendrick, to be paid out of such funds as may arise from each tract of said lands by sale or compromise, and the residue of each tract to be divided as follows: to the Ohio state university $66 \frac{2}{3}$ per centum and to said Kendrick $33 \frac{1}{3}$ per centum." It was provided in said contract of employment that * * * "Undiscovered lands shall be held to include all of said Virginia military lands reported by said Kendrick, and not known to the board or any of its former or present

agents." And that "the said Kendrick is hereby fully authorized to compromise and settle any case or cases with the approval of the executive committee, this authority to terminate on the 10th day of November, 1883."

Provision was made in the contract for the payment of the moneys received, and the making of proper conveyances, and it was also further provided, "that the said Kendrick is to be entitled to the said 33 1/3 percentum of all cases reported by him and approved by said committee, and not finally settled at the date fixed for the determination of this authority.

Mr. Kendrick accepted such employment on the day aforesaid, August 31, 1882, and on the 14th day of November, 1882, reported to the executive committee the discovery of 38 tracts of land and was authorized by the committee "to investigate the titles of said several tracts."

Mr. Kendrick continued from time to time to report additional discoveries until November 14, 1883, when the number had reached 50. On that day, after hearing a verbal report of his transactions concerning said lands, the board passed a resolution declaring that as his contract by the terms thereof ceased on November 18, 1883, it was the opinion of the board that it should not be renewed or extended and directing him "to close up the business reported by him by the second Tuesday of November, 1884.

While engaged in closing up the discoveries already reported Mr. Kendrick from time to time reported other discoveries and the reports were received and filed. In some cases he was authorized to settle and compromise cases of discoveries reported after the date on which the contract was formally terminated, and after the time fixed by resolution for closing up the business.

In 1884, in the case of *Fussell v. Gregg* the supreme court of the United States decided, or seemed to decide, that in all cases of lands in the Virginia military district of Ohio, where the survey was made prior to January 1, 1852, and was not filed in the general land office in Washington, until after that date, the proceedings were void, the lands remained unappropriated and passed by the act of cession to the state of Ohio, and by act of the general assembly to the Ohio state university.

Stimulated by this decision Mr. Kendrick began to report these lands to the board as discoveries. The case of *Coan v. Flagg*, decided by the supreme court of the United States in 1887, confirming the opinion of the same court in the case of *Fussell v. Gregg* still further stimulated the activity of Mr. Kendrick in reporting the unpatented surveys as discoveries until the alleged discoveries reported by him reached the number of 238.

These decisions and the widely asserted claims of Mr. Kendrick spread consternation among the occupants of these surveys throughout the Virginia military district.

Many of them had been occupied and improved by their then owners and those under whom they claimed title for periods varying from twenty

to eighty years. They had built their homesteads and had paid taxes upon them and had exercised all the privileges of ownership, all this time, in the belief that their titles were secure. When informed that their titles were absolutely void and that their lands belonged to some one else their feelings can better be imagined than described.

They applied to the general assembly for relief, and on March 14, 1889, an act was passed providing for quieting the titles to these lands. The act provided that on its acceptance by the board of trustees, the occupants of such surveys might, on payment of two dollars and on proof that they or those under whom they claimed had occupied and improved the lands for more than twenty-one years, demand of the board deeds quieting their titles, and thereupon the auditor of state was required to add to the endowment fund of the university one dollar for each acre of land so conveyed. On the 20th day of June, 1889, after full discussion and careful deliberation, the board formally accepted the provisions of said act.

Before such acceptance, an effort was made to effect a settlement with Mr. Kendrick, but his demands were so extravagant that no agreement was possible. After such acceptance, on the 16th day of November, 1889, he filed a suit against the board of trustees in the court of common pleas of Franklin county, setting forth the contract before referred to, the filing of the aforementioned discoveries and asking judgment for the sum of \$133,333.33, with interest from March 14, 1889.

A few months later Mr. N. W. Evans, of Portsmouth, who had been acting as Mr. Kendrick's attorney, also filed a suit in the same court against the board of trustees claiming \$5,000 for legal services rendered in connection with these reported discoveries.

With the advice and consent of the attorney general, Messrs. Harrison, Olds & Henderson were employed to defend these suits.

The preparation for their defence involved a vast amount of labor on the part of the board and its attorneys, requiring a patient and careful examination of the Virginia military land records both in Ohio and in the general land office in Washington. The Evans case was tried in January, 1898, and was decided in the court of common pleas in favor of the university, but was carried on error to the circuit court. Two weeks were occupied in its trial. The immense labor involved in the trial of the Kendrick case, which was really two hundred suits in one, — each alleged discovery having its separate and distinct history and the claim therefor depending upon the separate and distinct facts connected therewith, — made the board of trustees very willing to compromise on reasonable terms. When, therefore, a proposition from the plaintiff was made to settle the case for a sum not greater, probably, than it would cost to try it, the proposition was accepted and by agreement the case was settled and dismissed by payment to the plaintiff of the sum of \$4,000 including costs of suit.

As the two cases grew out of the same transaction, the case of N. W. Evans against the board of trustees was at the same time settled and compromised for the sum of \$1,000, out of which the costs in the suit, amounting to \$246.96, were paid by the board of trustees.

NEW MORRILL FUND.

The following statement shows the receipts and disbursements for the year ending June 30, 1900, of appropriations made by act of congress, approved August 30, 1890, and known as the "New Morrill Fund," and which are included in the preceding statement of the aggregate receipts and disbursements for that period.

RECEIPTS.

Balance in treasury June 30, 1899.....	\$37 31	
Appropriations for year ending June 30, 1899.....	25,000 00	
		\$25,037 31

DISBURSEMENTS.

For instruction and facilities in agriculture.....	\$4,341 61	
For instruction and facilities in mechanic arts.....	8,178 19	
For instruction and facilities in English language.....	1,258 99	
For instruction and facilities in mathematical science.....	2,072 82	
For instruction and facilities in natural and physical science	7,860 40	
For instruction and facilities in economic science.....	1,126 99	
		24,839 00
Balance in treasury June 30, 1900.....		\$198 31

The law of congress making the appropriation requires a detailed annual report of the receipts and disbursements of this fund, which report for the year ending June 30, 1900, is appended to the treasurer's report filed herewith.

It will be seen by the foregoing statement that the appropriation of the general government which begun at \$15,000 a year and was to be increased annually by \$1,000 until the amount was \$25,000 and then continued at that sum, has reached its highest limit.

This annuity was, by the act of 1890, which created it, made payable out of the proceeds of the public lands.

In the 55th congress its continuance was threatened by a bill popularly called the "free homes bill", which gave to settlers on the agricultural public lands which had been acquired by treaty or agreement from the various Indian tribes, patents for their lands "upon payment to the local land officers of the usual and customary fees and no other or further charge of any kind whatsoever."

This bill in the opinion of the commissioner of the general land office would give to such settlers about \$35,000,000 of the anticipated receipts from sales of the public lands and would virtually wipe out this source of national revenue. The bill passed the senate and was favorably

reported by a committee of the house, when the executive committee of the American land grant college association, on which the university is represented, met in Washington and organized an opposition to its passage. The opposition was ably led by General C. H. Grosvenor, and was successful in defeating the measure.

At the late session of the 56th congress the bill was again introduced into and passed the senate, but in the house, to allay the opposition of the land grant colleges, the author of the bill accepted an amendment prepared by the executive committee of the land grant college association, providing: "That in the event that the proceeds of the annual sales of the public lands shall not be sufficient to meet the payments heretofore provided by an act of congress approved August 30, 1890, for the more complete endowment and support of the colleges for the benefit of agriculture and the mechanic arts, established under the provisions of an act of congress approved July 2, 1862, such deficiencies shall be paid by the United States."

The bill passed the house with this amendment, the amendment was concurred in by the senate, and as so amended the bill became a law, thus putting at rest all fears for the permanence of the Morrill annuity.

SCHOOLS OF MINES

At the late session of congress a number of bills were introduced looking toward a congressional appropriation in aid of schools of mines in the several states and territories.

The executive committee of the land grant college association, watchful of the interests of the institutions they serve, got together the several bills introduced and prepared a bill modeled after the Morrill Act of 1890, which was introduced into the senate by Senator Tillman of South Carolina, and into the house by General C. H. Grosvenor of Ohio. The bill provides an appropriation of \$10,000, increasing the amount \$1,000 annually until it reaches \$15,000, at which sum it is to continue, "for the establishment and maintenance of schools or departments of mines and mining in connection with colleges for the benefit of agriculture and mechanic arts in accordance with the provisions of an act of congress approved July 2, 1862." * * * "to be expended for geological instruction, mining engineering, metallurgy, research in road-building material and its proper application, and the branches of learning related thereto, including the various branches of physical, natural and economic science and the facilities for such instruction, research and experiment, in order to promote a liberal and practical education and secure the most intelligent use, conservation and development of the mineral resources of the country."

Representatives of the executive committee of the land grant college association appeared before committees on mines and mining of the senate and house and advocated its passage.

The bill passed the senate by a unanimous vote and in the house was referred to the committee on mines and mining, which on May 22, 1900, reported unanimously in its favor.

The president of the university and the representative of the university on the executive committee of the land grant college association, by authority of the board of trustees, went to Washington and took an active part in urging this legislation.

They found an active and earnest sentiment in the house in favor of the measure, and practically no opposition to it. The pressure of other bills in the closing hours of the session prevented its consideration, but assurances were given that at the adjourned session it should have a day fixed for a hearing on its merits. Its friends have little doubt of its final passage at that time.

BONDED INDEBTEDNESS.

The bonded indebtedness of the university June 30, 1899, was \$355,000, due and payable as follows: \$55,000 December 1, 1899; \$10,000 June 1, 1900; \$55,000 December 1, 1900; \$10,000 June 1, 1901; \$55,000 December 1, 1901; \$10,000 June 1, 1902; \$55,000 December 1, 1902; \$10,000 June 1, 1903; \$55,000 December 1, 1903; \$10,000 June 1, 1904; \$15,000 December 1, 1904; \$10,000 June 1, 1905; \$5,000 December 1, 1905.

Of this indebtedness \$60,000 bore interest at six percent and \$295,000 at four percent per annum, payable semi-annually.

Twenty-five thousand dollars of said indebtedness falling due December 1, 1899, were paid when due and the bonds taken up and cancelled.

Under and pursuant to the provisions of an act of the general assembly entitled "an act to authorize the trustees of the Ohio state university to refund and extend the time of payment of portions of the bonded indebtedness of said institution as the same becomes due," passed April 23, 1898, \$30,000 of the four and one-half percent certificates of indebtedness falling due December 1, 1899, were taken up by an issue of the same amount of four and one-half percent refunding bonds falling due, \$10,000 December 1, 1905, and \$20,000 December 1, 1906.

Said bonds brought a premium of \$2,705. Under the provisions of the same act the \$10,000 of six percent certificates of indebtedness falling due June 1, 1900, were also taken up by a further issue of four and one-half percent refunding bonds falling due \$5,000 December 1, 1906, and \$5,000 December 1, 1907. Said refunding bonds brought a premium of \$906. The premiums received in these operations reduces the nominal interest on the four and one-half percent bonds to a little less than three percent.

Said reductions of principal and interest left the bonded indebtedness June 30, 1900, \$330,000, of which \$50,000 bears interest at six percent and \$280,000 at four and one-half percent per annum, payable semi-

annually. Said remaining indebtedness falls due as follows: \$55,000 December 1, 1900; \$10,000 June 1, 1901; \$55,000 December 1, 1901; \$10,000 June 1, 1902; \$55,000 December 1, 1902; \$10,000 June 1, 1903; \$55,000 December 1, 1903; \$10,000 June 1, 1904; \$15,000 December 1, 1904; \$10,000 June 1, 1905; \$15,000 December 1, 1905; \$25,000 December 1, 1906; \$5,000 December 1, 1907.

INCREASE OF UNIVERSITY LEVY.

The necessity for additional buildings occasioned by increasing numbers of students had become so urgent that at a meeting of the board of trustees held in November, 1899, a committee composed of the president, the secretary and representatives of the board of trustees and faculty was appointed to present the matter to the incoming legislature.

The crowded condition of the department of physics and the entire lack of rooms in which the students of the college of law could be comfortably accommodated impelled the committee to make a special appeal in their behalf.

Accordingly when the general assembly met in January said committee matured a bill providing appropriations for erecting a law building and a building for the department of physics.

The bill was introduced into the house by the Hon. F. H. Heywood and referred to the finance committee.

In the hearing before the committee the needs of the university were ably presented by President Thompson.

The finance committee, while recognizing the urgent needs of the university, were averse to making any appropriation for the purpose out of the general revenues, but suggested an increase of the university levy. In accordance with such suggestion Mr. Heywood offered as a substitute for his original bill a bill increasing the university levy five one-hundredths of a mill, the increase to be used solely for the erection and equipment of buildings. The substitute was favorably reported by the finance committee, passed both houses with practically no opposition and became a law March 29, 1900.

No part of the funds provided by such levy will be available until about the middle of March, 1901.

The university is under great obligation to the Hon. F. H. Heywood who so ably championed and wisely guided the measure through the house, and to the Hon. E. H. Howard who had charge of it in the senate and secured its passage in that body. They are both graduates of the university and it is gratifying to have their names connected with an act of such importance to their alma mater.

To the other members of the general assembly who aided in this legislation the trustees on behalf of the university and its friends desire to make profound acknowledgment. It will be their ambition to so administer the funds so generously given that not a dollar shall be wasted

or misapplied, but that the whole shall be used in such a manner as to secure the largest returns for the outlay.

It has been decided to erect a law building before a building for the department of physics and as soon as practicable to have the plans, specifications and estimates therefor matured so as to begin work on the building at the earliest practicable moment.

Other buildings are needed besides those provided for as above set forth, as will be seen by the report of the president, to which attention is invited.

ASTRONOMER'S RESIDENCE.

The work in research at the Emerson McMillin Observatory has already arrested the attention of leading astronomers both in this country and in Europe.

Early in the spring Professor Vogel of the Potsdam Observatory in a review of the work done in the last twenty-five years upon motion in the line of sight, mentioned the work along this line done at Paris, Cambridge, England, the Lick Observatory and the *Emerson McMillin Observatory* as showing the marked progress in this new branch of modern astronomy.

Public mention was made last year of the fact that of the 57 stars whose motion in the line of sight had been determined, five of them had been determined at the Emerson McMillin Observatory by its director, Professor Henry C. Lord.

The work at this observatory has been done under unfavorable conditions because the astronomer had no place of residence near the observatory.

An observatory differs materially from other laboratories in the fact that observations are absolutely dependent on the conditions of the sky. The sky must not only be clear but the building must be opened up and cooled off before observations can begin and it frequently happens that the best nights follow days which are cloudy until late in the evening. With the observer living a mile away many hours of right conditions are lost which would not be the case if the observer lived in close proximity to his work.

These objections apply as well to students at work in the observatory as to the astronomer, for their work must be done under the same conditions. It has happened that the work of an entire evening has been lost because the astronomer lived too far away from the observatory to catch the favoring conditions of a break in the clouds which gave an hour of clear sky.

Recognizing the necessity for a residence near the observatory for the astronomer, where advantage could be taken of every favorable opportunity for observations, on September 21, 1899, President Thompson presented the matter to the board of trustees together with prelim-

inary plans, estimates, etc., for such a residence prepared by Professor Henry C. Lord, director of the Emerson McMillin Observatory.

Said plans, estimates, etc., were referred to the farm committee and action thereon deferred to the November meeting.

At the November meeting the farm committee submitted to the board completed plans, specifications and estimates for such building which were adopted by the board and the secretary was directed to present them to the governor, auditor of state and secretary of state for their approval and if approved by them then to give notice as required by law of the time and place when and where sealed proposals would be received for furnishing the materials and performing the labor necessary for the erection of the building. At the same time the sum of \$5,000 of the receipts from sales of the Virginia military lands, as authorized by Section 4105-24 of the revised statutes of Ohio, was appropriated to meet the expenses of such erection. The plans, specifications and estimates were approved by the state officers above mentioned, due notice was given as required by law and on January 23, 1900, the bids were opened and the contract for the erection of the building was awarded to Hugh J. McTeague of Columbus, at his bid of \$4,092.

The plans, specifications and estimates were prepared by Professor Henry C. Lord, director of the Emerson McMillin Observatory, and he was appointed architect and superintendent of construction, under the general direction of a building committee consisting of the president and secretary of the university and Professor J. N. Bradford.

At this date, June 30, 1900, the building is well under way and will be completed ready for occupancy by the latter part of August.

The building is loated about 100 feet east of the observatory.

OBSERVATIONS OF THE ECLIPSE.

MAY 28, 1900.

As further evidence of the wide recognition of the excellence of the work done at the Emerson McMillin Observatory Professor S. J. Brown of the naval observatory at Washington in organizing expeditions to observe the eclipse of May 28, 1890, requested Professor Henry C. Lord, director of the Emerson McMillin Observatory, to undertake certain observations at Barnesville, Georgia, using the instruments of the Emerson McMillin Observatory.

To accomplish this work it was necessary to make several delicate attachments to the spectroscope and to construct an elaborate stand to carry the instrument. The attachment to the spectroscope consisted of a movable plate holder so arranged that four photographs two inches long and one-half an inch wide could be taken in rapid succession,—the interval between exposures not being over one-third of a second while the exposures themselves could be made long or short as desired, it being only necessary to press a bulb in order to move the plate from

one position to the next. This plate holder was designed and built by Professor Lord with his own hands in the instrument shop of the observatory, and to it is largely due the success of his observations of the eclipse.

In a letter to the secretary of the board of trustees, Professor Lord gives the following account of his work at Barnesville:

"The spectroscope and appliances were finished, set up and tested, boxed and shipped so that I could leave for Barnesville, Ga., May 9. I reached Barnesville on the evening of May 10, and found Professor Updegraff and the corps of the naval observatory already on the ground.

The work of setting up the instrument was at once begun and the first adjustments were made May 17, eleven days before the day of the eclipse but none too soon. These adjustments were already perfected, the final testing being made upon Arcturus on the night of May 26, when everything was found in readiness for the morning of the 28th.

For nearly a week preceding the eclipse I made daily rehearsals of the programme of observations. To this promptness and thoroughness of adjustment, more than to any other one thing, is due the success of my work. This is shown by the fact that on the night preceding the day of the eclipse I was taken quite sick and was but little better the next morning, but so thorough had been my self-imposed drill that I could not have done better had I been in perfect health."

Professor Lord secured seven spectrum photographs at the time of the eclipse: two showing the spectrum of the flash in the orange, green and blue. These photographs are among the best ever taken of this portion of the spectrum. The plates have not been completely measured and much of the work of the observatory has been interrupted and delayed on account of the duties devolved on the professor as architect and superintendent of the astronomer's residence.

When the building is finished, with the increased amount of time at his disposal, and with his abiding place within 100 feet of the observatory he hopes to rapidly complete the eclipse work and to resume his work on motion in the line of sight, which was interrupted by preparation for observations of the eclipse. All expenses connected with the foregoing observations of the eclipse, including Professor Lord's personal expenses, were generously borne by the U. S. naval observatory.

THE ROBINSON TESTING PLANT.

Among the important acquisitions during the year was the gift by Doctor S. W. Robinson of an experimental boiler and the machinery and appliances necessary for making accurate tests of boilers and fuels under varying conditions.

Doctor Robinson was led to make this donation, as was stated by him in a letter addressed to the board of trustees, by his interest in the tests of boilers and fuels made at the university by Professor Hitchcock,

his former assistant, "by reason of the unusual and high value of the results obtained" "and in the belief that the ability and enthusiasm shown by Professor Hitchcock in this work, would, with the more complete equipment proposed, be able to reach results of hitherto unknown importance."

The gift was made on condition that the trustees should assume the cost of installation, and was gladly accepted.

The original gift included a 107 HP Babcock and Wilcox boiler of wrought steel construction, capable of carrying a working pressure of 200 pounds; a Green's fuel economizer for heating the feed water by means of escaping flue gases; an air heater for heating by means of escaping flue gases the external air supplied to the fire; a forced draft fan for drawing air through the heater and from boiler room and supplying same to the fire and to furnish draft for varying degrees of combustion; and an induced draft fan for producing any practical amount of draft independent of stack or chimney.

Dr. Robinson afterwards added to the gift a steam engine for driving the economizer and the necessary iron work for connecting up the fans. The value of the gift is near \$3,000.

The apparatus has been installed at a cost of \$885.78 and the boiler has been connected with the general heating system for use in emergencies at a cost of \$131.33.

Doctor Robinson served on the committee having charge of the installation, gave every detail careful attention, and rejoices with the university authorities, that the institution has the most complete plant of the kind in existence.

THE CAMPUS.

During the year just ended the sum of \$1,240.43 was expended on the campus. A brick walk was laid between University and Orton Halls at a cost of \$212.05 and the remainder of said sum was expended in mowing the lawn and caring for the roads, walks and drives.

Provision has been made for the beginning of a botanic garden and a few beds of medicinal and other plants have been set out in that part of the campus south of Botanical Hall. An assistant in the department of botany has been employed whose special work is to look after them and make such additions thereto from time to time as the funds will supply, or that can be obtained by gift or exchange with other botanical gardens. With comparatively small expense it is hoped that the university can soon have a botanic garden worthy of the name.

THE LIBRARY.

The expenditures for the library for the year ending June 30, 1900, exclusive of the salaries of the librarian and assistants were \$5,974.18. Of this sum \$427.82 was paid for furniture, cases and shelving;

\$96.24 for current supplies; \$568.85 for binding; and the remainder, \$4,881.27, was expended for books and periodicals.

The report of the librarian shows that the number of accessions during the year was 7,443 and the total number of volumes June 30, 1900, 35,430.

Through the courtesy and interest of Mr. L. C. Ferrel, superintendent of documents, Washington, D. C., about 600 public documents were recently added to the books of the library and 766 valuable reports and documents in the United States embassy at Madrid were secured for the university by payment of the freight thereon.

Many gifts of books from private sources are mentioned in the librarian's report, chief among them a collection valued at \$150, illustrative of the influence of the Quakers in American history, especially during the colonial period, presented by Mr. John J. Janney of Columbus, and over \$400 worth of books on German history presented by Messrs. John and Louis Siebert of Columbus and which have been added to the library bequeathed by Mr. William Siebert of Illinois, whose bequest was mentioned in a former report. Due acknowledgment of these gifts is made elsewhere in this report.

The librarian again calls attention to the pressing need of a library building, which must be provided at an early day.

With such a building in view she has taken up the comparative study of college and university library buildings and has already visited and inspected at her own expense a number of the leading buildings of the kind in the United States.

The board of trustees hopes that at no distant day means will be provided for the erection of such a building, commensurate with the great and growing needs of the university.

The demand for additional books is greater than the funds of the university can at present supply and the faculty has by resolution petitioned the board to add to the usual annual appropriation for the library the sum (\$1,125) annually saved in interest by reduction of the bonded indebtedness, to be expended solely in the purchase of books.

This petition is still pending before the board.

AMERICAN ASSOCIATION FOR ADVANCEMENT OF SCIENCE.

One of the notable events of the year was the meeting in August, 1899, of the American Association for the Advancement of Science.

The board of trustees united with the board of trade of Columbus, the state historical and archæological society, the Ohio society of mining engineers and other learned societies in extending an invitation to this association to hold its annual meeting in Columbus and tendered it the free use of the halls, lecture rooms and laboratories of the university, which invitation was promptly accepted.

This great association had recently honored Doctor Edward Orton and honored itself by electing him as its president, and it seemed emi-

nently proper that it should hold its annual meeting at the Ohio State University where he had done so much to advance the cause of science.

The session lasted nearly a week and brought together between three and four hundred workers in science, many of them men of world-wide reputation. The halls, lecture rooms and laboratories of the university were thrown open for these meetings and the faculty, citizens of Columbus, and college men of Ohio outside Columbus vied with each other in paying merited honors to the distinguished visitors. A noonday luncheon was served to the members in the armory at which there was an opportunity for making acquaintances and for exchange of social courtesies which added much to the pleasure of the occasion.

Many important papers were read and discussed, and the interchange of ideas and courtesies between the members of the faculty who were present and the scientific men and women from the leading universities and colleges of the country was profitable and inspiring, and has done much to advertise the university and to increase its reputation in the scientific world. The board of trustees voted the sum of \$500 toward the entertainment of the association, but the subscriptions by the board of trade and private citizens of Columbus were so liberal that after all expenses of such entertainment were met the committee returned \$188.51 of the appropriation.

NATIONAL GRANGE.

In October, 1899 the national grange held its annual meeting at Springfield, Ohio,—the state grange of Ohio meeting at the same time and place,—and on invitation of the board of trustees these organizations spent a day at the university as the guests of the trustees and faculty. The president of the university delivered a welcome address in the chapel to which responses were made by the officers of the organization, after which the members inspected the various buildings, collections and laboratories and went away duly impressed with the liberal provision made at the university for instruction in the branches related to their calling.

FACULTY.

During the year the university suffered a great loss in the death of Doctor Edward Orton who for many years had so ably filled the chair of geology. Doctor Orton was the first president of the university and during the years of its early struggles was the central force around which all its interests revolved. He stood for the broad and liberal policy which finally prevailed as against that which would have kept it within a narrow field and restricted its sphere of usefulness. The labors of Doctor Orton and of the first faculty of the university who nobly sustained him in his policy are now recalled with gratitude by all the friends of the university. Their unselfish devotion to high ideals in educational work, their patient toil and the influence of their lofty characters are woven into the web and woof of the institution. They shaped its ideals and

gave it an individuality which it is to be hoped it may never entirely lose. In December, 1891, Doctor Orton suffered a stroke of paralysis which partly disabled him, but he continued in active charge of his department until the latter part of May, 1899, when he asked to be relieved of a portion of his work and that his salary be proportionately reduced. Knowing that it was in entire consonance with his real wishes, the board of trustees reluctantly complied with his request.

This action on his part now seems to have been a premonition of the closing scene. He recognized that his physical powers were failing but continued to meet his classes and to haunt the geological museum which had grown up under his wise and careful labors until about the second day of October, 1899, when he took to his room. On the thirteenth day of October, 1899, the check for his salary for the previous month was sent to him and on the same day he wrote acknowledging its receipt, saying, "It seems that I worked up to my natural limit. There has not been a day this term when I was able to lecture. When a man loses appetite and power to sleep he is pretty well gone. That is my condition now." On October 16, 1899, he passed quietly away.

Memorial services in his honor were held in the chapel November 26, 1899, at which Dr. G. K. Guilbert, one of his associates in the U. S. geological survey, Dr. T. C. Mendenhall, president of the Worcester Polytechnic Institute, one of his old associates in the first faculty, Ex-President W. H. Scott and Professor Samuel C. Derby of the present faculty and Hon. T. J. Godfrey of the board of trustees paid eloquent and appropriate tributes to his memory.

These addresses, preceded by a brief biographical sketch prepared by Professor Samuel C. Derby, were printed at the expense of the university, bound in a tasteful brochure and placed in the hands of the president for distribution to the faculty, alumni and friends of the university and to the libraries of other universities and colleges.

Doctor Orton stood unchallenged as the university's highest exemplar of broad scholarship and liberal culture, and for the noblest and best things in character and human activity.

Recognition of his worth was not delayed until after his death, as is frequently the case, but found expression during his life in honors paid to him by his fellow workers in the field of science, and in increasing reverence and respect shown for him by his associates in the faculty, by alumni and students and by his fellow citizens.

The board of trustees in 1892 honored him by naming the building erected for the safe keeping of the geological museum, "Orton Hall."

Now that he is gone it is seen how appropriate and fitting it was that his name should thus be perpetuated. In it are stored the valuable collections he made during the period of his greatest activity.

It was his ambition to write in a book with his own hand a description and history of each one of the more than ten thousand specimens

there deposited, and to mark and number them so that they could be readily identified.

This work was fully completed at the time of his death,— the last entries therein having been made October 2, 1899, the day of his last appearance at the university. This book is deposited in the museum and is a priceless memorial of his patient, untiring labors in the field of science.

The building and what it contains are therefore his fitting monument and will speak for him, we trust, as long as the university endures.

Since Doctor Orton's death the work of the department of geology has been carried on by Mr. Charles S. Prosser, associate professor of historical geology and Mr. John A. Bownocker, associate professor of inorganic geology and curator of the museum.

In November, 1899, in recognition of his former services to the university the name of Doctor Stillman W. Robinson was restored to the faculty roll as *emeritus* professor of mechanical engineering.

In June, 1878, Doctor Robinson was called to the chair of physics and mechanics vice Doctor T. C. Mendenhall who had resigned to accept a professorship in the imperial university of Japan.

In June, 1881, Doctor Mendenhall returned to the university as professor of physics and Doctor Robinson was placed in charge, as professor, of a newly created department of mechanics, the name of the department being subsequently changed to that of mechanical engineering.

Doctor Robinson continued in active charge of this department until the latter part of 1895 when he was compelled to give up work on account of failing health, was granted a leave of absence and shortly afterwards resigned.

Since his resignation he has lived near the university and though occupied with many business cares has kept in touch with the university life and retained his interest in its affairs.

His restoration as a member of the university faculty was warmly welcomed by his former associates in the faculty and by the alumni and students who had profited by his instruction.

While the position to which Doctor Robinson has been elected is purely honorary, requiring no special professional work, the counsel freely given of one so eminent in his profession cannot be otherwise than inspiring and helpful to the university.

At the same time Doctor Sidney A. Norton, in similar recognition of his services as the first professor of chemistry, was elected *emeritus* professor of general chemistry, said election to involve no change in his present duties, that of lecturer in general chemistry.

Other less notable changes in the faculty are mentioned in the report of the president, and in the annual catalogue for the year ending June 30, 1900, which are filed herewith and made a part of this report.

The number of professors in the academic faculty is 30; directors of departments, 3; associate professors, 14; assistant professors, 19; lecturers, 1; fellows and laboratory assistants, 16; librarians, 1; instructors, 2; assistants, 27; curators, 1.

The law faculty consists of the dean, 5 professors and 2 lecturers.

The position and compensation of members of the faculties and other employees of the university are stated elsewhere in this report.

DEGREES.

At the commencement in June, 1900, on the recommendation of the faculty, the following degrees were conferred:

MASTER OF ARTS.

Lucy Allen, B. A., Columbus, O.; William Edward Bohn, B. A., (German Wallace College), Olmsted Falls, O.; Paul Revere Good, B. A., Westerville, O.; Anna Brewster Hirst, B. A., (Antioch College) Yellow Springs, O.; Wilbur E. Mann, B. Ph., Columbus, O.; John Bernard Parker, B. A., Danville, O.; Zella Vina Robinson, B. Ph., Columbus, O.; Herbert Oswald Williams, B. A., Columbus, O.

MASTER OF SCIENCE.

Frederick James Hale, M. E., Columbus, O.; Washington J. Machwart, B. S., (Muskingum College) Mt. Eaton, O.; Raymond Carroll Osborn, B. Sc., Fargo, N. Dakota.

BACHELOR OF SCIENCE,

(In Agriculture)

Vernon Hayes Davis, Byesville, O.; Elmer Otterbein Fippin, Briggsdale, O.; Merritt Findlay Miller, Ridpath, O.; Charles Napoleon Mooney, Milan, O.; Arthur Gillett McCall, McGaw, O.; Charles Benjamin Steward, Marcy, O.; Frederick Wellington Taylor, Wooster, O.

BACHELOR OF SCIENCE

(In Horticulture and Forestry)

Frederick Jared Tyler, Perry, O.

BACHELOR OF SCIENCE

(In Domestic Science)

Laura A. Weisman, Columbus, O.

BACHELOR OF ARTS.

Eliza Daugherty Barcus, Columbus, O.; Homer Zurmehly Bostwick, Columbus, O.; J. Loring Courtright, Circleville, O.; George William Stimson, Columbus, O.; John Hervey Eagleson, Columbus, O.; Joseph Pentecost Eagleson, Columbus, O.; Arthur Byron Harward, Columbus, O.; George Melville Karshner, Columbus, O.; William Watts Parmenter, Mt. Vernon, O.; Mary Washington Rice, Columbus, O.; Charles Boyd Sayre, Columbus, O.; Fred Lant

Travis, Pana, Ill.; John Francis Travis, Green Camp, O.; Earle Downs West, Columbus, O.

BACHELOR OF PHILOSOPHY

(Latin Course)

Ida May Fisher, Columbus, O.; Anna Faye Howard, Columbus, O.; Richard Thomas Jones, Columbus, O.; Grace Lenore Pitts, Columbus, O.; Margaret Glaze Pulling, Columbus, O.; Mae B. Schaff, Columbus, O.; Lawrence David Thomas, Lancaster, O.; Harry Porter Weld, Marysville, O.

BACHELOR OF PHILOSOPHY

(Modern Language Course)

Edna Alice Address, Birmingham, O.; Frank Arthur Bohn, Olmsted Falls, O.; Charles Fuller Dowd, Toledo, O.; Hedwig Eloise Gamper, Columbus, O.; Victor Clarence Moon, Columbus, O.; Clara Maud Williams, Columbus, O.; Mary Grace Young, Mt. Vernon, O.

BACHELOR OF PHILOSOPHY

(English Course)

Royal Albert Abbott, Columbus, O.; Florence Louise Bell, Columbus, O.; James Henry Burgess, Big Horn, Wyoming; Alice Marie Connor, Columbus, O.; Ellen Josephine Connor, Columbus, O.; Dille Augusta Dill, Columbus, O.; Bertha Webb Eisenbeis, Columbus, O.; Ross Garfield Fox, Columbus, O.; Charles Welton Gayman, Canal Winchester, O.; Hattie DeLong Hoffman, Columbus, O.; Allen Brown Jaynes, Columbus, O.; Gordon Donald Kinder, Ottawa, O.; David Klein, Columbus, O.; Caroline Estelle Knight, Columbus, O.; Charles Howard Lisle, Pataskala, O.; Gretchen Pauline Miller, Columbus, O.; Raymond McCallum, Dayton, O.; Talmadge Archer Rickey, Columbus, O.; Carl Fletcher Roebuck, Dalton, O.; Dudley Scott, Columbus, O.; Charles Tod Singleton, Columbus, O.; Albertine Charleen Smith, Columbus, O.; Virginia Roletta Smith, Columbus, O.

BACHELOR OF SCIENCE.

Harvey Clinton Dollison, Columbus, O.; Wilbur Latimer Dubois, Cincinnati, O.; Fred James Jeffrey, Columbus, O.; Edgar Howard Moore, Columbus, O.; Walter Leffingwell Redrow, Williamsburg, O.; Raymond Jesse Seymour, Columbus, O.; Abner Andrews Osborn, Columbus, O.

CIVIL ENGINEER.

Harry William Bowden, Minerva, O.; Fred Kellogg Pratt, New Philadelphia, O.; Charles William Shepherd, Huron, O.

ENGINEER OF MINES.

Frank Stewart Knox, Columbus, O.; Albert B. Myers, Columbus, O.; John H. Nold, Columbiana, O.

MECHANICAL ENGINEER.

Andrew Francis Cavanaugh, Dayton, O.; George Winfield Frost, Columbus, O.; Harry Smithson Needham, Columbus, O.; William Abner Knight, Columbus, O.; Alfred Heber McIntire, Mt. Vernon, O.; William George Drummond, Cleveland, O.; Arthur Hollingshead Lyon, Wauseon, O.; Robert Rusk Harkins, Columbus, O.; Joseph Henry Vosskuehler, Dayton, O.

MECHANICAL ENGINEER

(In Electrical Engineering)

Alvin Earnest Buchenburg, Holgate, O.; William Clayton Hayman, Holgate, O.; Whitney Earl Lamb, Commercial Point, O.; Robert Rowse Dunlop, Columbus, O.; Charles Marion Nicholson, Columbus, O.; Madone Carington Hunter, Salt Creek, O.; Corliss Edgar Lee, Speidel, O.; Samuel Houston Kanmacher, Columbus, O.; Earl Stimson Johnson, Plants, O.; George Ernest Schreiber, Ironton, O.; Williard Beverly Marshall, Columbus, O.

ENGINEER OF MINES

(In Ceramics)

Walter Morgan Fickes, Steubenville, O.

BACHELOR OF SCIENCE

(In Chemistry)

Clarence Philander Linnville, Hagenbaugh, O.

BACHELOR OF LAWS.

Arthur Everett Addison, B. Ph., Columbus, O.; Clarence Maywood Addison, B. Ph., Columbus, O.; Frederic Ijams Bright, Logan, O.; Anthony Brackett Calvin, A. B., (Northeastern Ohio Normal College) Youngstown, O.; Charles Ross Cary, Millersburg, O.; Alfred Jacobs Croll, A. B., (Ohio Normal University) Tontogany, O.; Roscoe Bryant Darby, Wauseon, O.; D. Homer Graven, A. B., (Ohio Normal University) Nashville, O.; Winfield Scott Hancock, A. B., (Marietta College) Marietta, O.; Ellahue Ansile Harper, A. B., (Ohio Wesleyan University) Columbus, O.; Harry Hartman Hershey, A. B., (Mt. Union College) East Greenville, O.; Benson Walker Hough (as of class of 1899), Delaware, O.; Edward Lafayette Kellison, B. Ph., Quincy, O.; Quinton R. Lane, B. Ph., Canal Winchester, O.; Ingle Alman Morris, Columbus, O.; Clayton Asa McCleary, Ph. B., (Franklin College) Lorain, O.; Robert Edward McClure, Dayton, O.; Benjamin Di Nicola, Barnhill, O.; Allen J. Seney, B. Ph., (University of Michigan) (as of class of 1899) North Baltimore, O.; Amos Claude Stevenson, A. B., (Oberlin College) Fostoria, O.; Edwin Slusser Wertz, B. Ph., Dalton, O.; Lloyd Thomas Williams, B. Ph., Jackson, O.; Frank Wilson, B. S., (Scio College) Jolly, O.; Charles Hiram Woods, Chillicothe, O.; Paul B. Yockey, B. A., Columbus, O.

BACHELOR OF SCIENCE

(In Pharmacy)

Charles Hubbel Kimberly, Columbus, O.

DOCTOR OF VETERINARY MEDICINE.

Clarence Alfred Clawson, B. Sc., (Agr.) Okeana, O.; Harry James Hammond, Sharon Center, O.; William Eddy, Cleveland, O.; Charles James Morrow, Tiro, O.

NUMBER OF STUDENTS.

The enrollment of students during the year was as follows:

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE AND COLLEGE OF LAW.

First semester, 606; second semester, 564.

OTHER COLLEGES.

Fall term, 583; winter term, 546; spring term, 470.

ANNUAL REPORT

The whole number in attendance during the year as shown by the catalogue was 1252.

The numbers in the several colleges, departments and classes and the courses of study pursued in each are shown in the appendix to the president's report and in the catalogue filed herewith.

GIFTS DURING THE YEAR.

Besides those especially mentioned in the preceding pages of the report, the university has received by gift the following additions to its museums and collections:

DEPARTMENT OF AGRICULTURAL CHEMISTRY.

Set of products from soap works of Proctor & Gamble, Cincinnati, Ohio, packed in glass bottles and valued at \$5.00.

A set of products of the Chicago Sugar Refining Co., in twenty-four glass bottles, value \$10.00.

DEPARTMENT OF ELECTRICAL ENGINEERING.

Example of early Edison meter by H. W. Brooks, "02."

Circuit breaker by Cutter Electric Co.

Set of blue prints and photographs by St. Louis Car. Co.

Set of photographs by Ridgway Dynamo & Engine Co.

Set of samples of cables by National Cable Co.

Set of photographs by General Electric Co.

Set of armature coils by J. C. Lincoln.

DEPARTMENT OF INDUSTRIAL ARTS.

Eighty-two assorted files, for displaying case.

One 2 in. Sellars shaft coupling from Wm. Sellars Co.

One 2 in. Collins shaft coupling from Jones & Laughlin.

One sample tuyere from Buffalo Forge Co.

DEPARTMENT OF MECHANICAL ENGINEERING.

A quarter turn counter shaft from Mr. T. R. Almond, Brooklyn, N. Y.; an 18 in. hydraulic motor from American Impulse-Wheel Co., New York; a large mounted collection of samples of steel and iron drop forgings from The Billings & Spencer Co., of Hartford, Conn.; a sample boiler scale from Mr. O. F. Conover, Toledo, O.; one 3 in. sectional pop safety valve from the Crosby Steam Gage and Valve Co., Boston, Mass.; a large and complete collection of hangers, shafting, clutches and pulleys from the Dodge Mfg. Co., Mishawaka, Ind.; a set of small sections of the Wharton Harrison safety boiler from the Harrison Safety Boiler Works, Philadelphia, Pa.; a special lever and pop safety valve apparatus with steam gauge from the Lunkenheimer Co., Cincinnati, O.; one can of belt dressing from the Ploms Specialty Mfg. Co., Cleveland, O.; sectional models of exhaust steam injector and ejector from Schaffer & Budenburg, Brooklyn, N. Y.; a model of a universal joint from the Vanderbeek Tool Works, Hartford, Conn.

Besides the foregoing, acknowledgment is made for loan of a six horse power gas engine by the Springfield Gas Engine Co., Springfield, O.; a six horse power oil engine from the Aultman Co., of Canton, O.; a hardness testing machine, by Mr. W. J. Keep, Detroit, Mich.

Acknowledgment is made for samples of belting and belt fastenings presented by the following companies: Boston Belting Co., Boston, Mass.; Belting Co., Cincinnati, O.; Carton Belting Co., Quincy, Mass.; Detroit Oak Belting Co., Detroit, Mich.; Diamond Drill & Machine Co., Birdsboro, Pa.; Diamond Rubber Co., Akron, O.; Oliver P. Clay Co., Cleveland, O.; Fayerweather & Ladew, New York, N. Y.; The Malin & Co., Cleveland, O.; Chicago Rawhide Mfg. Co.; Chicago, Ill.; New York Belting and Packing Co., New York, N. Y.; Page Belting Co., Concord, N. H.; Revere Rubber Co., Boston, Mass.; J. E. Rhoades & Sons, Philadelphia, Pa.; Rossendale-Reddaway Belting & Hose Co., Newark, N. J.; Sampson Steel Belt Hook Co., Philadelphia, Pa.; Chas. A. Schieron & Co., New York, N. Y.; Schultze Belting Co., St. Louis, Mo.; William Sumner Belting Co., Tolland, Conn.; W. O. Talcott, Providence, R. I.; and blue prints from the following companies; Atlas Engine Works, Indianapolis, Ind.; Baldwin Locomotive Works, Philadelphia, Pa.; Ball & Wood Co., New York, N. Y.; Bates Machine Co., Joliet, Ill.; C. H. Brown & Co., Fitchburg, Mass.; C. & G. Cooper Co., Mt. Vernon, Ohio; W. D. Forbes & Co., Hoboken, N. J., Hooven, Owens & Rentschler, Hamilton, O.; Fraser & Chalmers, Chicago, Ill.; Lane & Bodley, Cincinnati, O.; Mason Regulator Co., Boston, Mass.; Nordberg Mfg. Co., Milwaukee, Wis.; Philadelphia Engineering Works, Ltd., Philadelphia, Pa.; Ross Valve Co., Troy N. Y.; Watertown Steam Engine Co., Watertown, N. Y.; Vilter Mfg. Co., Milwaukee, Wis.; Watts-Campbell Co., Newark, N. J. Cuts of different styles of air compressors were presented by The Rand Drill Co., and descriptive catalogues were sent by The C. W. Hunt Co., of New York, N. Y.; The Ridgway Dynamo & Engine Co., of Ridgway, Pa.; B. F. Sturtevant Co., Boston, Mass., and the R. D. Wood Co., of Philadelphia, Pa.

ESTIMATES.

The following are the estimates for the year ending June 30, 1901:

Salaries	\$167,760 00
Bonds and interest.....	40,037 50
Expenses of trustees.....	600 00
Fuel and lights.....	8,500 00
General repairs	5,500 00
Maintenance and repairs heat, light and power plant.....	4,200 00
Printing and advertising.....	3,000 00
Roads and grounds.....	1,500 00
Virginia military lands.....	3,500 00
Residence for astronomer.....	2,250 00
Library	5,500 00
Chemical store room supplies.....	4,250 00
Water rates	1,200 00
Department apparatus and supplies.....	24,985 00
Incidentals	4,500 00
Total	\$277,282 50

Which will be amply met by the anticipated income of the university.
The reports of the president, the librarian and the treasurer are
filed herewith and made a part of the report.

Respectfully submitted,

ALEXIS COPE, Secretary.

REPORT OF THE PRESIDENT.

Hon. J. McLain Smith, President of the Board of Trustees, Ohio State University,

DEAR SIR:— I have the honor to submit herewith the annual report of the President of the University for the year ending June 30th, 1900.

The year has been marked by a most cordial cooperation of the Faculty with the President in carrying forward the work of the University. The routine work of the University has suffered no interruption worthy of note in this connection. The instruction in the various departments has been of a high grade and the results of the year are most gratifying to the friends of education.

The death of Professor Edward Orton, Ph. D., LL. D., which occurred on the sixteenth day of October, 1899, removed from the University one of the most beloved instructors the University has ever had. Dr. Orton was the first president of the University, serving in that capacity from 1873 until 1881 when he voluntarily resigned the executive duties to continue in the work of teaching. He remained as Professor of Geology until his death. Few men in Ohio have made so deep an impression upon their students. His noble character, his broad and accurate scholarship, his sympathy with students and his untiring devotion to his work united to make Professor Orton not only a commanding figure among the educational forces of the country but a man beloved by all who knew him. He served as state geologist from 1869 until his death with conspicuous ability. The University has published in pamphlet form the addresses delivered at the memorial services held in the University Chapel, Sunday, November 26th, 1899.

The enrollment of students for the year was the largest in the history of the University and reached the number twelve hundred and fifty-two. Of this number eleven hundred and ninety-seven were from the state of Ohio, representing eighty-seven counties, and the remaining fifty-five were from eleven different states of the Union, from the province of Ontario, from the District of Columbia and from Cuba. The widespread territory from which the University draws its students is a matter of interest and satisfaction.

Among the changes pertaining to the Faculty I note the change of rule made by the Trustees providing for an advance in rank of teachers. Hitherto it has been the custom to bring a teacher to the rank of full professor only when he was the head of a department and had earned the right to such a rank by conspicuous scholarship and success in his work. The new rule provides that men may come to the rank of full

professor without the necessity of creating new departments when the demands within the department and the experience and success of the teacher render the promotion desirable. This makes it possible to give to men who have devoted their lives to instruction a suitable rank and title when appropriate. This action is commended by the Faculty and cannot fail to produce good results in the future. For the changes in titles in the Faculty to take effect July 1st, 1900, reference is made to pages 25 and 26 of part second of this report.

The University battalion has, for the year, been under the efficient supervision of Major James Madison Burns, U. S. A., retired. During the year a considerable increase in the equipment was provided by the War Department. It was with deep regret that we learned of Major Burns' desire to be relieved of duty at the Ohio State University in order to accept a similar position at the University of West Virginia. Upon request of the Board of Trustees, Captain George L. Converse, U. S. A., retired, was detailed to serve in this position.

At the Commencement, June 13th, the University conferred one hundred and thirty-seven degrees. A detailed account of these degrees will be found in the report of the Secretary of the Board of Trustees.

THE GROWTH OF THE UNIVERSITY.

The year just closed has been marked by the largest attendance in the history of the University. This fact has brought clearly to view the needs of the immediate future. Notwithstanding the fact that the past five years have witnessed a very considerable development in the buildings of the University it is plain that a greater development is now a pressing necessity.

The legislature in session during the year with great unanimity provided for a special levy of five one-hundredths of a mill in addition to the levy heretofore made with the provision that the proceeds of the additional levy should be used for the construction of buildings. This will provide for a building for the College of Law and for a building for the department of Physics. These buildings have been a necessity for some time and their erection will prove a great relief to the present crowded quarters now much in demand for other purposes.

In the matter of other new buildings it is difficult to decide which are most needed. With no attempt to settle the question of priority I beg to suggest that the growth of the College of Engineering will soon make it impossible to provide for so large a number properly without a building of suitable plan and size. The need of a building for a library is evident to all departments. The equipment of the University in this particular is entirely too meager to satisfy the reasonable demands, to say nothing of the importance of providing first class facilities.

The departments of Botany and Horticulture need better facilities and the efficiency of the departments will be crippled to a considerable degree until the limitations are removed.

The development of interest in Veterinary Medicine — especially in sanitary lines — has shown that an increasing demand for educated veterinarians may be expected. About half of the graduates of this College are now in the service of the United States. To carry on the work of this College as it ought to be done it will be necessary to provide for advanced scientific work, which can not be done with the present facilities. Suitable buildings are the foundation for the work to which I refer.

A WOMAN'S BUILDING.

The need of a woman's building is apparent to every one. The provision by law for women at the University does not wholly meet the needs. Something ought to be done to make provision for young ladies upon the campus for a general headquarters and for a home. The increase of students has made the difficulty of securing suitable accommodations for young ladies greater. The attendance of women is hindered by the lack of accommodations. It would seem that when the state has provided the means of education it might be well to make them more available.

THE ENLARGEMENT OF BUILDINGS.

It is not possible to foresee the growth of a university. Already the University has outgrown the expectations of many of its friends. The present roll of students taxes to the utmost the buildings. In the case of Hayes Hall the present accommodations for the department of drawing are insufficient and overcrowded. At least ten thousand dollars should be expended in the enlargement of this building. Plans for enlargement have been suggested by Professor Bradford that are in harmony with the architectural design. These additions would greatly increase the efficiency of the department.

The Chemical Hall has already proved too small. The freshman class of the present year, to the number of two hundred and sixty, was required to pursue the study of Chemistry. In addition to this may be mentioned all the advanced and elective work. Any further increase in students will render the building entirely inadequate to meet the needs. An addition of at least one hundred feet to the north of the present structure should be made.

The lack of funds for these needed enlargements and improvements makes the problem of administration more embarrassing as the patronage of the University increases.

THE DEPARTMENTS.

The several departments of the University find as the University grows an increasing demand for larger and more complete equipment. The growth and efficiency of a university depends to a large degree upon the condition of its material equipment. In an institution like the State University where scientific and technical education is so prominent there is no practical limit to the money that may be wisely expended in improv-

ing the facilities for education. The growth of the Ohio State University has been very commendable in this particular owing to an intelligent and liberal supervision of the Trustees. However, with every new year new needs arise. I cannot make mention now of the detailed needs in the departments, but make special mention of the fact that the department of electrical engineering needs a considerable equipment in the way of new machinery. In electrical apparatus it is both desirable and necessary that the latest improvements be a part of the equipment. This is an item of considerable expense as the machinery is seldom worn out but usually replaced by newer and better patterns.

In the department of Astronomy considerable progress has been made during the past year in the material equipment. The work has developed the need of a zenith telescope, such as could be purchased for ten or twelve hundred dollars; a house for the same at the cost of about five hundred dollars; a sidereal chronometer at a cost of one hundred dollars; three theodolites at a cost of about one thousand dollars and some smaller items. The importance of astronomical science and the place taken by the University through the efficiency of Professor H. C. Lord abundantly warrant the additional equipment so much needed.

I beg to submit a statement from Prof. J. R. Smith as follows:

"The Board of Trustees has recognized the claims of aesthetics on the institution by adopting a general plan of grounds and buildings, laid down by a professional expert; to which the arrangement must conform; and although opinions must be permitted to differ as to the success of details, there can be no question as to the necessity of some such general plan.

I would respectfully urge the equal claim of the fine arts, historically considered, to recognition at the hands of those who govern the affairs of this growing institution. Architecture, sculpture and painting have been too closely connected with the advance of civilization to be ignored in any schemes of study which deal with the achievements of man in history; and the great improvements and multiplication of reproductive processes have made it possible to present to the eyes of students, in orderly succession, the history of these arts (especially of the first two) with a graphic success not achieved before. The teaching of language, literature, history, architecture and engineering would be much helped and stimulated by access to an even moderately equipped museum containing reproductions of the masterpieces of art."

"The following suggestions towards a working plan are herewith respectfully submitted:

1. In one of the new buildings now contemplated, or in those portions of University Hall soon to be vacated by the College of Law and the Department of Physics, let a room, with office attached, be set aside for a museum of art. To prepare this room properly (as to light,

wall-color, etc.) would cost no more than for any other university purpose.

2. With an appropriation of from \$500 to \$1,000 a small but educationally valuable collection of plaster casts and photographs could be purchased as the permanent nucleus of the proposed museum. There are also scattered through the various buildings a number of such objects, whose custodians might be glad to transfer them to such a room, where they could have proper care.

3. The care of the collection might, for the present, be vested in an individual or a committee of the Faculty; who should have full charge of the arrangement of the objects in the museum, the purchase of all art-works, and the right to accept or decline any gifts."

I cheerfully join in the suggestions and recommendations made by Professor Smith and call attention to the importance and desirability of developing the plan outlined.

THE DEPARTMENT OF MECHANICAL ENGINEERING.

During the current year Professor Stillman W. Robinson whose term of service dates from 1878 has made a generous contribution to the department in which he has served so conspicuously. By adding to the equipment for experimental engineering one of the best appointed testing boilers manufactured, Professor Robinson has not only greatly increased the facilities for work but has earned the grateful recognition of the University for his generosity.

CONCLUSION.

In concluding this report I cannot refrain from an expression of appreciation of the fidelity manifested by the Trustees in administering the trust reposed in them. It is also a pleasure to note the increasing appreciation of the work of the University by the people of the State.

My personal acknowledgment is due for the cordial reception given me at the beginning of my work and for the hearty cooperation of both the Trustees and Faculty in carrying it forward.

Very respectfully,

W. O. THOMPSON.

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
AGRICULTURE.									
Breeds of Live Stock (8)†.....	3			2			32		
Principles of Breeding (9).....		3			2			30	
Stock feeding and Hygiene (10).....			3			2			35
Farm Equipment (11).....	3			2			19		
Soils (12).....		3			2			20	
Farm Crops (13).....			3			2			16
Butter Making and Cheese Making (15).....		2			8			14	
Dairy Farming (5).....		2			2			23	
Butter Making and Cheese Making (6).....					16			23	
Butter Mak'g and Cheese Mak'g (7, 15).....		2			8			23	
Special.....					1			8	
Thesis.....					2	2	8	8	8
AGRICULTURAL CHEMISTRY.									
Principles, Nomenclature, etc. (1).....	2			36			55		
Organic Chemistry (8).....		2			36			55	
Applications of Chemistry to Agr. (9).....			2			36			49
Laboratory (4).....		2		36	36	36	13	13	5
Chemistry of Milk and Milk-testing (7).....		2						22	
ANATOMY AND PHYSIOLOGY.									
Human Anatomy and Physiol. (1, 51, 52).....	6	6	6	5	5	4	73	66	72
General Physiology (2).....			3			1			11
Histology and Hist-Chemistry (59, 4).....	2	2	2	10	10	10	13	12	12
Physiological Laborat'y (53, 54, 55, 56).....	1	1	2	10	7	10	9	10	13
Bacteriology.....		2			8			57	
Microscopy (5, 58).....			1			3			13
Thesis and Similar Work.....				3	3	3	6	6	6
Chemical Physiology (3).....			1			6			7
ASTRONOMY.									
Astronomy and Geodesy (2).....	4		4				7		11
General Astronomy (52).....			5						7
Advanced Astronomy (55, 56).....	2						2		
Astronomy (54).....		5						1	
Meteorology (60).....			2						18
Thesis and similar work.....									

† The figures in brackets are the department numbers—for which see Part II of this report

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
BOTANY.									
Physiological Botany (6).....	3			8			29		
Medical Botany (4).....					4			3	
Medical Botany (56).....					4			9	
Systematic and Physiological Bot'y (55)	2			8			18		
Physiological Botany (53, 6a).....	3			4			12		
Physiological and Economic Botany (7)		3			8			27	
Laboratory Work (57, 58, 60, 64, 66)...				6		10	11		13
Elementary Botany (1).....			3				12		65
Economic Bot'y and Veg. Pathology (8)			3				8		22
Spe'ial and Adv'ced Work (59, 61, 63, 65)				10			5		
CLAY WORKING AND CERAMICS.									
Ceramic Chemistry (8, 3).....			1	10	15			1	5
Lectures (4).....	5						3		
Analysis of Clays and Minerals (2).....		1		15				7	
Lectures (6).....			5						4
Analysis of Glasses and Glazes (1, 7)...	1			15			7		
Manufacture of Bricks (5).....		5						3	
Thesis and Similar Work.....				20	30	25	1	2	2
Laboratory (9, 10, 11).....				20	20	10	2	2	1
Cement Lectures (12).....		5						12	
Ceramic Structures (13).....		1		4				2	
CHEMISTRY.									
Elementary (51, 52).....	3	3		7	7		58	62	
Elementary (7).....	11	11		62	61		204	152	
Qualitative Analysis (12).....			1			18			37
Qualitative Analysis (53).....	1			4			10		
Quantitative Analysis (55, 56, 4).....	2	2	3	18	18	15	16	15	20
Organic (57, 58, 8, 9).....	5	1	1	8	5	15	13	13	
Advanced Chemistry (59, 60).....				4	4		6	5	
Applied Chemistry (16).....		4						4	
Toxicology (11).....			4						7
Thesis and Similar Work.....					6			8	
Inorganic Preparations (61a, 17).....	1			6			7		
Sanitary Analysis (15).....			2			5			7
CIVIL ENGINEERING.									
Land surveying (1).....	10			30			29		
Topography (4).....		1			15			22	
Railroad Surveying (2).....			10			30			21
Topographical Surveying (3).....	1			10			8		
Working Drawing in Ry. Const'n (5)...		$\frac{1}{2}$			15			11	
Stereotomy (6).....		3			15			13	
Bridge Strains (7).....			5						12

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
CIVIL ENGINEERING—Concluded.									
Bridge Designing (8).....	24			10			5		
Civil Engineering Laboratory (14).....					12			7	
Sanitary Engineering (10).....			5						8
Masonry Construction (15).....	5						6		
Highways (16).....		5						10	
Water Supply (18).....		5						7	
Trusses (19).....			2			6			9
Surveying (21).....			2			4			8
Thesis and Similar Work.....				8	5	10	5	5	5
Roof Trusses (20).....	2			6			1		
DOMESTIC SCIENCE.									
Domestic Economy (7, 8, 9).....	1	1	1	6	6	6	7	7	8
Domestic Economy (1, 2, 3).....	1	2	1	12	12	12	23	18	17
Domestic Economy (4, 5, 6).....	1	1	1	6	6	6	19	15	16
Domestic Economy (10).....			1						21
DRAWING.									
Freehand Drawing (1).....				20	20	7	206	175	17
Lettering (2).....						18			134
Mechanical Drawing (3).....	2	4	3	10	12	12	99	92	80
Draughting and Blue Printing (4).....		1			4			5	
Photography (7).....	1		2	4		8	14		25
Mechanical Drawing (8).....	1	1		2	2		9	7	
Mechanical Drawing (10).....	2			4			52		
Mechanical Drawing (11).....		1			8			1	
Clay Modeling (12).....					4	4		5	4
Pen Drawing (14).....				4		4	5		9
Domestic Architecture (15).....		1	1		4	2		12	9
Technical Drawing (5).....	1			6			20		
Orders of Architecture (1).....		2			6			4	
Styles of Architecture (2).....			2			6			4
Decoration and Ornament (5).....		1			4			1	
Drawing (19).....			1			9			26
Architecture (6).....			2			6			1
Architecture (8).....			2			6			1
Arts (17, 18).....	1	1		2	4		12	16	
Architecture (3).....	1	1	1	8	8	8	1	1	1
Architecture (4).....	2						1		
Architecture (7).....		3			4			1	
Drawing (16).....			1			4			14

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory					
	First Term	Second Term	Third Term	First Term	Second Term	Third Term	First Term	Second Term	Third Term
*ECONOMICS.									
Elements of Political Economy (51, 52)	4	4	....	2	2	....	64	80	....
Practical Problems in Economics (55)...	2	....	....	....	....	....	28	....	....
Industrial and Social Reforms (56).....	....	2	....	....	....	....	....	33	....
Ind'ial and Fin'ial His'y of the U. S. (60)....	....	2	....	....	....	....	....	21	....
Seminary (61, 62).....	2	2	....	....	....	....	11	11	....
Industrial Society (53).....	2	....	....	....	....	....	21	....	....
Sociology and Statistics (63, 64).....	1	1	....	4	....	....	12	11	....
Commercial Geography (65).....	2	....	....	....	....	....	10	....	....
Thesis .....	....	....	....	2½	5	....	10	10	....
Socialism (54) .....	....	2	....	....	....	....	....	17	....
ELECTRICAL ENGINEERING.									
Electrical Engineering (2).....	5	5	5	....	....	....	10	10	10
Electrical Designing (3).....	....	....	....	6	6	6	9	10	10
Electrical Laboratory (4).....	....	....	....	9	9	9	9	7	10
Electrical Engineering (6).....	2	2	....	....	....	....	24	20	....
Electrical Engineering (7).....	....	....	....	12	12	....	24	20	....
Thesis .....	....	....	....	....	....	2	....	11	11
Special .....	....	....	....	....	....	6	....	....	2
*ENGLISH LITERATURE.									
Introduction to Eng. Literature (51, 52)	8	8	....	....	....	....	76	42	....
The English Bible (55, 56).....	1	1	....	....	....	....	15	14	....
Shakespeare (57)	3	....	....	....	....	....	12	....	....
The Modern Novel (59).....	6	....	....	....	....	....	32	....	....
From Dryden to Johnson (61).....	2	....	....	....	....	....	7	....	....
Chaucer (67)	2	....	....	....	....	....	8	....	....
Masterpieces (65, 66)	3	3	....	....	....	....	13	11	....
Thesis Work .....	....	....	....	2	7	....	5	8	....
Literary Problems (69, 70).....	2	2	....	....	....	....	10	9	....
Victorian Prose (71).....	3	....	....	....	....	....	11	....	....
Elizabethan Drama (58).....	....	3	....	....	....	....	....	13	....
The Drama Since the Restoration (60)....	....	2	....	....	....	....	....	22	....
American Authors (62).....	....	6	....	....	....	....	....	50	....
Victorian Poetry (72).....	....	3	....	....	....	....	....	13	....
*EDUCATION.									
Elementary Educat'l Psychology (51)...	4	....	....	....	....	....	24	....	....
Modern Educational Theories (52).....	....	4	....	....	....	....	....	19	....
History of Education (53).....	4	....	....	....	....	....	13	....	....
The Herbartian Pedagogy (55).....	2	....	....	....	....	....	4	....	....
Philosophy of Education (58).....	....	4	....	....	....	....	....	15	....
Plato's Republic (54).....	....	2	....	....	....	....	....	10	....
Educational Value (67).....	....	2	....	....	....	....	....	11	....
Child Study (59).....	2	....	....	....	....	....	7	....	....
Scientific Method (69).....	2	....	....	....	....	....	....	15	....
Pedagogical Research (72).....	....	2	....	....	....	....	....	5	....

* Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
GEOLOGY.									
Elementary Geology (4).....		5			3			7	.....
Cosmical Geology (2, 51).....	5	5		2	2		44	35	.....
Paleontology (53, 54).....				8	18	17	3	6	5
Petrography (55, 56).....				6	6	6	2	2	2
Physical Geography (1).....			5						25
Economic Geology (3).....			5						11
Field Term						8			12
GERMAN LANGUAGE AND LITERATURE.									
Elementary German (1, 51, 52).....	16	16					143	106	.....
Science Reading (2, 53, 54).....	2	2					25	18	.....
German Literature (4, 55, 56).....	8	8					51	51	.....
The German Drama (57).....	3						14		.....
The German Prose (58).....		3						14	.....
Faust I—(59)	2						2		.....
Deutsche Kulturgeschichte (64).....		1						5	.....
Old High German (68).....	2						2		.....
Mediaeval Lyrics (62).....		2						4	.....
Deutscher Aufsatz (63).....	1						5		.....
Middle High German (61).....	2						7		.....
Sanskrit (71)	2						1		.....
Gothic (67)	2						3		.....
*GREEK LANGUAGE AND LITERATURE.									
Elementary Greek	5	5					10	9	.....
Xenophon's Memorabilia (51).....	4						37		.....
Odyssey (52)		4						34	.....
Lysias (53)	4						17		.....
Homer (54)		4						15	.....
Ancient Art (59, 60).....	2	2					26	24	.....
Attic Drama (68).....		2						8	.....
Graduate	$\frac{1}{2}$	$\frac{1}{2}$					1	1	.....
*HISTORY AND POLITICAL SCIENCE.									
HISTORY.									
General History of Europe to close of Middle Ages (51).....	6						81		.....
From close of Middle Ages to French Revolution (52).....		6						69	.....
Political and Constitutional History of England to the Accession of the Stuarts (53)	3						28		.....

* Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
*HISTORY AND POLITICAL SCIENCE.									
— Concluded.									
HISTORY.									
From Accession of Stuarts to Present Time (54)		3					19		
Political and Constitutional History of United States (55, 5, 56).....	8	8					63	46	
History of Europe from 1789 to 1815 (57).....	3						7		
History of Europe since 1815 (58).....		3						10	
History of European Colonies (67, 70).....	2	2					6	6	
Pro-Seminary (61, 62).....	2	2					18	18	
American Colonial History (63).....		3					45		
United States Colonial and Constitutional History (64).....		3						48	
Historical Bibliography (72).....		1						26	
POLITICAL SCIENCE.									
International Law (51).....	2						29		
Municipal Government (52).....		2						21	
Political Institutions of the United States (53)	3						30		
Comparative Political Institutions of Europe and America (54).....		3						26	
History of Diplomacy (56).....		2						21	
Thesis Work				4	4		14	14	
HORTICULTURE.									
Elements of Horticulture (1).....	2	2	2	4	4	4	22	6	17
Pomology and Viticulture (5).....	2			4			4		
Vegetable Gardening and Seed Growing (6)		3			2			15	
Small Fruit Culture (7).....			3			3			10
Elements of Floriculture (8).....	1			2			4		
Commercial Floriculture (9).....		2			2			8	
Home Flower Gardening (10).....			1			2			5
Arboriculture (11)	2			2			8		
Forestry (12)		2			2			9	
Landscape Gardening (13).....			1			2			7
Special		2			1			2	
INDUSTRIAL ARTS AND SHOPWORK.									
INDUSTRIAL ARTS.									
Advanced Designing (4).....				6	6	6	1	1	1
Machine Design (7).....						6			6
Workshop Appliances (5).....			6						8
Shop Equipment (3).....	3	3	3				1	1	1

* Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
SHOPWORK.									
Carpentry and Pattern Making (7, 1).....				10	9	16	44	37	46
Forging (11, 2).....				10	13	12	39	45	35
Foundry Work (3).....				4			30		
Chipping and Filing (4).....				10	6	6	25	40	19
Machine Work (13).....				6	6	6	9	3	19
Advanced Machine Work (14).....				6	6	6	8	4	2
Advanced Pattern Making (9).....						6			2
Advanced Forging (12).....						6			2
Advanced Machine Work (15).....				4	8	6	1	4	6
Cabinet Work (8).....					6			11	
Thesis								5	3
*LATIN.									
Cicero, Livy (51).....	8						62		
Plautus, Terence (52).....		8						56	
Horace (53).....	8						31		
Juvenal, Pliny (54).....		8						26	
Roman Historians (55).....	3						11		
Elegiac Poets (56).....		3						12	
Pharmaceutical (1, 59, 60).....	5	5					22	15	
Thesis and Similar Work.....					2			1	
Prose Composit'n and Tr'slat'n (63, 64).....	2	2					10	5	
Greek and Roman Antiquities (67).....	2						7		
MATHEMATICS.									
Elementary Algebra (1).....	5						13		
Elementary Algebra (2).....	5	5	5				17	19	15
Plane Geometry (3, 3a).....	10	5					30	25	
Solid Geometry (13).....		10						40	
Plane Trigonometry (14).....	25		10				182		29
Analytical & Spherical Trigonom'ty (15).....		10						141	
College Algebra (16).....		15						146	
Plane Analytics (17).....			25						129
Space Analytics (18).....	20						98		
Differential Calculus (19).....		20						86	
Integral Calculus (20).....			20						80
Differential Equations (11).....	2						19		
Least Squares (8).....	2						11		
*MATHEMATICS.									
College Algebra (67).....	15						119		
Problems on all Past Work (65, 66).....	1	1					4	3	
Advanced Mathematics (63, 64).....	5	5					10	5	
Trigonometry (68).....		12						87	
Special		5						4	

* Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
MECHANICAL ENGINEERING.									
Mechanism (3)		5				4	20	9	
Analytical Mechanics (6).....	10	10					26	25	
Strength of Materials (7).....			5						24
Thermodynamics (8)	5						18		
Prime Movers (9).....		5						19	
Machinery and Millwork (10).....			5						19
Experimental Laboratory (12, 13, 14, 15, 16, 17).....		1		12	12	10	14	16	14
Machine Design (18).....	5	5					9	9	
Hydraulic Machinery (20).....			3						9
Timber and Masonry (22).....		5						8	
Experimental Eng'ring Laboratory (25).....						10			6
Experimental Eng'ring Laboratory (28).....						4			7
Materials of Construction (23).....	5						8		
Power Plants (32).....			5						12
Graduate Work	4	4		10	10	6	4	3	1
Care of Boiler and Engine.....		1						26	
Theses (21)				2	6	20	10	9	9
METALLURGY AND MINERALOGY.									
Metallurgy (4)	5	5					15	12	
Metallurgical Laboratory (5).....	1	1	1	10	10	10	28	19	25
Ore Dressing (8).....	2						4		
Assaying (6)		1			10			14	
Mineral Chemistry (9).....			5						4
Mineralogy (2)			3						65
Determinative Mineralogy (3).....						10			7
Thesis and Similar Work.....						3			3
Metallurgical Construction (7).....		1			10			4	
MILITARY TACTICS AND SCIENCE.									
Military Drill							400	344	281
Tactics		2						86	
MINE ENGINEERING.									
Mine Surveying (1).....	5			9			8		
Ventilation and Haulage (2).....		5			3			5	
Mine Engineering (5).....	5	5	5	2	3	1	5	5	5
Mine Operating (3).....			5			2			4
Mine Surveying (4).....	5			9			3		
Mine Engineering (6).....			1			8			4

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
PHARMACY.									
Pharmacy (6) (7).....	3	2		10			21	8	
Dispensaries (8).....			2		10				18
Pharmaceutical Chemistry (9).....	3			10			8		
Extemporaneous Chemistry (10).....		2		10			8		
Lectures and Dispensing Practice (11).....			2			10			8
Materia Medica (12) (13).....	3	3					11	9	
Materia Medica and Therapeutics (14).....			3						7
Pharmaceutical Assaying (15).....	2			10			8		
Methods of Manufacture (16).....		2		10	10		8		
Pharmacy (18) (Vet. Students).....			5						4
Special (17).....				10			1		
*PHILOSOPHY.									
Psychology (51).....	4						45		
Psychology (53).....	3						46		
Logic and Ethics (52).....		4							45
Logic (54).....		6							43
History of Modern Philosophy (56).....		3							14
His. of Ancient and Medieval Phil. (57).....	3						4		
Advanced Work (59) (60).....	2	2					6	5	
Physiology & Exp. Psychology (61) (62).....	2	2		4			8	5	
Study of Religion (63) (64).....	4	2					3	3	
Special.....	6	1					1	1	
Ethics (55).....	3						13		
PHYSICAL EDUCATION.									
Young men.....				44	44	44	564	564	564
Young women.....				16	16	16	85	85	85
PHYSICS.									
Elementary Physics (1).....	10	10					101	81	
Mechanics and Heat (2) (51) (52).....	7	7	6				131	116	108
Problems (3).....	2	2	2				31	24	24
Electricity and Magnetism (4).....	3						11		
Physical Laboratory.....				45	45	45	13	60	56
Mechanics, Sound and Heat (53).....	1			12			26		
Electricity and Magnetism (54).....		1		10				26	
Special.....		2						4	
*RHETORIC AND ENGLISH LANGUAGE.									
Paragraph Writing (51) (5).....	30						385		
Practical Rhetoric (5) (52).....		27						364	
Analysis of Prose (53) (54).....	8	8					38	47	
Advanced Rhetoric (3) (63) (64).....	4	4					79	68	

* Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Continued.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
*RHETORIC AND ENGLISH LANGUAGE.									
— Concluded.									
Rapid Writing (55) (56).....	1	1	.....	4	4	.....	33	33	.....
Brief Making and Argument (57).....	3	.....	.....	.....	.....	.....	23	.....	.....
Short Stories (60).....	.....	2	.....	.....	.....	.....	.....	21	.....
Poetics (59).....	2	.....	.....	.....	.....	.....	16	.....	.....
Studies in Exposition (58).....	.....	3	.....	.....	.....	.....	.....	18	.....
Rhetorical Theory & Criticism (61) (62)	2	2	.....	10	10	.....	14	11	.....
Teacher's Course (67) (68).....	2	2	.....	.....	.....	.....	47	40	.....
History of the English Language (69).....	2	.....	.....	.....	.....	.....	58	.....	.....
Old English (71) (72).....	2	2	.....	.....	.....	.....	25	22	.....
Middle English Philology (73).....	2	.....	.....	.....	.....	.....	7	.....	.....
Historical English Grammar (74).....	.....	2	.....	.....	.....	.....	.....	5	.....
Development of Prose (70).....	.....	2	.....	.....	.....	.....	.....	40	.....
Extempore Speaking (75) (76).....	2	2	.....	.....	.....	.....	22	19	.....
*ROMANCE LANGUAGES.									
FRENCH									
Elementary French (1) (51).....	16	.....	.....	.....	.....	.....	173	.....	.....
Modern Prose and Plays (1) (52).....	.....	16	.....	.....	.....	.....	.....	140	.....
Modern French Literature (55) (56) (2)	8	8	.....	.....	.....	.....	71	65	.....
Recent French Prose Writers (58).....	.....	3	.....	.....	.....	.....	.....	15	.....
Advanced Prose Composition (59) (60)	1	1	.....	.....	.....	.....	12	11	.....
French Comedy (57).....	3	.....	.....	.....	.....	.....	16	.....	.....
French Seminary (63) (64).....	3	3	.....	.....	.....	.....	10	8	.....
Thesis and Similar Work.....	.....	.....	.....	2	2	.....	.....	.....	.....
Scientific French (53) (3) (54).....	2	2	.....	.....	.....	.....	16	9	.....
SPANISH									
Grammar and Readings (51) (52).....	2	2	.....	.....	.....	.....	15	16	.....
VETERINARY MEDICINE.									
Anatomy (28).....	5	.....	.....	.....	.....	.....	17	.....	.....
General Pathology (29).....	.....	5	.....	.....	.....	.....	.....	17	.....
Special Pathology (30).....	.....	.....	5	.....	.....	.....	.....	.....	17
General Surgery (24).....	.....	.....	.....	10	10	.....	6	6	.....
Clinic (19).....	.....	.....	.....	12	12	12	11	11	13
Special Pathology (20) (21).....	5	3	.....	.....	.....	.....	9	9	.....
General Therapeutics (22).....	.....	.....	5	.....	.....	.....	.....	.....	6
Lectures and General Pathology (14).....	5	.....	.....	.....	.....	.....	13	.....	.....
Osteology (11).....	5	.....	.....	10	.....	.....	7	.....	.....
Meat Inspection (27).....	5	.....	.....	.....	.....	.....	9	.....	.....
Special Pathology (15) (16).....	.....	5	5	.....	.....	.....	.....	10	9
Diseases of the Cow (17).....	.....	3	.....	.....	.....	.....	.....	22	.....

* Semester work.

TABLE I—THE WORK OF INSTRUCTORS, 1899-1900—Concluded.

Subjects	Hours per week						Number of students		
	Lectures			Laboratory			First Term	Second Term	Third Term
	First Term	Second Term	Third Term	First Term	Second Term	Third Term			
VETERINARY MEDICINE—Concl'd.									
Surgical Diseases and Operations (18)	5	5	.....	.....	.....	.....	6	5	.....
Myology (12)	.....	5	.....	.....	10	.....	.....	6	.....
Neurology (13)	.....	.....	5	.....	.....	.....	.....	.....	6
Principles of Horse-shoeing (26)	.....	.....	5	.....	.....	.....	.....	.....	7
Obstetrics (23)	.....	3	3	.....	2	.....	.....	12	6
Canine Disease (31) (32)	5	3	.....	.....	.....	.....	8	8	.....
Ophthalmology (33)	.....	2	2	.....	.....	.....	.....	9	6
ZOOLOGY.									
Comparative Zoology (1, 51, 52)	4	4	4	8	8	8	86	80	80
Com. Anatomy of Vertebrates (53, 55)	1	.....	.....	12	.....	.....	10	.....	.....
Com. Anatomy of Vertebrates (54, 56)	.....	1	.....	.....	12	.....	.....	6	.....
Zoology and Anatomy (58, 60)	.....	.....	.....	.....	10	.....	.....	5	.....
Economic Entomology (4)	2	2	2	.....	.....	.....	12	11	11
Systematic and Practical Entomology (7)	.....	.....	3	.....	.....	.....	.....	.....	11
Comparative Zoology (64)	.....	2	.....	.....	4	.....	.....	23	.....
Zoology (57)	.....	.....	.....	6	.....	.....	5	.....	.....
Zoology (65)	.....	.....	.....	4	4	.....	2	2	.....

TABLE II—SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY.

	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.	1899.	1900.	
Bachelor of arts.....	1	1	6	2	2	1	5	4	6	8	6	1	7	2	6	9	12	19	13	17	18	8	14	
Bachelor of philosophy.....				2		2	2	1	1	2	6	7	4	8	8	5	5	19	26	27	27	31	38	
Bachelor of science.....	5	5	1	2	5	3	2	4	2	4	4	8	2	10	7	11	7	9	4	10	10	2	7	
Bachelor of science in agr.....								1	1									2	4	4	5	5	7	
Bachelor of science in chemistry.....																						1	1	
Bachelor of science in Dom. Sci.....																							1	
Bachelor of science in H., F.....																1	3	1	1	1	1	2	1	1
Bachelor of Science, Ind. Arts.....																					1	1		
Bachelor of science in Pharmacy.....																							1	
Civil engineer.....						1	1	1	3	3	4	1	2	2	7	9	7	9	11	4	8	7	3	
Mechanical engineer.....		1		2	4	1	3	1	2	4	2	3	2	5	2	1	2	2	4	9	5	6	9	
Electrical engineer.....														4	9	8	15	17	13	10	7	11		
Engineer of mines.....	1	1				1	2	4	1	4	2			1	1	4	1	6	3	2	3	3		
Engineer of mines, in Ceramics.....																							1	
Graduate in pharmacy.....										3		2	3	6	5	5	3	11	12	11	7			
Master of pharmacy.....																			1			1		
Doctor of veterinary medicine.....									1		1	4		4	5		4	2	3				4	
Master of arts.....											1	1	1	2				2		4	4	3	8	
Master of science.....			1								1	1	2	2		2			3	3	2	3	3	
Master of agriculture.....																		1	2			1		
Master of Science in H. & F.....																				1	1	1		
Doctor of philosophy.....	1																1							
Doctor of science.....													1					1		1				
Bachelor of laws.....														9	18	15	16	6	23	22	21	25		
Master of laws.....														2	4	2			6					
Totals.....	6	7	9	8	9	11	12	16	18	24	28	26	30	36	65	79	70	112	118	135	125	99	137	

TABLE III—SHOWING THE NUMBER OF STUDENTS IN THE GENERAL TECHNICAL AND PROFESSIONAL COURSES.

	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.	1897-98.	1898-99.	1899-1900.
General Courses (College of Arts)	137	151	194	245	256	322	327	358	371	419
Technical Courses (other Colleges except Law)....	166	259	381	368	424	453	453	511	547	603
Professional Courses (College of Law).....	.....	55	67	72	65	100	132	148	191	201
*Graduate students and summer school	2	.....	.....	1	.....	94	97	133	75	45
Totals	305	465	642	686	745	969	1,019	1,150	1,178	1,268

* Until 1896, graduate students have been included in the first three classes.

REPORT OF THE LIBRARIAN.

Dr. W. O. Thompson, President Ohio State University,

DEAR SIR:—The following report on the condition of the university library is herewith respectfully submitted:

BUILDING AND EQUIPMENT.

The library has this year occupied the entire east end of Orton Hall and the room formerly used as a faculty room in university hall. The room in university hall has been used for the law library. It has been too small to accommodate properly the law students, and it is earnestly recommended that before the opening of the university next fall another and larger room be provided for these books.

The removal of the law lecture room from the first floor of Orton Hall and the tearing down of the temporary partition which divided it from the library has been of the greatest advantage to the work of the library. This change has made possible a complete rearrangement of the books and papers kept on the first floor. The main room is 70' x 40' in size. In the southwest corner there has been provided a temporary work room for the preparation of books for binding, the southeast corner having cases for unbound papers and magazines. The central part is used for the filing of state and municipal documents and the entire north end is devoted to U. S. government documents. In all three parts of the room space has been left for reading tables, and there is no room in the library where more important work is done by students.

The removal of the law books from the balcony has given room for growth in the classes of science and engineering. The books were not rearranged this year, but the entire balcony arrangement will probably be changed by the beginning of next year. This will necessitate the return to the main library of the oak cases taken to the law library. By the removal of the books on geology to the balcony, room is gained on the main floor for one more reading table.

Special credit is given to Mr. McCracken for his solution of the problem of providing light for the tables. By dropping lamps from the ceiling the proper light has been secured, together with freedom in rearrangement of tables, and without the disadvantage of cutting the cork carpet in order to bring the wires up from the floor.

There is still room in the main library for a year's increase in books without encroaching upon the reading room space. Year after next it

will undoubtedly be necessary to put in more cases which will, of course, mean fewer tables. *And this year's use of the library has demonstrated the fact that the reading rooms are already too small.* The problem of how to meet the demands which are certain to be made on the library before there is any possibility of finding relief in a new building, promises to be a very difficult one to solve,—if indeed there can be any solution. The prospects are only too sure that within the next two years, and certainly before three years have expired—which time seems to be the very earliest at which there can be hope of having a new building completed—the library will have to ignore many crying demands because of lack of room.

Such conditions make it imperative that everything be done to secure a library building at the earliest possible moment. To that end the librarian is already engaged in the comparative study of college library buildings. By such a study only can the danger of erecting a building, unsuited to its purpose in some particulars, be minimized. In May of this year a visit of inspection was made to the library of the University of Illinois. The new library building of Princeton University ought to be visited as early next year as possible.

BOOKS.

The number of books recorded on the accession books of the library June 30th, 1900, is 35,430. These records show that 7,443 have been added within the last year. As a matter of fact about half of this number were received in the library before the close of last year, but were not recorded because of lack of help and lack of room. Most of these were the U. S. public documents, the gift of which was noted in last year's report. Of all the additions to the library, none has been more valuable than these public documents. Another installment of about six hundred volumes came from Washington in the early spring of this year, after Captain Cope had personally visited the document office and had secured the personal influence of Mr. Ferrel, the superintendent of documents. Between five hundred and six hundred more are expected in the fall when they are returned from Spain by the U. S. Minister. It is a matter of special congratulation that the university was given the first chance of securing these books at the small expense of paying the transportation across the ocean. This is undoubtedly due to the efforts of Captain Cope in securing the interest of Mr. Ferrel.

State and municipal documents are being received constantly, and form a very important part of the library. It has been a source of gratification to the librarian to notice that since the special work in public documents was undertaken in the university library other libraries have begun to see the necessity of having special assistants in charge of this work. The claim is not made that this is due to the uni-

versity's action, but it shows that it is beginning to be recognized that document work is an important line of library activity.

A comparatively large number of gifts have come to the library from private sources. A list of donors accompanies this report.

Special mention should be made of a gift relating to the history of the Quakers in America. Through the interest and active effort of Mr. J. J. Janney of this city, the Miami Quarterly Meeting of the Society of Friends in Ohio has donated a collection of books illustrative of the influence of the Quakers in American history, and especially during the colonial period. When completed the collection will have cost one hundred and fifty dollars, and will be of the highest service as it touches a field of American history in which our library was seriously deficient. In addition, Philadelphia Yearly Meetings of both branches of the Society of Friends have donated a considerable number of volumes of historic and doctrinal character, thus supplementing the gift of the Miami Quarterly Meeting.

Mention has been made in previous reports of the gift of the books from the library of Mr. Wm. Siebert. Most of these books have now been received. In addition to these, there have been purchased by Mr. John Siebert and Mr. Louis Siebert over four hundred dollars' worth of books on German history. These will form the more important part of the "Siebert Library of German History," as the collection is to be called. It is understood that one hundred dollars a year will be furnished by each of these gentlemen for keeping up purchases in this line. None of these books have yet been entered on the library records, since it was desired to wait until all the books had been received, before recording them or putting them on the shelves for use.

Many of the books received from Mr. Wm. Siebert's library have no bearing at all on German history and it is definitely understood that these books, after being duly marked as having been received from him, are to be placed in those parts of the library where they naturally belong. This is the only safe principle to follow in accepting gifts for a library, and should be carefully adhered to. Books on a special subject are naturally kept together so that special collections can well be known by their collector's name, but it should never become a practice to accept libraries composed of books on miscellaneous subjects with the understanding that the books are to be kept together. If that were to be done the university library would soon be in a condition similar to that in which a neighboring college found itself when Wesley's sermons could be found in any part of the room.

During the year circulars have been sent out by the alumni association to alumni residents in Ohio, calling attention to the needs of the library. A copy of the circular is attached to this report.

In the annual report of last year it was said that the chief duty of a university library was "to secure books, more books, and always more

books." This statement should be repeated this year with even greater emphasis.

USE.

It is a pleasure to report that the use of the library has increased much more rapidly than has the student body, thus showing that the library is performing a more important part in the educational work of the university.

The great aim of the library is to teach the students the use of books, and all the reference work is directed towards the end of helping the student help himself. Much more time is required for this instructional work than would be used in simply supplying the books or information needed.

It was found necessary this year to place on special shelves the books reserved by professors for required reading. These shelves were not open to the students and each book was taken out on a special card for use in the reading room. Next year it will probably be necessary to limit the time during which one student can use the book, because of the large number of students dependent on one book, the library having very few duplicates.

STAFF.

There has been no change in the library staff during the year. Miss Townshend, Miss Kellicott, Miss Jeffrey, Miss Allen and Mr. Guittard all have retained their positions with very few changes in the work for which each is held responsible.

Very respectfully,

OLIVE JONES, Librarian.

REPORT OF THE TREASURER.

COLUMBUS, OHIO, *June 30th, 1900.*

To the HONORABLE J. McLain Smith, President Board of Trustees of the Ohio State University:

SIR:— I hand you herewith my annual report for the fiscal year ending the 30th day of June, 1900. This report is accompanied by proper vouchers for all disbursements.

Respectfully,

L. F. KIESEWETTER, *Treasurer.*

STATEMENT I.

DETAILED STATEMENT OF RECEIPTS BY L. F. KIESEWETTER, TREASURER,
DURING FISCAL YEAR ENDING JUNE 30, 1900.

Date	From whom received	For what purpose	Amount	Total
1899				
July 3	F. W. Prentiss, Treas. O. S. U.....	Balance on hand from former treasurer ...		\$9,088 04
7	Geo. B. Kauffman.....	Sale store room cards	\$111 59	
	Geo. B. Kauffman.....	Merchandise	152 07	
	U. S. Treasurer.....	Annuity act of Aug. 30, 1890	25,000 00	
	M. F. Early and Jane Beal	Deed act of March 14, 1889	2 00	
	Alfred H. Barnes.....	Deed act of March 14, 1889	2 00	
	Louisa M. Byers.....	Deed act of March 14, 1889	2 00	25,269 66
Aug. 9	B. F. Thomas.....	Ninth and tenth in- stallm't rent 1898-9	85 00	
	Margaret L. Hurles....	Deed act of March 14, 1889	2 00	
	Thomas Cloud	Deed, act of March 14, 1889	2 00	89 00
Sept. 20	Commrs. Sinking Fund.	Int. on endowment..	5,000 00	
	Henry C. Lord.....	Scrap copper sold...	4 25	
	B. F. Carmean.....	Deed, act March 14, 1889	2 00	
	R. W. Funk.....	Dorm. fee, Mr. King	1 50	
	E. E. Harrold, storekpr.	Sale of 100 storeroom cards	500 00	
	L. H. Godman.....	Unpaid fees of last year	7 50	5,515 25
23	E. E. Harrold, storekpr.	Sale of 100 storeroom cards	500 00	
	Nat. Brick Mfrs. Assn.	Endowment scholar- ship in ceramics...	250 00	
	E. E. Harrold, storekpr.	Sale*of 80 storeroom cards	400 00	1,150 00
Oct. 20	B. F. Thomas, Secy....	Amt. ret'd. of sub. to A. A. A. S.....	188 51	
	Alexis Cope, Bursar...	Students' fees	13,700 00	
	Commrs. Sinking Fund.	Int. on endowment..	5,000 00	18,888 51
Nov. 10	Auditor of State.....	Req. No. 25, O. S. U. fund	14,956 67	
	Auditor of State.....	Req. No. 26, O. S. U. fund	33,437 50	
	Honline & West.....	Freight paid by mis- take	8 70	
	Martha Loister.....	Deed. act March 14, 1889	2 00	
	Margaret Shough.....	Deed, act March 14, 1889	2 00	
	Joseph Smith.....	Deed, act March 14, 1889	2 00	
	S. G. Lindsay.....	Deed, act March 14, 1889	2 00	
	Gen. Elec. Co.....	Credit on account...	2 00	48,412 87
Dec. 1	Ohio Nat'l Bank.....	Proceeds sale 30,000 refunding bonds sold Nov. 9, 1899..		32,705 00
7	Commrs. Sinking Fund.	Int. on endowment..		3,500 00

STATEMENT I—Continued.

Date	From whom received	For what purpose	Amount	Total
1899				
Dec. 15	Auditor of State.....	Req. No. 27, O. S. U. fund		15,110 00
	E. E. Harrold, storekpr.	80 coupon cards sold to students	400 00	
	Benj. F. Thomas.....	1st and 2nd installments rent, 1899-1900	85,00	
	Geo. B. Kauffman.....	Ninth and 10th installment rent, 1898-1899; 1st, 2nd & 3rd 1899-1900	225 00	
	Alexis Cope, Bursar....	Students' fees	200 00	
	Nora Heath.....	Deed, act of March 14, 1889	4 00	
	Alexis Cope, Bursar....	Fees 38 auditor's tickets	38 00	952 00
20	L. H. Houston.....	Deed, act of March 14, 1889	2 00	
	Emerson McMillin.....	Fellowship in astronomy	90 00	
	Emerson McMillin.....	Scholarship in economics	100 00	192 00
21	M. P. Post.....	Freight and cartage paid for him.....	1 25	
	F. E. Sanborn.....	Freight and cartage paid for him.....	20 54	
	Alexis Cope, Bursar....	Students' fees	294 63	316 42
30	Commrs. Sinking Fund.	Interest on endowment		3,093 50
1900				
Jan. 11	Auditor of State.....	Req. No. 28, O. S. U. fund		14,987 06
Feb. 3	Neal Postlewaite.....	Diploma fee, class of 1899	5 00	
	Paul System Co.....	Credit on account... ..	49 54	
	W. H. Scott.....	Laboratory fees, summer school ...	14 00	
	E. A. Hitchcock.....	Fee for testing boilers	10 00	
	C. W. Mesloh.....	7th, 8th, 9th & 10th installment rent, 1898-99; 1st & 2nd, 1899-1900	108 00	
	Alexis Cope, Bursar....	Students' fees	4,500 00	
	Commrs. Sinking Fund.	Interest on endowment	5,500 00	10,186 54
23	Auditor of State.....	Req. No. 30, O. S. U. fund	4,474 17	
	Alexis Cope, Bursar....	Students' fees	8,500 00	
	J. W. Stimson.....	Damage to property. ..	1 00	12,975 17
Mar. 9	Auditor of State.....	Req. No. 29, O. S. U. fund		15,037 72
30	Commrs. Sinking Fund.	Interest on endowment	2,750 00	
	Alexis Cope, Bursar....	Students' fees	3,800 00	
	B. F. Thomas.....	3rd, 4th, 5th & 6th installments rent, 1899-1900	170 00	
	Alexis Cope, Bursar....	Students' fees	200 00	
	Buckeye Engine Co....	Sale of old engine... ..	450 00	
	F. E. Kester.....	Sale 3 bamboo rods.. ..	15	

STATEMENT I—Concluded.

Date	From whom received	For what purpose	Amount	Total
1900	W. G. Pengelly.....	Pictures of Dr. Orton	17 50	7,387 65
April 4	Auditor of State.....	Req. No. 31, O. S. U. fund		15,166 74
25	Auditor of State.....	Req. No. 32, O. S. U. fund		15,146 17
May 18	Auditor of State.....	Req. No. 33, O. S. U. fund		14,981 06
	Auditor of State.....	Req. No. 34, O. S. U. fund		7,875 00
22	Geo. B. Kauffman.....	Rent	180 00	
	E. E. Harrold.....	Store room cards....	400 00	
	Lewis Merriman.....	Deed, act Mar. 14, 1889	2 00	
	Edw. Orton, Jr.....	Printing memorial ..	19 00	
	W. H. Kinnear.....	Deed, act Mar. 14, 1889	2 00	
	Wm. T. Magruder.....	Use of machinery... ..	12 30	
	Wm. T. Magruder.....	Broken tools	12 76	
	W. H. Scott.....	Lub. oil and deodorizer	34	628 40
31	Ohio National Bank....	Sale of \$10,000 re-funding bonds ...		10,906 00
June 7	C. W. Mesloh.....	1st, 2nd, 3rd, 4th, 5th, 6th installments rent, 1899-1900		108 00
	Edward Orton, Jr.....	Sales of material....	50 00	
	Comms. Sinking Fund.	Interest on endowment	6,500 00	
	M. P. Post.....	Test in dept. ceramics	1 25	6,551 25
13	Auditor of State.....	Req. No. 35, O. S. U. fund		14,904 06
27	Comms. Sinking Fund.	Interest on W. J. Bryan fund	8 15	
	Comms. Sinking Fund.	Interest on endowment fund	1,860 72	1,868 87
	J. A. Bownocker.....	Comm'c't luncheon	59 00	
	E. A. Eggers.....	Rent to June 1, 1900	150 00	
	F. E. Sanborn.....	Sale of scrap iron... ..	36 74	
	Alexis Cope, Bursar....	Diploma fees	735 00	
	Alexis Cope, Bursar....	Students' fees	665 12	
	Alexis Cope, Bursar....	Auditor's tickets	30 00	1,675 86
30	Alexis Cope, Bursar....	Storeroom cash sales and cards		950 00
	Total .....	.....	.....	\$315,617 80

STATEMENT II.

DETAILED STATEMENT OF DISBURSEMENTS BY L. F. KIESEWETTER, TREASURER,
DURING FISCAL YEAR ENDING JUNE 30, 1900.

Date	To whom paid	For what purpose	No	Amount
1899				
July 1	J. McLain Smith.....	Expenses as trustee....	1	\$5 95
	T. J. Godfrey.....	Expenses as trustee....	2	25 95
3	Wm. Cannan.....	Labor	3	11 27
	Kuhn Artificl. Stone Co.	Cement walk (balance) due on contract.....	4	380 00
	Jno. T. Mack.....	Expenses as trustee....	5	18 50
5	Columbus Gas Co.....	Gas	6	66 89
6	Hutton Bros.....	Painting	7	12 00
	Buckeye H. and L. Co.	Leather	8	80
	Blackwood, Green & Co.	Repairs	9	3 90
	J. S. Abbott & Co.....	Glass	10	2 00
	Fish Stone Co.....	Stone work	11	10 00
	Fitzpatrick & Hoepfner.	Closet bowl	12	8 55
	F. E. Fleischer.....	Labor	13	18 25
	J. C. Perry.....	Labor	14	4 23
	Peter Henderson & Co..	Lawn mower	15	12 00
	Krauss, B., B. & Co...	Tin roller	16	8 40
	Eimer & Amend.....	Scientific apparatus ...	17	20 00
	B. F. Thomas.....	Cash advanced	18	15 01
	West'h'se E. & Mfg. Co.	Repairs	19	4 00
	Wards Nat. Sci. Est...	Lenckhart charts	20	42 00
	Glouster Net & Tw. Co.	Seine	21	9 50
	J. S. Teeter.....	Labor	22	30 00
	Wm. Roberts	Labor	23	35 00
	E. Doddington & Co...	Lumber	24	2 10
	J. S. Schofield.....	Paint	25	4 25
	Sherwood Mfg. Co.....	Repairs	26	6 00
	Murphy Iron Works....	Pins	27	4 50
	W. H. Case.....	Labor	28	30 00
	E. Harrington Son & Co.	Chain	29	18 77
	H. Mithoff & Co.....	Strainer cloth	30	95
	Columbus Brass Co.....	Castings	31	18 00
	W. C. McCracken.....	Cash advanced	32	2 00
	New Col. Bridge Co....	Beams, rods, etc.....	33	35 73
	B. D. Potts.....	Hardware	34	4 63
	Palmer & Beck.....	Repairs	35	50 85
	Lawrence Press Co....	Printing	36	4 50
	C. V. Brown.....	Advertising	37	5 00
	C. L. Kelly.....	Advertising	38	4 00
	J. L. Trauger.....	1200 copies Bot. Bulletin No. 1	39	81 20
	J. N. Bradford.....	Cash advanced	40	13 20
	McClelland & Co.....	Ink	41	1 80
	Drawing Supply Store..	Supplies	42	3 30
	J. M. & W. Westwater.	Electric supplies	43	6 10
	General Electric Co...	Electric supplies	44	52 00
	F. A. Fish.....	Labor	45	12 00
	J. C. Covan.....	Labor	46	7 02
	P. Hayden S. Hdw. Co.	Castings	47	69 20
	Western Elictric Co...	Electric supplies	48	41 39
	Schilling Foundry Co..	Castings	49	12 08
	Shoedinger, Fearn & Co.	Bolts, etc.....	50	74
	J. G. Biddle.....	Scientific apparatus ...	51	46 85
	J. B. Colt & Co.....	Magic lantern	52	30 00
	F. C. Caldwell.....	Cash advanced	53	31 12
	Philip Long.....	Commencem't luncheon and cafe partitions...	54	350 00
	Mrs. Edith R. Hubler..	Extra service as clerk...	55	8 55

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
July 6	Western Electric Co....	Telegrams	56	\$4 23
	Tracy Wells Co.....	Jap rods	57	2 75
	R. E. McIntosh.....	Labor	58	10 80
	M. C. Hunter.....	Labor	59	14 32
	H. C. Nidy.....	Labor	60	4 65
	Frankenberg Bros.....	Mailing tubes	61	1 00
	Cherington P. & E. Co.	Rubber stamps	62	75
	Green, Joyce & Co.....	Bunting	63	10 99
	Central Union Tel. Co..	Telephone messages	64	2 50
	Hann & Adair.....	Printing	65	15 70
	Paul Jones.....	Expenses as trustee.....	66	1 00
	Chas. T. Howe.....	Music for commencem't	67	29 00
	Z. L. White & Co.....	Cheese cloth.....	68	1 82
	L. B. Wing.....	Expenses as trustee.....	69	5 00
	Columbus Supply Co..*	Hardware	70	61 74
	Col. Mill & Mine S. Co.	Hardware	71	65 17
	Mrs. A. Farnham.....	Brushes	72	9 00
	Florence Bell.....	Clerical work	73	1 65
	Grace Eagleson.....	Clerical work	74	8 43
	A. W. Livingston's Sons	Flowers	75	18 75
	G. N. Carman, Treas...	Membership N. C. A. C. and S. S.....	76	3 00
	American Dist. Tel. Co.	Watch boxes	77	27 00
	S. M. Tracy.....	Plants	78	46 20
	W. A. Kellerman.....	Cash advanced	79	13 59
	Freda Detmers.....	Labor	80	25 00
	L. C. Riddle.....	Labor	81	58 05
	W. H. Anderson.....	Books	82	405 25
	Howald & Conklin.....	Tin rollers	83	5 10
	Erner & Hopkins.....	Electric apparatus	84	124 03
	Tallmadge Hdw. Co....	Hardware	85	5 72
	H. Cole Co.....	Cross section paper.....	86	7 40
	Eagle Lock Co.....	Locks	87	11 00
	Library Bureau.....	Outfit	88	2 75
	W. T. Magruder.....	Cash advanced	89	18 28
	Blackwood, Green & Co.	Paint	90	17 55
	Geo. Trowbridge.....	Carpentry	91	2 00
	Keuffel & Esser Co....	Tapes	92	5 36
	Star Milk Cooler Co....	Cooler	93	24 00
	L. Hoster Brewing Co..	Sprouts	94	9 88
	John Immel & Son.....	Repairs	95	18 80
	Yardley & Harsh.....	Pail	96	1 50
	Nitschke Bros.....	Office supplies	97	12 33
	Central Ohio Paper Co.	Paper	98	10 50
	A. H. Barber Mfg. Co.	Ammonia	99	6 98
	Capital City Mach. Wks.	Machinery and castings	100	103 88
	R. J. Seymour.....	Messenger service	101	7 00
	Champlin Printing Co..	Printing	102	135 50
	Columbus Transfer Co..	Coupe services	103	7 00
	J. C. Porterfield.....	Basket ball	104	6 00
	Franklin Toilet Sup. Co.	Laundry	105	10 16
	Engelke & Bigelow....	Freight and draying...	106	39 83
	Murray City Coal Co....	Coal	107	82 78
	Frank L. Sikes.....	Costs O. S. U. vs. Cup- pett & Webb.....	108	31 56
	John Wanamaker.....	Books	109	4 89
	Columbus Street Ry. Co.	Street car tickets.....	110	5 00
	C. B. Guittard.....	Salary, June, 1899.....	111	50 00
	Alexis Cope.....	Salary, July, 1899.....	112	187 50
	C. E. Barnet.....	" "	113	65 00
	Jean Blackford.....	" "	114	54 17

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
July 29	Edith D. Cockins.....	Salary, July, 1899.....	115	\$58 33
	Dennis Clifford	" "	116	45 00
	James Kelley	" "	117	25 00
	Mrs. Edith R. Hubler..	" "	118	33 33
	Frank Ruhlen	" "	119	60 00
	F. K. Luke.....	" "	120	50 00
	J. F. Cunningham.....	" "	121	50 00
	A. F. Hall.....	" "	122	60 00
	A. G. McCall.....	" "	123	20 00
	W. C. McCracken.....	" "	124	150 00
	C. M. Low.....	" "	125	54 17
	Wm. Standley	" "	126	50 00
	B. LeBay	" "	127	50 00
	G. A. Rose.....	" "	128	65 00
	A. Chantler	" "	129	46 00
	G. A. Goodspeed.....	" "	130	40 00
	J. H. Brown.....	" "	131	40 00
	D. D. Geren.....	" "	132	40 00
	W. Whitestone.....	" "	133	40 00
	H. Chantler.....	" "	134	40 00
	G. C. Denny.....	" "	135	40 00
	W. N. Cook.....	" "	136	40 00
	W. Townsel.....	" "	137	25 00
11	Laning Printing Co....	Bal. due for ptg. cat....	138	35 00
15	J. McLain Smith.....	Exp. m't'g com. July 14, 1899	139	7 21
17	H. W. Johns Mfg. Co..	2-30 bbl. red roof paint	140	47 42
24	Olive B. Jones.....	1-10 sal. yr. end'g. June 30, 1900	141	135 00
29	C. H. Woodruff.....	Sal. as carp. July, 1899	142	60 00
	Jos. Garretson	Salary for July, "	143	35 25
Aug. 1	T. J. Godfrey.....	Expenses as trustee....	144	8 55
	R. M. Rownd.....	Postage	145	15 00
	L. B. Wing.....	Expenses as trustee....	146	5 25
	Webb Sta. & Print. Co.	Stationery, etc.....	147	28 35
	Cherington P. & E. Co.	Stamps	148	4 00
	A. N. Marquis & Co....	Book	149	2 94
	Champlin Printing Co..	Printing	150	44 25
	Ruggles-Gale Co	Blank book	151	9 00
	Central Union Tel. Co..	Telephone service	152	72 75
	Manufac's' O. & G. Co.	Lard	153	14 82
	Grace Eagleson	Clerical work	154	3 60
	Tracy-Wells Co	Sundries	155	20 97
	American Dist. Tel. Co.	Messenger service	156	85
	R. J. Seymour.....	" "	157	20 25
	Frank Huddleson	" "	158	1 18
	Thos. F. Hunt.....	Exps. to San Francisco	159	126 25
	Columbus Bnk. Note Co.	Stationery	160	37 50
	A. H. Smythe.....	Office supplies	161	1 35
	Berlin Printing Co....	Printing	162	4 50
	Erner & Hopkins.....	Electric supplies	163	1 95
	American Sand Co.....	Sand	164	54 10
	Marion Peck	Labor	165	36 00
	Thos. Boude	"	166	22 50
	W. H. Case.....	"	167	37 50
	Waters Governor Co...	Valve	168	16 66
	McCabe Hang. Mfg. Co.	Bolts	169	18 00
	West, Kieley S. S. Co..	Valves	170	72 00
	Wheeler C. & Eng. Co.	Tubes	171	8 25
	Bourne & Know's M. Co.	Gaskets	172	23 95
	New. Col. Bridge Co...	Iron	173	35 58

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Aug. 1	Adams-Bagnall El. Co.	Arc lamps.....	174	\$200 00
	Westgh'se El. Mfg. Co.	Electric machinery	175	500 00
	McDonald Bros	Cesspool	176	60
	Kelton & Converse.....	Lumber	177	47 21
	J. C. Howard.....	Painting, etc	178	92 00
	Frank Watkins	Painting	179	295 00
	Columbus Sewer P. Co.	Flue lining	180	2 22
	A. F. Fenstermaker.....	Painting	181	83 00
	Columbus Brass Co.....	Water closets	182	119 75
	J. W. Cawthon.....	Carpentry	183	15 75
	J. W. Schneider.....	"	184	15 75
	M. B. Geary.....	"	185	14 50
	Eli Hiatt	"	186	15 75
	J. S. Abbott & Co.....	Glass	187	16 75
	A. S. W. Huffman.....	Plumbing	188	40 22
	Harper's Illus. Syndicate	Advertising cuts	189	17 20
	Champlin Printing Co..	Printing	190	64 25
	Oberlin Annual	Advertising	191	10 00
	S. C. Derby.....	Cash advanced	192	69 25
	J. C. Perry.....	Labor	193	10 53
	F. E. Fleischer.....	"	194	25 28
	Murray City Coal Co..	Coal	195	10 93
	L. L. Hill.....	Clerical work	196	13 00
	Standard Disinfect. Co.	Sheep dip	197	2 50
	Warren & S'th'k C. Co.	Repairs	198	9 00
	A. A. Hall.....	B'd'g and breeding cows	199	32 00
	Blackwood, Green & Co.	Hardware	200	41 92
	Jacob Weisheimer	Corn	201	22 35
	Glucose Sugar Ref. Co.	Gluten meal	202	19 50
	Nitschke Bros	Envelopes, etc.....	203	5 15
	Kemp & Burpee Mfg. Co.	Repairs	204	4 30
	Franklin Toil. Sup. Co.	Laundering	205	2 11
	Capital City Mach. Wks.	Tools and machinery...	206	7 35
	John Immel & Son.....	Repairs	207	9 10
	W. O. Thompson.....	Expenses as president...	208	70 20
	Creamery Pack Mfg. Co.	Dairy supplies	209	81 31
	W. H. Siebert.....	Model of brain.....	210	10 00
	Clara Armstrong	Labor on herbarium...	211	9 15
	Karl Kellerman	"	212	4 50
	L. C. Riddle.....	"	213	28 05
	Payne, McD. Hdw. Co.	Hardware	214	21 13
	Lena Dennis	Labor	215	5 00
	Central Ohio Paper Co.	Paper	216	37 80
	W. A. Kellerman.....	Cash advanced	217	49 16
	W. R. Beattie.....	Labor on herbarium...	218	10 05
	Emma Beattie	"	219	24 60
	Harriet G. Burr.....	"	220	11 70
	Edna Armstrong	"	221	24 60
	Freda Detmers	"	222	8 10
	J. H. Randall.....	Carpentry	223	52 75
	James Penn	Hauling	224	2 75
	Mabel Huddleson	Work in library.....	225	4 00
	A. F. Fenstermaker....	Decorating rooms	226	50 00
	Wm. Burdell, Jr.....	Roll and truss.....	227	4 25
	Hann & Adair.....	Printing	228	13 15
	Schoedinger, F. & Co..	Tools	229	2 80
	Geo. D. Cross Lum. Co.	Lumber	230	32 52
	D. S. White.....	Cash advanced	231	11 00
	T. L. Griffin.....	Clerical work	232	30 00
	W. H. Hoskins.....	Advertising	233	8 75
	Wm. Burdell, Jr.....	Turf goods	234	12 60
	Tallmadge Hardware Co.	Hardware	235	7 48

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Aug. 1	Columbus Supply Co...	Hardware supplies.....	236	\$419 14
	H. Braun Sons & Co...	Drugs & surg. inst'm't's	237	16 83
	Bausch & Lomb Opt. Co.	Optical parts	238	2 88
	E. L. Moseley.....	Bird skins.....	239	58 30
	Bauer & Baumeister...	Repairs	240	3 50
	Col. Mill & Mine S. Co.	Hardware	241	58 80
	Engelke & Bigelow....	Freight and draying...	242	33 04
	Fred J. Heer.....	Catalogues	243	240 00
	Bucher Engraving Co..	Printing	244	96 82
	A. A. Griffing Iron Co.	Radiators	245	61 01
	J. P. Covan.....	Labor	246	55 25
	Columbus Gas Co.....	Gas	247	52 43
	Lutheran Book Concern.	Paper & covers for cat.	248	75 00
	R. M. Rownd, P. M....	Postage	249	20 00
15	James B. Loff.....	Labor	250	6 60
16	R. M. Rownd, P. M....	Postage	251	16 00
22	W. O. Thompson.....	Salary, August, 1899...	252	416 87
	Alexis Cope.....	Salary August 1899.....	253	187 50
26	C. E. Barnet.....	" "	254	65 00
	Jean Blackford.....	" "	255	54 17
	W. C. McCracken.....	" "	256	150 00
	J. Covan	" "	257	70 00
	G. A. Rose.....	" "	258	65 00
	F. Ruhlen	" "	259	60 00
	A. F. Hall.....	" "	260	60 00
	Edith D. Cockins.....	" "	261	58 33
	C. M. Low.....	" "	262	54 17
	F. K. Luke.....	" "	263	50 00
	J. F. Cunningham.....	" "	264	50 00
	W. Standley	" "	265	50 00
	B. LeBay	" "	266	50 00
	A. Chantler	" "	267	40 00
	G. A. Goodspeed.....	" "	268	40 00
	J. H. Brown.....	" "	269	40 00
	D. D. Geren.....	" "	270	40 00
	W. Whitestone	" "	271	40 00
	H. Chantler	" "	272	40 00
	G. C. Denny.....	" "	273	40 00
	M. N. Cook.....	" "	274	40 00
	W. Townsel	" "	275	25 00
	James Kelley.....	" "	276	25 00
	Mrs. E. R. Hubler.....	" "	277	33 33
	A. G. McCall.....	" "	278	20 00
	Dennis Clifford.....	" "	279	8 71
	E. M. Smothers.....	" "	280	20 32
	Benj. Irwin.....	" "	281	15 97
	Joe. Garretson	" "	282	40 50
25	Charles Woodruff.....	September wages	283	53 50
26	Clinton Schaeffer.....	Carpentry	284	18 00
	J. W. Schneider.....	"	285	38 75
	M. B. Geary.....	"	286	11 75
	Eli Hiatt	"	287	38 75
	J. W. Cawthon.....	"	288	38 75
	William Bechel.....	"	289	18 00
	C. H. Woodruff.....	Salary as carp. Aug. '99.	290	65 00
Sept. 5	L. B. Wing.....	Expenses as trustee.....	291	2 00
	T. J. Godfrey.....	" "	292	5 00
	Von Gerichten A. G. Co.	Glass	293	20 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899 Sept. 5	A. H. Andrews & Co.	Slating	294	\$8 00
	Wm. M. Taylor Mantel and Grate Co.....	Mantel	295	135 00
	Frank Watkins	Painting	296	65 00
	J. C. Howard.....	"	297	29 25
	Jas. S. Schofield.....	Oil	298	5 00
	A. L. Yardley.....	Screens	299	60 00
	Brust & Bauch.....	Masonry	300	42 40
	Columbus Brass Co....	Castings	301	98 83
	The Hanna Pt. Mfg. Co.	Bronze	302	5 85
	T. S. Edgington.....	Papering	303	15 00
	Western Kieley S. S. Co.	Traps and valve.....	304	51 75
	Lewis Fink.....	Painting	305	131 00
	J. H. Ridgway.....	Taxidermy	306	37 50
	Batterson Decor. House.	Decorating	307	248 65
	Western Union Tel. Co.	Telegraph service	308	10 48
	F. C. McKinney.....	Guide and messenger.....	309	20 62
	A. G. McCall.....	Guide work	310	9 00
	H. S. King.....	"	311	5 00
	E. H. Moore.....	"	312	5 00
	K. G. Thompson.....	"	313	3 00
	M. F. Osborn.....	"	314	3 50
	H. T. Osborn.....	"	315	3 50
	Merle Rickett	"	316	3 00
	The Webb Sta. & Pr. Co.	Office supplies	317	4 30
	R. L. Polk & Co.....	City directory	318	5 00
	Central Union Tel. Co..	Telephone service	319	35
	Orvis & Marshall.....	Mimeograph ink	320	90
	D. H. Derfingler.....	Gasoline	321	3 83
	Standard Oil Co.....	Oil	322	23 32
	India Alkali Works.....	Savogran	323	18 14
	American Dist. Tel. Co.	Alarm boxes	324	32 00
	Bourne & Knowles.....	Gaskets	325	1 35
	Jos. Dixon Crucible Co.	Graphite	326	6 50
	H. Braun Sons & Co....	Lead and ammonia.....	327	1 40
	Col. Mill & Mine S. Co.	Hardware	328	10 64
	Scioto Boiler Works....	Breeching and heater...	329	137 00
	Thos. Boude	Labor	330	40 50
	M. Peck	"	331	40 50
	W. H. Case.....	"	332	39 00
	Col. Wire & Iron Wks.	Wire guards	333	31 50
	Palmer & Beck.....	Roofing, etc.....	334	173 44
	Electric Appliance Co..	Electric apparatus	335	33 70
	W. T. Magruder.....	Cash advanced	336	12 62
	Cherrington P. & E. Co.	Rubber type	337	4 60
	A. H. Smythe.....	Labels	338	85
	J. S. Maclean.....	Drawers	339	58 50
	Chas. Hall	Labor	340	1 00
	E. H. Bailey.....	Janitoring	341	25 80
	Burr Waters	"	342	9 38
	A. E. Adair.....	Masonry	343	4 05
	P. M. Griffin.....	Samples of woods.....	344	5 00
	Crosby St. G. & V. Co.	Repairs	345	29 05
	Brown & Sharpe Mf. Co.	Standard instruments	346	12 70
	Columbus Supply Co....	Hardware	347	97 20
20 5	J. S. Maclean.....	Lumber	348	18 50
	Central Ohio Paper Co.	Paper	349	3 94
	McClelland & Co.....	Electric supplies	350	3 68
	J. G. Biddle.....	"	351	2 25
	J. P. Covan.....	Extra labor	352	6 24
	Lincoln Electric Co....	Electric machinery	353	349 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Sept. 5	Acme Paving Co.....	Paving	354	\$80 08
	Erner & Hopkins.....	Electric supplies	355	19 69
	M. P. Streett.....	Masonry	356	135 31
	Capital City Mach. Wks.	Hardware	357	36 85
	Springfield Gas Eng. Co.	Gas engine	358	150 00
	Fitzpatrick & Hoepfner.	Connecting gas engine..	359	23 63
	J. A. Brashear.....	Spectroscope	360	200 00
	J. F. Donahue & Co....	Hardware	361	6 17
	Library Bureau	Cards	362	6 00
	Schoedinger, F'r'n. & Co.	Mica	363	7 88
	Bausch & Lomb Opt. Co.	Reprints	364	2 94
	Sheppard & Co.....	Labels	365	2 25
	E. T. Jenks.....	Locks	366	8 00
	Freda Detmers	Labor on herbarium....	367	10 00
	W. R. Beattie.....	"	368	7 15
	Kelton & Converse.....	Lumber	369	105 02
	Karl Kellerman.....	Labor	370	10 20
	L. C. Riddle.....	" on herbarium....	371	6 30
	Nitschke Bros	Stationery, etc.....	372	18 90
	De Laval Separator Co.	Repairs	373	3 20
	Laura L. Hill.....	Clerical work	374	14 00
	A. F. Wilcox.....	Labor	375	261 82
	Blackwood, Green & Co.	Hardware	376	108 75
	James Penn	Carting	377	27 70
	Sells & Co.....	Feed	378	15 00
	L. Hoster Brewing Co..	Sprouts	379	5 02
	A. W. Livingston's Sons.	Barley and peas.....	380	10 65
	Jacob Weisheimer	Corn	381	23 35
	Columbus Sewer P. Co.	Pipe	382	13 43
	E. D. Heller.....	Labor	383	25 37
	J. C. Perry.....	"	384	32 58
	J. H. Burgess.....	"	385	8 75
	J. Booth	"	386	15 34
	F. E. Fleischer.....	"	387	27 62
	C. Schaffer	Carpentry	388	40 25
	M. J. Snow.....	Labor	389	33 62
	A. F. Fenstermaker....	Painting, etc.....	390	157 72
	J. H. Randall.....	Carpentry	391	28 75
	O. S. Lear.....	Typewriter and neostyle	392	122 75
	Fay & Scott.....	Lathe	393	145 35
	Metta L. Seymour.....	Clerical work	394	7 25
	R. A. McClure.....	Lumber	395	131 13
	E. Kaiser.....	Sundries	396	1 48
	Herbert Osborn	Cash advanced	397	3 45
	Edward Orton, Sr.....	"	398	10 95
	The Fish Stone Co.....	Labor and stone.....	399	11 50
	Spahr & Glenn.....	Printing	400	2 50
	Krauss, Butler & B. Co.	Carpets and curtains...	401	110 67
	Champlin Printing Co..	Printing	402	5 25
	Hann & Adair.....	"	403	1 85
	Lawrence Press Co.....	Vouchers	404	8 00
	Christian World Co....	Advertising	405	4 78
	Republican Publish. Co.	"	406	15 00
	O. T. Corson.....	"	407	22 50
	Moufort & Co.....	"	408	14 00
	Curts & Jennings.....	"	409	16 80
	The Interior	"	410	22 68
	Taylor, Williams & Co.	Coal	411	3 08
	Murray City Coal Co...	"	412	44 52
	E. A. Cole & Co.....	"	413	2 94
	W. F. Lavery.....	Extra services	414	27 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Sept. 5	J. L. Trauger.....	Binding	415	\$0 64
	Keasbey & Mattison Co.	Magnabestos	416	121 74
	Engelke & Bigelow....	Freight and carting....	417	55 92
	E. Doddington & Co....	Lumber	418	249 26
	Tallmadge Hardware Co.	Hardware	419	123 33
	W. C. Mills.....	Sal., July and Aug., '99	420	70 00
	Columbus Gas Co.....	Gas	421	39 00
30	W. O. Thompson.....	Salary, Sept., 1899....	422	416 67
23	Alexis Cope	"	423	187 50
30	C. E. Barnet.....	"	424	65 00
	Jean Blackford	"	425	54 17
	E. E. Harrold.....	"	426	90 00
	T. F. Hunt.....	"	427	250 00
	G. W. Knight.....	"	428	250 00
	W. F. Hunter.....	"	429	250 00
	A. M. Bleile.....	"	430	225 00
	C. N. Brown.....	"	431	225 00
	A. C. Barrows.....	"	432	225 00
	R. D. Bohannan.....	"	433	225 00
	B. L. Bowen.....	"	434	225 00
	S. C. Derby.....	"	435	225 00
	J. V. Denney.....	"	436	225 00
	E. A. Eggers.....	"	437	225 00
	J. P. Gordy.....	"	438	225 00
13	W. A. Kellerman.....	"	439	225 00
30	W. R. Lazenby.....	"	440	225 00
	Wm. McPherson.....	"	441	225 00
	W. T. Magruder.....	"	442	225 00
	H. Osborn.....	"	443	225 00
	J. R. Smith.....	"	444	225 00
	W. H. Scott.....	"	445	225 00
	B. F. Thomas.....	"	446	225 00
	H. A. Weber.....	"	447	225 00
13	N. W. Lord.....	"	448	200 00
30	F. A. Ray.....	"	449	200 00
	G. B. Kauffman.....	"	450	200 00
	E. Orton, Jr.....	"	451	180 00
	J. N. Bradford.....	"	452	180 00
	F. E. Sanborn.....	"	453	180 00
	H. C. Lord.....	"	454	160 00
	F. C. Clark.....	"	455	160 00
	G. W. McCoard.....	"	456	160 00
	C. P. Linhart.....	"	457	160 00
	D. S. White.....	"	458	160 00
	F. C. Caldwell.....	"	459	160 00
	Edward Orton.....	"	460	150 00
	E. A. Hitchcock.....	"	461	150 00
	C. S. Prosser.....	"	462	150 00
	W. D. Gibbs.....	"	463	160 00
	P. G. Bowman.....	"	464	140 00
	W. H. Page.....	"	465	140 00
	W. H. Siebert.....	"	466	135 00
	S. A. Norton.....	"	467	120 00
	E. B. Kinkead.....	"	468	120 00
	J. E. Boyd.....	"	469	120 00
	C. E. Sherman.....	"	470	110 00
	T. E. French.....	"	471	110 00
	J. R. Taylor.....	"	472	110 00
	C. W. Mesloh.....	"	473	110 00
	A. W. Hodgman.....	"	474	110 00
	J. H. Schaffner.....	"	475	100 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899 Sept. 30	W. E. Henderson.....	Salary, Sept., 1899.....	476	\$100 00
	J. A. Bownocker.....	" " " " " " " " " "	477	100 00
	W. A. Knight.....	" " " " " " " " " "	478	100 00
	C. L. Arnold.....	" " " " " " " " " "	479	100 00
	K. D. Swartzel.....	" " " " " " " " " "	480	100 00
23	C. B. Morrey.....	" " " " " " " " " "	481	100 00
30	W. L. Graves.....	" " " " " " " " " "	482	100 00
	C. A. Bruce.....	" " " " " " " " " "	483	100 00
	Geo. H. McKnight.....	" " " " " " " " " "	484	90 00
	Wm. Renck.....	" " " " " " " " " "	485	85 00
	J. S. Hine.....	" " " " " " " " " "	486	85 00
	F. L. Landacre.....	" " " " " " " " " "	487	85 00
	C. P. Crowe.....	" " " " " " " " " "	488	80 00
	A. E. Vinson.....	" " " " " " " " " "	489	80 00
23	C. P. Souther.....	" " " " " " " " " "	490	80 00
30	F. E. Kester.....	" " " " " " " " " "	491	80 00
	Mrs. Jas. A. Canfield.....	" " " " " " " " " "	492	75 00
	E. O. Randall.....	" " " " " " " " " "	493	70 00
	D. F. Pugh.....	" " " " " " " " " "	494	70 00
	W. A. Landacre.....	" " " " " " " " " "	495	70 00
	W. F. Lavery.....	" " " " " " " " " "	496	70 00
	C. B. Frederick.....	" " " " " " " " " "	497	70 00
	Jno. B. Sanborn.....	" " " " " " " " " "	498	70 00
	E. E. Somermeier.....	" " " " " " " " " "	499	70 00
	T. K. Lewis.....	" " " " " " " " " "	500	60 00
	F. A. Fish.....	" " " " " " " " " "	501	60 00
	O. V. Brumley.....	" " " " " " " " " "	502	50 00
	S. W. Martin.....	" " " " " " " " " "	503	50 00
	A. V. Blewinger.....	" " " " " " " " " "	504	40 00
	J. B. Parker.....	" " " " " " " " " "	505	30 00
	Grace L. Pitts.....	" " " " " " " " " "	506	30 00
	M. Dresbach.....	" " " " " " " " " "	507	30 00
	D. A. Kohr.....	" " " " " " " " " "	508	60 00
	H. C. Gore.....	" " " " " " " " " "	509	30 00
	J. H. Vosskuehler.....	" " " " " " " " " "	510	30 00
	A. H. McIntire.....	" " " " " " " " " "	511	30 00
	E. L. Ball.....	" " " " " " " " " "	512	30 00
	J. W. Young.....	" " " " " " " " " "	513	30 00
	F. J. Hale.....	" " " " " " " " " "	514	30 00
	S. W. Collett.....	" " " " " " " " " "	515	25 00
	H. W. Brown.....	" " " " " " " " " "	516	25 00
	J. H. Collins.....	" " " " " " " " " "	517	20 00
	J. A. Shauck.....	" " " " " " " " " "	518	17 50
	E. H. Bailey.....	" " " " " " " " " "	519	15 00
	R. E. McIntosh.....	" " " " " " " " " "	520	12 50
	W. C. McCracken.....	" " " " " " " " " "	521	150 00
	J. P. Covan.....	" " " " " " " " " "	522	70 00
	G. A. Rose.....	" " " " " " " " " "	523	65 00
	F. Ruhlen.....	" " " " " " " " " "	524	60 00
	A. F. Hall.....	" " " " " " " " " "	525	60 00
	E. D. Cockins.....	" " " " " " " " " "	526	58 33
	C. B. Guittard.....	" " " " " " " " " "	527	55 00
	H. N. Townshend.....	" " " " " " " " " "	528	55 00
	G. S. Kellicott.....	" " " " " " " " " "	529	55 00
	M. D. Jeffrey.....	" " " " " " " " " "	530	55 00
	Lucy Allen.....	" " " " " " " " " "	531	55 00
	C. M. Low.....	" " " " " " " " " "	532	54 17
	F. K. Luke.....	" " " " " " " " " "	533	50 00
	H. C. Price.....	" " " " " " " " " "	534	50 00
	Wm. Standley.....	" " " " " " " " " "	535	50 00
	B. LeBay.....	" " " " " " " " " "	536	50 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Sept. 30	D. C. Huddleson.....	Salary, Sept., 1899.....	537	\$50 00
	T. Boude	" "	538	45 00
Oct. 28	W. H. Case.....	Salary, October, 1899..	539	45 00
Sept. 30	M. Peck	Salary, Sept., 1899.....	540	40 00
	A. Chantler	" "	541	43 33
	G. A. Goodspeed.....	" "	542	40 00
	J. H. Brown.....	" "	543	40 00
	D. D. Geren.....	" "	544	40 00
	W. Whitestine.....	" "	545	40 00
	H. Chantler	" "	546	40 00
	G. C. Denny.....	" "	547	40 00
	M. N. Cook.....	" "	548	40 00
16	Dennis Clifford	" "	549	8 00
30	W. Townsel	" "	550	25 00
	J. C. Perry.....	" "	551	12 50
	Mrs. E. R. Hubler.....	" "	552	33 33
	James Kelley	" "	553	25 00
	Benj. Irwin	" "	554	45 00
	W. C. Weir.....	" "	555	20 00
	A. G. McCall.....	" "	556	20 00
	W. C. Mills.....	" "	557	35 00
9	W. C. Conklin.....	Extra jan. serv's (meet- ing A. A. A. S.) 18 d'ys Con. to exp's. of m't'g. Aug. 19-26, 1899.....	558	23 23
11	Edw. Orton, Pres. A. A. A. S.		559	500 00
18	Wm. Parks	Labor	560	5 00
	Wm. Cannan	Ceramics scholars'p fees	561	12 50
	Addie Lucas	Labor	562	7 50
	Geo. Lucas	"	563	2 50
	Lily Weeks	"	564	5 00
20	Lizzie Keenan	"	565	5 00
	Mrs. Helen Keenan.....	"	566	6 25
25	J. McLain Smith.....	Expenses as trustee.....	567	8 21
	Lily Weeks	Labor	568	5 00
30	Earl Conway	Sal., Sep., '99 (20 days)	569	13 33
	Alice Dufour	Salary, Sept., 1899.....	570	25 00
	C. F. Dowd.....	" "	571	20 00
	H. W. Kennedy.....	Emerson McMillin fel- lowship in astronomy.	572	30 00
	Wm. Cannan	Ceramics scholarship ..	573	20 00
	W. E. Mann.....	Em. McMillin scholar- ship in economics.....	574	25 00
	F. M. Hamilton.....	Salary, Sept., 1899.....	575	80 00
	W. C. Conklin.....	" "	576	40 00
	C. A. Grate.....	" "	577	30 00
	H. C. Allen.....	" "	578	115 00
29	Mrs. M. J. Kellenberger.	Serv. dept. dom. econ..	579	20 00
30	F. O. Clements.....	Salary, Sept., 1899.....	580	30 00
	J. F. Jeffrey.....	" "	581	10 00
Oct. 2	Dennis Clifford	Cleaning buildings	582	32 26
	Joe Garretson	Salary, Sept., 1899.....	583	37 50
	Lily Weeks	Labor	584	5 00
3	R. M. Rownd, P. M.....	Postage	585	51 80
4	L. B. Wing.....	Ex. m't'g of b'd & com.	586	7 30
	F. C. Caldwell.....	Cash advanced as per receipt filed.....	587	232 75
5	Carl Freigan	Books	588	7 00
	Publishers' Weekly	Trade list	589	2 00
	Chas. Bryson	Repairing chairs	590	29 65
	D. Appleton & Co.....	Annual cyclopedia	591	5 00
	Amer. Jour. of Physiol.	Book	592	5 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Oct. 5	Library Bureau.....	Blank book.....	593	\$8 50
	Psychological Review ..	Book	594	3 00
	Ira Miller	Notarial work	595	3 60
	A. H. Smythe.....	Let. files, paste, brushes	596	3 90
	Boston Bookbinding Co.	Binder	597	1 13
	Olive Jones	Cash advanced	598	1 25
	Burham Ant. Book Store	Books	599	5 00
	F. E. Inskeep.....	"	600	7 50
	S. A. Norton.....	"	601	55 00
	W. Morelan	Carpentry	602	1 00
	Mabel Huddleson	Work in library.....	603	7 00
	Boston Book Co.....	Books	604	57 00
	G. E. Stechert.....	"	605	410 52
	Seraphim Bl'nk. Bk. Co.	Binding	606	210 65
	E. H. Bailey.....	Labor	607	17 10
	E. G. Bailey.....	"	608	9 69
	D. L. Auld.....	Engraving	609	95
	Columbus Brass Co....	Fixtures	610	1 75
	A. E. Adair.....	Masonry	611	4 50
	Columbus Sewer P. Co.	Cement	612	90
	W. T. Magruder.....	Cash advanced	613	37 23
	L. S. Starrett Co.....	Tools	614	21 73
	Crosby St. G. & V. Co.	Gage	615	5 70
	J. S. Maclean.....	Book-case	616	32 50
	L. S. Wells.....	Book	617	5 25
	H. F. Whickham.....	Specimens	618	5 00
	Gold Mine Stores.....	Dry goods	619	5 15
	H. Osborn.....	Cash advanced	620	38 75
	DeLaval Separator Co..	Rope Belts	621	1 75
	Creamery Package Co..	Dairy Supplies	622	23 66
	Sells & Co.....	Feed	623	37 18
	H. A. Coe.....	Hulling clover seed....	624	15 00
	L. L. Hill.....	Clerical work	625	13 00
	O. V. Brumley.....	Labor	626	10 00
	H. J. Hammond.....	"	627	3 62
	H. Braun Sons & Co..	Drugs, etc.....	628	13 75
	Spahr & Glenn.....	Paper and printing....	629	11 15
	Livingston Seed Co....	Seeds	630	36 05
	Franklin Toil. Sup. Co.	Laundering	631	6 35
	M. L. Seymour.....	Clerical work	632	3 59
	W. A. Kellerman.....	Cash advanced	633	15 11
	James Penn	Draying	634	2 75
	L. A. Bowman.....	Apparatus	635	35 00
	W. E. Case.....	Labor	636	38 25
	Bourne & Kn'w's Mf. Co.	Gaskets	637	1 88
	J. M. & W. Westwater..	Brackets	638	3 50
	Jeffrey Mfg. Co.....	Chain and wheels.....	639	5 00
	Capital City Mach. Wks.	Castings	640	56 49
	Columbus Gas. Co.....	Gas	641	80 86
	Sipe & Sigler.....	Bells	642	2 52
	B. B. Wells.....	Carpentry	643	15 40
	Hanna Paint Mfg. Co..	Paint	644	2 65
	M. C. Hunter.....	Labor	645	9 75
	G. M. Berndroth.....	"	646	12 00
	Wm. Erdman.....	"	647	8 50
	Hall-Collins Hdw. Co..	Hardware	648	12 05
	W. A. Knight.....	Cash advanced	649	3 40
	F. E. Sanborn.....	"	650	2 75
	Columbus Varnish Co..	Alcohol	651	10 30
	W. H. Anderson & Co..	Books	652	22 50
	F. Charles	Draying	653	5 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Oct. 5	Cherrington P. & E. Co.	Stamp and pad.....	654	\$2 75
	W. J. Davidson.....	Draying	655	50
	T. J. Dundon & Co.....	Sawdust	656	3 00
	J. S. Maclean.....	Lumber	657	11 25
	F. J. Heer.....	Electrotypes	658	50
	Penna. Fuel Co.....	Coal	659	4 40
	P. Hayden S. Hdw. Co.	Hardware	660	50 01
	J. G. Pulling & Co.....	Pump parts	661	10 00
	Columbus Gas Co.....	Coke	662	14 16
	Chicago L. S. & S. Co.	Balances, etc.....	663	102 10
	Samuel Butler & Co.....	Soap	664	22 50
	Columbus Supply Co...	Supplies	665	201 48
	Rood Lumber Co.....	Lumber	666	25 00
	Burrows Bros. Co.....	Books	667	240 61
	R. W. Funk.....	Labor	668	28 58
	F. O. Clements.....	"	669	8 00
	L. A. Harsh & Co.....	Mop wringer pail.....	670	6 00
	J. S. Schofield.....	Oil	671	2 50
	Moneypenny-Ham'd. Co.	Sapolio	672	9 00
	Standard Oil Co.....	Oil	673	8 74
	Erner & Hopkins.....	Electrical apparatus	674	4 84
	G. T. Johnson.....	Toilet paper.....	675	37 50
	Bucher Eng. Co.....	Etching	676	2 00
	C. W. Bryant.....	Cleaning vaults	677	38 00
	Samuel Smith.....	Sapolio	678	10 00
	R. I. Fulton.....	Clock	679	5 00
	Col. Pharmacal Co.....	Oint jars	680	35
	J. C. Beard.....	Lettering	681	3 00
	Nitschke Bros.....	Rubber bands	682	1 88
	E. H. Moore.....	Guide service	683	3 12
	J. H. Burgess.....	"	684	37
	Annie McLaughlin.....	Work on class records..	685	6 82
	H. R. Powell.....	" " "	686	4 95
	Grace Eagleson.....	Clerical work	687	4 95
	F. J. Pavlicek.....	Guide service	688	3 75
	C. C. Wilcox.....	"	689	3 93
	C. R. Hambleton.....	"	690	3 83
	F. C. Long.....	"	691	1 25
	C. F. Johnson.....	"	692	1 87
	F. C. McKinney.....	"	693	9 12
	M. Snow.....	"	694	10 00
	Miller Furniture Co.....	Furniture	695	62 95
	Schoedinger, F'rn & Co.	Hardware	696	13 92
	Hasbrook, Barger Co..	Dishes	697	5 90
	F. E. Flescher.....	Labor	698	6 75
	Eaton Machine Works..	Locker parts and drills..	699	7 82
	McClelland & Co.....	Office supplies	700	19 20
	Bausch & Lomb Opt. Co.	Optical instruments and supplies	701	466 15
	Krauss, Butler & B. Co.	Shades	702	30 00
	Col. Transfer Co.....	Use of wagon.....	703	9 00
	Webb Sta. & Ptg. Co...	Blank books	704	22 50
	U. B. Publishing House.	Advertising	705	15 10
	Ohio State Journal Co..	"	706	6 00
	Champlin Printing Co..	Printing	707	255 55
	Murray City Coal Co...	Coal	708	142 99
	H. W. Johns Mfg. Co...	Paints	709	6 88
	Charles Vogel.....	Labor	710	6 25
	Vogelgesang Furn. Co..	Repairs	711	63 20
	L. Fink.....	Papering	712	23 00
	W. R. Beattie.....	Labor	713	8 10

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Oct. 5	J. C. Perry.....	Labor	714	\$10 95
	Kelton & Converse....	Lumber	715	269 06
	Central Ohio Paper Co.	Paper	716	114 40
	P. A. Fenstermaker....	Painting, etc.....	717	47 86
	J. W. Cawthorn.....	Carpentry	718	42 75
	F. Fleischer	Labor	719	8 70
	Col. Paint Mfg. Co.....	Paint	720	28 66
	Col. Supply Co.....	Hardware	721	247 51
	Col. Wire and Iron Wks.	Wire guards	722	29 40
	Masury, Young & Co..	Oil	723	30 00
	B. D. Potts.....	Hardware	724	86 50
	Palmer & Beck.....	Roofing	725	105 11
	Tallmadge Hardw. Co..	Hardware	726	79 21
	E. Doddington & Co..	Lumber	727	280 94
	M. P. Street.....	Masonry	728	6 75
	J. J. Gheen.....	Plastering	729	84 15
	E. F. Moore.....	Labor	730	2 02
	Rilen Masters	Man and team.....	731	2 40
	A. F. Wilcox.....	Labor	732	14 25
	W. Morelan	Carpentry	733	9 00
	J. C. Howard.....	Painting	734	2 55
	J. H. Randall.....	Carpentry	735	26 75
	J. H. Schaeffer.....	"	736	39 00
	L. Schaeffer	"	737	17 50
	C. Shaffer	"	738	31 00
	Sheppard & Co.....	Printing	739	2 00
	C. N. Mooney.....	Labor	740	10 50
	W. E. Mann.....	Labor	741	11 55
	P. F. Yoerger.....	Painting	742	2 00
	Curts & Jennings....	Advertising	743	15 12
	Ruggles-Gale Co.....	Mounting maps, etc.	744	4 70
	Col. P. & W. Glass Co..	Glass	745	3 75
	C. B. Morrey.....	Platinum crucible ..	746	12 00
	Tracy-Wells & Co.....	Tags	747	11 20
	Hann & Adair.....	Printing	748	53 14
	Blackwood, Green & Co.	Hardware	749	31 28
	Kimball & Matthews....	Photo supplies	750	162 46
	Mallinckrodt Chem. Wks.	Acids	751	124 31
	W. H. Mullins.....	Castings	752	9 00
	Green, Joyce & Co.....	Towels	753	63 00
	H. Troemner.....	Repairing balances ..	754	52 75
	Kauffman, Lattimer Co.	Chemical apparatus ..	755	686 79
	Col. Mill & M. S. Co..	Hardware	756	25 88
	Engelke & Bigelow....	Freight and draying...	757	49 10
	J. W. Groves.....	Salary, Sept., 1899....	758	50 00
9	L. Weeks	Work in gymnasium....	759	5 00
15	C. E. Barnett.....	Oct. salary, ½ month...	760	32 50
12	Sherwood Mfg. Co.....	Cleaners and cutters...	761	37 24
14	Ohio National Bank....	Foreign bill exchange...	762	11 35
	Ohio National Bank....	"	763	21 85
	Ohio National Bank....	"	764	59 90
16	L. Weeks	Services as maid.....	765	5 00
28	W. O. Thompson.....	Salary, Oct., 1899....	766	416 67
	Alexis Cope.....	"	767	187 50
	C. E. Steeb.....	"	768	37 50
	J. Blackford.....	"	769	54 17
	E. D. Cockins.....	"	770	58 33
	T. F. Hunt.....	"	771	250 00
	G. W. Knight.....	"	772	250 00
	W. F. Hunter.....	"	773	250 00
	A. M. Bleile.....	"	774	225 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Oct. 28	C. N. Brown.....	Salary, Oct., 1899.....	775	\$225 00
	A. C. Barrows.....	" " " ".....	776	225 00
	R. D. Bohannon.....	" " " ".....	777	225 00
	B. L. Bowen.....	" " " ".....	778	225 00
	S. C. Derby.....	" " " ".....	779	225 00
	J. V. Denney.....	" " " ".....	780	225 00
	E. A. Eggers.....	" " " ".....	781	225 00
	J. P. Gordy.....	" " " ".....	782	225 00
	W. A. Kellerman.....	" " " ".....	783	225 00
	W. R. Lazenby.....	" " " ".....	784	225 00
	Wm. McPherson.....	" " " ".....	785	225 00
	W. T. Magruder.....	" " " ".....	786	225 00
	H. Osborn.....	" " " ".....	787	225 00
	J. R. Smith.....	" " " ".....	788	225 00
	W. H. Scott.....	" " " ".....	789	225 00
	B. F. Thomas.....	" " " ".....	790	225 00
	H. A. Weber.....	" " " ".....	791	225 00
	N. W. Lord.....	" " " ".....	792	200 00
	F. A. Ray.....	" " " ".....	793	200 00
	G. B. Kauffman.....	" " " ".....	794	200 00
	Ed. Orton, Jr.....	" " " ".....	795	180 00
	J. N. Bradford.....	" " " ".....	796	180 00
	F. E. Sanborn.....	" " " ".....	797	180 00
	H. C. Lord.....	" " " ".....	798	160 00
	F. C. Clark.....	" " " ".....	799	160 00
	G. W. McCoard.....	" " " ".....	800	160 00
	C. P. Linhart.....	" " " ".....	801	160 00
	D. S. White.....	" " " ".....	802	160 00
	F. C. Caldwell.....	" " " ".....	803	160 00
	Ed. Orton.....	" " " ".....	804	150 00
	E. A. Hitchcock.....	" " " ".....	805	150 00
	C. S. Prosser.....	" " " ".....	806	150 00
	W. D. Gibbs.....	" " " ".....	807	160 00
	P. G. Bowen.....	" " " ".....	808	140 00
	W. H. Page.....	" " " ".....	809	140 00
	W. H. Siebert.....	" " " ".....	810	135 00
	O. B. Jones.....	" " " ".....	811	135 00
	S. A. Norton.....	" " " ".....	812	120 00
	E. B. Kinkead.....	" " " ".....	813	120 00
	J. E. Boyd.....	" " " ".....	814	120 00
	H. C. Allen.....	" " " ".....	815	115 00
	C. E. Sherman.....	" " " ".....	816	110 00
	T. E. French.....	" " " ".....	817	110 00
	J. R. Taylor.....	" " " ".....	818	110 00
	C. W. Mesloh.....	" " " ".....	819	110 00
	A. W. Hodgman.....	" " " ".....	820	110 00
	J. H. Schaffner.....	" " " ".....	821	100 00
	W. E. Henderson.....	" " " ".....	822	100 00
	J. A. Bownocker.....	" " " ".....	823	100 00
	W. A. Knight.....	" " " ".....	824	100 00
	C. L. Arnold.....	" " " ".....	825	100 00
	K. D. Swartzel.....	" " " ".....	826	100 00
	C. B. Morrey.....	" " " ".....	827	100 00
	W. L. Graves.....	" " " ".....	828	100 00
	C. A. Bruce.....	" " " ".....	829	100 00
	F. M. Hamilton.....	" " " ".....	830	80 00
	Geo. H. McKnight.....	" " " ".....	831	90 00
	Wm. Renck.....	" " " ".....	832	85 00
	J. S. Hine.....	" " " ".....	833	85 00
	F. L. Landacre.....	" " " ".....	834	85 00
	C. P. Crowe.....	" " " ".....	835	80 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Oct. 28	A. E. Vinson.....	Salary, Oct., 1899.....	836	\$80 00
	Col. Water Works.....	Water rents	837	422 66
	F. E. Kester.....	Salary, Oct., 1899.....	838	80 00
	Mrs. James Canfield....	" "	839	75 00
	E. O. Randall.....	" "	840	70 00
	D. F. Pugh.....	" "	841	70 00
	W. A. Landacre.....	" "	842	70 00
	W. F. Lavery.....	" "	843	70 00
	C. B. Frederick.....	" "	844	70 00
	John B. Sanborn.....	" "	845	70 00
	E. E. Somermeier.....	" "	846	70 00
	T. K. Lewis.....	" "	847	60 00
	F. A. Fish.....	" "	848	60 00
	C. B. Guittard.....	" "	849	55 00
	H. N. Townshend.....	" "	850	55 00
	G. S. Kellicott.....	" "	851	55 00
	Maude D. Jeffrey.....	" "	852	55 00
	Lucy Allen.....	" "	853	55 00
	O. V. Brumley.....	" "	854	50 00
	S. W. Martin.....	" "	855	50 00
	D. C. Huddleson.....	" "	856	50 00
	A. V. Bleininger.....	" "	857	40 00
	J. B. Parker.....	" "	858	30 00
	M. Dresbach.....	" "	859	30 00
	F. O. Clements.....	" "	860	45 00
	H. C. Gore.....	" "	861	30 00
	J. H. Vosskuehler.....	" "	862	30 00
	A. H. McIntire.....	" "	863	30 00
	E. L. Ball.....	" "	864	30 00
	J. W. Young.....	" "	865	30 00
	C. A. Grate.....	" "	866	30 00
	F. J. Hale.....	" "	867	30 00
	S. W. Collett.....	" "	868	25 00
	H. W. Brown.....	" "	869	25 00
	J. H. Collins.....	" "	870	20 00
	J. A. Shauck.....	" "	871	17 50
	E. H. Bailey.....	" "	872	15 00
	R. E. McIntosh.....	" "	873	12 50
	W. C. McCracken.....	" "	874	150 00
	E. E. Harrold.....	" "	875	90 00
	J. P. Covan.....	" "	876	70 00
	G. R. Rose.....	" "	877	65 00
	F. Ruhlen.....	" "	878	60 00
	A. F. Hall.....	" "	879	60 00
	C. M. Low.....	" "	880	54 17
	F. K. Luke.....	" "	881	50 00
	H. C. Price.....	" "	882	50 00
	W. Standley.....	" "	883	50 00
	B. LeBay.....	" "	884	50 00
	T. Boude.....	" "	885	45 00
	M. Peck.....	" "	886	40 00
	A. Chantler.....	" "	887	45 00
	G. A. Goodspeed.....	" "	888	40 00
	J. H. Brown.....	" "	889	40 00
	D. D. Geren.....	" "	890	40 00
	W. W. Whitestine.....	" "	891	40 00
	H. Chantler.....	" "	892	40 00
	G. C. Denny.....	" "	893	40 00
	M. N. Cook.....	" "	894	40 00
	W. C. Conklin.....	" "	895	40 00
	T. E. Osborn.....	" "	896	40 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Oct. 28	W. Townsel.....	Salary, Oct., 1899.....	897	\$25 00
	J. C. Perry.....	" ".....	898	12 50
	J. Garrettson.....	" ".....	899	37 50
	B. Irwin.....	" ".....	900	45 00
	James Kelly.....	" ".....	901	25 00
	Mrs. E. R. Hubler.....	" ".....	902	33 33
	W. C. Weir.....	" ".....	903	20 00
	A. G. McCall.....	" ".....	904	20 00
	W. E. Mann.....	" ".....	905	25 00
	H. W. Kennedy.....	" ".....	906	30 00
	Wm. Cannon.....	" ".....	907	20 00
	W. C. Mills.....	" ".....	908	35 00
	Alice Dufour.....	" ".....	909	25 00
	Grace Pitts.....	" ".....	910	30 00
	C. L. Dowd.....	" ".....	911	20 00
	Earl Conway.....	" ".....	912	20 00
	N. P. Oglesby.....	" ".....	913	40 00
	D. A. Kohr.....	" ".....	914	60 00
	J. A. Jeffrey.....	" ".....	915	10 00
	J. W. Groves.....	" ".....	916	50 00
23	Flint & Wall'g Mfg. Co.	Pipe.....	917	60 43
	Lily Weeks.....	Gym. service.....	918	5 00
24	Mrs. M. J. Kellenberger	5 weeks' service dept. domestic economy.....	919	25 00
Nov. 26	Chas. H. Woodruff.....	Salary, Oct., 1899.....	920	65 00
1	Lily Weeks.....	Labor.....	921	5 00
4	R. M. Rownd, P. M....	Postage stamps.....	922	17 00
5	Lily Weeks.....	Serv. as jan. gymnasium	923	5 00
10	W. C. Heller & Co.....	Steel boxes.....	924	7 70
	Gregory Electric Co....	Lamps and switches.....	925	13 90
	Sipe & Sigler.....	Cells.....	926	2 77
	Kinkade & Liggett.....	Wire screens.....	927	9 40
	Western Electric Co....	Shade and globes.....	928	2 08
	The Circleville Ice Co..	Ice and refrigeration.....	929	25 00
	The Ashcroft Mfg. Co..	Guage repairs.....	930	24 25
	Blackwood, Green & Co.	Tin, tanks, etc.....	931	30 60
	The P. Hayden Saddlery and Hdw. Co.....	Tin and copper.....	932	53 84
	The G. B. Schulte S. Co.	Steel and shafting.....	933	19 75
	Wm. Erdman.....	Student labor.....	934	17 00
	O. I. Dick.....	".....	935	4 88
	G. M. Berndroth.....	".....	936	32 60
	Hall-Collins Hdw. Co..	Brads, screws, etc.....	937	11 44
	M. C. Hunter.....	Student labor.....	938	10 80
	Col. Forge & Iron Co..	Anvil.....	939	6 88
	Brown & Sharpe Mf. Co.	Rule, device and hob....	940	19 34
	Cleve'd Twist Drill Co.	Drills.....	941	7 32
	Burr's Damascus T. Co.	Tools.....	942	19 62
	The Hasbr'k-Bargar Co.	Dishes and supplies.....	943	2 78
	The Alpha Dairy Co..	Milk and butter.....	944	2 85
	Logan McCormick.....	Frames.....	945	11 90
	J. A. Wallace.....	Lecture.....	946	5 00
	Palmer & Beck.....	Flowerpots.....	947	20 00
	Glucose Sugar Ref. Co.	Gluten meal.....	948	42 40
	Champlin Printing Co..	Printing postals.....	949	5 15
	Sells & Co.....	Feed.....	950	24 53
	Woodard Photo Co....	Slides.....	951	7 00
	Deering Harvester Co..	Repairs, oil, etc.....	952	129 37
	Laura L. Hill.....	Clerical work.....	953	13 00
	Warren-Southw'k C. Co.	Dairy wagon.....	954	200 00
	W. H. Hoskins.....	Advertising.....	955	17 50

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 10	R. L. McClelland.....	Labor	956	\$1 25
	D. S. White.....	Sundries	957	4 75
	A. N. Irwin.....	Work and supplies.....	958	28 89
	The Breeders' Gazette..	Advertising	959	22 00
	David C. Beggs Co.....	Shades	960	5 50
	F. A. Ward.....	Mounting tiger	961	75 00
	Champlin Printing Co..	Printing	962	9 50
	E. C. Livenspire.....	Hooks, rings, etc.....	963	2 30
	The Griswold, Sohl Co.	Iron and cutting.....	964	81
	John Bower.....	Masonry	965	18 00
	Neely & Converse.....	Work on coal bin.....	966	29 85
	Kinkade & Liggett.....	Work on roof.....	967	6 40
	Louis Lind.....	Sewer pipe	968	38 35
	M. P. Streett.....	Brick and labor.....	969	224 36
	Fitzpatrick & Hoepfner.	Plumbing	970	38 46
	J. S. Maclean.....	Material	971	13 00
	P. Hayden Sad.-H. Co.	Castings, stock, etc....	972	60 67
	Eimer & Amend.....	Pumps	973	4 61
	F. O. Schoedinger.....	Roof	974	46 00
	Borger Bros. & Co.....	Work on stock.....	975	24 49
	H. H. Walling.....	Painting	976	15 50
	J. S. Maclean.....	Sawdust	977	3 00
	Edgar B. Fox.....	Superintending building	978	25 00
	Robert Lawson.....	Door sills	979	3 20
	Arthur Watt.....	Labor	980	26 66
	Borden & Selleck Co...	Milk scales	981	7 00
	Burrows Bros. Co.....	Zeller Aristotle	982	4 68
	Schilling Foundry Co..	Castings	983	44
	Nitschke Bros.....	Envelopes	984	1 40
	John Lawrence.....	Generator	985	6 50
	Ziegler Elec. Co.....	Balances	986	5 10
	Andrew Spittal.....	Work in physics dept....	987	69 16
	Lawrence Press Co.....	Checks, blanks, etc....	988	1 75
	A. E. Foote.....	Pyrolusite	989	3 38
	Baker & Co.....	Platinum ware	990	149 89
	Hann & Adair.....	Printing	991	4 55
	The Seraphim B. B. Co.	Books	992	57 00
	Chicago Bl. Pr. Pap. Co.	B. P. paper	993	2 40
	Kimball & Matthews....	Photo material	994	8 76
	Kauffman, Lattimer Co.	Drugs and sundries.....	995	475 00
	Amer. Aristotype Co..	Plates	996	9 75
	Baker & Adamson C. Co.	Chemicals	997	19 85
	Mallinckrodt Chm. Wks.	"	998	209 77
	John Carbutt.....	Plates	999	35 74
	Chicago L. Sup. & S. Co.	Sundries	1000	54 77
	G. F. Balck Mfg. Co.....	Pumps	1001	1,030 00
	H. A. Getz.....	Floral wreath	1002	20 00
	B. D. Potts.....	Flange	1003	81
	Col. M. & Mine Sup. Co.	Supplies	1004	268 06
	J. M. & W. Westwater..	"	1005	20 00
	R. F. Morse.....	Guage preserver	1006	3 25
	Elec. Appliance Co.....	Supplies	1007	101 00
	Man. Gen. Con. Co.....	Bulb and globe.....	1008	1 25
	Bugbee & Laycock.....	Crank pin braces.....	1009	4 40
	Westing El. Mfg. Co...	Switch	1010	15 75
	C. L. Traver.....	Books and express.....	1011	2 12
	Journal of C. & C. Bull.	1 copy year book.....	1012	1 25
	Chas Scribner's Sons...	Books	1013	1 73
	W. L. Redrow.....	Student help.....	1014	15 15
	L. B. Wing.....	Trustee expenses	1015	8 00
	U. S. Mort. & Tr. Co..	Bonds due Dec. 1st.....	1016	25,000 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 10	U. S. Mort. & Tr. Co..	Interest due Dec. 1st....	1017	\$2,812 50
	Clinton National Bank..	" " " "	1018	1,800 00
	Clinton National Bank..	" " " "	1019	3,825 00
	Z. L. White.....	Shade	1020	1 10
	Green, Joyce & Co.....	Crash	1021	4 20
	A. M. Bleile.....	Supplies	1022	6 46
	M. C. Lilley & Co.....	Bugles and cord.....	1023	12 00
	Miller Furniture Co.....	Chairs tables and tips..	1024	15 39
	Tallmadge Hard. Co....	Glass	1025	7 20
	James Penn	Oats	1026	4 71
	A. C. Barrows.....	Stamp and pad.....	1027	50
	F. C. Clark.....	Envelopes and cards....	1028	1 84
	Library Bureau	Label holders & supports	1029	7 50
	Univ. of Chicago Press.	Pol. Econ. Journal.....	1030	14 04
	Spahr & Glenn.....	Reading statements	1031	1 75
	D. Appleton & Co.....	Spencers Sociology.....	1032	32 50
	Burrows Bros. & Co.....	Standard Dictionary ..	1033	17 00
	Col. Supply Co.....	Pipe and fittings.....	1034	18 23
	C. K. Leith.....	Collections of rocks....	1035	40 00
	Jas. Penn	Hauling	1036	50
	A. E. Day.....	Work	1037	50
	J. J. Gheen.....	Plastering	1038	33 60
	Hanna Paint Mfg. Co..	Filler and oil.....	1039	3 00
	S. S. Rickley, Treas....	Labor of A. B. Coover..	1040	5 87
	W. C. Mills.....	Supplies	1041	5 04
	B. F. McCarty & Co....	Frogs	1042	6 00
	Orvis & Marshall.....	Spacer and paper.....	1043	3 00
	J. S. Hine.....	Department supplies ..	1044	9 95
	G. V. Bailey.....	Mounting skeleton	1045	14 00
	F. J. Tyler.....	Lab. work	1046	2 25
	Payne-McD. Hdw. Co..	Supplies	1047	18 07
	H. H. & C. S. Brinkey..	Department supplies ..	1048	5 08
	A. W. Livingston's Sons	Pots	1049	17 10
	O. E. Jennings.....	Labor	1050	4 50
	Kimball & Matthews....	Repairs, etc.....	1051	2 20
	N. M. Glatfelter.....	Herbarium specimens ..	1052	5 50
	C. O. Paper Co.....	Paper	1053	4 66
	Edna Armstrong.....	Work on herbarium....	1054	1 50
	Hann & Adair.....	Envelopes and papers..	1055	8 50
	Payne-McD. Hdw. Co..	Bot. dept. supplies....	1056	11 22
	J. Wanamaker	Books	1057	24 10
	W. H. Mears.....	Labor	1058	2 34
	F. W. Arnold.....	"	1059	2 50
	H. Mesloh	"	1060	2 28
	O. D. Clark.....	"	1061	3 91
	C. L. Wottring.....	"	1062	6 65
	Ira McKinley	"	1063	5 43
	A. F. Wilcox.....	"	1064	44 00
	F. W. Nelson.....	"	1065	2 59
	Krauss, Butler & B. Co.	Linoleum	1066	30 00
	M. Rice	Work	1067	4 00
	M. Huddleson.....	"	1068	10 00
	Mason Snow	"	1069	12 32
	Robt. Clarke Co.....	Book	1070	2 60
	Burrows Bros. Co.....	Books library	1071	136 21
	G. E. Stechert.....	"	1072	135 48
	J. W. Shaw.....	Labor	1073	11 46
	Library Bureau	Cards, boxes, etc.....	1074	33 43
	Boston Book Co.....	Books	1075	100 00
	S. A. Norton.....	Chemical works	1076	22 00
	S. N. Young.....	Work in law library....	1077	9 20

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 10	Seraphim Blank, B. Co.	Binding	1078	\$22 30
	Spahr & Glenn.....	Printing	1079	9 25
	The H. Cole Co.....	Thumb tacks.....	1080	1 10
	A. H. Smythe.....	Files	1081	2 50
	R. L. Babb.....	Year book.....	1982	5 00
	Orvis & Marshall.....	Ribbon paper	1083	2 75
	Miller's Fair	Hooks	1084	75
	Col. Mdse. Co.....	Erasers	1085	9 00
	Jas. Penn	Hauling	1086	5 30
	T. J. O'Neil.....	Rent of canvas.....	1087	4 50
	C. F. Slyh. Supt.....	Vault cleaning	1088	10 60
	Spahr & Glenn.....	Envelopes	1089	2 25
	Geo. Roth	Guide	1090	2 00
	F. C. Long.....	"	1091	3 00
	W. U. Telegraph Co...	Telegrams	1092	5 65
	W. G. Wallace.....	Guide	1093	3 25
	Tracy Wells Co.....	Sundries	1094	28 00
	Mrs. F. D. Myers.....	Washing towels.....	1095	4 75
	Amer. Dist. Tel. Co.....	Night watch boxes.....	1096	27 00
	Green, Joyce & Co.....	Ribbon	1097	4 68
	Standard Oil Co.....	Oils	1098	34 42
	Nitschke Bros	Printing	1099	35 67
	C. U. Telephone Co.....	Service	1100	69 68
	Nitschke Bros	Wrapping paper.....	1101	28 00
	Z. L. White & Co.....	Ribbon	1102	4 80
	Chas. Lowe	Night watch	1103	1 50
	M. C. Lilley & Co.....	Repairs flag	1104	1 25
	E. L. Orndorff.....	Guide	1105	4 25
	F. C. McKinney.....	"	1106	5 75
	C. H. Woodruff.....	Labor	1107	6 50
	C. M. & W. Westwater.	Globes	1108	50
	Agric. Students P. Co..	Advertising	1109	80 00
	Shaw Walker Co.....	Desk boxes	1110	4 30
	Cent. O. Paper Co.....	Brands, etc.....	1111	3 61
	E. G. Soltman.....	Drawing tables	1112	22 50
	Schilling Foundry Co..	C. iron	1113	1 80
	Franklin Toilet Sup. Co.	Towels, etc.....	1114	2 50
	The Bristol Co.....	Charts	1115	1 17
	Crosby St. G. & V. Co.	Repairs	1116	1 00
	Hohmann, M. Mfg. Co.	Flue, etc.....	1117	26 25
	Cols. Machine Co.....	Chemicals	1118	3 15
	S. W. Smith.....	Office chair	1119	3 75
	E. G. Bailey.....	Labor	1120	14 38
	F. J. Hale.....	Lab. work	1121	2 40
	W. T. Magruder.....	Telegram	1122	50
	Nitschke Bros	Ink	1123	50
	McClellan & Co.....	Stencil	1124	1 05
	Col. Supply Co.....	Packing	1125	7 50
	C. U. Telephone Co.....	Telephone service	1126	90
	M. L. Seymour.....	Clerical work	1127	6 00
	Domestic Laundry	Laundrying	1128	30 00
	J. C. Porterfield.....	Basket balls	1129	12 50
	A. G. Spaulding & Bros.	Lunger	1130	2 10
	Cols. Wire & Iron Wks.	Guards and rods.....	1131	6 50
	Wm. Taylor M. & G. Co.	Lumber, etc.....	1132	521 97
	Keasbey & Mattison....	Magnabestos covering..	1133	40 00
	Flint & Walling Mf. Co.	Pipe	1134	24 46
	M. P. Streett.....	Masonry	1135	12 50
	Col. Sewer Pipe Co.....	Pipe	1136	11 55
	James LeRoy	Labor	1137	13 65
	The Fish Stone Co.....	Stone	1138	* 9 18

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 10	Fred Fleischer.....	Stone	1139	\$13 65
	Eaton Machine Works..	Cable, etc	1140	31 88
	Harry Kinnear	Wiring	1141	3 60
	Krauss, Butler & B. Co.	Shades	1142	19 90
	Tallmadge Hardware Co.	Supplies	1143	33 38
	Charles W. Herb.....	Letter files	1144	15 50
	Engelke & Bigelow....	Drayage and freight...	1145	79 61
	C. E. Stechert.....	Books	1146	3 40
	Luth. Book Concern....	Binding	1147	2 25
	Osborn, Wil'ms & Horn	Coal	1148	23 42
	Col. M. & Mine Sup. Co.	Supplies	1149	15 56
	Murray City Coal Co...	Coal	1150	683 12
	H. Braun Sons & Co...	Sundries	1151	10 38
	J. H. Randall.....	Carpenter work	1152	27 00
	Columbus Brass Co....	Goose-necks, etc.....	1153	6 27
	J. C. Howard.....	Painting	1154	90 75
	Columbus Supply Co...	Supplies	1155	51 23
	Champlin Printing Co..	Printing	1156	124 25
	Erner & Hopkins.....	Supplies	1157	17 78
	Vogelgesang Furn. Co..	Register and chim top..	1158	59 00
	Cap. City Mach. Wks..	Supplies	1159	8 93
	E. Doddington & Co...	Lumber	1160	80 13
	Hann & Adair.....	Sundries	1161	22 62
	Schoedinger, F'r'n & Co.	"	1162	14 29
	Kelton & Converse....	Lumber	1163	198 76
	J. S. Abbott & Co.....	Hardware	1164	39 59
	Blackwood, Green & Co.	"	1165	18 37
	Wm. Burdell, Jr.....	Hames, etc.....	1166	45 50
	Bausch & Lomb Opt. Co.	Microscopes, etc.....	1167	167 93
	J. W. Cawthon.....	Carpentry	1168	20 25
	A. F. Wilcox.....	"	1169	12 50
	Wilbert Morelan	"	1170	13 25
	Louis Schaffer	"	1171	19 50
	Clinton Schaffer	"	1172	21 25
	M. D. Geary.....	"	1173	12 50
	W. H. Waters.....	Labor	1174	36 00
	Columbus Gas Co.....	Gas	1175	130 12
13	John T. Mack.....	Expense	1176	31 30
	Lily Weeks	Gym. work	1177	5 00
16	C. H. E. Moore.....	Reading math. papers...	1178	5 00
	Mrs. Anna D. Orton...	Salary Dr. Orton, Nov- Dec., 1899.....	1179	300 00
	E. O. Fippin.....	Military services	1180	50 00
17	D. M. Massie.....	Expenses as trustee....	1181	40 22
	Ohio National Bank....	Bill Exc. order I. Hayez	1182	5 00
18	Ohio National Bank....	Same to ord. L. Stender	1183	20 10
20	Bannon & Bannon.....	Printing brief, O. S. U. vs. Cuppett & Webb..	1184	25 90
25	W. O. Thompson.....	Salary, Nov., 1899....	1185	416 67
22	Alex. Cope	"	1186	187 50
21	Carl E. Steeb.....	"	1187	50 00
25	Katherine Duncan	"	1188	50 00
	Edith D. Cockins.....	"	1189	58 33
	T. F. Hunt.....	"	1190	250 00
	Geo. W. Knight.....	"	1191	250 00
	W. F. Hunter.....	"	1192	250 00
	A. M. Bleile.....	"	1193	225 00
	C. N. Brown.....	"	1194	225 00
	A. C. Barrows.....	"	1195	225 00
	R. D. Bohannon.....	"	1196	225 00
	B. L. Bowen.....	"	1197	225 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899 Nov. 25	S. C. Derby.....	Salary, Nov., 1899.....	1198	\$225 00
	J. V. Denney.....	" " ".....	1199	225 00
	E. A. Eggers.....	" " ".....	1200	225 00
	J. P. Gordy.....	" " ".....	1201	225 00
	W. A. Kellerman.....	" " ".....	1202	225 00
	W. R. Lazenby.....	" " ".....	1203	225 00
	Wm. McPherson.....	" " ".....	1204	225 00
	W. T. Magruder.....	" " ".....	1205	225 00
	H. Osborn.....	" " ".....	1206	225 00
	J. R. Smith.....	" " ".....	1207	225 00
	W. H. Scott.....	" " ".....	1208	225 00
	B. F. Thomas.....	" " ".....	1209	225 00
	H. A. Weber.....	" " ".....	1210	225 00
	N. W. Lord.....	" " ".....	1211	200 00
	Frank A. Ray.....	" " ".....	1212	200 00
	G. B. Kauffman.....	" " ".....	1213	200 00
	Edward Orton, Jr.....	" " ".....	1214	180 00
	J. N. Bradford.....	" " ".....	1215	180 00
	F. E. Sanborn.....	" " ".....	1216	200 00
	H. C. Lord.....	" " ".....	1217	160 00
	F. C. Clark.....	" " ".....	1218	160 00
	G. W. McCoard.....	" " ".....	1219	160 00
	C. P. Linhart.....	" " ".....	1220	160 00
	D. S. White.....	" " ".....	1221	160 00
	F. C. Caldwell.....	" " ".....	1222	160 00
	E. A. Hitchcock.....	" " ".....	1223	150 00
	C. S. Prosser.....	" " ".....	1224	150 00
	W. D. Gibbs.....	" " ".....	1225	160 00
	P. G. Bowman.....	" " ".....	1226	140 00
	W. H. Page.....	" " ".....	1227	140 00
	W. H. Siebert.....	" " ".....	1228	135 00
	O. B. Jones.....	" " ".....	1229	135 00
	S. A. Norton.....	" " ".....	1230	120 00
	E. B. Kinkead.....	" " ".....	1231	120 00
	James E. Boyd.....	" " ".....	1232	120 00
	H. C. Allen.....	" " ".....	1233	115 00
	C. E. Sherman.....	" " ".....	1234	110 00
	J. R. Taylor.....	" " ".....	1235	110 00
	T. E. French.....	" " ".....	1236	110 00
	C. W. Mesloh.....	" " ".....	1237	110 00
	A. W. Hodgman.....	" " ".....	1238	110 00
	J. H. Schaffner.....	" " ".....	1239	100 00
	W. E. Henderson.....	" " ".....	1240	100 00
	J. A. Bownocker.....	" " ".....	1241	100 00
	W. A. Knight.....	" " ".....	1242	100 00
	C. L. Arnold.....	" " ".....	1243	100 00
	K. D. Swartzel.....	" " ".....	1244	100 00
	C. B. Morrey.....	" " ".....	1245	100 00
	W. L. Graves.....	" " ".....	1246	100 00
	C. A. Bruce.....	" " ".....	1247	100 00
	F. M. Hamilton.....	" " ".....	1248	80 00
	G. H. McKnight.....	" " ".....	1249	90 00
	Wm. Renck.....	" " ".....	1250	85 00
	J. S. Hine.....	" " ".....	1251	85 00
	F. L. Landacre.....	" " ".....	1252	85 00
	C. P. Crowe.....	" " ".....	1253	80 00
	A. E. Vinson.....	" " ".....	1254	80 00
	F. E. Kester.....	" " ".....	1255	80 00
	S. E. Canfield.....	" " ".....	1256	75 00
	E. O. Randall.....	" " ".....	1257	70 00
	D. F. Pugh.....	" " ".....	1258	95 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 25	W. A. Landacre.....	Salary, Nov., 1899.....	1259	\$70 00
	W. F. Lavery.....	" " ".....	1260	70 00
	C. B. Frederick.....	" " ".....	1261	70 00
	J. B. Sanborn.....	" " ".....	1262	70 00
	E. E. Sommermeier.....	" " ".....	1263	70 00
	T. K. Lewis.....	" " ".....	1264	60 00
	F. A. Fish.....	" " ".....	1265	60 00
	C. B. Guittard.....	" " ".....	1266	55 00
	H. N. Townshend.....	" " ".....	1267	55 00
	G. Kellicott.....	" " ".....	1268	55 00
	Maude Jeffrey.....	" " ".....	1269	55 00
	Lucy Allen.....	" " ".....	1270	55 00
	O. V. Brumley.....	" " ".....	1271	50 00
	S. W. Martin.....	" " ".....	1272	50 00
	D. C. Huddleson.....	" " ".....	1273	50 00
	A. V. Bleininger.....	" " ".....	1274	40 00
	J. B. Parker.....	" " ".....	1275	30 00
	M. Dresbach.....	" " ".....	1276	30 00
	F. O. Clements.....	" " ".....	1277	45 00
	H. C. Gore.....	" " ".....	1278	30 00
	J. H. Vosskuehler.....	" " ".....	1279	30 00
	A. H. McIntire.....	" " ".....	1280	30 00
	E. L. Ball.....	" " ".....	1281	30 00
	Lily Weeks.....	Gym. services.....	1282	5 00
	J. W. Young.....	Salary, Nov., 1899.....	1283	30 00
	C. A. Grate.....	" " ".....	1284	30 00
	F. J. Hale.....	" " ".....	1285	30 00
	S. W. Collett.....	" " ".....	1286	25 00
	H. W. Brown.....	" " ".....	1287	25 00
	J. H. Collins.....	" " ".....	1288	20 00
	J. A. Shauck.....	" " ".....	1289	17 50
	E. H. Bailey.....	" " ".....	1290	15 00
	R. E. McIntosh.....	" " ".....	1291	12 50
	W. C. McCracken.....	" " ".....	1292	150 00
	E. E. Harrold.....	" " ".....	1293	90 00
	J. P. Covan.....	" " ".....	1294	70 00
	G. R. Rose.....	" " ".....	1295	65 00
	F. Ruhlen.....	" " ".....	1296	60 00
	A. F. Hall.....	" " ".....	1297	60 00
	C. M. Low.....	" " ".....	1298	54 17
	F. K. Luke.....	" " ".....	1299	50 00
	H. C. Price.....	" " ".....	1300	50 00
	W. Standley.....	" " ".....	1301	50 00
	B. LeBay.....	" " ".....	1302	50 00
	T. Boude.....	" " ".....	1303	45 00
	W. H. Case.....	" " ".....	1304	45 00
	M. Peck.....	" " ".....	1305	40 00
	A. Chantler.....	" " ".....	1306	45 00
	G. A. Goodspeed.....	" " ".....	1307	40 00
	J. H. Brown.....	" " ".....	1308	40 00
	D. D. Geren.....	" " ".....	1309	40 00
	W. Whitestone.....	" " ".....	1310	40 00
	H. Chantler.....	" " ".....	1311	40 00
	G. C. Denney.....	" " ".....	1312	40 00
	M. N. Cook.....	" " ".....	1313	40 00
	W. C. Conklin.....	" " ".....	1314	40 00
	T. E. Osburn.....	" " ".....	1315	40 00
	W. Townsel.....	" " ".....	1316	25 00
	J. C. Perry.....	" " ".....	1317	12 50
	Joe. Garretson.....	" " ".....	1318	37 50
	B. I. Irwin.....	" " ".....	1319	45 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Nov. 25	James Kelly.....	Salary, Nov., 1899.....	1320	\$25 00
	E. R. Hubler.....	" " " ".....	1321	33 33
	W. C. Weir.....	" " " ".....	1322	20 00
	A. G. McCall.....	" " " ".....	1323	20 00
	H. W. Kennedy.....	" " " ".....	1324	30 00
	W. E. Mann.....	" " " ".....	1325	25 00
	W. Cannan.....	" " " ".....	1326	20 00
	W. C. Mills.....	" " " ".....	1327	35 00
	Alice Dufour.....	" " " ".....	1328	25 00
	G. L. Pitts.....	" " " ".....	1329	30 00
	C. F. Dowd.....	" " " ".....	1330	20 00
	E. Conway.....	" " " ".....	1331	20 00
	E. H. Moore.....	" " " ".....	1332	60 00
	N. P. Oglesby.....	" " " ".....	1333	40 00
	D. A. Kohr.....	" " " ".....	1334	60 00
	J. F. Jeffrey.....	" " " ".....	1335	10 00
	J. W. Groves.....	" " " ".....	1336	50 00
	C. L. E. Moore.....	" " " ".....	1337	10 00
	G. V. Bailey.....	Work.....	1338	32 00
Dec. 1	Mrs. M. P. Kellenberger	Serv. dom. econ.....	1339	20 00
Nov. 27	T. C. Mendenhall.....	Exp. Orton Mem. Serv.	1340	51 50
	G. K. Gilbert.....	" " " ".....	1341	34 50
	C. H. Woodruff.....	Carpentry.....	1342	65 00
	T. J. Godfrey.....	Expenses as trustee.....	1343	35 25
	Lily Weeks.....	Gym. services.....	1344	5 00
28	Kate Shanahan.....	Laundry.....	1345	25 00
	R. M. Rownd, P. M....	Postage stamps.....	1346	18 00
Dec. 1	Clinton Nat. Bank.....	Paymt. certfs. indebt..	1347	30,000 00
	D. F. Pugh.....	Adv. in Oct., salary....	1348	20 00
2	Ohio Nat. Bank.....	Bill of exchange.....	1349	564 04
1	J. McLain Smith.....	Expenses as trustee.....	1350	7 35
5	Col. Gas Co.....	Gas.....	1351	139 80
	Lily Weeks.....	Gym. services.....	1352	3 00
6	R. M. Rownd, P. M....	Stamps.....	1353	10 00
	G. Bruder.....	Band instruction.....	1354	26 00
	W. F. Hunter.....	Stamps.....	1355	3 50
9	F. C. Clark.....	Office supplies.....	1356	1 95
	H. Powell.....	Clerical work.....	1357	10 00
	Mason Snow.....	Work in library.....	1358	8 60
	J. W. Shaw.....	" " " ".....	1359	8 95
	S. N. Young.....	" " " ".....	1360	9 05
	Mabel Rice.....	" " " ".....	1361	2 75
	Mabel Huddleson.....	" " " ".....	1362	10 50
	F. Fleischer.....	Wheeling coal.....	1363	40 50
	H. Kinnear.....	Wiring.....	1364	10 80
	A. M. Irwin.....	Campus work.....	1365	1 21
	N. A. Burgess.....	" " " ".....	1366	2 87
	F. W. Nelson.....	" " " ".....	1367	1 68
	Ira McKinley.....	" " " ".....	1368	1 12
	N. L. Seymour.....	Clerical work.....	1369	6 37
	F. J. Hale.....	Lab. work.....	1370	3 10
	G. G. Leinbaugh.....	Work.....	1371	1 35
	E. G. Bailey.....	Pipe fitting, etc.....	1372	14 00
	E. H. Bailey.....	" " " ".....	1373	4 05
	W. F. Magruder.....	Tel. work.....	1374	1 45
	W. L. Redrow.....	Student work.....	1375	3 30
	R. W. Funk.....	Labor in store room....	1376	27 15
	J. H. Nold.....	Work.....	1377	1 50
	K. H. Duncan.....	St. car t'ck'ts for guides	1378	5 00
	W. R. Lazenby.....	R. R. ticket to London..	1379	6 00
	W. G. Wallace.....	Guide.....	1380	4 75

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Dec. 9	R. Thompson.....	Guide	1381	\$4 38
	E. L. Orndorff.....	"	1382	4 13
	F. C. McKinney.....	"	1383	3 38
	F. C. Long.....	"	1384	3 50
	W. D. Gibbs.....	Advertising	1385	6 00
	R. E. McIntosh.....	Labor	1386	9 70
	G. G. Linebaugh.....	"	1387	6 83
	F. J. Tyler.....	"	1388	2 25
	G. V. Bailey.....	"	1389	12 00
	A. S. Watts.....	"	1390	29 25
	Andrew Spittal.....	Labor in physics dept..	1391	51 81
	H. J. Hammond.....	"	1392	7 26
	Laura L. Hill.....	Clerical work	1393	13 00
	Wm. Erdman.....	Student labor	1394	6 00
	M. C. Hunter.....	"	1395	11 70
	G. M. Berndroth.....	"	1396	24 00
	M. L. Seymour.....	Clerical work botany....	1397	14 23
	B. LeBay.....	Work	1398	34 50
	W. Watters.....	Labor in trench.....	1399	34 50
	S. E. Canfield.....	Supplies	1400	3 00
	M. D. Geary.....	Carpenter work	1401	20 75
	W. Morelan.....	"	1402	12 75
	J. W. Cawthon.....	"	1403	19 75
	A. F. Wilcox.....	"	1404	24 75
	J. H. Randall.....	"	1405	32 75
	Col. Brass Co.....	Supplies	1406	9 15
	W. Burdell.....	Repair medicine balls...	1407	3 00
	Col. Mill & Mine S. Co.	Pipe and supplies.....	1408	47 32
	Baker & Adamson C. Co.	Supplies	1409	33 47
	Kimball & Matthews....	"	1410	5 59
	Chgo. Blue P. Paper Co.	Blue print paper.....	1411	5 60
	Bausch & Lomb Opt. Co.	Supplies	1412	24 03
	Amer. Aristotype Co....	"	1413	9 24
	Chic. Lab. Sup. Co.....	"	1414	95 40
	Kauffman-Lattimer Co..	Drugs and Sundries....	1415	168 88
	Acme Paving Co.....	Cementing bath room...	1416	28 65
	Wolfram Guitar Co....	Piano rent	1417	7 50
	McAllister, Moh. & Co.	Two stands	1418	2 00
	Domestic Laundry	Towels for November...	1419	28 25
	Burrows Bros. Co.....	Books, etc.....	1420	73 45
	Seraphim Book Bdg. Co.	Binding	1421	14 60
	C. of B. of E. N. Dept.	Nautical almanac	1422	3 00
	N. P. Hyndeman.....	Map Pgh. coal region..	1423	4 00
	H. Braun Sons & Co....	Supplies	1424	22 75
	Spahr & Glenn.....	Printing	1425	45 00
	Engelke & Bigelow....	Freight and cartage....	1426	37 55
	Krauss, Butler & B. Co.	Shades	1427	19 00
	Cherington P. & E. Co.	Stamps	1428	75
	Nitschke Bros.....	Printing, etc.....	1429	13 00
	E. Doddington & Co....	Lumber, etc.....	1430	127 80
	Hann & Adair.....	Printing	1431	30 94
	Champlin Printing Co..	"	1432	64 75
	Tallmadge Hdw. Co....	Supplies	1433	34 40
	G. E. Stechert.....	Books	1434	85 02
	M. C. Lilley & Co.....	Supplies	1435	73 50
	J. M. & W. Westwater..	"	1436	77 10
	W. U. Tel. Co.....	Telegrams	1437	2 11
	A. S. W. Huffman.....	Supplies	1438	27 82
	Erner & Hopkins.....	"	1439	20 72
	R. A. McClure.....	Stakes	1440	6 25
	H. Haerlein.....	Profess. services	1441	47 60

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Dec. 9	Reserve Cons. Co.....	1000 bricks.....	1442	\$7 50
	Electric Appl. Co.....	Supplies	1443	48 70
	Fultonham B. & Tile Co.	Brick	1444	138 00
	E. C. Niederlander.....	Painting signs	1445	4 20
	W. D. Gibbs.....	Drayage, etc.....	1446	69
	Gus. C. Henning.....	Pocket recorder	1447	112 50
	Crosby St. G. & V. Co.	Steam fittings	1448	29 10
	G. H. Barnes.....	Calorimeter connections	1449	5 00
	Alpha Dairy Co.....	Milk tickets	1450	2 56
	Lawton & Co.....	Paper and inks.....	1451	6 50
	Hager & Graves.....	Groceries	1452	38 99
	Col. Gas Co.....	Welsbach lights	1453	1 50
	Eimer & Amend.....	Chart, stopples, etc.....	1454	17 46
	Gardiner M. Lane.....	Book	1455	3 48
	Charles W. Harper.....	Adv. cuts	1456	8 05
	Kelton & Converse.....	Lumber	1457	2 70
	McClelland & Co.....	Supplies	1458	10 65
	Richmond Chair Co....	Chairs	1459	75 00
	Col. Wire and Iron Wks.	Mats	1460	10 50
	Strobridge Litho. Co...	Commissions & warrants	1461	35 00
	Money penny-Ham'd. Co.	500 Bull	1462	4 50
	Orvis & Marshall.....	Carbon paper	1463	3 00
	Webb. Sta. & Ptg. Co...	Office supplies	1464	13 35
	Masury, Young & Co...	Cyl. oil	1465	18 03
	L. Hirsch, Prest.....	Adv. in German paper.	1466	16 00
	Stumpf & Steurer.....	Advertising	1467	32 00
	Lawrence Pub. Co.....	"	1468	192 78
	O. S. Journal Co.....	"	1469	15 00
	Schoedinger, F'r'n & Co.	Screws and washers....	1470	40
	Oscar S. Lear.....	Paper and ink.....	1471	4 00
	Elec. Sup. & Cons. Co..	Wire	1472	2 84
	F. G. Howall & Co.....	Rollers	1473	50
	Z. L. White & Co.....	Cheese cloth	1474	1 00
	Cap. City Mchn. Works.	Supplies	1475	38 50
	Osborn, Will's & Horn.	Coal	1476	31 42
	Murray City Coal Co...	"	1477	485 93
	C. L. Wottring.....	Manure	1478	19 50
	The Macmillan Co.....	Bonar Malthus	1479	3 19
	Charles Dury	Expense sea lion skins..	1480	15 00
	J. C. Pugh.....	Mounting charts	1481	11 00
	Riddle & Son.....	Cans and repairs.....	1482	6 15
	Columbus Gas Co.....	Coke	1483	9 62
	Col. Tent & Awning Co.	Strainers	1484	7 20
	Hausmann & Dunn....	Instruments	1485	18 00
	Sells & Co.....	Feed	1486	20 75
	Pitz Bros	Two tons shorts.....	1487	28 00
	Glucose Sugar Ref. Co.	Gluten meal	1488	84 00
	Blackwood, Green & Co.	Repairs and supplies....	1489	8 17
	Creamery Pkg. Mfg. Co.	Jars, brushes, etc.....	1490	51 63
	R. M. Ramsey.....	1 box Lenox soap.....	1491	3 25
	Wm. Burdell, Jr.....	Pipe, repairs, etc.....	1492	89 02
	W. H. Anderson & Co..	Mass. and N. Y. Reports	1493	4 75
	James Ohlen Sons & Co.	27 foot steel.....	1494	6 75
	G. G. Quincy & Co.....	Sheeting	1495	4 00
	The L. S. Starrett Co..	Supplies	1496	12 90
	The Jeffrey Mfg. Co....	Shafting, etc.....	1497	53 21
	Nicholson File Co.....	Files	1498	20 80
	Cincinnati S. & T. Co..	Bolts, nuts, etc.....	1499	34 61
	Yost & Packard.....	Services as architects....	1500	35 00
	J. S. Abbott & Co.....	Supplies	1501	13 69
	Batterson Decorative Co.	Working in house.....	1502	41 35

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Dec. 9	J. J. Gheen.....	Plastering	1503	\$3 60
	J. C. Howard.....	Painting	1504	95 00
	Hanna Paint Mfg. Co..	1 gallon golden gloss...	1505	3 50
	C. T. Phillips.....	Papering etc.....	1506	26 15
	Col. Supply Co.....	Supplies	1507	42 43
	Lily Weeks.....	Gym. work	1508	5 00
	M. J. Kellenberger.....	Work	1509	25 00
	Thos. F. Hunt.....	Salary Dec. 1899.....	1510	250 00
16	W. O. Thompson.....	"	1511	416 67
	Alexis Cope	"	1512	187 50
	Carl E. Steeb.....	"	1513	50 00
	Katherine Duncan	"	1514	54 17
	G. W. Knight.....	"	1515	250 00
	W. F. Hunter.....	"	1516	250 00
	A. M. Bleile.....	"	1517	225 00
	C. N. Brown.....	"	1518	225 00
	A. C. Barrows.....	"	1519	225 00
	R. D. Bohannon.....	"	1520	225 00
	B. L. Bowen.....	"	1521	225 00
	S. C. Derby.....	"	1522	225 00
	J. V. Denney.....	"	1523	225 00
	E. A. Eggers.....	"	1524	225 00
	J. P. Gordy.....	"	1525	225 00
	W. A. Kellerman.....	"	1526	225 00
	W. R. Lazenby.....	"	1527	225 00
	Wm. McPherson	"	1528	225 00
	W. F. Magruder.....	"	1529	225 00
	H. Osborn	"	1530	225 00
	J. R. Smith.....	"	1531	225 00
	W. H. Scott.....	"	1532	225 00
	B. F. Thomas.....	"	1533	225 00
	H. A. Weber.....	"	1534	225 00
	N. W. Lord.....	"	1535	200 00
	F. A. Ray.....	"	1536	200 00
	G. B. Kauffman.....	"	1537	200 00
	Edward Orton	"	1538	180 00
	J. N. Bradford.....	"	1539	180 00
	F. E. Sanborn.....	Sal., bal. of Sept-Oct.	1540	240 00
	H. C. Lord.....	Salary, Dec., 1899.....	1541	160 00
	F. C. Clark.....	"	1542	160 00
	G. W. McCoard.....	"	1543	160 00
	C. P. Linhart.....	"	1544	160 00
	D. S. White.....	"	1545	160 00
	F. C. Caldwell.....	"	1546	160 00
	E. A. Hitchcock.....	"	1547	150 00
	C. S. Prosser.....	"	1548	150 00
	W. D. Gibbs.....	"	1549	160 00
	P. G. Bowman.....	"	1550	140 00
	W. H. Page.....	"	1551	140 00
	W. H. Siebert.....	"	1552	135 00
	S. A. Norton.....	"	1553	120 00
	E. B. Kinkead.....	"	1154	120 00
	J. E. Boyd.....	"	1555	120 00
	H. C. Allen.....	"	1556	115 00
	C. E. Sherman.....	"	1557	110 00
	T. E. French.....	"	1558	110 00
	J. R. Taylor.....	"	1559	110 00
	C. W. Mesloh.....	"	1560	110 00
	A. W. Hodgman.....	"	1561	110 00
	J. H. Schaffner.....	"	1562	100 00
	W. E. Henderson.....	"	1563	100 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1899				
Dec. 16	J. A. Bownocker.....	Salary, Dec., 1899.....	1564	\$100 00
	W. A. Knight.....	" " " " " " " "	1565	100 00
	C. L. Arnold.....	" " " " " " " "	1566	100 00
	K. D. Swartzel.....	" " " " " " " "	1567	100 00
	C. B. Morrey.....	" " " " " " " "	1568	100 00
	W. L. Graves.....	" " " " " " " "	1569	100 00
	C. A. Bruce.....	" " " " " " " "	1570	100 00
	F. M. Hamilton.....	" " " " " " " "	1571	80 00
	G. H. McKnight.....	" " " " " " " "	1572	90 00
	Wm. Renck.....	" " " " " " " "	1573	85 00
	J. S. Hine.....	" " " " " " " "	1574	85 00
	F. L. Landacre.....	" " " " " " " "	1575	85 00
	C. P. Crowe.....	" " " " " " " "	1576	80 00
	A. E. Vinson.....	" " " " " " " "	1577	80 00
	F. E. Kester.....	" " " " " " " "	1578	80 00
	S. E. Canfield.....	" " " " " " " "	1579	75 00
	E. O. Randall.....	" " " " " " " "	1580	70 00
	D. F. Pugh.....	" " " " " " " "	1581	95 00
	W. F. Lavery.....	" " " " " " " "	1582	70 00
	C. B. Frederick.....	" " " " " " " "	1583	70 00
	J. B. Sanborn.....	" " " " " " " "	1584	70 00
	E. E. Sommermeier.....	" " " " " " " "	1585	70 00
	T. K. Lewis.....	" " " " " " " "	1586	60 00
	F. A. Fish.....	" " " " " " " "	1587	60 00
	O. V. Brumley.....	" " " " " " " "	1588	50 00
	Silas Martin.....	" " " " " " " "	1589	50 00
	A. V. Bleining.....	" " " " " " " "	1590	40 00
	J. B. Parker.....	" " " " " " " "	1591	30 00
	M. Dresbach.....	" " " " " " " "	1592	30 00
	D. A. Kohr.....	" " " " " " " "	1593	60 00
	H. C. Gore.....	" " " " " " " "	1594	30 00
	J. H. Vosskuehler.....	" " " " " " " "	1595	30 00
	A. H. McIntire.....	" " " " " " " "	1596	30 00
	E. L. Ball.....	" " " " " " " "	1597	30 00
	J. W. Young.....	" " " " " " " "	1598	30 00
	F. J. Hale.....	" " " " " " " "	1599	30 00
	H. W. Brown.....	" " " " " " " "	1600	25 00
	S. W. Collett.....	" " " " " " " "	1601	25 00
	J. H. Collins.....	" " " " " " " "	1602	20 00
	J. A. Shauck.....	" " " " " " " "	1603	17 50
	E. H. Bailey.....	" " " " " " " "	1604	15 00
	R. E. McIntosh.....	" " " " " " " "	1605	12 50
	W. C. McCracken.....	" " " " " " " "	1606	150 00
	O. B. Jones.....	" " " " " " " "	1607	135 00
	E. E. Harold.....	" " " " " " " "	1608	90 00
	J. P. Covan.....	" " " " " " " "	1609	70 00
	G. R. Rose.....	" " " " " " " "	1610	65 00
	F. Ruhlen.....	" " " " " " " "	1611	60 00
	A. F. Hall.....	" " " " " " " "	1612	60 00
	E. D. Cockins.....	" " " " " " " "	1613	58 33
	C. B. Guittard.....	" " " " " " " "	1614	55 00
	H. N. Townshend.....	" " " " " " " "	1615	55 00
	G. Kellicott.....	" " " " " " " "	1616	55 00
	M. D. Jeffrey.....	" " " " " " " "	1617	55 00
	Lucy Allen.....	" " " " " " " "	1618	55 00
	C. M. Low.....	" " " " " " " "	1619	54 17
	F. K. Luke.....	" " " " " " " "	1620	50 00
	W. Standley.....	" " " " " " " "	1621	50 00
	B. LeBay.....	" " " " " " " "	1622	50 00
	D. C. Huddleson.....	" " " " " " " "	1623	50 00
	T. Boude.....	" " " " " " " "	1624	45 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Dec. 16	W. H. Case.....	Salary, Dec., 1899.....	1625	\$45 00
	M. Peck	" "	1626	40 00
	A. Chantler	" "	1627	45 00
	G. A. Goodspeed.....	" "	1628	40 00
	J. H. Brown.....	" "	1629	40 00
	D. D. Geren.....	" "	1630	40 00
	W. Whitestone.....	" "	1631	40 00
	H. Chantler	" "	1632	40 00
	G. C. Denny.....	" "	1633	40 00
	M. N. Cook.....	" "	1634	40 00
	T. E. Osburn.....	" "	1635	40 00
	W. Townsel	" "	1636	25 00
	J. Garrettson	" "	1637	37 39
	E. R. Hubler.....	" "	1638	33 33
	James Kelley	" "	1639	25 00
	W. C. Weir.....	" "	1640	20 00
	J. D. Decker.....	" "	1641	140 00
	Alice Dufour	" "	1642	25 00
	J. F. Jeffrey.....	" "	1643	10 00
	J. W. Groves.....	" "	1644	50 00
	Wm. Cannan	" "	1645	20 00
	W. E. Mann.....	" "	1646	25 00
	Grace Pitts	" "	1647	30 00
	W. C. Mills.....	" "	1648	35 00
	E. H. Moore.....	" "	1649	20 00
	F. O. Clements.....	" "	1650	45 00
	H. C. Price.....	" "	1651	60 00
	C. L. E. Moore.....	" "	1652	10 00
	C. A. Grate.....	" "	1653	30 00
	W. A. Landacre.....	" "	1654	70 00
	N. P. Oglesby.....	" "	1655	40 00
	C. F. Dowd.....	" "	1656	20 00
	Benj. Irwin	" "	1657	45 00
	J. C. Perry.....	" "	1658	12 50
	A. G. McCall.....	" "	1659	20 00
	W. Conklin	" "	1660	40 00
	Earl Conway	" "	1661	20 00
	C. H. Woodruff.....	" "	1662	65 00
15	Helen Potts	Accp. in gym.....	1663	5 50
	Edith Seymour	" "	1664	3 00
	Lily Weeks	Gym. work	1665	5 00
1900				
Jan. 5	Col. Gas Co.....	Gas for December.....	1666	136 42
	Wm. Cannan	Fee and store room....	1667	12 50
	Lily Weeks	Salary, one week	1668	5 00
	R. M. Rownd, P. M....	Stamped envelopes	1669	85 60
	Frank C. White.....	Return fees, pro rata..	1670	5 00
	C. R. Monsarrat.....	Fees C. H. Evans	1671	5 00
	Edna Luse	Return of fees.....	1672	5 00
	Daniel C. Keller.....	" "	1673	8 00
	Blanche Powell	" "	1674	5 00
	E. D. Easton.....	" "	1675	7 00
	Mary E. Dow.....	" "	1676	6 00
	Morton Farrar	" "	1677	9 75
	Engelke & Bigelow....	Freight and drayage....	1678	62 72
	Murray City Coal Co..	Coal	1679	950 56
	Osborn, Will's & Horn.	"	1680	57 42
	H. J. Hammond.....	Hospital supplies	1681	15 97
	C. B. Frederick.....	Anatomy horses	1682	38 50
	Fred Fleischer	Hauling coal	1683	39 00
	J. S. Abbott & Co.....	Glass, putty, etc.....	1684	49 03

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Dec. 5	E. Doddington & Co...	Lumber, etc.....	1685	\$34 52
	S. T. Hallsman.....	Labor	1686	6 30
	A. F. Wilcox.....	"	1687	20 75
	Wilbert Morelan.....	Carpenter work	1688	19 00
	E. J. Barton.....	"	1689	16 50
	J. H. Randall.....	"	1690	30 75
	The Tallmadge Hdw. Co.	Hardware, etc.....	1691	20 13
	Kelton & Converse.....	Lumber	1692	7 00
	Yale & Towne Mfg. Co.	Locks and keys.....	1693	2 45
	The Fish Stone Co.....	One sill and dray.....	1694	1 30
	M. C. Hunter.....	Work	1695	28 55
	Harry Kinnear.....	Wiring	1696	26 55
	Mason Snow.....	Student labor	1697	9 60
	R. D. DeWolf.....	"	1698	10 54
	Andrew Spittal.....	Labor	1699	29 76
	F. E. Sanborn.....	Money advanced	1700	48 00
	F. C. Clark.....	Supplies	1701	4 75
	Taylor, Williams & Co.	Coal	1702	6 25
	Laura L. Hill.....	Clerical work	1703	12 50
	A. F. Wilcox.....	Labor	1704	17 30
	S. N. Young.....	"	1705	9 45
	J. H. Randall.....	"	1706	4 25
	J. W. Shaw.....	"	1707	7 95
	Grace Young.....	"	1708	3 35
	W. D. Gibbs, Mgr.....	500 copies book.....	1709	18 00
	Metta Seymour.....	Clerical services	1710	4 65
	S. C. Derby.....	Lantern slides	1711	9 35
	C. L. Sackett.....	Part pay. of contract.....	1712	58 33
	James LeBay.....	Cleaning cistern	1713	3 00
	Gustav Bruder.....	Band instruction	1714	24 00
	F. C. McKinney.....	Student labor	1715	10 00
	C. E. Miller.....	Plan and blue prints.....	1716	19 25
10	Philip Long.....	Buffet lunch and meals.....	1717	148 20
	F. C. Long.....	Guide work	1718	2 88
	Roy Thompson.....	"	1719	3 88
	W. G. Wallace.....	"	1720	3 75
	Annis McLaughlin.....	Clerical work	1721	2 55
	Wm. T. Magruder.....	Money advanced	1722	3 50
	Earl Orndorff.....	Guide work	1723	5 25
	Helen Powell.....	Clerical work	1724	4 50
	F. J. Hale.....	Labor	1725	12 53
	Grace Eagleson.....	Clerical work	1726	2 55
	E. G. Bailey.....	Labor	1727	6 25
	C. P. Linhart.....	Supplies	1728	3 00
	O. I. Dick.....	Student labor	1729	4 93
	J. M. Barringer.....	"	1730	1 95
	J. C. Britton.....	"	1731	1 50
	Wm. R. Lazenby.....	Department supplies	1732	4 35
	S. A. Norton.....	Book	1733	2 90
	Olive Jones.....	Money advanced	1734	11 48
	American Book Co.....	Book	1735	40 00
	Hann & Adair.....	Printing questions	1736	2 75
	Edward Thompson & Co.	Am. Ency. Law.....	1737	6 00
	W. H. Anderson & Co.	Reports	1738	8 50
	Sunday Creek Coal Co.	Coal	1739	30 03
	James Seaman.....	Insect cases	1740	40 00
	George Wahr.....	Books	1741	7 50
	Samuel Henshaw.....	Subs. to Psyche.....	1742	5 00
	Library Bureau.....	Cabinets and cards.....	1743	32 50
	R. R. Bowker.....	2 copies state publicat'ns	1744	4 00
	The Boston Book Co.	Books	1745	1 60

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Jan. 10	G. E. Stechert.....	Books, etc.....	1746	\$5 20
	W. H. Loudermilk & Co.	President's message	1747	4 56
	G. P. Humphreys.....	Colonial tracts	1748	5 50
	The Seraphim B. B. Co.	Binding	1749	36 45
	Louis Siebert	Knives and pincers.....	1750	1 35
	Burrows Bros. Co.....	Books	1751	61 15
	Chicago Blue P. P. Co.	Blue print paper.....	1752	2 40
	Emil Greiner	Tubes, etc.....	1753	12 25
	Kauffman, Lattimer ...	Drugs and sundries.....	1754	170 54
	Eimer & Amend.....	Chemicals	1755	96 20
	Keyless Lock Co.....	Locks and repairs.....	1756	3 75
	Domestic Laundry	Laundry work	1757	17 75
	The H. Cole Co.....	Supplies	1758	26 49
	Bausch & Lomb Opt. Co.	No. 22 Coddington.....	1759	1 15
	G. W. Clarke & Co.....	Stakes	1760	5 38
	L. P. Bailey.....	Advertisement	1761	12 00
	H. Goldsmith	Music and repairs	1762	5 95
	L. C. Maddox.....	Advertisement	1763	10 0.
	Nat. Stockman & Farm.	"	1764	78 25
	Perry Smythe	Framing picture	1765	5 10
	Akron China Co.....	Bisque wall	1766	1 00
	Col. Sewer Pipe Co.....	Pipes	1767	85
	J. & G. Butler.....	1 box soap.....	1768	7 50
	Schaffer & Budenberg..	1 Tachometer and charts	1769	156 50
	Crosby S. G. & V. Co....	Repairing	1770	4 56
	Mrs. Weisner, Secy....	Adv. in Rep. W. C. T. U.	1771	15 00
	Adams & Bagnall Co....	Globes, etc.....	1772	3 66
	J. S. Bushnell.....	Paper and cord.....	1773	5 20
	W. H. Miller Co.....	Supplies	1774	215 56
	Col. Machine Co.....	Rubber	1775	2 00
	Crane & Co.....	Valves	1776	9 18
	West. Union Tel. Co....	Telegrams	1777	1 54
	India Alk. Wks.....	1 barrel savogran.....	1778	17 94
	The Lunkenheimer Co..	Valves, etc.....	1779	25 06
	B. F. Goodrich Co.....	Mats, etc.....	1780	30 28
	Webb Sta. & Print. Co.	Office supplies	1781	18 15
	John Wanamaker	Books	1782	25 60
	Standard Oil Co.....	Oil and gasoline.....	1783	13 64
	W. S. Orvis.....	Paper and ribbon.....	1784	3 90
	Cent. O. Paper Co.....	Paper	1785	92 30
	Nonotuck Silk Co.....	Silk cult. cabinet.....	1786	2 50
	Kemp & Burpee Mg. Co.	Manure spreader	1787	50 00
	J. H. & F. A. Heyl....	Lumber	1788	16 55
	Creamery Pkg. Mfg. Co.	Caps and supplies.....	1789	23 05
	W. B. Smith & Son.....	Cow	1790	50 00
	Alpha Dairy Co.....	Milk tickets	1791	2 00
	Lewis Fink	Decorating, etc.....	1792	41 85
	Col. Brass Co.....	Closet and lid.....	1793	12 90
	C. L. Wottring.....	Manure	1794	5 00
	Haydenville M. & M. Co.	Fireclay	1795	2 50
	Franklin Toilet Co....	Towel service	1796	1 95
	J. Carbutt	Plates	1797	1 41
	J. T. Barlow.....	Freezing	1798	10 80
	Col. Gas Co.....	Coke	1799	10 20
	Col. Wire & Iron Wks.	Matting and device....	1800	5 88
	A. T. Thompson & Co..	Lamp and stand.....	1801	24 00
	E. G. Soltmann.....	Frames	1082	14 00
	McClelland & Co.....	Book	1803	60
	Keuffel & Esser Co....	Engineering instruments	1804	48 00
	Westinghouse Co.....	Coils, etc.....	1805	44 00
	The Col. M. & M. S. Co.	Hose	1806	10 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Jan. 10	Arthur Geren.....	Supplies	1807	\$5 53
	E. Doddington & Co....	Lumber	1808	23 97
	Fred Charles	Hauling	1809	5 36
	Blackwood, Green & Co.	Supplies	1810	23 37
	McMillan Co	Books	1811	8 06
	Champlin Printing Co..	Printing	1812	21 65
	Col. Supply Co.....	Supplies	1813	6 87
	J. M. & W. Westwater..	Lts and sockets.....	1814	6 36
	Schoedinger, F'rn & Co.	Supplies	1815	3 60
	Chicago Lab. Sup. Co...	"	1816	54 20
	Nitschke Bros	Printing	1817	24 95
	Tallmadge Hdw. Co....	Supplies	1818	7 78
	Elec. Appliance Co.....	Wire and switches.....	1819	24 81
	Erner & Hopkins.....	Supplies	1820	26 24
	Spahr & Glenn.....	Printing	1821	15 00
	Westinghouse Co	Transformer	1822	111 30
	Franklin Toilet Co.....	Towel service	1823	2 25
15	Lily Weeks	Gym. services	1824	5 00
20	Michigan Brush Co.....	Brushes	1825	22 05
22	W. O. Thompson.....	Salary Jan. 1900.....	1826	416 67
	Carl E. Steeb.....	"	1827	60 00
25	Alexis Cope	"	1828	187 50
27	Katherine Duncan.....	"	1829	54 17
	T. F. Hunt.....	"	1830	250 00
	G. W. Knight.....	"	1831	250 00
	W. F. Hunter.....	"	1832	250 00
	A. M. Bleile.....	"	1833	225 00
	C. N. Brown.....	"	1834	225 00
	A. C. Barrows.....	"	1835	225 00
	R. D. Bohannon.....	"	1836	225 00
	B. L. Bowen.....	"	1837	225 00
	S. C. Derby.....	"	1838	225 00
	J. V. Denney.....	"	1839	225 00
	E. A. Eggers.....	"	1840	225 00
	J. P. Gordy.....	"	1841	225 00
	W. A. Kellerman.....	"	1842	225 00
	W. R. Lazenby.....	"	1843	225 00
	Wm. McPherson.....	"	1844	225 00
	W. T. Magruder.....	"	1845	225 00
	H. Osborn.....	"	1846	225 00
	J. R. Smith.....	"	1847	225 00
	W. H. Scott.....	"	1848	225 00
	B. F. Thomas.....	"	1849	225 00
	H. A. Weber.....	"	1850	225 00
	N. W. Lord.....	"	1851	200 00
	F. A. Ray.....	"	1852	200 00
	G. B. Kauffman.....	"	1853	200 00
	Edward Orton.....	"	1854	180 00
	J. N. Bradford.....	"	1855	180 00
	F. E. Sanborn.....	"	1856	200 00
	H. C. Lord.....	"	1857	160 00
	F. C. Clark.....	"	1858	160 00
	G. W. McCoard.....	"	1859	160 00
	C. P. Linhart.....	"	1860	160 00
	D. S. White.....	"	1861	160 00
	F. C. Caldwell.....	"	1862	160 00
	E. A. Hitchcock.....	"	1863	150 00
	C. S. Prosser.....	"	1864	150 00
	W. D. Gibbs.....	"	1865	160 00
	P. G. Bowman.....	"	1866	140 00
	W. H. Page.....	"	1867	140 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Jan. 27	W. H. Siebert.....	Salary Jan. 1900.....	1868	\$135 00
	S. A. Norton.....	" "	1869	120 00
	E. B. Kinkead..	" "	1870	120 00
	J. E. Boyd.....	" "	1871	120 00
	J. E. Allen.....	" "	1872	115 00
	C. E. Sherman.....	" "	1873	110 00
	T. E. French.....	" "	1874	110 00
	J. R. Taylor.....	" "	1875	110 00
	C. W. Mesloh.....	" "	1876	110 00
	A. W. Hodgman.....	" "	1877	110 00
	J. H. Schaffner.....	" "	1878	110 00
	W. E. Henderson.....	" "	1879	100 00
	J. A. Bownocker.....	" "	1880	100 00
	W. A. Knight.....	" "	1881	100 00
	C. L. Arnold.....	" "	1882	100 00
	K. D. Swartzel.....	" "	1883	100 00
	C. B. Morrey.....	" "	1884	100 00
	W. L. Graves.....	" "	1885	100 00
	C. A. Bruce.....	" "	1886	100 00
	F. M. Hamilton.....	" "	1887	80 00
	Geo. H. McKnight.....	" "	1888	90 00
	W. A. Landacre.....	" "	1889	70 00
	Wm. Renck.....	" "	1890	85 00
	J. S. Hine.....	" "	1891	85 00
	F. L. Landacre.....	" "	1892	85 00
	C. P. Crowe.....	" "	1893	80 00
	A. E. Vinson.....	" "	1894	80 00
	C. P. Souther.....	" "	1895	80 00
	F. E. Kester.....	" "	1896	80 00
	S. E. Canfield.....	" "	1897	75 00
	E. O. Randall.....	" "	1898	70 00
	D. F. Pugh.....	" "	1899	95 00
	W. F. Lavery.....	" "	1900	70 00
	C. B. Frederick.....	" "	1901	70 00
	J. B. Sanborn.....	" "	1902	70 00
	E. E. Somermeier.....	" "	1903	70 00
	T. K. Lewis.....	" "	1904	60 00
	F. A. Fish.....	" "	1905	60 00
	O. V. Brumley.....	" "	1906	50 00
	Silas Martin.....	" "	1907	50 00
	A. V. Bleiningner.....	" "	1908	40 00
	J. B. Parker.....	" "	1909	30 00
	M. Dresbach.....	" "	1910	30 00
	D. A. Kohr.....	" "	1911	30 00
	H. C. Gore.....	" "	1912	30 00
	J. H. Vosskuehler.....	" "	1913	30 00
	A. H. McIntire.....	" "	1914	30 00
	E. L. Ball.....	" "	1915	30 00
	J. W. Young.....	" "	1916	30 00
	C. A. Grate.....	" "	1917	30 00
	F. J. Hale.....	" "	1918	30 00
	S. W. Collett.....	" "	1919	25 00
	H. W. Brown.....	" "	1920	25 00
	J. H. Collins.....	" "	1921	20 00
	J. A. Shauck.....	" "	1922	17 50
	E. G. Bailey.....	" "	1923	15 00
	R. E. McIntosh.....	" "	1924	12 50
	W. C. McCracken.....	" "	1925	150 00
	O. B. Jones.....	" "	1926	135 00
	E. E. Harrold.....	" "	1927	90 00
	J. P. Covan.....	" "	1928	70 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900 Jan. 27	G. A. Rose.....	Salary Jan. 1900.....	1929	\$65 00
	F. Ruhlen.....	" ".....	1930	60 00
	A. F. Hall.....	" ".....	1931	60 00
	E. D. Cockins.....	" ".....	1932	58 33
	C. B. Guittard.....	" ".....	1933	55 00
	H. N. Townshend.....	" ".....	1934	55 00
	G. S. Kellicott.....	" ".....	1935	55 00
	Maude Jeffrey.....	" ".....	1936	55 00
	Lucy Allen.....	" ".....	1937	55 00
	C. M. Low.....	" ".....	1938	54 17
22	Lily Weeks.....	Gym. work.....	1939	5 00
27	F. K. Luke.....	Salary Jan. 1900.....	1940	50 00
	H. C. Price.....	" ".....	1941	60 00
	W. Standley.....	" ".....	1942	50 00
	B. LeBay.....	" ".....	1943	50 00
	D. C. Huddleson.....	" ".....	1944	50 00
	T. Boude.....	" ".....	1945	45 00
	W. H. Case.....	" ".....	1946	45 00
	M. Peck.....	" ".....	1947	40 00
	A. Chantler.....	" ".....	1948	45 00
	G. A. Goodspeed.....	" ".....	1949	40 00
	J. H. Brown.....	" ".....	1950	40 00
	D. D. Geren.....	" ".....	1951	40 00
	W. Whitestone.....	" ".....	1952	40 00
	H. Chantler.....	" ".....	1953	40 00
	G. C. Denney.....	" ".....	1954	40 00
	M. N. Cook.....	" ".....	1955	40 00
	F. E. Osborn.....	" ".....	1956	40 00
	W. Townsel.....	" ".....	1957	25 00
	J. C. Perry.....	" ".....	1958	12 50
	J. Garrettson.....	" ".....	1959	37 39
	E. R. Hubler.....	" ".....	1960	33 33
	J. Kelly.....	" ".....	1961	25 00
	W. C. Weir.....	" ".....	1962	20 00
	A. G. McCall.....	" ".....	1963	20 00
	C. H. Woodruff.....	" ".....	1964	65 00
	E. Conway.....	" ".....	1965	20 00
	W. Conklin.....	" ".....	1966	40 00
	Benj. Irwin.....	" ".....	1967	45 00
	C. F. Dowd.....	" ".....	1968	20 00
	N. P. Oglesby.....	" ".....	1969	40 00
	J. W. Decker.....	" ".....	1970	140 00
	A. Dufour.....	" ".....	1971	25 00
	J. W. Groves.....	" ".....	1972	50 00
	W. Cannan.....	" ".....	1973	20 00
	W. E. Mann.....	" ".....	1974	25 00
	Grace Pitts.....	" ".....	1975	30 00
	Wm. C. Mills.....	" ".....	1976	35 00
	E. H. Moore.....	" ".....	1977	20 00
	C. L. E. Moore.....	" ".....	1978	10 00
	J. F. Jeffrey.....	" ".....	1979	10 00
	E. Smith.....	" ".....	1980	33 33
	D. A. Crowner.....	" ".....	1981	33 33
	C. S. Prosser.....	Office supplies.....	1982	1 45
	M. J. Kellenberger.....	Services.....	1983	21 43
	D. A. Kohr.....	Bal. of January salary.....	1894	30 00
Feb. 1	Lily Weeks.....	Janitress.....	1985	5 00
6	Lily Weeks.....	Gym. services.....	1986	5 00
7	Col. Gas Co.....	Gas for January.....	1987	161 02
8	Nora Heath.....	Excess of fees, act 3, 14, '89.....	1988	2 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Jan. 12	Lily Weeks.....	Salary	1989	\$5 00
15	C. N. Mooney.....	Stamp and pad.....	1990	1 25
	Arthur Geren.....	Drawing utensils.....	1991	5 40
	W. L. Redrow.....	Lab. assistance.....	1992	17 75
	C. P. Linville.....	"	1993	5 80
	F. C. Clark.....	Dept. supplies.....	1994	3 55
	James G. Sterling.....	Student labor.....	1995	6 88
	Frank W. Arnold.....	"	1996	3 75
	Wm. Erdman.....	"	1997	3 00
	M. C. Hunter.....	"	1998	12 30
	O. I. Dick.....	"	1999	9 23
	B. B. Wells.....	"	2000	8 03
	B. F. Thomas.....	Dept. supplies.....	2001	5 61
	Andrew Spittal.....	Labor.....	2002	83 47
	M. C. Hunter.....	"	2003	2 48
	R. E. McIntosh.....	"	2004	10 88
	Ray McCallum.....	Adv. in student direc'y.....	2005	5 00
	M. B. Lamb.....	Flooring stalls.....	2006	4 80
	H. J. Hammond.....	Hospital supplies.....	2007	3 60
	Fred Fleischer.....	Wheeling coal.....	2008	16 50
	Richard Spencer.....	"	2009	24 75
	E. H. Barton.....	Carpentry.....	2010	55 00
	A. F. Wilcox.....	"	2011	11 80
	Wilbert Morlan.....	"	2012	15 50
	J. W. Cawthon.....	"	2013	1 50
	J. H. Randall.....	"	2014	3 25
	Stella E. Canfield.....	Dept. supplies.....	2015	1 75
	Helen Potts.....	Piano playing.....	2016	4 00
	S. T. Hallsman.....	Painting.....	2017	80
	J. V. Denney.....	Department supplies.....	2018	2 00
	S. T. Barrows.....	Lang's Homer.....	2019	98
	J. A. Beer.....	Laboratory assistance.....	2020	3 60
	M. Dresbach.....	Department supplies.....	2021	7 62
	Metta Seymour.....	Clerical work.....	2022	4 75
	E. G. Bailey.....	Labor.....	2023	7 20
	R. R. Harkins.....	Drafting engine.....	2024	3 75
	F. J. Hale.....	Drafting.....	2025	2 50
	Arthur Geren.....	Supplies.....	2026	1 80
	Charles R. Hall.....	Package.....	2027	50
	William Garret.....	Steam fitting.....	2028	1 50
	Roger DeWolf.....	Wiring.....	2029	3 15
	Harry Kinnear.....	"	2030	13 05
	Edw. Orton.....	Drafting.....	2031	12 00
	Wm. McPherson.....	Supplies.....	2032	3 15
	W. O. Thompson.....	Maps.....	2033	2 40
	F. C. McKinney.....	Guide.....	2034	4 50
	Roy Thompson.....	"	2035	4 13
	Frank C. Long.....	"	2036	3 88
	W. G. Wallace.....	"	2037	9 13
	E. L. Orndorff.....	"	2038	4 00
	H. C. Herrick.....	"	2039	90
	Edith Seymour.....	Piano playing.....	2040	2 50
	R. W. Funk.....	Work in store room.....	2041	25 00
	J. W. Shaw.....	Assistance law library.....	2042	9 45
	S. N. Young.....	Library work.....	2043	10 90
	Mabel Huddleson.....	Library work.....	2044	10 50
	Mason Snow.....	Work in law library.....	2045	11 50
	J. M. & W. Westwater..	Supplies.....	2046	10 00
	Cap. City Mchn. Wks..	"	2047	26 62
	Cherington P. & E. Co.	Stamp and pad.....	2048	1 10
	Nitschke Bros.....	Printing.....	2049	3 40

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Feb. 15	The McMillan Co.	Books	2050	\$8 01
	Franklin Toilet Sup. Co.	Towel service	2051	6 75
	Palmer & Beck	Supplies	2052	39 61
	The Tallmadge Hd. Co.	Hardware	2053	21 14
	Spahr & Glenn	Printing	2054	12 75
	Schoedinger, Frn & Co.	Hardware	2055	29 58
	James Penn	Freight and drayage...	2056	3 04
	Blackwood, Green & Co.	Hardware	2057	44 26
	E. Doddington & Co.	Lumber	2058	23 74
	Bausch & Lomb Opt. Co.	Supplies	2059	5 20
	Columbus Supply Co.	Department supplies ...	2060	49 16
	G. E. Stechert	Books	2061	76 37
	Cent. O. Paper Co.	Paper	2062	10 16
	H. Braun Sons & Co.	Instruments	2063	14 96
	Champlin Printing Co.	Printing	2064	17 50
	Hann & Adair	"	2065	2 85
	Miller Furniture Co.	Furniture	2066	47 90
	Murray City Coal Co.	Coal	2067	1,247 46
	Pharm. Rev. Pub. Co.	1 copy review for 1 year	2068	2 50
	Helman-Taylor Co.	Index	2069	10 00
	Library Bureau	Cabinets and subscrip.	2070	33 00
	Engelke & Bigelow	Freight and drayage....	2071	61 89
	Nat. Educational Assn.	Volume proceedings	2072	2 00
	C. A. Waldo	Proceedings, Vol VII.	2073	2 00
	H. L. Fairchild	Geol. Soc. of Am. Vol X	2074	5 00
	R. R. Bowker	Society publications	2075	2 50
	Am. S. of Mech. Eng.	Copy proceedings	2076	1 25
	Seraphim B. B. Co.	Binding	2077	29 90
	Burrows Bros. & Co.	Books	2078	99 03
	Ohio Furn. Co.	Case and book case	2079	31 00
	West. Elec. Inst. Co.	Supplies	2080	21 18
	Hann & Adair	Printing	2081	20 16
	Domestic Laundry	Towel washing	2082	22 32
	Funk & Wagnalls	Cyclopedia	2083	6 00
	Houghton-Mifflin Co.	Books	2084	2 76
	T. Y. Crowell & Co.	Book	2085	1 14
	John H. Grove	Insurance premium	2086	12 35
	Samuel Smith	Brush and blacking	2087	4 40
	Kelton & Converse	Lumber	2088	1 07
	E. A. Kinsey Co.	Steel	2089	5 36
	Nicholson File Co.	Files	2090	12 26
	G. B. Schulte Sons Co.	Steel	2091	10 60
	Spg. Mchn. & Tool Co.	Lathe	2092	570 00
	H. Kohlbusch	Weights	2093	6 04
	E. G. Smith	Calipers	2094	22 50
	Hyatt R. B. Co.	Instrument	2095	7 59
	Hanna Paint Mfg. Co.	Paint and surfacer	2096	2 35
	Elec. Sup. & Const. Co.	Supplies	2097	33
	H. Cole Co.	Telescope	2098	3 00
	W. I. Carruthers	Material and labor	2099	78 81
	Col. Gas Co.	Coke	2100	8 16
	A. H. Cross, Mgr.	Advertisement	2101	12 00
	Nat. Stockman & Farm.	Advertising	2102	63 00
	R. M. Donaldson	"	2103	5 00
	L. S. Wells	Books	2104	7 20
	Buntin Bros	Material for bandages...	2105	4 80
	L. P. Bailey	Advertisement	2106	4 00
	Reynolds Bros	Instruments	2107	6 60
	Sunday Creek Coal Co.	Coal	2108	49 88
	DeLaval Sep. Co.	Rope belts	2109	1 75
	Watertown Ther. Co.	Thermometers	2110	9 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Feb. 15	C. L. Kiewert.....	Brushes	2111	\$7 50
	Howe Scale Co.....	Supplies	2112	8 00
	Creamery Package Co..	Supplies	2113	58 77
	D. H. Burrell & Co.....	Apparatus	2114	64 14
	Osborn, Will's. & Horn	Coal	2115	34 22
	M. Armbruster & Sons.	Scenery repairing	2116	2 00
	Ed. P. Budge.....	Engrav. of Dr. Orton...	2117	55 00
	Amer. Grange Bulletin..	Advertising	2118	18 90
	Webb Sta. & Ptg. Co....	Pad and ink	2119	75
	Globe Wernecke Co....	Cabinet	2120	136 00
	W. S. Orvis.....	Ribbon	2121	1 00
	O. S. Lear.....	Type writer repairs....	2122	4 00
	L. A. Harsh & Co.....	Mop pails	2123	3 00
	Standard Oil Co.....	Oil	2124	8 73
	J. M. Kerr.....	Window rubbers	2125	2 50
	McClelland & Co.....	Calendar pads	2126	55
	Leader Printing Co....	Advertising	2127	12 50
	Central Union Tel. Co..	Telephone service	2128	86 03
	E. B. Vorhees, Secy....	Mbrsp. ass. agr. colleges	2129	10 00
	Amer. Dist. Tel. Co....	Rent of boxes.....	2130	27 00
	Logan McCormick	Picture frame	2131	2 95
	T. J. Dundon & Co.....	Sawdust	2132	3 00
	Standard Oil Co.....	Oil	2133	88
	Westingh'se E. Mfg. Co.	Coils	2134	3 00
	Penna. Fuel Co.....	Lump coal	2135	2 75
	Col. Bolt Works.....	Bolts	2136	3 20
	Stand. Thermometer Co.	Globes	2137	40
	Sterling Arc Lamp Co..	"	2138	1 00
	Col. M. & Mine Sup. Co..	Supplies	2139	19 14
	The Elec. S. & C. Co....	"	2140	4 50
	Erner & Hopkins Co....	"	2141	22 63
	Kauffman, Lattimer Co.	Drugs and sundries....	2142	192 74
	Stillwell-Bierce-Smith- Vaile Co., The.....	Pumps, etc	2143	1 00
	Sherwood Mfg. Co.....	Awning	2144	72
	Schaffer & Budenburg..	Thermometers	2145	18 00
	American Meter Co....	Gauge meters	2146	7 90
	Deane Steam Pump Co.	Pumps	2147	202 35
	Andrew Kaiser	Sterilizers	2148	7 75
	Toledo Blade Co.....	Advertisement	2149	6 75
	Commercial Tribune Co.	"	2150	9 40
	Plain Dealer Pub Co....	"	2151	7 90
	O. S. Journal Pub. Co..	"	2152	7 50
	Carl Braun	Pressed cork	2153	5 00
	Philip Neel	Printing labels	2154	2 53
	J. S. Abbott & Co.....	Hardware	2155	16 75
	Longmans, Green & Co.	Books	2156	1 79
	L. Gastelocchi & Co....	Carts	2157	14 03
	Dunn, Taft & Co.....	Dry goods	2158	4 65
	Crystal Ice Mfg. Co....	Ice coupon book.....	2159	2 00
	Hager & Graves.....	Groceries	2160	47 50
	Alpha Dairy Co.....	Milk tickets	2161	3 00
	M. V. Mitchell & Son...	Labor	2162	3 20
	Capital City Mach. Wks.	Iron grate	2163	6 30
	Flint & Walling Mfg. Co.	Figure 434A	2164	4 25
	The A. H. Andrews Co.	Hylolate	2165	21 13
	Vogelgesang Fur. Co....	Furnace repairs	2166	3 50
	The W. M. Taylor M. & Grate Co.....	Mantel and trim.....	2167	17 50
	The B. F. Goodrich Co.	Rubber mat.	2168	5 05
	Wm. Bebb	Painting	2169	5 95

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Feb. 15	W. F. Worcester.....	Stove grates.....	2170	\$1 20
	Jacob Good	Carpentry	2171	69 35
	Einer & Amend.....	Chemicals	2172	10 05
	Emil Greiner	Supplies	2173	24 09
	Kimball & Matthews....	"	2174	1 60
	Quaker City Rubber Co.	Tubing	2175	21 60
	Merck & Co.....	Celloidin	2176	2 04
	H. Troemner.....	Weights, etc.....	2177	12 26
	Denver Fire Clay Co...	Supplies	2178	228 85
	Kauffman-Lattimer Co..	Drugs and sundries....	2179	43 72
	C. L. Vogel.....	Labor and material....	2180	15 00
	A. G. Spaulding & Bro.	Lockers	2181	375 00
	Wm. Burdell, Jr.....	Repairs	2182	3 25
	E. G. Saltmann.....	Blue print frames.....	2183	7 00
	Gustav Bruder	Band instruction	2184	42 00
24	Thomas F. Hunt.....	Salary Feb. 1900.....	2185	250 00
	Wm. D. Gibbs.....	"	2186	160 00
	John W. Decker.....	"	2187	140 00
	Frank Ruhlén	"	2188	60 00
	H. A. Weber.....	"	2189	225 00
	A. E. Vinson.....	"	2190	80 00
	Geo. W. Knight.....	"	2191	250 00
	John B. Sanborn.....	"	2192	70 00
	A. M. Bleile.....	"	2193	225 00
	C. B. Morrey.....	"	2194	100 00
	M. Dresbach	"	2195	30 00
	H. C. Lord.....	"	2196	160 00
	W. A. Kellerman.....	"	2197	225 00
	J. H. Schaffner.....	"	2198	90 00
	C. W. Collett.....	"	2199	25 00
	Alice Dufour	"	2200	25 00
	Fred Luke	"	2201	50 00
	Wm. McPherson	"	2202	225 00
	S. A. Norton.....	"	2203	120 00
	W. E. Henderson.....	"	2204	100 00
	D. A. Kohr.....	"	2205	60 00
	H. C. Gore.....	"	2206	30 00
	J. F. Jeffrey.....	"	2207	10 00
	C. N. Brown.....	"	2208	225 00
	C. E. Sherman.....	"	2209	110 00
	J. W. Groves.....	"	2210	50 00
	Edward Orton, Jr.....	"	2211	180 00
	A. V. Bleininger.....	"	2212	40 00
	P. G. Bowman.....	"	2213	140 00
	C. P. Souther.....	"	2214	80 00
	J. N. Bradford.....	"	2215	180 00
	T. E. French.....	"	2216	110 00
	T. K. Lewis.....	"	2217	60 00
	J. H. Vosskuehler.....	"	2218	30 00
	Silas Martin.....	"	2219	50 00
	F. C. Clark.....	"	2220	160 00
	J. P. Gordy.....	"	2221	225 00
	Grace Pitts	"	2222	30 00
	F. C. Caldwell.....	"	2223	160 00
	F. A. Fish.....	"	2224	60 00
	J. P. Covan.....	"	2225	70 00
	A. C. Barrows.....	"	2226	225 00
	J. R. Taylor.....	"	2227	110 00
	W. H. Siebert.....	"	2228	135 00
	J. A. Bownocker.....	"	2229	100 00
	Charles Prosser	"	2230	150 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Feb. 24	W. C. Mills.....	Salary Feb. 1900.....	2231	\$35 00
	E. A. Eggers.....	" ".....	2232	225 00
	C. W. Mesloh.....	" ".....	2233	110 00
	E. H. Moore.....	" ".....	2234	20 00
	J. R. Smith.....	" ".....	2235	225 00
	A. W. Hodgman.....	" ".....	2236	110 00
	W. R. Lazenby.....	" ".....	2237	225 00
	H. C. Price.....	" ".....	2238	40 00
	F. E. Sanborn.....	" ".....	2239	200 00
	W. A. Knight.....	" ".....	2240	100 00
	C. P. Crowe.....	" ".....	2241	80 00
	W. H. Renck.....	" ".....	2242	85 00
	A. H. McIntyre.....	" ".....	2243	30 00
	S. C. Derby.....	" ".....	2244	225 00
	W. F. Hunter.....	" ".....	2245	250 00
	J. H. Collins.....	" ".....	2246	20 00
	J. A. Shauck.....	" ".....	2247	17 50
	E. B. Kinkead.....	" ".....	2248	120 00
	W. H. Page.....	" ".....	2249	140 00
	E. O. Randall.....	" ".....	2250	70 00
	D. F. Pugh.....	" ".....	2251	95 00
	O. B. Jones.....	" ".....	2252	135 00
	H. N. Townshend.....	" ".....	2253	55 00
	Gertrude Kellicott.....	" ".....	2254	55 00
	Maude Jeffrey.....	" ".....	2255	55 00
	Lucy Allen.....	" ".....	2256	55 00
	C. B. Guittard.....	" ".....	2257	55 00
	R. D. Bohannon.....	" ".....	2258	225 00
	G. W. McCoard.....	" ".....	2259	160 00
	C. L. Arnold.....	" ".....	2260	100 00
	K. D. Swartzel.....	" ".....	2261	100 00
	Emma L. Ball.....	" ".....	2262	30 00
	J. W. Young.....	" ".....	2263	30 00
	C. L. E. Moore.....	" ".....	2264	10 00
	W. T. Magruder.....	" ".....	2265	225 00
	E. A. Hitchcock.....	" ".....	2266	150 00
	F. J. Hale.....	" ".....	2267	30 00
	C. A. Grate.....	" ".....	2268	30 00
	A. F. Hall.....	" ".....	2269	60 00
	F. A. Ray.....	" ".....	2270	200 00
	N. W. Lord.....	" ".....	2271	200 00
	E. E. Somermeier.....	" ".....	2272	70 00
	G. B. Kauffman.....	" ".....	2273	200 00
	W. A. Landacre.....	" ".....	2274	70 00
	E. E. Harrold.....	" ".....	2275	90 00
	N. P. Oglesby.....	" ".....	2276	40 00
	W. H. Scott.....	" ".....	2277	225 00
	F. M. Hamilton.....	" ".....	2278	80 00
	C. P. Linhart.....	" ".....	2279	160 00
	S. E. Canfield.....	" ".....	2280	75 00
	D. C. Huddleson.....	" ".....	2281	50 00
	B. F. Thomas.....	" ".....	2282	225 00
	J. E. Boyd.....	" ".....	2283	120 00
	F. E. Kester.....	" ".....	2284	80 00
	H. W. Brown.....	" ".....	2285	25 00
	J. V. Denney.....	" ".....	2286	225 00
	W. L. Graves.....	" ".....	2287	100 00
	G. H. McKnight.....	" ".....	2288	90 00
	H. C. Allen.....	" ".....	2289	115 00
	J. B. Parker.....	" ".....	2290	30 00
	B. L. Bowen.....	" ".....	2291	225 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Feb. 24	C. A. Bruce.....	Salary Feb. 1900.....	2292	\$100 00
	C. F. Dowd.....	" "	2293	20 00
	D. S. White.....	" "	2294	160 00
	W. F. Lavery.....	" "	2295	70 00
	C. B. Frederick.....	" "	2296	70 00
	O. V. Brumley.....	" "	2297	50 00
	H. M. Osborn.....	" "	2298	225 00
	Jas. S. Hine.....	" "	2299	85 00
	F. L. Landacre.....	" "	2300	85 00
	W. O. Thompson.....	" "	2301	416 67
	Alexis Cope.....	" "	2302	187 50
	Carl E. Steeb.....	" "	2303	60 00
	E. D. Cockins.....	" "	2304	58 33
	K. D. Duncan.....	" "	2305	54 17
	E. R. Hubler.....	" "	2306	33 33
	W. C. McCracken.....	" "	2307	150 00
	C. M. Low.....	" "	2308	54 17
	Wm. Standley.....	" "	2309	50 00
	Benj. LeBay.....	" "	2310	50 00
	Thos. Boude.....	" "	2311	45 00
	Wm. H. Case.....	" "	2312	45 00
	Marion Peck.....	" "	2313	40 00
	Geo. R. Rose.....	" "	2314	65 00
	Jos. Garrettson.....	" "	2315	37 39
	Benj. Irwin.....	" "	2316	45 00
	J. C. Perry.....	" "	2317	12 50
	G. A. Goodspeed.....	" "	2318	40 00
	R. E. McIntosh.....	" "	2319	12 50
	D. D. Geren.....	" "	2320	40 00
	T. E. Osborn.....	" "	2321	40 00
	J. H. Brown.....	" "	2322	40 00
	Wm. Whitestone.....	" "	2323	40 00
	G. C. Denny.....	" "	2324	40 00
	E. G. Bailey.....	" "	2325	15 00
	M. N. Cook.....	" "	2326	40 00
	W. Conklin.....	" "	2327	40 00
	H. Chantler.....	" "	2328	40 00
	A. Chantler.....	" "	2329	45 00
	Earl Conway.....	" "	2330	20 00
	James Kelly.....	" "	2331	25 00
	W. C. Weir.....	" "	2332	20 00
	Elisha Smith.....	" "	2333	33 33
	D. A. Crowner.....	" "	2334	33 33
	C. H. Woodruff.....	" "	2335	65 00
	W. Townsel.....	" "	2336	25 00
	Wm. Cannan.....	" "	2337	20 00
	W. E. Mann.....	" "	2338	25 00
	A. G. McCall.....	" "	2339	27 00
19	Ohio National Bank.....	Foreign money order.....	2340	3 40
	Ohio National Bank.....	" "	2341	106 55
20	Lily Weeks.....	Services.....	2342	5 00
21	Ohio National Bank.....	Foreign money order.....	2343	7 25
	A. McLaughlin.....	Clerical work.....	2344	2 55
26	M. J. Kellenberger.....	Services.....	2345	25 00
	Lily Weeks.....	Janitress.....	2346	4 00
March 1	A. J. Loyne.....	Return of fees.....	2347	30 00
5	Lily Weeks.....	Janitress.....	2348	5 00
7	Murray City Coal Co.....	Coal.....	2349	932 79
6	Thos. J. Godfrey.....	Trustee expenses.....	2350	10 25
7	Engelke & Bigelow.....	Freight and drayage.....	2351	22 99
	Tracy-Wells Co.....	Supplies.....	2352	13 77

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Mar. 7	Kauffman-Lattimer Co.	Drugs and sundries.....	2353	\$125 10
	Schoedinger, Frn & Co.	Shears and nails.....	2354	2 75
	Payne McD. Hdw. Co.	Hardware	2355	9 95
	Erner & Hopkins.....	"	2356	25 40
	Cent. O. Paper Co.....	Paper	2357	22 41
	James P. Carlisle.....	Sand, cement, etc.....	2358	8 90
	Tallmadge Hdw. Co.....	Hardware	2359	23 04
	Columbus Supply Co...	Supplies	2360	15 90
	Blackwood, Green & Co.	Metal and labor.....	2361	11 72
	Robert A. McClure.....	Table frames, etc.....	2362	206 02
	Amer. Dist. Tel. Co....	Messenger, etc.....	2363	1 25
	W. S. Orvis.....	Paper and ink.....	2364	1 40
	H. Braun Sons & Co...	Instruments	2365	7 75
	Columbus Bolt Works..	Bolts	2366	80
	J. S. Abbott & Co.....	Hardware	2367	4 15
	Hall-Collins Hdw. Co..	Files and sandpaper....	2368	6 63
	Elec. Sup. & Const. Co.	Electrical supplies	2369	13 28
	Miller Fur. Co.....	Special box	2370	15 00
	Champlin Printing Co..	Printing	2371	35 50
	Spahr & Glenn.....	"	2372	7 25
	Standard Oil Co.....	Oil	2373	34 73
	Col. M. & M. Sup. Co..	Supplies	2374	41 40
	Domestic Laundry	Laundry work	2375	21 83
	Capital City Mach. Co..	Iron and castings.....	2376	27 78
	J. S. Maclean.....	Rifle molds	2377	93 75
	E. C. Karshner.....	Postal guide	2378	2 50
	Hann & Adair.....	P. O. cards	2379	2 75
	Western Union Tel. Co.	Telegrams	2380	4 89
	Nitschke Bros	Printing	2381	9 40
	Col. Transfer Co.....	Carriage service	2382	5 00
	J. F. Ridenour.....	Half dozen files.....	2383	1 25
	Eaton Mach. Works....	Lock and hasps	2384	15 18
	Central Union Tel. Co..	Rent and tolls	2385	12 96
	Wm. Taylor M. & G. Co.	Mantel cabinets	2386	75 00
	Batterson Dec. House..	Papering	2387	8 20
	McAllister, Moh. & Co.	Desk	2388	18 00
	Fish Press Brick Co...	Brick	2389	13 00
	New Col. Bridge Co....	Plate and drayage....	2390	3 06
	Cherington P. & E. Co..	Stamps	2391	1 55
	P. C. Cull.....	Mason work	2392	6 75
	Kimball & Matthews...	One dozen plates.....	2393	56
	Hart & Crouse.....	Shaker bar and labor...	2394	2 06
	J. & G. Butler.....	Soap and candles.....	2395	24 82
	L. A. Harsh & Co.....	Springs and wringer....	2396	1 50
	Wassall F. C. Co.....	Cement	2397	5 70
	Ruggles-Gale Co.....	Record	2398	1 25
	J. J. Smith & Co.....	Stamp and pad.....	2399	1 35
	Col. Pharmacal Co.....	Rubber tubing	2400	15
	Jeffrey Mfg. Co.....	Chain	2401	8 00
	J. M. & W. Westwater..	Wire shades, etc.....	2402	3 40
	Lewis Fink	Picture rail	2403	2 60
	Lawrence Press Co....	Labels	2404	3 00
	Seraphim Blank B. Co..	Binding	2405	145 15
	Col. Gas Co.....	February gas	2406	161 75
	J. A. Beer.....	Laboratory work	2407	2 10
	W. H. Waters.....	Labor	2408	42 00
	Forest Spencer	Wheeling coal	2409	9 00
	F. W. Arnold.....	Student assistance	2410	4 94
	O. I. Dick.....	Labor	2411	8 50
	M. C. Hunter.....	"	2412	9 00
	J. G. Sterling.....	"	2413	4 25

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Mar. 7	B. B. Wells.....	Labor	2414	\$8 88
	Melvin Dresbach	Dept. supplies	2415	5 75
	Spahr & Glenn.....	Envelopes	2416	2 25
	J. W. Shaw.....	Work in library	2417	8 95
	Mabel Huddleson.....	Labor	2418	10 00
	S. N. Young.....	Work	2419	9 10
	Mason Snow	Labor in library.....	2420	8 95
	Roy Thompson	Guide	2421	5 00
	F. C. McKinney.....	"	2422	3 63
	F. C. Long.....	"	2423	6 25
	Helen Powell	Clerical services	2424	3 15
	K. H. Duncan.....	Street car tickets.....	2425	5 00
	Grace Eagleson	Clerical services	2426	4 47
	E. L. Orndorf.....	Guide	2427	5 38
	Andrew Spittal	Labor	2428	21 21
	W. L. Redrow.....	"	2429	17 70
	R. W. Funk.....	Work in store room.....	2430	16 42
	Phil. Long	Luncheon	2431	7 50
	E. G. Bailey.....	Labor	2432	6 10
	T. A. Panter.....	Masonry	2433	2 10
	Metta Seymour	Clerical work	2434	6 00
	Edith Seymour	Piano playing	2435	3 00
	Helen Potts	"	2436	6 25
	H. C. Price.....	Photographs	2437	2 75
	Richard Spencer	Wheeling coal	2438	42 00
	C. L. Sackett.....	Lantern, extra copies.....	2439	8 00
	H. J. Hammond.....	Hospital supplies	2440	3 00
	J. Stainbrook.....	Work in boiler house.....	2441	9 00
	Wilbert Morelan	Carpentry	2442	14 25
	J. H. Randall.....	"	2443	34 50
	E. J. Barton.....	"	2444	13 75
	A. F. Wilcox.....	"	2445	16 38
	H. O. Carrington.....	Lantern	2446	26 67
	A. H. Barber Mfg. Co.	Castings	2447	9 00
	Chic. Blue Pr. Paper Co.	Blueprint paper	2448	4 80
	Baker & Adamson C. Co.	Chemicals, etc.....	2449	36 65
	Eimer & Amend.....	"	2450	13 40
	Emil Greiner	Apparatus	2451	29 53
	Chic. Laboratory S. Co.	Supplies	2452	14 18
	Akron Chemical Co.....	Bisque ware	2453	2 00
	Amer. Aristotype Co.....	Paper	2454	9 75
	Bausch & Lomb Opt. Co.	Apparatus	2455	7 35
	Open Court Pub. Co.....	Portraits	2456	12 00
	Elec. Appliance Co.....	Conduit and clips.....	2457	6 08
	Babcock & Wilcox Co.	Worm and wheel.....	2458	18 65
	M. P. Streett.....	Masonry and material.....	2459	22 00
	M. R. Shellenberger.....	Advertisement	2460	1 50
	Jas. McCrea & Co.....	Steam clamp	2461	9 75
	Fairbanks, Morse & Co.	Standard sand	2462	10 50
	Riehle Bros. & Co.....	Molds and sieve	2463	47 50
	W. H. Anderson & Co.	Reports	2464	15 00
	C. Scribner's Sons.....	Commercial Cuba	2465	3 27
	R. B. Hough.....	Specimen pages	2466	9 76
	H. O. Carrington.....	Normal lantern	2467	26 67
	D'Este & Seely Co.....	Trap	2468	4 00
	M. P. Streett.....	Material and labor.....	2469	4 00
	Henry Barnard	Journal of Education.....	2470	120 00
	Burrows Bros. & Co.....	Books	2471	94 26
	Boston Test. Lab.....	Subscription	2472	3 00
	Am. Inst. Elec. Engrs..	Reports	2473	6 00
	Boston Book Co.....	Books	2474	83 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Mar. 7	Robt. I. Fulton.....	Desks	2475	\$10 00
	G. E. Stechert.....	Books	2476	944 07
	Ohio Nat. Bank.....	Foreign money order...	2477	11 95
	R. M. Rownd, P. M....	Dep. for 2nd class mat.	2478	10 00
	J. N. Bradford.....	Lettering commissions ..	2479	14 25
	Webb Sta. & Ptg. Co..	Office supplies	2480	11 00
	Chic. Lab. Sup. & S. Co.	Supplies	2481	5 75
	Osborne, Will's. & Horn	Coal	2482	59 16
	J. T. Godfrey.....	Trustee expense	2483	20 11
	John W. Beech.....	Salary	2484	60 00
	Lily Weeks	Janitress	2485	5 00
	Postal Tel. Cable Co....	Telegrams	2486	66
	D. A. Crowner.....	Salary March, 1900.....	2487	33 34
	Elisha Smith	"	2488	33 34
	Lily Weeks	Services, March, 1900..	2489	5 00
	T. F. Hunt.....	Salary March, 1900.....	2490	250 00
	Wm. D. Gibbs.....	"	2491	160 00
	J. W. Decker.....	"	2492	140 00
	Frank Ruhlen	"	2493	60 00
	H. A. Weber.....	"	2494	225 00
	A. E. Vinson.....	"	2495	80 00
	G. W. Knight.....	"	2496	250 00
	John B. Sanborn.....	"	2497	70 00
	A. M. Bleile.....	"	2498	225 00
	C. B. Morrey.....	"	2499	100 00
	M. Dresbach	"	2500	30 00
	H. C. Lord.....	"	2501	160 00
	W. A. Kellerman.....	"	2502	225 00
	J. H. Schaffner.....	"	2503	100 00
	S. W. Collett.....	"	2504	25 00
	Alice Dufour	"	2505	25 00
	F. K. Luke.....	"	2506	50 00
31	Wm. McPherson	"	2507	225 00
	S. A. Norton.....	"	2508	120 00
	W. E. Henderson.....	"	2509	100 00
	D. A. Kohr.....	"	2510	60 00
	H. C. Gore.....	"	2511	30 00
	J. F. Jeffrey.....	"	2512	10 00
	C. N. Brown.....	"	2513	225 00
	C. E. Sherman.....	"	2514	110 00
	J. W. Groves.....	"	2515	50 00
	Ed. Orton.....	"	2516	180 00
	A. V. Bleininger.....	"	2517	40 00
	Wm. Cannan.....	"	2518	20 00
	P. G. Bowman.....	"	2519	140 00
	C. P. Souther.....	"	2520	80 00
	J. N. Bradford.....	"	2521	180 00
	T. E. French.....	"	2522	110 00
	T. K. Lewis.....	"	2523	60 00
	J. H. Vosskuehler.....	"	2524	30 00
	Silas Martin.....	"	2525	50 00
	F. C. Clark.....	"	2526	160 00
	W. E. Mann.....	"	2527	25 00
	Grace Pitts.....	"	2528	30 00
	J. P. Gordy.....	"	2529	225 00
	F. C. Caldwell.....	"	2530	160 00
	F. A. Fish.....	"	2531	60 00
	J. P. Covan.....	"	2532	70 00
	A. C. Barrows.....	"	2533	225 00
	J. R. Taylor.....	"	2534	110 00
	W. H. Siebert.....	"	2535	135 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Mar. 31	J. A. Bownocker.....	Salary March, 1900....	2536	\$100 00
	C. S. Prosser.....	" " " ".....	2537	150 00
	W. C. Mills.....	" " " ".....	2538	35 00
	E. A. Eggers.....	" " " ".....	2539	225 00
	C. W. Mesloh.....	" " " ".....	2540	110 00
	E. H. Moore.....	" " " ".....	2541	20 00
	J. R. Smith.....	" " " ".....	2542	225 00
	A. W. Hodgman.....	" " " ".....	2543	110 00
	W. R. Lazenby.....	" " " ".....	2544	225 00
	H. C. Price.....	" " " ".....	2545	50 00
	F. E. Sanborn.....	" " " ".....	2546	200 00
	W. A. Knight.....	" " " ".....	2547	100 00
	C. W. Crowe.....	" " " ".....	2548	80 00
	W. H. Renck.....	" " " ".....	2549	85 00
	A. H. McIntire.....	" " " ".....	2550	30 00
	S. C. Derby.....	" " " ".....	2551	225 00
	W. F. Hunter.....	" " " ".....	2552	250 00
	J. H. Collins.....	" " " ".....	2553	20 00
	J. A. Shauck.....	" " " ".....	2554	17 50
	E. B. Kinhead.....	" " " ".....	2555	120 00
	W. H. Page.....	" " " ".....	2556	140 00
	E. O. Randall.....	" " " ".....	2557	70 00
	D. F. Pugh.....	" " " ".....	2558	95 00
	O. B. Jones.....	" " " ".....	2559	135 00
	H. N. Townshend.....	" " " ".....	2560	55 00
	Gertrude Kellicott.....	" " " ".....	2561	55 00
	Maude D. Jeffrey.....	" " " ".....	2562	55 00
	Lucy Allen.....	" " " ".....	2563	55 00
	C. B. Guittard.....	" " " ".....	2564	55 00
	R. D. Bohannon.....	" " " ".....	2565	225 00
	G. W. McCoard.....	" " " ".....	2566	160 00
	C. L. Arnold.....	" " " ".....	2567	100 00
	K. D. Swartzel.....	" " " ".....	2568	100 00
	E. L. Ball.....	" " " ".....	2569	30 00
	J. W. Young.....	" " " ".....	2570	30 00
	C. L. E. Moore.....	" " " ".....	2571	10 00
	W. T. Magruder.....	" " " ".....	2572	225 00
	E. A. Hitchcock.....	" " " ".....	2573	150 00
	F. J. Hale.....	" " " ".....	2574	30 00
	C. A. Grate.....	" " " ".....	2575	30 00
	A. F. Hall.....	" " " ".....	2576	60 00
	F. A. Ray.....	" " " ".....	2577	200 00
	N. W. Lord.....	" " " ".....	2578	200 00
	E. E. Somermeier.....	" " " ".....	2579	70 00
	G. B. Kauffman.....	" " " ".....	2580	200 00
	W. A. Landacre.....	" " " ".....	2581	70 00
	E. E. Harrold.....	" " " ".....	2582	90 00
	N. P. Oglesby.....	" " " ".....	2583	40 00
	W. H. Scott.....	" " " ".....	2584	225 00
	F. M. Hamilton.....	" " " ".....	2585	80 00
	C. P. Linhart.....	" " " ".....	2586	160 00
	S. E. Canfield.....	" " " ".....	2587	75 00
	D. C. Huddleson.....	" " " ".....	2588	50 00
	B. F. Thomas.....	" " " ".....	2589	225 00
	J. E. Boyd.....	" " " ".....	2590	120 00
	F. E. Kester.....	" " " ".....	2591	80 00
	H. W. Brown.....	" " " ".....	2592	25 00
	J. V. Denney.....	" " " ".....	2593	225 00
	W. L. Graves.....	" " " ".....	2594	100 00
	Geo. H. McKnight.....	" " " ".....	2595	90 00
	H. C. Allen.....	" " " ".....	2596	115 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
Mar. 31	J. B. Parker.....	Salary March, 1900....	2597	\$30 00
	B. L. Bowen.....	" "	2598	225 00
	C. A. Bruce.....	" "	2599	100 00
	C. F. Dowd.....	" "	2600	20 00
	D. S. White.....	" "	2601	160 00
	W. F. Lavery.....	" "	2602	70 00
	C. B. Frederick.....	" "	2603	70 00
	O. V. Brumley.....	" "	2604	50 00
	H. M. Osborn.....	" "	2605	225 00
	J. S. Hine.....	" "	2606	85 00
	F. L. Landacre.....	" "	2607	85 00
	W. O. Thompson.....	" "	2608	416 67
	Alexis Cope.....	" "	2609	187 50
	Carl E. Steeb.....	" "	2610	60 00
	E. D. Cockins.....	" "	2611	58 33
	E. R. Hubler.....	" "	2612	33 33
	K. H. Duncan.....	" "	2613	54 17
	W. C. McCracken.....	" "	2614	150 00
	C. M. Low.....	" "	2615	54 17
	W. A. Standley.....	" "	2616	50 00
	Benj. LeBay.....	" "	2617	50 00
	T. A. Boude.....	" "	2618	45 00
	W. H. Case.....	" "	2619	45 00
	Marion Peck.....	" "	2620	40 00
	Geo. R. Rose.....	" "	2621	65 00
	J. Garrettson.....	" "	2622	37 39
	Benj. Irwin.....	" "	2623	45 00
	J. C. Perry.....	" "	2624	12 50
	G. A. Goodspeed.....	" "	2625	40 00
	R. E. McIntosh.....	" "	2626	12 50
	D. D. Geren.....	" "	2627	40 00
	T. E. Osborn.....	" "	2628	40 00
	J. H. Brown.....	" "	2629	40 00
	Wm. Whitestine.....	" "	2630	40 00
	G. C. Denny.....	" "	2631	40 00
	E. G. Bailey.....	" "	2632	15 00
	A. G. McCall.....	" "	2633	27 00
	M. N. Cook.....	" "	2634	40 00
	W. Conklin.....	" "	2635	40 00
	H. Chantler.....	" "	2636	40 00
	Arthur Chantler.....	" "	2637	45 00
	Earl Conway.....	" "	2638	20 00
	James Kelly.....	" "	2639	25 09
	W. C. Weir.....	" "	2640	20 00
	W. Townsel.....	" "	2641	25 00
	C. H. Woodruff.....	" "	2642	65 00
23	R. M. Cooper.....	Return fees	2643	10 00
27	Lily Weeks.....	Salary one week.....	2644	5 00
30	M. J. Kellenberger.....	Services	2645	20 00
April 4	O. I. Dick.....	Student labor	2646	7 03
	A. F. Wilcox.....	Carpenter work	2647	25 25
	F. C. McKinney.....	Guide, etc.....	2648	4 17
	J. H. Randall.....	Carpenter work	2649	56 00
	W. Morelan.....	" "	2650	18 25
	Andrew Spittal.....	Departmental work	2651	29 49
	H. C. Price.....	Express and postage....	2652	5 00
	B. B. Wells.....	Student labor	2653	6 50
	F. W. Arnold.....	" "	2654	1 35
	A. H. Lyon.....	" "	2655	4 05
	T. A. Panter.....	Janitor work	2656	6 53
	M. C. Hunter.....	" "	2657	6 90

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
April 4	Hattie Hoffman.....	Work in library.....	2658	\$4 00
	Mason Snow	"	2659	9 95
	Mabel Huddleson.....	"	2660	10 00
	S. N. Young.....	"	2661	10 60
	J. W. Shaw.....	"	2662	10 30
	Gretchen Miller	"	2663	4 50
	West. Union Tel. Co....	Telegrams	2664	95
	Grace Young	Work in library.....	2665	4 00
	Max Morse	History of England.....	2666	8 00
	R. R. Harkins.....	Drafting	2667	90
	E. G. Bailey.....	Labor	2668	9 68
	M. W. Mumma.....	"	2669	1 25
	E. E. Nobles.....	Drafting	2670	11 00
	C. P. Linhart.....	Department supplies ..	2671	3 00
	C. B. Frederick.....	Anatomy horses	2672	10 50
	F. R. Kunkle.....	Work in laboratory.....	2673	5 25
	F. C. Clark.....	Department supplies ..	2674	1 88
	Arthur Geren	Drawing paper	2675	46 85
	E. L. Orndorf.....	Guide	2676	4 12
	W. A. Hite.....	"	2677	5 38
	A. McLaughlin	Clerical work	2678	1 35
	Helen Powell	"	2679	1 35
	Grace Eagleson	"	2680	2 40
	F. C. Long.....	Guide	2681	3 50
	Roy Thompson	"	2682	6 87
	R. M. Starbuck.....	Plumbing charts	2683	3 00
	J. R. Smith.....	Expressage	2684	1 85
	E. D. West.....	Roman coins	2685	2 00
	W. L. Redrow.....	Lab. asst	2686	15 35
	C. P. Linville.....	"	2687	5 00
	C. L. Sackett.....	Adv. in Lantern.....	2688	58 67
	R. W. Funk.....	Work in store room.....	2689	22 50
	Jacob Slyh.....	Labor	2690	4 50
	Gustav Bruder	Band instruction	2691	20 00
	J. A. Beer.....	Lab. asst.....	2692	3 10
	J. S. Hine.....	Lab. supplies & expen's	2693	14 85
	J. C. Perry.....	Campus work	2694	3 90
	Warren Severn	"	2695	2 80
	J. N. Bradford.....	Drawing materials	2696	1 50
	R. E. McIntosh.....	Wiring, etc.....	2697	3 25
	H. B. Kinnear.....	Wiring	2698	12 15
	Richard Spencer	Wheeling coal	2699	42 00
	W. H. Watters.....	"	2700	36 00
	C. H. Woodruff.....	Muslin and hooks.....	2701	86
	Standard Oil Co.....	Oil and gasoline.....	2702	54 76
	Erner & Hopkins.....	Electrical supplies	2703	14 31
	Spahr & Glenn.....	Printing	2704	32 00
	J. S. Abbott & Co.....	Hardware	2705	3 55
	Hann & Adair.....	Printing	2706	9 50
	Kauffman, Lattimer Co.	Drugs and sundries.....	2707	132 56
	J. S. Maclean.....	Case, brackets, etc.....	2708	20 50
	Tallmadge Hdw. Co....	Hardware	2709	54 03
	Schoedinger, F'rn & Co.	"	2710	30 23
	Kelton & Converse....	Lumber	2711	67 97
	Col. Mill & Mine S. Co.	Waste and lamps.....	2718	28 33
	Harper Illustrating Co.	Half tone work	2713	11 85
	Domestic Laundry	Towel service	2714	23 72
	Penna. Fuel Co.....	Coal	2715	21 50
	Champlin Printing Co..	Printing	2716	234 55
	Franklin Toil. Sup. Co.	Towel service	2717	4 80
	E. Doddington & Co....	Lumber, etc.....	2718	51 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
April 4	Col. Supply Co.....	Supplies	2719	\$27 57
	R. A. McClure.....	Lumber	2720	87 95
	Bucher Eng. Co.....	Half tone, etc.....	2721	22 78
	L. B. Wing.....	Trustee expenses	2722	13 50
	J. W. Beach.....	Salary for March.....	2723	60 00
	Wm. Cannan	Store room supplies.....	2724	15 50
	Murray City Coal Co..	Coal	2725	722 00
	Nitschke Bros	Printing	2726	9 60
	Kimball & Mathews....	Supplies	2727	1 00
	Cap. City Mchn. Wks..	Steel rods, etc.....	2728	9 26
	J. M. & W. Westwater..	Chandeliers, etc.....	2729	109 25
	Payne-McD. Hdw. Co..	Hardware	2730	13 40
	McClelland & Co.....	Supplies	2731	3 98
	E. E. Corwin.....	Claim of Col. Seed Co..	2732	43 75
	Jeffrey Mfg. Co.....	Red rope ins. paper....	2733	3 50
	Walter L. Lillie & Co..	Merchandise and frames	2734	4 00
	Logan McCormick.....	Frames	2735	6 00
	The H. Cole Co.....	Thumb tacks	2736	3 00
	Seraphim B. B. Co.....	Binding	2737	58 05
	H. H. Walling.....	Painting and scraping..	2738	18 15
	Eldridge & Higgins Co.	Jars	2739	5 25
	Moonstone Copy. Sl. Co.	Filling and ink.....	2740	1 45
	P. Hayden S. & Hd. Co.	Cube castings	2741	6 79
	Col. Gas Co.....	Coke	2742	6 65
	James P. Carlisle.....	Plaster and cement....	2743	5 10
	H. W. Johns Mfg. Co..	One gallon No. 56 paint.	2744	1 50
	Burgess Sold. Furn. Co.	Repairing	2745	3 30
	Palmer & Beck.....	Tin	2746	3 00
	H. Braun Sons & Co..	Plumbago	2747	80
	Lynas Bros	Candles	2748	2 70
	Eaton Machine Works..	Iron pieces, etc.....	2749	4 81
	Lewis Fink	Picture rail	2750	1 80
	Andrew Dobbie	Cotton	2751	2 40
	D. H. Derflinger.....	Gasoline	2752	7 00
	Z. L. White & Co.....	Dry goods	2753	3 48
	Dunn, Taft & Co.....	Muslin, etc.....	2754	1 36
	Scioto Boiler Works....	Boiler tube, etc.....	2755	7 00
	Eimer & Amend.....	Chemicals, etc.....	2756	28 60
	Amer. Dist. Tel. Co....	Box rent	2757	26 00
	Webb Sta. & Ptg. Co..	Office supplies	2758	22 00
	Burrows Bros. Co.....	Books	2759	91 84
	G. E. Stechert.....	"	2760	234 04
	Henry Troemner	Riders	2761	1 92
	Baker & Adamson Co..	Chemicals	2762	14 84
	J. Carbutt	Plates	2763	124 24
	Chic. Lab. Sup. & S. Co.	Apparatus	2764	32 40
	E. H. Sargent & Co....	Machite lead, etc.....	2765	51 00
	W. W. Whiton.....	Eight bush. potatoes..	2766	8 00
	U. S. Elec. Supply Co..	Telegraph receiver....	2767	26 00
	Gregory Elec. Co.....	Water meter	2768	15 15
	Nicholson File Co.....	Files	2769	22 73
	The Strelinger Co.....	Hutler dado head.....	2770	10 80
	G. H. Kearney.....	Journals	2771	62 50
	The Boston Book Co....	Books	2772	103 00
	Boston Book Bind. Co..	Binder	2773	1 15
	H. H. Ballard.....	Klips	2774	3 12
	T. C. Trueblood.....	N. A. E. reports.....	2775	2 00
	Torrey Bot. Club.....	Memoirs, Vol. 6 and 7..	2776	6 00
	E. L. Field.....	Cards	2777	20 70
	R. R. Bowker.....	Catalogues	2778	5 00
	E. M. Knowles.....	Stilts and pins.....	2779	75

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
April 4	W. & L. E. Gurley....	Sketching case.....	2780	\$38 00
	Edward Thompson Co..	Encyclopedia	2781	6 00
	W. H. Anderson & Co..	Reports, law	2782	7 00
	W. H. Johns Mfg. Co..	Half gallon paint.....	2783	1 50
	The Gunton Co.....	Magazine, etc.....	2784	11 20
	J. R. Palmenberg's Sons.	Display fixtures, etc....	2785	18 60
	Rand, McNally & Co...	Keeps Ancient Greece...	2786	8 80
	P. P. Caproni & Bro...	Busts	2787	11 05
	C. H. Evans & Co.....	Advertisement	2788	5 00
	W. J. Holland.....	Butterfly book	2789	3 00
	A. E. Adair.....	Mason work	2790	4 05
	Lily Weeks	Janitress	2791	5 00
	H. J. McTeague.....	Estimate, etc	2792	520 25
	Col. Gas Co.....	March gas	2793	160 20
	Eimer & Amend.....	Hydrometer, etc.....	2794	6 31
16	Adams-Bagnall Elec. Co.	Outer globes	2795	6 00
	F. H. McAllister.....	Plain sildes	2796	5 20
	Herman Haerlein.....	Services	2797	29 20
	Col. Water Works.....	Water rents	2798	797 11
	Bucher Eng. Co.....	Half tone work.....	2799	3 00
	J. S. Abbott & Co.....	Locks and bolts	2800	2 42
	Lily Weeks	Janitress work	2801	5 00
	R. M. Rownd, P. M....	400 4c stamps	2802	16 00
	R. M. Rownd, P. M....	Postage stamps	2803	19 50
28	Thos. F. Hunt.....	Salary, April, 1900....	2804	250 00
	W. D. Gibbs.....	" "	2805	160 00
	J. W. Decker.....	" "	2806	140 00
	Frank Ruhlen	" "	2807	60 00
	H. A. Weber.....	" "	2808	225 00
	A. E. Vinson.....	" "	2809	80 00
	G. W. Knight.....	" "	2810	250 00
	J. B. Sanborn.....	" "	2811	70 00
	A. M. Bleile.....	" "	2812	225 00
	C. B. Morrey.....	" "	2813	100 00
	M. Dresbach	" "	2814	30 00
	H. C. Lord.....	" "	2815	160 00
	W. A. Kellerman.....	" "	2816	225 00
	J. H. Schaffner.....	" "	2817	100 00
	S. W. Collett.....	" "	2818	25 00
	Alice Dufour	" "	2819	25 00
	F. K. Luke.....	" "	2820	50 00
	Wm. McPherson	" "	2821	225 00
	S. A. Norton.....	" "	2822	120 00
	W. E. Henderson.....	" "	2823	100 00
	D. A. Kohr.....	" "	2824	60 00
	H. C. Gore.....	" "	2825	30 00
	J. F. Jeffrey.....	" "	2826	10 00
	C. N. Brown.....	" "	2827	225 00
	C. E. Sherman.....	" "	2828	110 00
June 16	F. K. Luke.....	Salary, June, 1900....	2829	50 00
April 28	Edward Orton, Jr....	Salary, April, 1900....	2830	180 00
	A. V. Bleininger.....	" "	2831	40 00
	Perla G. Bowman.....	" "	2832	140 00
	C. P. Souther.....	" "	2833	80 00
	J. N. Bradford.....	" "	2834	180 00
	T. E. French.....	" "	2835	110 00
	T. K. Lewis.....	" "	2836	60 00
	J. H. Vosskuehler.....	" "	2837	30 00
	Silas Martin.....	" "	2838	50 00
	F. C. Clark.....	" "	2839	160 00
	Grace Pitts.....	" "	2840	30 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900 April 28	J. P. Gordy.....	Salary, April, 1900....	2841	\$225 00
	F. C. Caldwell.....	" " " " " " " "	2842	160 00
	F. A. Fish.....	" " " " " " " "	2843	60 00
	J. P. Covan.....	" " " " " " " "	2844	70 00
	A. C. Barrows.....	" " " " " " " "	2845	225 00
	J. R. Taylor.....	" " " " " " " "	2846	110 00
	W. H. Siebert.....	" " " " " " " "	2847	135 00
	J. A. Bownocker.....	" " " " " " " "	2848	100 00
	C. S. Prosser.....	" " " " " " " "	2849	150 00
	W. C. Mills.....	" " " " " " " "	2850	35 00
	E. A. Eggers.....	" " " " " " " "	2851	225 00
	C. W. Mesloh.....	" " " " " " " "	2852	110 00
	E. H. Moore.....	" " " " " " " "	2853	20 00
	J. R. Smith.....	" " " " " " " "	2854	225 00
	A. W. Hodgman.....	" " " " " " " "	2855	110 00
	W. R. Lazenby.....	" " " " " " " "	2856	225 00
	H. C. Price.....	" " " " " " " "	2857	50 00
	F. E. Sanborn.....	" " " " " " " "	2858	200 00
	W. A. Knight.....	" " " " " " " "	2859	100 00
	C. P. Crowe.....	" " " " " " " "	2860	80 00
	W. H. Renck.....	" " " " " " " "	2861	85 00
	A. H. McIntire.....	" " " " " " " "	2862	30 00
	S. C. Derby.....	" " " " " " " "	2863	225 00
	J. W. Beach.....	" " " " " " " "	2864	60 00
	W. F. Hunter.....	" " " " " " " "	2865	250 00
	J. H. Collins.....	" " " " " " " "	2866	20 00
	J. A. Shauck.....	" " " " " " " "	2867	17 50
	E. B. Kinkead.....	" " " " " " " "	2868	120 00
	W. H. Page.....	" " " " " " " "	2869	140 00
	E. O. Randall.....	" " " " " " " "	2870	70 00
	D. F. Pugh.....	" " " " " " " "	2871	95 00
	O. B. Jones.....	" " " " " " " "	2872	135 00
	H. N. Townshend.....	" " " " " " " "	2873	55 00
	Gertrude Kellicott.....	" " " " " " " "	2874	55 00
	Maude Jeffrey.....	" " " " " " " "	2875	55 00
	Lucy Allen.....	" " " " " " " "	2876	55 00
	C. B. Guittard.....	" " " " " " " "	2877	55 00
	R. D. Bohannon.....	" " " " " " " "	2878	225 00
	G. W. McCoard.....	" " " " " " " "	2879	160 00
	C. L. Arnold.....	" " " " " " " "	2880	100 00
	K. D. Swartzel.....	" " " " " " " "	2881	100 00
	E. L. Ball.....	" " " " " " " "	2882	30 00
	J. W. Young.....	" " " " " " " "	2883	30 00
	C. L. E. Moore.....	" " " " " " " "	2884	10 00
	W. T. Magruder.....	" " " " " " " "	2885	225 00
	E. A. Hitchcock.....	" " " " " " " "	2886	150 00
	F. J. Hale.....	" " " " " " " "	2887	30 00
	C. A. Grate.....	" " " " " " " "	2888	30 00
	A. F. Hall.....	" " " " " " " "	2889	60 00
	F. A. Ray.....	" " " " " " " "	2890	200 00
	N. W. Lord.....	" " " " " " " "	2891	200 00
	E. E. Somermeier.....	" " " " " " " "	2892	70 00
	G. B. Kauffman.....	" " " " " " " "	2893	200 00
	W. A. Landacre.....	" " " " " " " "	2894	70 00
	E. E. Harrold.....	" " " " " " " "	2895	90 00
	N. P. Oglesby.....	" " " " " " " "	2896	40 00
	W. H. Scott.....	" " " " " " " "	2897	225 00
	F. M. Hamilton.....	" " " " " " " "	2898	80 00
	C. P. Linhart.....	" " " " " " " "	2899	160 00
	S. E. Canfield.....	" " " " " " " "	2900	75 00
	D. C. Huddleson.....	" " " " " " " "	2901	50 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900 April 28	B. F. Thomas.....	Salary, April, 1900....	2902	\$225 00
	J. E. Boyd.....	" " " " " " " "	2903	120 00
	F. E. Kester.....	" " " " " " " "	2904	80 00
	H. W. Brown.....	" " " " " " " "	2905	25 00
	J. V. Denny.....	" " " " " " " "	2906	225 00
	W. L. Graves.....	" " " " " " " "	2907	100 00
	G. H. McKnight.....	" " " " " " " "	2908	90 00
	H. C. Allen.....	" " " " " " " "	2909	115 00
	J. B. Parker.....	" " " " " " " "	2910	30 00
	B. L. Bowen.....	" " " " " " " "	2911	225 00
	C. A. Bruce.....	" " " " " " " "	2912	100 00
	C. F. Dowd.....	" " " " " " " "	2913	20 00
	D. S. White.....	" " " " " " " "	2914	160 00
	W. F. Lavery.....	" " " " " " " "	2915	70 00
	C. B. Frederick.....	" " " " " " " "	2916	70 00
	O. V. Brumley.....	" " " " " " " "	2917	50 00
	Herbert Osborn.....	" " " " " " " "	2918	225 00
	J. S. Hine.....	" " " " " " " "	2919	85 00
	F. L. Landacre.....	" " " " " " " "	2920	85 00
	W. O. Thompson.....	" " " " " " " "	2921	416 67
	Alexis Cope.....	" " " " " " " "	2922	187 50
	Carl E. Steeb.....	" " " " " " " "	2923	60 00
	E. D. Cockins.....	" " " " " " " "	2924	58 33
	E. R. Hubler.....	" " " " " " " "	2925	33 33
	K. H. Duncan.....	" " " " " " " "	2926	54 17
	W. C. McCracken.....	" " " " " " " "	2927	150 00
	C. W. Low.....	" " " " " " " "	2928	54 17
	W. A. Standley.....	" " " " " " " "	2929	50 00
	B. LeBay.....	" " " " " " " "	2930	50 00
	T. Boude.....	" " " " " " " "	2931	45 00
	W. H. Case.....	" " " " " " " "	2932	45 00
	Marion Peck.....	" " " " " " " "	2933	40 00
	G. R. Rose.....	" " " " " " " "	2934	65 00
	Jos. Garrettsen.....	" " " " " " " "	2935	37 39
	B. Irwin.....	" " " " " " " "	2936	45 00
	J. C. Perry.....	" " " " " " " "	2937	12 50
	G. A. Goodspeed.....	" " " " " " " "	2938	40 00
	R. E. McIntosh.....	" " " " " " " "	2939	12 50
	D. D. Geren.....	" " " " " " " "	2940	40 00
	T. E. Osborn.....	" " " " " " " "	2941	40 00
	Wm. Whitestine.....	" " " " " " " "	2942	40 00
	G. C. Denney.....	" " " " " " " "	2943	40 00
	E. G. Bailey.....	" " " " " " " "	2944	15 00
	A. G. McCall.....	" " " " " " " "	2945	27 00
	M. N. Cook.....	" " " " " " " "	2946	40 00
	W. Conklin.....	" " " " " " " "	2947	40 00
	H. Chantler.....	" " " " " " " "	2948	40 00
	A. Chantler.....	" " " " " " " "	2949	45 00
	Earl Conway.....	" " " " " " " "	2950	20 00
	J. Kelley.....	" " " " " " " "	2951	25 00
	W. C. Weir.....	" " " " " " " "	2952	20 00
	W. Townsel.....	" " " " " " " "	2953	25 00
	J. H. Brown.....	" " " " " " " "	2954	15 00
	J. H. Brown.....	" " " " " " " "	2955	25 00
June 16	W. C. Weir.....	Salary June 1900.....	2956	20 00
April 28	W. E. Mann.....	Salary, April, 1900....	2957	25 00
	C. H. Woodruff.....	" " " " " " " "	2958	65 00
20	A. Douglas, Admr.....	Settlement Kendrick case	2959	4,000 00
	N. W. Evans.....	Settlement Evans case..	2960	753 04
	C. F. Galloway, clerk...	Costs in Evans case.....	2961	246 96
23	Lily Weeks.....	Salary.....	2962	5 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
April 23	Nitschke Bros.....	Letter heads.....	2963	\$3 00
26	R. M. Rownd.....	Stamps.....	2964	16 00
27	Mrs. M. J. Kellenberger	Salary.....	2965	25 00
May 1	Lily Weeks.....	Janitress.....	2966	5 00
	L. B. Wing.....	Expense as trustee.....	2967	6 00
	R. M. Rownd.....	Postage deposit.....	2968	10 00
4	Chicago Lab. S. S. Co.	Instruments and supplies	2969	215 55
2	L. C. Ferrell.....	Public documents.....	2970	240 00
3	Bausch & Lomb Co.....	Condenser.....	2971	1 09
	Crosby Steam Gauge Co.	Valve and springs.....	2972	8 58
	Eimer & Amend.....	Chemicals.....	2973	9 23
	G. E. Stechert.....	Books.....	2974	78 61
	Maher & Grosh Cut. Co.	Cutlery.....	2975	6 46
	Emil Greiner.....	Apparatus and tubes.....	2976	15 20
	E. H. Sargent & Co.....	Supplies.....	2977	32 85
	J. Carbutt.....	Photo supplies.....	2978	1 48
	Gen. Electric Co.....	Electrical appliances.....	2979	10 10
	Albaugh Nursery Co.....	Trees.....	2980	19 00
	Open Court Pub. Co.....	Portraits, etc.....	2981	12 00
	G. B. Carpenter Co.....	Tents.....	2982	211 99
	Boston Book Co.....	Books.....	2983	97 31
	W. H. Anderson & Co..	Digests.....	2984	139 75
	Am. Inst. Elec. Eng....	Subscription.....	2985	5 00
	Am. Pharm. Assn.....	Proceedings vol. 47.....	2986	5 50
	Am. Jour. of Physiology	Volume 15.....	2987	5 00
	Library Bureau.....	Library supplies.....	2988	16 57
	N. Y. Botanical Garden.	Journals, etc.....	2989	5 25
	H. E. Hooper.....	Century atlas.....	2990	11 50
	Burrows Bros. Co.....	Books.....	2991	184 67
	E. A. Kinsey Co.....	Slide.....	2992	3 00
	Thomas Mehan & Sons.	Trees.....	2993	109 95
	DeLaval Sep. Co.....	Points and belts.....	2994	4 50
	Creamery Package Co..	Dairy supplies.....	2995	45 87
	Cornish, Curtis & G. Co.	Cheese molds.....	2996	5 00
	Wellington Box Co.....	Boxes.....	2997	4 00
	D. H. Burrell & Co.....	Nut for Hood gang pr'ss	2998	2 00
	Keuffel & Esser Co.....	Mining target.....	2999	72 00
	Wm. Gartner & Co.....	Spherometer, etc.....	3000	22 00
	Queen & Co.....	Bridge and tubes.....	3001	124 05
	Babcock & Wilcox Co..	Boiler tubes.....	3002	34 10
	D. C. Heath & Co.....	Books.....	3003	1 34
	J. G. Biddle.....	Instruments.....	3004	25 58
	Fidelity Int. Agency....	Miner's safety lamp.....	3005	4 40
	T. A. Randall & Co.....	Vitrified paving brick...	3006	1 00
	Christy Fire Clay Co..	Clay.....	3007	4 63
	U. S. Encaustic Tile Co.	Tiles.....	3008	13 79
	G. W. Carman.....	Membership N. C. A. C.	3009	3 00
	F. H. Newell.....	Lecture.....	3010	15 00
	India Alkali Works.....	Savogran and oil soap..	3011	26 27
	C. W. Pomeroy.....	Stationery.....	3012	3 50
	Jos. E. Wing.....	Lecture expenses.....	3013	4 40
	Wilbert Morelan.....	Carpentry.....	3014	4 25
	Honline & West.....	Books.....	3015	36 30
	J. H. Randall.....	Carpentry.....	3016	46 00
	W. L. Redrow.....	Lab. assistance.....	3017	2 25
	O. S. Marckworth.....	Laboratory work.....	3018	21 40
	H. C. Price.....	Department supplies.....	3019	7 50
	F. C. Clark.....	Drawing materials.....	3020	1 75
	S. W. Young.....	Library work.....	3021	9 65
	C. H. Woodruff.....	Piece iron.....	3022	15
	Mabel Huddleson.....	Library work.....	3023	10 50

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900 May 3	Christ Trappe.....	One bay horse.....	3024	\$100 00
	J. W. Shaw.....	Work in law library....	3025	9 70
	Mason Snow.....	Work in law library....	3026	9 90
	Thos. A. Panter.....	Janitor.....	3027	10 58
	J. G. Sterling.....	Student labor.....	3028	1 31
	O. I. Dick.....	".....	3029	2 93
	F. W. Arnold.....	Assistance.....	3030	8 55
	T. V. Stires.....	Work on campus.....	3031	1 75
	L. P. McAllister.....	".....	3032	1 25
	A. E. Day.....	Student labor.....	3033	1 25
	Morris Bugby.....	Work on campus.....	3034	2 18
	Blain Galloway.....	".....	3035	7 18
	J. C. Perry.....	".....	3036	18 10
	John Frank.....	".....	3037	4 59
	Edith Seymour.....	Piano, gym.....	3038	5 50
	Helen Potts.....	".....	3039	11 25
	E. G. Bailey.....	Department labor.....	3040	8 20
	F. J. Hale.....	".....	3041	7 85
	M. L. Seymour.....	Clerical work.....	3042	3 00
	H. C. Nidy.....	Blue printing.....	3043	30
	E. A. Hitchcock.....	Cash advanced.....	3044	31 50
	Richard Spencer.....	Wheeling coal.....	3045	7 50
	Edward Orton, Jr.....	Cash advanced.....	3046	36 75
	G. W. Schubert.....	Guide.....	3047	2 38
	F. C. Long.....	".....	3048	4 75
	E. L. Orndorf.....	".....	3049	4 50
	Roy Thompson.....	".....	3050	3 63
	Arthur Geren.....	Instruments.....	3051	9 09
	F. C. McKinney.....	Guide.....	3052	3 89
	Tallmadge Hdw. Co.....	Hardware.....	3053	21 40
	McClelland & Co.....	Office supplies.....	3054	5 80
	Schoedinger, Frn & Co.....	Hardware.....	3055	67 49
	Col. Supply Co.....	Supplies.....	3056	50 42
	Blackwood, Green & Co.....	Pipe and hardware.....	3057	10 61
	Col. M. & M. Supply Co.....	Valves, etc.....	3058	54 78
	Kelton & Converse.....	Lumber.....	3059	21 57
	Hann & Adair.....	Envelopes, etc.....	3060	13 10
	Domestic Laundry.....	Washing towels.....	3061	22 72
	H. Braun Sons & Co.....	Supplies.....	3062	13 23
	Troy Laundry Co.....	Washing curtains.....	3063	70
	Standard Oil Co.....	Renown engine oil.....	3064	9 45
	Tracy-Wells Co.....	Sundries.....	3065	27 90
	Hester Getz.....	Cardboard.....	3066	1 75
	Eva Tipton.....	Stenographic work.....	3067	2 80
	Osborn, Will's. & Horn.....	Coal.....	3068	32 72
	J. P. Carlisle.....	Plaster.....	3069	2 50
	Ohio State Journal Co.....	Advertisement.....	3070	13 12
	Spahr & Glenn.....	Printing.....	3071	6 50
	Hanna Paint Mfg. Co.....	White lead.....	3072	11 05
	Haydenville M. & M. Co.....	Fire clay.....	3073	5 63
	F. O. Schoedinger.....	Can and faucet.....	3074	2 50
	Borger Bros.....	Cylinder.....	3075	4 50
	B. D. Potts.....	Pipe.....	3076	2 90
	Columbus Gas Co.....	Coke.....	3077	12 69
	Wm. Burdell, Jr.....	Hobbles, etc.....	3078	5 75
	E. C. Livenspire.....	".....	3079	1 20
	Col. Wire & Iron Wks.....	Partitions, etc.....	3080	15 00
	M. P. Streett.....	Brickwork.....	3081	500 00
	Brust & Bauch.....	Masonry.....	3082	85 00
	B. G. Kalb.....	Stenographic work.....	3083	3 00
	Blanche DeLong.....	".....	3084	1 87

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
May 2	Smith Bros. Hdw. Co..	Emery, etc.....	3085	\$1 30
	F. J. Heer.....	Electros of map.....	3086	2 00
	G. Drobisch.....	Shrubs.....	3087	2 50
	Hall-Collins Hdw. Co..	LePages glue.....	3088	2 00
	I. H. Miller.....	Notarial work.....	3089	4 00
	James Penn.....	Hauling.....	3090	3 45
	Seraphim B. B. Co....	Binding.....	3091	37 85
	Val Loewer.....	Range.....	3092	36 00
	The H. Cole Co.....	Drawing materials.....	3093	3 20
	Payne-McD. Hdw. Co..	Glass.....	3094	3 25
	Livingston Seed Co....	Seeds.....	3095	1 60
	Erner & Hopkins.....	Wire.....	3096	1 65
	J. S. Abbott & Co....	Hardware.....	3097	1 40
	Robert A. McClure....	Table and lumber.....	3098	49 22
	Champlin Printing Co..	Printing.....	3099	75 25
	Hager & Graves.....	Groceries.....	3100	32 97
	The Alpha Dairy Co....	Milk tickets.....	3101	1 10
	Busy Bee C. K. Co....	Supplies.....	3102	1 40
	Kimball & Mathews....	".....	3103	6 55
	Kauffman-Lattimer Co..	Drugs and sundries.....	3104	350 85
	P. Hayden Sad. Hd. Co.	Iron.....	3105	9 35
	Engelke & Bigelow....	Freight and cartage.....	3106	72 35
	Columbus Gas Co.....	April gas.....	3107	169 80
	Engelke & Bigelow....	Freight, etc.....	3108	27 20
	H. J. McTeague.....	Est. astron'rs. residence.	3109	465 85
	C. H. Davis.....	Two machines.....	3110	70 00
	R. M. Rownd, P. M....	Postage stamps.....	3111	15 00
	John T. Mack.....	Expenses as trustee.....	3112	42 25
	Lily Weeks.....	Janitress.....	3113	5 00
	Bucher Engraving Co..	Half tone work.....	3114	31 25
	Bucher Engraving Co..	".....	3115	3 00
	J. McLain Smith.....	Trustee expenses.....	3116	22 90
	R. M. Rownd, P. M....	Deposit, pound postage	3117	10 00
	F. J. Tyler.....	Salary for April.....	3118	25 00
	Helen Powell.....	Clerical work.....	3119	2 00
	E. E. Nobles.....	Drafting.....	3120	12 50
	W. Townsel.....	Salary, May, 1900.....	3121	25 00
	W. C. Weir.....	".....	3122	20 00
	C. H. Woodruff.....	".....	3123	65 00
	W. E. Mann.....	".....	3124	25 00
	Earl Conway.....	Salary, June, 1900.....	3125	20 00
	James Kelley.....	Salary, May, 1900.....	3126	25 00
	Earl Conway.....	".....	3127	20 00
	A. Chantler.....	".....	3128	45 00
	H. Chantler.....	".....	3129	40 00
	M. N. Cook.....	".....	3130	40 00
	A. G. McCall.....	".....	3131	27 00
	E. G. Bailey.....	".....	3132	15 00
	G. C. Denny.....	".....	3133	40 00
	William Whitestine...	".....	3134	40 00
	J. H. Brown.....	".....	3135	15 00
	J. H. Brown.....	".....	3136	25 00
	T. E. Osborn.....	".....	3737	40 00
	D. D. Geren.....	".....	3138	40 00
	R. E. McIntosh.....	".....	3139	12 50
	G. A. Goodspeed.....	".....	3140	40 00
	J. C. Perry.....	".....	3141	12 50
	Benj. Irwin.....	".....	3142	45 00
	J. R. Garrettson.....	".....	3143	37 39
	Geo. R. Rose.....	".....	3144	65 00
	Marion Peck.....	".....	3145	40 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
May 26	W. H. Case.....	Salary, May, 1900.....	3146	\$45 00
	T. M. Boude.....	" " " ".....	3147	45 00
	Benj. LeBay.....	" " " ".....	3148	50 00
	W. A. Standley.....	" " " ".....	3149	50 00
	Chas. M. Low.....	" " " ".....	3150	54 17
	W. C. McCracken.....	" " " ".....	3151	150 00
	K. H. Duncan.....	" " " ".....	3152	54 17
	E. R. Hubler.....	" " " ".....	3153	33 33
22	E. D. Cockins.....	" " " ".....	3154	58 33
	Carl E. Steeb.....	" " " ".....	3155	60 00
	Alexis Cope.....	" " " ".....	3156	187 50
26	W. O. Thompson.....	" " " ".....	3157	416 67
	F. L. Landacre.....	" " " ".....	3158	85 00
	J. S. Hine.....	" " " ".....	3159	85 00
	Herbert Osborn.....	" " " ".....	3160	225 00
	O. V. Brumley.....	" " " ".....	3161	50 00
	C. B. Frederick.....	" " " ".....	3162	70 00
	W. F. Lavery.....	" " " ".....	3163	70 00
	D. S. White.....	" " " ".....	3164	160 00
	Chas. F. Dowd.....	" " " ".....	3165	20 00
	C. A. Bruce.....	" " " ".....	3166	100 00
	B. L. Bowen.....	" " " ".....	3167	225 00
	J. B. Parker.....	" " " ".....	3168	30 00
	H. C. Allen.....	" " " ".....	3169	115 00
	G. H. McKnight.....	" " " ".....	3170	90 00
	W. L. Graves.....	" " " ".....	3171	100 00
	J. V. Denney.....	" " " ".....	3172	225 00
	H. W. Brown.....	" " " ".....	3173	25 00
	F. E. Kester.....	" " " ".....	3174	80 00
	J. E. Boyd.....	" " " ".....	3175	120 00
	B. F. Thomas.....	" " " ".....	3176	225 00
	D. C. Huddleson.....	" " " ".....	3177	50 00
	S. E. Canfield.....	" " " ".....	3178	75 00
	C. P. Linhart.....	" " " ".....	3179	160 00
	F. M. Hamilton.....	" " " ".....	3180	80 00
	W. H. Scott.....	" " " ".....	3181	225 00
	N. P. Oglesby.....	" " " ".....	3182	40 00
	E. E. Harrold.....	" " " ".....	3183	90 00
	W. A. Landacre.....	" " " ".....	3184	70 00
	G. B. Kauffman.....	" " " ".....	3185	200 00
	E. E. Somermeier.....	" " " ".....	3186	70 00
	N. W. Lord.....	" " " ".....	3187	200 00
	F. A. Ray.....	" " " ".....	3188	200 00
13	Lily Weeks.....	Janitress.....	3189	5 00
26	A. F. Hall.....	Salary, May, 1900.....	3190	60 00
	C. A. Grate.....	" " " ".....	3191	30 00
	F. J. Hale.....	" " " ".....	3192	30 00
	E. A. Hitchcock.....	" " " ".....	3193	150 00
	Wm. F. Magruder.....	" " " ".....	3194	225 00
	C. L. E. Moore.....	" " " ".....	3195	10 00
	J. W. Young.....	" " " ".....	3196	30 00
	E. L. Ball.....	" " " ".....	3197	30 00
	K. D. Swartzel.....	" " " ".....	3198	100 00
	C. L. Arnold.....	" " " ".....	3199	100 00
	G. W. McCoard.....	" " " ".....	3200	160 00
	R. D. Bohannon.....	" " " ".....	3201	225 00
	C. B. Guittard.....	" " " ".....	3202	55 00
	Lucy Allen.....	" " " ".....	3203	55 00
	Maude Jeffrey.....	" " " ".....	3204	55 00
	Gertrude Kellicott.....	" " " ".....	3205	55 00
	H. N. Townshend.....	" " " ".....	3206	55 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
May 26	O. B. Jones.....	Salary, May, 1900.....	3207	\$135 00
	D. F. Pugh.....	" " " " " " " "	3208	95 00
	E. O. Randall.....	" " " " " " " "	3209	70 00
	W. H. Page.....	" " " " " " " "	3210	140 00
	E. B. Kinkead.....	" " " " " " " "	3211	120 00
	J. S. Shauck.....	" " " " " " " "	3212	17 50
	J. S. Collins.....	" " " " " " " "	3213	20 00
	W. F. Hunter.....	" " " " " " " "	3214	250 00
	J. W. Beach.....	" " " " " " " "	3215	60 00
	S. C. Derby.....	" " " " " " " "	3216	225 00
	A. H. McIntire.....	" " " " " " " "	3217	30 00
	W. H. Renck.....	" " " " " " " "	3218	85 00
	C. P. Crowe.....	" " " " " " " "	3219	80 00
	W. A. Knight.....	" " " " " " " "	3220	100 00
	F. E. Sanborn.....	" " " " " " " "	3221	200 00
	H. C. Price.....	" " " " " " " "	3222	50 00
	W. R. Lazenby.....	" " " " " " " "	3223	225 00
	A. W. Hodgman.....	" " " " " " " "	3224	100 00
	J. R. Smith.....	" " " " " " " "	3225	225 00
	E. H. Moore.....	" " " " " " " "	3226	20 00
	C. W. Mesloh.....	" " " " " " " "	3227	110 00
	E. A. Eggers.....	" " " " " " " "	3228	225 00
	W. C. Mills.....	" " " " " " " "	3229	35 00
	C. S. Prosser.....	" " " " " " " "	3230	150 00
	J. A. Bownocker.....	" " " " " " " "	3231	100 00
	W. H. Siebert.....	" " " " " " " "	3232	135 00
	J. R. Taylor.....	" " " " " " " "	3233	110 00
	A. C. Barrows.....	" " " " " " " "	3234	225 00
	J. P. Covan.....	" " " " " " " "	3235	70 00
	F. A. Fish.....	" " " " " " " "	3236	60 00
	F. C. Caldwell.....	" " " " " " " "	3237	160 00
	J. P. Gordy.....	" " " " " " " "	3238	225 00
	Grace Pitts.....	" " " " " " " "	3239	30 00
	F. C. Clark.....	" " " " " " " "	3240	160 00
	Silas Martin.....	" " " " " " " "	3241	50 00
	J. H. Vosskuehler.....	" " " " " " " "	3242	30 00
	T. K. Lewis.....	" " " " " " " "	3243	60 00
22	T. E. French.....	" " " " " " " "	3244	110 00
26	J. N. Bradford.....	" " " " " " " "	3245	180 00
	C. P. Souther.....	" " " " " " " "	3246	80 00
	Perla G. Bowman.....	" " " " " " " "	3247	140 00
	A. V. Bleininger.....	" " " " " " " "	3248	40 00
	Edw. Orton, Jr.....	" " " " " " " "	3249	180 00
	C. E. Sherman.....	" " " " " " " "	3250	110 00
	C. N. Brown.....	" " " " " " " "	3251	225 00
	J. F. Jeffrey.....	" " " " " " " "	3252	10 00
	H. C. Gore.....	" " " " " " " "	3253	30 00
	D. A. Kohr.....	" " " " " " " "	3254	60 00
	W. E. Henderson.....	" " " " " " " "	3255	100 00
	S. A. Norton.....	" " " " " " " "	3256	120 00
	Wm. McPherson.....	" " " " " " " "	3257	225 00
	F. K. Luke.....	" " " " " " " "	3258	50 00
	Alice Dufour.....	" " " " " " " "	3259	25 00
	S. W. Collett.....	" " " " " " " "	3260	25 00
	J. H. Schaffner.....	" " " " " " " "	3261	100 00
	W. A. Kellerman.....	" " " " " " " "	3262	225 00
	H. C. Lord.....	" " " " " " " "	3263	160 00
	M. Dresbach.....	" " " " " " " "	3264	30 00
	C. B. Morrey.....	" " " " " " " "	3265	100 00
	A. M. Bleile.....	" " " " " " " "	3266	225 00
	J. B. Sanborn.....	" " " " " " " "	3267	70 00

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
May 26	G. W. Knight.....	Salary, May, 1900.....	3268	\$250 00
	A. E. Vinson.....	" "	3269	80 00
	H. A. Weber.....	" "	3270	225 00
	Frank Ruhlén	" "	3271	60 00
	J. W. Decker.....	" "	3272	140 00
	Wm. D. Gibbs.....	" "	3273	160 00
	T. F. Hunt.....	" "	3274	250 00
	W. Conklin	" "	3275	40 00
	F. J. Tyler.....	" "	3276	25 00
21	N. P. Oglesby.....	Return fees	3277	6 00
	R. M. Rownd, P. M....	Pound postage deposit.	3278	10 00
	Lily Weeks	Janitress	3279	5 00
	U. S. Mort & Trust Co.	6 mo. int. on \$100,000 4½% bonds, due June 1st, 1900	3280	2,250 00
June 1	Hayden-Clinton Nat. Bk.	6 mo. int. on \$170,000 4½% bonds, due June 1, 1900	3281	3,825 00
	Hayden-Clinton Nat. Bk.	6 mo. int. on \$60,000 6% bonds, due June 1, 1900	3282	1,800 00
	Hayden-Clinton Nat. Bk.	Redpn. of \$10,000 cert's. No. 51-60, due June 1 1900	3283	10,000 00
May 23	B. S. Stephenson.....	Quartermaster service ..	3284	5 00
	Rollo S. Frame.....	Return fees.....	3285	15 00
28	U. S. Mort. & Trust Co.	Exchange on order 3280	3286	2 25
	Lily Weeks	Salary, one week	3287	4 00
	R. M. Rownd, P. M....	Pound postage	3288	10 00
June 1	R. M. Rownd.....	Stamps	3289	35 00
	M. J. Kellenberger.....	Services dom. economy.	3290	20 00
	Lily Weeks	Janitress	3291	3 00
	Nathaniel Reel.....	Guide	3292	2 07
4	R. M. Rownd, P. M....	Postal cards, etc.....	3293	15 00
	G. H. McKnight.....	Salary, June, 1900.....	3294	90 00
16	T. F. Hunt.....	" "	3295	250 00
	W. D. Gibbs.....	" "	3296	160 00
	J. W. Decker.....	" "	3297	140 00
	Frank Ruhlén	" "	3298	60 00
	H. A. Weber.....	" "	3299	225 00
	A. E. Vinson.....	" "	3300	80 00
	G. W. Knight.....	" "	3301	250 00
5	J. B. Sanborn.....	" "	3302	70 00
16	A. M. Bleile.....	" "	3303	225 00
	C. B. Morrey.....	" "	3304	100 00
	M. Dresbach	" "	3305	30 00
	H. C. Lord.....	" "	3306	160 00
	W. A. Kellerman.....	" "	3307	225 00
	J. H. Schaffner.....	" "	3308	100 00
	S. W. Collett.....	" "	3309	25 00
	Alice Dufour.....	" "	3310	25 00
	W. McPherson	" "	3311	225 00
	S. A. Norton.....	" "	3312	120 00
	W. E. Henderson.....	" "	3313	100 00
	D. A. Kohr.....	" "	3314	60 00
	H. C. Gore.....	" "	3315	30 00
	J. F. Jeffrey.....	" "	3316	10 00
	C. N. Brown.....	" "	3317	225 00
	C. E. Sherman.....	" "	3318	110 00
	Edw. Orton, Jr.....	" "	3319	180 00
	A. V. Bleining.....	" "	3320	40 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
June 16	P. G. Bowman.....	Salary, June, 1900.....	3321	\$140 00
	P. G. Souther.....	" ".....	3322	80 00
	J. N. Bradford.....	" ".....	3323	180 00
	T. E. French.....	" ".....	3324	110 00
	T. K. Lewis.....	" ".....	3325	60 00
9	J. H. Vosskuehler.....	" ".....	3326	30 00
	S. Martin.....	" ".....	3327	50 00
7	F. C. Clark.....	" ".....	3328	160 00
16	Grace Pitts.....	" ".....	3329	30 00
	J. P. Gordy.....	" ".....	3330	225 00
	F. C. Caldwell.....	" ".....	3331	160 00
	F. A. Fish.....	" ".....	3332	60 00
	J. P. Covan.....	" ".....	3333	70 00
13	A. C. Barrows.....	" ".....	3334	225 00
16	J. R. Taylor.....	" ".....	3335	110 00
	W. H. Siebert.....	" ".....	3336	135 00
14	J. A. Bownocker.....	" ".....	3337	100 00
16	C. S. Prosser.....	" ".....	3338	150 00
13	W. C. Mills.....	" ".....	3339	35 00
11	E. A. Eggers.....	" ".....	3340	225 00
14	E. H. Moore.....	" ".....	3341	20 00
16	C. W. Mesloh.....	" ".....	3342	110 00
	J. R. Smith.....	" ".....	3343	225 00
5	A. W. Hodgman.....	" ".....	3344	110 00
16	W. R. Lazenby.....	" ".....	3345	225 00
	H. C. Price.....	" ".....	3346	50 00
	F. E. Sanborn.....	" ".....	3347	200 00
	W. A. Knight.....	" ".....	3348	100 00
	C. P. Crowe.....	" ".....	3349	80 00
	W. H. Renck.....	" ".....	3350	85 00
9	A. H. McIntire.....	" ".....	3351	30 00
16	S. C. Derby.....	" ".....	3352	225 00
	J. W. Beach.....	" ".....	3353	60 00
13	W. F. Hunter.....	" ".....	3354	250 00
16	J. H. Collins.....	" ".....	3355	20 00
	J. H. Shauck.....	" ".....	3356	17 50
	E. B. Kinkead.....	" ".....	3357	120 00
	W. H. Page.....	" ".....	3358	140 00
	E. O. Randall.....	" ".....	3359	70 00
	D. F. Pugh.....	" ".....	3360	95 00
8	O. B. Jones.....	" ".....	3361	135 00
16	H. N. Townshend.....	" ".....	3362	55 00
	G. Kellicott.....	" ".....	3363	55 00
	Maude Jeffrey.....	" ".....	3364	55 00
9	Lucy Allen.....	" ".....	3365	55 00
16	C. B. Guittard.....	" ".....	3366	55 00
14	R. D. Bohannon.....	" ".....	3367	225 00
16	G. W. McCoard.....	" ".....	3368	160 00
	C. L. Arnold.....	" ".....	3369	100 00
	K. D. Swartzel.....	" ".....	3370	100 00
11	Emma Ball.....	" ".....	3371	30 00
16	J. W. Young.....	" ".....	3372	30 00
	C. L. E. Moore.....	" ".....	3373	10 00
	W. T. Magruder.....	" ".....	3374	225 00
13	E. A. Hitchcock.....	" ".....	3375	150 00
16	F. J. Hale.....	" ".....	3376	30 00
	Chas. A. Grate.....	" ".....	3377	30 00
	A. F. Hall.....	" ".....	3378	60 00
14	F. A. Ray.....	" ".....	3379	200 00
16	N. W. Lord.....	" ".....	3380	200 00
14	E. E. Somermeier.....	" ".....	3381	70 00

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
June 16	G. B. Kauffman.....	Salary, June, 1900.....	3382	\$200 00
	W. A. Landacre.....	" " " " " " " "	3383	70 00
	E. E. Harrold.....	" " " " " " " "	3384	90 00
	N. P. Oglesby.....	" " " " " " " "	3385	40 00
	W. H. Scott.....	" " " " " " " "	3386	225 00
	F. M. Hamilton.....	" " " " " " " "	3387	80 00
	C. P. Linhart.....	" " " " " " " "	3388	160 00
	S. E. Canfield.....	" " " " " " " "	3389	75 00
	D. C. Huddleson.....	" " " " " " " "	3390	50 00
14	B. F. Thomas.....	" " " " " " " "	3391	225 00
16	J. E. Boyd.....	" " " " " " " "	3392	120 00
8	F. E. Kester.....	" " " " " " " "	3393	80 00
16	W. L. Graves.....	" " " " " " " "	3394	100 00
9	H. C. Allen.....	" " " " " " " "	3395	115 00
	J. B. Parker.....	" " " " " " " "	3396	30 00
5	H. W. Brown.....	" " " " " " " "	3397	25 00
14	J. V. Denney.....	" " " " " " " "	3398	225 00
	B. L. Bowen.....	" " " " " " " "	3399	225 00
16	C. A. Bruce.....	" " " " " " " "	3400	100 00
14	C. F. Dowd.....	" " " " " " " "	3401	20 00
16	D. S. White.....	" " " " " " " "	3402	160 00
14	W. F. Lavery.....	" " " " " " " "	3403	70 00
9	C. B. Frederick.....	" " " " " " " "	3404	70 00
14	O. V. Brumley.....	" " " " " " " "	3405	50 00
16	H. Osborn.....	" " " " " " " "	3406	225 00
9	J. S. Hine.....	" " " " " " " "	3407	85 00
13	F. L. Landacre.....	" " " " " " " "	3408	85 00
6	H. R. Marietta.....	Incidental fee.....	3409	15 00
	C. W. Schubert.....	Guide service.....	3410	6 88
	J. H. Randall.....	Carpentry work.....	3411	38 25
	W. Morlan.....	" " " " " " " "	3412	10 51
	J. C. Perry.....	Campus work.....	3413	14 40
	F. J. Pavlieck.....	Guide service.....	3414	5 50
	Arthur Geren.....	Drawing supplies.....	3415	4 68
9	H. J. Hammond.....	Department supplies.....	3416	1 32
6	W. C. Smith.....	Addressing envelopes.....	3417	1 65
	E. L. Orndorff.....	Guide services.....	3418	5 50
	H. L. Dowd.....	Addressing envelopes.....	3419	1 66
	C. E. Schumacher.....	Typewriting.....	3420	6 20
	S. E. Canfield.....	Department supplies.....	3421	2 55
	T. Rickey.....	Department labor.....	3422	10 00
	E. Seymour.....	Accompanying piano.....	3423	3 50
	H. Potts.....	Accompanying classes.....	3424	4 50
	M. Dresbach.....	Department supplies.....	3425	6 93
	F. C. Clark.....	" " " " " " " "	3426	1 05
	W. C. McCracken.....	Money advanced.....	3427	2 60
	C. L. Sackett, Mgr.....	Adv. in Lantern.....	3428	58 34
	C. P. Souther.....	Department supplies.....	3429	3 00
	F. R. Kunkle.....	Labor.....	3430	15 15
	B. B. Wells.....	" " " " " " " "	3431	5 35
	O. I. Dick.....	" " " " " " " "	3432	4 50
	F. W. Arnold.....	" " " " " " " "	3433	11 25
	T. A. Panter.....	" " " " " " " "	3434	11 48
	C. P. Linville.....	Lab. assistance.....	3435	6 60
	W. McPherson.....	Department supplies.....	3436	1 96
	W. L. Redrow.....	Labor.....	3437	2 25
	Laura Hill.....	Clerical labor.....	3438	13 00
	Chas. R. Hall.....	Extra labor.....	3439	63
	E. G. Bailey.....	Labor on boilers.....	3440	13 13
	E. A. Hitchcock.....	Incidentals.....	3441	2 77
	J. A. Beer.....	Lab. assistance.....	3442	6 30

STATEMENT II — Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
June 6	C. B. Frederick.....	Dept. supplies.....	3445	\$39 25
	M. L. Seymour.....	Stenographic work	3443	7 35
	E. E. Nobles.....	Drafting	3444	1 75
	T. E. Osborne.....	Cleanine guns	3446	3 50
	T. E. French.....	Filling out commissions	3447	3 45
	G. Bruder	Band instruction	3448	68 00
	R. W. Funk.....	Labor in store room.....	3449	37 87
	A. V. Bleiningner.....	Expenses	3450	4 70
	C. Albin	Guide service	3451	75
	R. F. Abbott.....	Band service	3452	15 00
	O. P. Cockerill.....	Expenses orat. contest.....	3453	21 00
	J. A. Bownocker.....	Exp. to high school.....	3454	12 05
	W. O. Thompson.....	Expenses legislature	3455	5 25
	F. C. Long.....	Guide service	3456	10 63
	K. H. Duncan.....	Street car tickets.....	3457	5 00
	F. C. McKinney.....	Guide service	3458	5 14
	R. Thompson	" "	3459	8 00
	Helen Powell	Clerical service.....	3460	1 28
	M. Matthews	Guide service.....	3461	50
	J. E. Loughrey.....	Guide service	3462	63
	M. Bugby	Guide and campus work.....	3463	4 20
	J. Frank.....	Guide service	3464	1 07
	J. F. Clevinger.....	Campus work	3465	1 82
	J. Frank	" "	3466	4 75
	F. E. Fleischer.....	" "	3467	20 62
	M. Snow	Work in library.....	3468	12 62
	M. Huddleson.....	"	3469	13 00
	J. W. Shaw.....	Work in law library.....	3470	12 00
	S. N. Young.....	" "	3471	11 85
	Monline & West.....	Books	3472	9 47
16	Kauffman-Lattimer Co.....	Drugs and sundries.....	3473	294 33
8	H. J. McTeague.....	Estimate No. 3 as res.....	3474	1,263 21
16	F. A. Stallman.....	Trunk hardware	3475	6 36
	Payne-McD. Hdw. Co.....	Hardware	3476	32 10
	New Col. Bridge Co.....	Beams and stirrups.....	3477	11 21
	Kimball & Matthews.....	Drawing supplies	3478	13 50
	Col. Plate & W. Glass.....	Glass	3479	9 40
	W. H. Miller Co.....	Valve	3480	5 40
	Schilling Foundry Co.....	Castings	3481	1 59
	H. Cole Co.....	Tracing cloth	3482	6 46
	H. Goldsmith	Music	3483	17 80
	Wm. Burdell, Jr.....	Top dressing	3484	2 50
	Perry Smythe	Framing	3485	2 25
	Warren Southw'k C. Co.....	Repairing	3486	55 00
	Columbus Buggy Co.....	Hickory kindling	3487	2 00
8	B. S. Stephenson.....	Quartermaster service.....	3488	10 00
	J. W. Smith.....	Course lec'res met'r'l'gy.....	3489	100 00
	Columbus Gas Co.....	May gas bill	3490	149 85
16	Bucher Eng. Co.....	Blocking cuts	3491	30
11	Eldridge & Higgins Co.....	Mason jars	3492	2 59
16	Columbus Gas Co.....	Coke	3493	13 74
	Penna. Fuel Co.....	Coal	3494	8 25
	Engelke & Bigelow.....	Hauling to dumps.....	3495	30 00
	Miller Furn. Co.....	Leather couch	3496	35 00
	Col. Lithograph Co.....	Bond engraving	3497	35 00
	F. E. Callans.....	Work in law library.....	3498	2 40
	Orvis & Marshall.....	Office supplies	3499	2 00
	Western U. Tel. Co.....	Telegrams	3500	6 46
	Postal Tel. & Cable Co.....	"	3501	44
	Columbus Bank Note Co.....	Diplomas	3502	98 00
	Hofman Supply Co.....	Engraving	3503	1 86

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
June 16	Jones Nat. Fence Co...	Repairing fence.....	3508	\$76 61
	Harrington & Non'm'ch'r	Cleaning nilometer	3504	1 50
	McAuley Sellars Co....	Curtains	3505	6 50
	Kinnear Gager Co....	Steel ceiling	3506	80 00
	Col. Wire & Iron Wks..	Grills	3507	12 00
14	J. Ferrell	Granite bowl	3509	36 00
16	Seraphim B. Book Co..	Binding	3510	33 95
9	Alexis Cope	Salary, June, 1900.....	3511	187 50
16	McAllister Mohler Co..	Book case.....	3512	13 50
	F. J. Heer	Printing bulletins	3513	680 00
	Hall-Collins Hdw. Co..	Hardware	3514	3 33
	Borger Bros. & Co.....	Grate bars	3515	13 35
	Andrews & Knight....	Lubricator	3516	3 08
	Wolfram Guitar Co....	Piano rent	3517	31 25
	Domestic Laundry	Towel washing	3518	23 92
	Beck & Orr	Mounting maps	3519	1 50
	Rich. Munk & Co.....	Supplies	3520	27 36
	W. H. Miller Co.....	Gate valves	3521	12 10
	W. W. Semple.....	Economizer	3522	10 50
	M. P. Streett.....	Balance on brick work..	3523	150 00
	E. Doddington & Co....	Lumber	3524	17 40
	Murray City Coal Co..	Coal	3525	978 80
	Schoedinger, Frn & Co.	Glass	3526	2 52
	Kelton & Converse....	Lumber	3527	36 77
	Standard Oil Co.....	Oil	3528	31 26
	Hann & Adair.....	Printing	3529	46 70
	R. A. McClure.....	Lumber and mill work..	3530	18 65
	McClelland & Co.....	Supplies	3531	2 40
	Dunn, Taft & Co.....	Dry goods	3532	14 83
	M. C. Lilley & Co.....	Flags, medals, etc.....	3533	123 75
	Engelke & Bigelow....	Freight and cartage....	3534	46 18
	Central Ohio Paper Co.	Paper	3535	22 03
	Capital City Mach. Wks.	Waste, shafting, etc....	3536	13 28
	Palmer & Beck.....	Boxes	3537	67 00
	Blackwood, Green & Co.	Tin, etc.....	3538	5 38
	Z. L. White Co.....	Velveteen	3539	1 88
	J. Penn	Drayage	3540	5 38
	Tallmadge Hard. Co....	Hardware	3541	24 45
	Columbus Supply Co..	Supplies	3542	166 99
	Nitschke Bros	Printing	3543	370 05
	Champlin Printing Co..	Printing bulletins	3544	478 20
	Spahr & Glenn.....	"	3545	21 75
	Osborne, Will's. & Horn	Coal	3546	54 70
	J. S. Abbott & Co.....	Hardware	3547	26 88
	Bradford, Rhodes & Co.	History of banking....	3548	6 50
	J. Carbutt	Plates	3549	18 90
	G. E. Stechert.....	Books	3550	142 99
	Burrows Bros. Co.....	"	3551	49 52
	Open Court Pub. Co....	Portraits	3552	18 00
	H. W. Johns Mfg. Co..	Prime	3553	1 60
	Babcock & Wilcox Co..	Boiler installation	3554	53 97
	E. R. Curtiss.....	Set economists.....	3555	4 00
	Storrs & Harrison Co..	Roses	3556	7 21
	D. W. McGlenen.....	List high school names..	3557	10 00
	Egyptian Lacquer M. Co.	Lacquer	3558	1 38
	F. H. Smith.....	Leafillers	3559	3 50
	Crescent Steel Co.....	Steel	3560	25 61
	Lewis & Wiltsee.....	Advertising	3561	10 00
	Chicago Blue Pr. P. Co.	Blue print paper.....	3562	16 96
	American Aristotype Co.	Paper	3563	14 55
	J. S. Bushnell.....	Repairs	3564	3 90

STATEMENT II—Continued.

Date	To whom paid	For what purpose	No	Amount
1900				
June 16	Chicago Lab. S. & S. Co.	Supplies	3571	\$3 60
	The Lunkenheimer Co..	Valves	3565	14 37
	Crosby St. G. & V. Co..	Pencil lever	3566	3 32
	Gardner Governor Co..	Pump governor	3567	27 00
	A. E. Foote.....	Mineral collection	3568	30 00
	E. H. Sargent.....	Clamps	3569	1 38
	Akron China Co.....	Bisque ware	3570	2 00
	Hausman & Dunn.....	Hauss speculum	3572	9 89
	J. C. Witter Co.....	Plaster casts	3573	15 74
	Storrs & Harrison Co..	Trees, stock, etc.....	3574	10 75
	M. J. Lampe.....	Charcoal	3575	9 00
	Webb Sta. & Ptg. Co..	Supplies	3576	11 70
	Am. Jersey Cattle Club.	Herd register	3577	10 00
	T. Meehan & Son.....	Shrubs	3578	20 40
	American Cotswold Co..	Record	3579	8 00
	Am. Clydesdale Assn...	Stud book	3580	12 00
	Colliery Engineer Co..	Sub. Mines & Minerals	3581	2 50
	W. H. Anderson & Co..	Digest Mich.	2582	18 00
	Lamson & Carpenter...	Linear perspective set...	3583	15 00
	H. B. Richards, Secy...	Herd book	3584	2 00
	Jos. Battell.....	Register	3585	5 00
	Geo. T. King.....	Cooking encyclopedia...	3586	18 50
	Library Bureau.....	Desk and chair	3587	35 00
	Knauth, Nachod Kuehne	Books	3588	8 97
	W. O. Thompson.....	Salary, June, 1900....	3589	416 67
	C. E. Steeb.....	" "	3590	60 00
	E. D. Cickins.....	" "	3591	58 33
	E. R. Hubler.....	" "	3592	33 33
	K. H. Duncan.....	" "	3593	54 17
	W. C. McCracken.....	" "	3594	150 00
	C. M. Low.....	" "	3595	54 17
	W. A. Standley.....	" "	3596	50 00
	Ben. LeBay.....	" "	3597	50 00
	T. M. Boude.....	" "	3598	45 00
	Marion Peck.....	" "	3599	40 00
13	Geo. R. Rose.....	" "	3600	65 00
	J. Garrettson.....	" "	3601	37 39
	Ben. Irwin.....	" "	3602	45 00
	J. C. Ferry.....	" "	3603	12 50
	G. A. Goodspeed.....	" "	3604	40 00
	R. E. McIntosh.....	" "	3605	12 50
	D. D. Geren.....	" "	3606	40 00
	J. H. Brown.....	" "	3607	15 00
	J. H. Brown.....	" "	3608	25 00
	W. Whitestine.....	" "	3609	40 00
11	M. J. Kellenberger.....	Serv. in dom. economy.	3610	10 00
16	G. C. Denny.....	Salary, June, 1900....	3611	40 00
14	E. G. Bailey.....	" "	3612	15 00
16	A. G. McCall.....	" "	3613	27 00
	M. N. Cook.....	" "	3614	40 00
	H. Chantler.....	" "	3615	40 00
	A. Chantler.....	" "	3616	45 00
	J. Kelly.....	" "	3617	25 00
	W. Townsel.....	" "	3618	25 00
	F. J. Tyler.....	" "	3619	25 00
	C. H. Woodruff.....	" "	3620	65 00
14	W. E. Mann.....	" "	3621	25 00
12	T. J. Godfrey.....	Expenses trustee.....	3622	32 50
14	J. G. Sterling, Treas..	Adv. in Makio.....	3623	50 00
	R. M. Rownd, P. M....	Postage deposit	3624	10 90
19	R. J. Seymour.....	33 hours' work com'ent	3633	4 95

STATEMENT II — Concluded.

Date	To whom paid	For what purpose	No	Amount
1900				
June 19	Dr. J. H. Barrows.....	Baccalaureate address...	3634	\$50 00
16	J. McLain Smith.....	Expense trustee	3625	7 55
	J. T. Mack.....	Trustee expenses	3626	13 65
	F. R. Kunkle.....	Student labor	3627	16 95
	T. A. Panter.....	Janitor service	3628	18 00
	O. I. Dick.....	Student labor	3629	14 10
	H. A. Preston.....	Choir service	3630	25 00
19	R. M. Rownd, P. M....	500 2ct postage stamps..	3631	10 00
20	R. M. Downd, P. M....	2000 stamped envelopes..	3632	42 80
21	Central Union Tel. Co.	'Phone rent to June 30..	3635	81 00
22	D. M. Massie.....	Trustee expense.....	3636	32 37
25	C. W. Gayman.....	W. J. Bryan prize.....	3637	15 65
28	R. M. Rownd, P. M....	Postage stamps	3638	10 00
	Total.....			\$308,491 34

In compliance with section 7 of the *Organic Act*, passed by the Legislature of Ohio, May 1, 1878, (Bates' Annotated Ohio Statutes, sec. 4105-41) which requires the list of "the number of professors, officers, teachers and other employes, and the compensation of each, to be annually reported," I submit the following:

Employees	Position	Salary
William Oxley Thompson	President	5,000 00
W. H. Scott	Professor of philosophy	2,250 00
(1) Edward Orton	" geology	600 00
W. R. Lazenby	" horticulture and forestry	2,250 00
Josiah R. Smith	" Greek language & literature	2,250 00
Henry A. Weber	" agricultural chemistry	2,250 00
Benj. F. Thomas	" physics	2,250 00
Geo. W. Knight	" history and political science	2,500 00
R. Daniel Bohannan	" mathematics	2,250 00
Herbert Osborn	" zoology and entomology	2,250 00
Ernst A. Eggers	" German language, literature	2,250 00
C. Newton Brown	" civil engineering	2,250 00
Albert M. Bleile	" anatomy and physiology	2,250 00
Wm. A. Kellerman	" botany	2,250 00
Thos. F. Hunt	" agriculture	2,250 00
Samuel C. Derby	" Latin language, literature	2,250 00
Nathaniel W. Lord	" metallurgy and mineralogy	2,000 00
Frank E. Sanborn	Director of industrial department	2,000 00
Allen C. Barrows	Professor of English literature	2,250 00
Joseph V. Denney	" rhetoric and Eng'sh lang'ge	2,250 00
Benj. L. Bowen	" Romance languages	2,250 00
W. F. Hunter	Dean of the faculty	2,500 00
Geo. B. Kauffman	Professor of pharmacy	2,000 00
J. P. Gordy	" education	2,250 00
Wm. T. Magruder	" mechanical engineering	2,250 00
Edward Orton, Jr.	Director school of ceramics	1,800 00
Frank A. Ray	Associate professor mining engineering	2,000 00
Jos. N. Bradford	Professor of drawing	1,800 00
Wm. McPherson	" chemistry	2,250 00
Geo. W. McCoard	Associate professor mathematics	1,600 00
Sidney A. Norton	Lecturer in general chemistry	1,200 00
F. C. Caldwell	Associate professor electrical engineering	1,500 00
Henry C. Lord	Director observatory	1,600 00
C. E. Sherman	Assistant professor civil engineering	1,100 00
E. A. Hitchcock	Associate professor experim'l engineering	1,500 00
W. D. Gibbs	" agriculture	1,600 00
C. W. Mesloh	" German	1,100 00
David S. White	Professor veterinary medicine	1,600 00
Thos. E. French	Assistant in drawing	1,100 00
F. C. Clark	Associate professor of economics	1,600 00
Olive B. Jones	Librarian	1,350 00
William Henry Renck	Foreman carpenter shop	850 00
William A. Knight	" machine shops	1,000 00
Charles Philip Crowe	" forge room	800 00
J. E. Boyd	Assistant professor physics	1,200 00
Karl D. Swartzel	" mathematics	1,000 00
W. L. Graves	" rhetoric	1,000 00
Jas. S. Hine	Assistant professor of entomology	850 00
A. E. Vinson	" in agricultural chemistry	800 00
Charles B. Morrey	Assistant professor anatomy & physiology	1,000 00
John Wright Decker	Associate professor dairying	980 00
E. E. Somermeier	Assistant in metallurgy and mineralogy	700 00
Arthur W. Hodgman	Associate professor classic languages	1,100 00
Frank Ruhlen	Assistant in agriculture	720 00
J. A. Bownocker	Associate professor geology	1,000 00
W. H. Siebert	" European history	1,350 00

(1) Died October 16, 1899.

STATEMENT III — Continued.

Employes	Position	Salary
C. L. Arnold.....	Assistant professor of mathematics.....	1,000 00
Walter Landacre	" in pharmacy.....	700 00
W. F. Lavery.....	" veterinary medicine.....	700 00
E. E. Harold.....	Storekeeper.....	900 00
C. B. Frederick.....	Assistant professor veterinary medicine...	700 00
Thos. K. Lewis.....	Assistant in drawing.....	600 00
Charles A. Bruce.....	Assistant professor of French.....	1,000 00
F. L. Landacre.....	Assistant in zoology.....	850 00
A. V. Bleininger.....	Assistant in ceramics.....	400 00
William E. Henderson.....	Assistant professor analytical chemistry..	1,000 00
Harriet Townshend.....	Assistant in library.....	550 00
Frederick E. Kester.....	Instructor in physics.....	800 00
J. H. Schaffner.....	Assistant professor botany.....	1,000 00
Charles A. Grate.....	Fellow in mechanical engineering.....	300 00
F. T. Hale.....	" " ".....	300 00
F. A. Fish.....	Assistant in electrical engineering.....	600 00
Donald Alexis Kohr.....	Assistant in chemistry.....	600 00
Herbert Charles Gore.....	Fellow in chemistry.....	300 00
Maud Jeffreys.....	Assistant in library.....	550 00
Gertrude Kellicott.....	" ".....	550 00
G. B. Guittard.....	" ".....	550 00
Lucy Allen.....	" ".....	550 00
F. K. Luke.....	Florist.....	600 00
C. P. Linhart.....	Director physical training.....	1,600 00
Perla G. Bowman.....	Associate professor domestic science.....	1,400 00
Cornelia P. Souther.....	Assistant in domestic science.....	800 00
J. R. Taylor.....	Assistant professor Eng. literature.....	1,100 00
Francis M. Hamilton.....	" in philosophy and pedagogy.....	800 00
Stella Elliott Canfield.....	Associate director physical training.....	750 00
M. Dresbach.....	Fellow in anatomy and physiology.....	300 00
Emma L. Ball.....	" mathematics.....	300 00
John Wesley Young.....	" mathematics.....	300 00
A. H. McIntire.....	" industrial arts.....	300 00
Homer Charles Frice.....	Assistant in horticulture and forestry.....	600 00
W. H. Page.....	Professor of law.....	1,400 00
E. B. Kinkead.....	".....	1,200 00
D. F. Pugh.....	".....	950 00
E. O. Randall.....	".....	700 00
J. H. Collins.....	".....	200 00
John A. Shauck.....	".....	175 00
John B. Sanborn.....	Assistant in American history.....	700 00
Don C. Huddleston.....	" gymnasium.....	500 00
J. H. Vosskuehler.....	" drawing.....	300 00
Delbert A. Crowner.....	Student assistant in butter making.....	100 00
Elisha Smith.....	" " dairying.....	100 00
John B. Parker.....	Fellow in rhetoric.....	300 00
Herbert W. Kennedy.....	Emerson McMillin fellow in astronomy..	300 00
Samuel W. Collett.....	Fellow in botany.....	250 00
Alexis Cope.....	Secretary.....	2,250 00
Carl E. Steeb.....	Accountant.....	720 00
Katharine H. Duncan.....	Executive clerk.....	650 00
Edith D. Cockins.....	Registrar.....	700 00
W. C. McCracken.....	Chief engineer.....	1,800 00
Chas. Low.....	Assistant engineer.....	650 00
Wm. Stanley.....	".....	600 00
Geo. R. Rose.....	Plumber.....	780 00
Benjamin Irwin.....	Watchman.....	540 00
James Kelley.....	Lawnkeeper.....	300 00
Mrs. E. R. Hubler.....	Telephone attendant.....	400 00
Benj. LeBay.....	Steam fitter.....	600 00

STATEMENT III — Concluded.

Employees	Position	Salary
Wash. Townsel	Janitor	300 00
G. A. Goodspeed	"	480 00
Henry Chantler	"	480 00
Arthur Chantler	"	540 00
J. H. Brown	"	480 00
M. N. Cook	"	480 00
D. D. Geren	"	480 00
Wm. Whitestone	"	480 00
G. C. Denny	"	480 00
E. H. Bailey	"	150 00
R. E. McIntosh	"	125 00
Wm. Weir	Elevator attendant	200 00
W. C. Mills	Curator of the archaeological collection.	350 00
A. G. McCall	Janitor	240 00
Thomas Boude	First fireman	450 00
W. E. Case	Second fireman	360 00
Marion Peck	Helper	400 00
Alice Dufour	Fellow in botany	250 00
F. O. Clements	" chemistry	300 00
J. F. Jeffrey	Laboratory assistant in chemistry	100 00
J. W. Groves	Assistant civil engineering	150 00
Wm. Cannan	Ceramic scholarship	200 00
Silas Martin	Assistant in drawing	500 00
W. E. Mann	McMillin fellowship in economics	250 00
Grace Pitts	Fellow in economics	300 00
J. P. Covan	Electrician	770 00
Chas. S. Prosser	Associate professor geology	1,500 00
E. H. Moore	Student assistant in German	200 00
J. W. Beach	Assistant in Latin	300 00
C. L. E. Moore	Student assistant in mathematics	150 00
A. F. Hall	Machinist	720 00
N. P. Oglesby	Assistant storekeeper	360 00
H. W. Brown	Fellow in physics	250 00
G. H. McKnight	Assistant professor of rhetoric	900 00
H. C. Allen	Asst. prof. rhetoric and public speaking	1,150 00
Chas. F. Dowd	Student assistant in French	200 00
O. V. Brumley	Assistant in veterinary medicine	500 00
Joseph Garrettson	Helper to plumber	450 00
J. C. Perry	Janitor	125 00
T. E. Osburn	"	320 00
W. Conklin	"	360 00
Earl Conway	Helper	240 00
C. H. Woodruff	Carpenter	780 00
F. J. Tyler	Gardener	75 00

COLUMBUS, OHIO, September 26, 1900.

To the Board of Trustees of the Ohio State University:

The finance committee, in obedience to your instructions, has examined the accounts and vouchers of L. F. Kiesewetter, treasurer of the university, for the fiscal year ending June 30, 1900, and has carefully compared them with the accounts and vouchers in the hands of the secretary, and hereby certifies that said report is correct.

D. M. MASSIE,
J. McLAIN SMITH,
PAUL JONES,

Finance Committee.

REPORT OF RECEIPTS AND DISBURSEMENTS "NEW MORRILL FUND."

Report of treasurer of Ohio State University to the secretary of agriculture and the secretary of the interior, of amount received under act of congress of August 30, 1890, in aid of colleges of agriculture and the mechanic arts, and of the disbursements thereof, to and including June 30, 1900.

Balance on hand July 1, 1899.....	\$37 31
Date of receipt of installment for 1899-1900, July 7, 1899, Amount....	25,000 00
Total available for year ended June 30, 1900.....	25,037 31
Disbursements thereof for and during the year ended June 30, 1900:	
Agriculture, as per Schedule A.....	4,341 61
Mechanic Arts, as per Schedule B.....	8,178 19
English Language, as per Schedule C.....	1,258 99
Mathematical Science, as per Schedule D.....	2,072 82
Natural or Physical Science, as per Schedule E.....	7,860 40
Economic Science, as per Schedule F.....	1,126 99
Total expended during year.....	24,839 00
Balance remaining unexpended July 1, 1900.....	198 31

I hereby certify that the above account is correct and true, and, together with the schedules hereunto attached, truly represents the details of expenditures for the period and by the institution named, and that said expenditures were applied only to instruction in agriculture, the mechanic arts, the English language, and the various branches of mathematical physical, natural, and economic science, with special reference to their application in the industries of life, and to the facilities for such instruction.

L. F. KIESEWETTER,
Treasurer.

SCHEDULE A.

Disbursements for instruction in Agriculture and for facilities for such instruction, during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
I. For salaries of instructors:		
Thos. F. Hunt, Prof. of Agr....	Agriculture	\$500
W. D. Gibbs, Asso. Professor..	"	320
Jno. W. Decker, Asso. Professor	Dairy Husbandry	140
Frank Ruhlen, Assistant.....	Agriculture	120
Perla G. Bowman, Asso. Prof...	Domestic Science	300
Cornelia Louthier, Assistant...	Domestic Art	80
H. A. Weber, Professor.....	Agricultural Chemistry	450
A. E. Vinson, Assistant.....	"	160
W. R. Lazenby, Professor.....	Horticulture	450
Homer C. Price, Assistant.....	"	50
David S. White, Professor.....	Veterinary Medicine	160
W. F. Lavery, Asst. Professor...	"	70
C. B. Frederick, Assistant.....	"	70
O. V. Brumley, Assistant.....	"	50
J. A. Wallace, Lecturer.....	Agriculture	5
II. For facilities, as follows:		
Text-books and reference books.....		\$69 28
Department of Agriculture.		
Seeds, \$46.70; tools and hardware, \$54.92; husking, \$15.00; live stock, \$32.00; harness, \$86.27; feed, \$322.20; farm implements, \$9.00; machinery, \$356.77; apparatus, \$40.23; supplies, \$5.71		\$968 80
Dairy Laboratory.		
Dairy implements, \$24.00; dairy supplies, \$163.58; dairy machinery, \$100.79; scales, \$7.00.....		\$295 37
Horticulture and Forestry.		
Pots, \$20.00		\$20 00
Veterinary Medicine.		
Jars, \$13.58; hospital supplies, \$16.22; instruments, \$23.36; cages, \$10.00		\$63 16
Total		\$4,341 61

SCHEDULE B.

Disbursements for instruction in Mechanic Arts and for facilities for such instruction, during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
I. For salaries of instructors:		
C. N. Brown, Professor.....	Civil engineering	\$450
C. E. Sherman, Asst. Professor..	" "	220
John W. Groves, Assistant.....	" "	50
W. T. Magruder, Professor.....	Mechanical engineering	450
E. A. Hitchcock, Asso. Prof....	" "	300
C. A. Grate, Assistant.....	" "	30
F. J. Hale, Assistant.....	" "	30
N. W. Lord, Professor.....	Metallurgy and Mineralogy...	400
F. A. Ray, Professor.....	Mine engineering	400
E. E. Somermeier, Assistant...	Metallurgy	140
Edward Orton, Jr., Asso. Prof..	Ceramics	360
A. V. Bleining, Assistant.....	"	90
F. C. Caldwell, Asso. Professor...	Electrical engineering	320
F. A. Fish, Assistant.....	" "	120
J. P. Covan, Assistant.....	" "	70
Geo. B. Kauffman, Professor....	Pharmacy	400
W. A. Landacre, Asst. Prof....	"	70
N. P. Oglesby, Assistant.....	"	40
F. E. Sanborn, Professor.....	Industrial Arts	380
W. A. Knight, Assistant.....	Machine work	100
W. H. Renck, Assistant.....	Carpenter and Pattern work...	170
C. P. Crowe, Assistant.....	Forge work	160
A. H. McIntyre, Assistant.....	Industrial Arts	60
J. N. Bradford, Professor.....	Drawing	360
T. E. French, Asst. Professor...	"	220
T. H. Lewis, Assistant.....	"	120
Silas Martin, Assistant.....	"	50
I. H. Vosskuehler, Assistant....	"	30
II. For facilities, as follows:		
Text-books and reference books.....		\$161 37
Department of Ceramics.		
Supplies, \$25.22; hardware, \$19.65; balances, \$102.10; tile, \$38.35; kiln, \$351.99; pump, \$4.61.....		541 92
Department of Civil Engineering.		
Tapes		5 36
Department of Drawing.		
Cameras, \$230.75; drawing tables, \$22.50.....		253 25
Department of Electrical Engineering.		
Castings, \$81.28; electrical supplies, \$98.90; lantern, \$30.00; motor, \$260.00; instruments, \$46.85; tools and hardware, \$27.41.....		544 44

SCHEDULE B— Concluded.

	Amount.
Department of Industrial Arts.	
Lumber, \$546.19; tools and hardware, \$169.24; paints, \$10.30; iron and steel, \$64.74; supplies, \$5.67; patterns, \$32.60; machinery, \$4.84	833 58
Department of Mechanical Engineering.	
Supplies, \$14.90; machinery, \$102.12; paints, \$17.55; tools, \$29.95; apparatus, \$32.50; thermometers, \$26.25; ice, \$25.00....	248 27
Total	\$8,178 19

SCHEDULE C.

Disbursements for instruction in English Language and for facilities for such instruction, during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
I. For salaries of instructors:		
A. C. Barrows, Professor.....	English Literature	\$450
J. R. Taylor, Asst. Professor....	" "	220
J. V. Denney, Professor.....	English and Rhetoric.....	225
H. C. Allen, Asst. Professor....	" " "	115
W. L. Graves, Asst. Professor...	" " "	100
Geo. H. McKnight, Assistant....	" " "	90
J. B. Parker, Assistant.....	" " "	30
II. For facilities, as follows:		
Text-books and reference books.....		\$28 99
Total		\$1,258 99

SCHEDULE D.

Disbursements for instruction in Mathematical Science and for facilities for such instruction during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
I. For salaries of instructors:		
R. D. Bohannon, Professor.....	Mathematics	\$450
G. W. McCoard, Asst. Professor	"	320
C. L. Arnold, Asst. Professor...	"	200
K. D. Swartzel, Asst. Professor.	"	200
E. L. Ball, Fellow.....	"	60
J. W. Young, Assistant.....	"	60
H. C. Lord, Professor.....	Astronomy	320
II. For facilities, as follows:		
Text-books and reference books.....		\$11 93
Department of Astronomy.		
Spectroscope, \$200.00; electrical supplies, \$11.89; electrical apparatus, \$89.00; gas engine, \$150.00.....		\$450 89
Total		\$2,472 82

SCHEDULE E.

Disbursements for instruction in Natural or Physical Science and for facilities for such instruction during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
I. For salaries of instructors:		
A. M. Bleile, Professor.....	Anatomy and Physiology....	\$450
C. B. Morrey, Asst. Professor...	" " "	200
M. Dresbach, Assistant.....	" " "	60
W. A. Kellerman, Professor.....	Botany	450
J. H. Schaffner, Assistant.....	"	210
S. W. Collett, Assistant.....	"	50
Alice Dufour, Assistant.....	"	25
W. McPherson, Professor.....	Chemistry	450
S. A. Norton, Lecturer.....	"	240
W. E. Henderson, Asst. Professor	"	200
D. A. Kohr, Assistant.....	"	120
F. O. Clements, Assistant.....	"	45
H. C. Gore, Assistant.....	"	30
Edward Orton, Professor.....	Geology	150
C. S. Prosser, Asso. Professor..	"	300
J. A. Bownocker, Asso. Professor	"	200
B. F. Thomas, Professor.....	Physics	225
J. E. Boyd, Asst. Professor.....	"	120
F. E. Kester, Assistant.....	"	80
H. W. Brown, Assistant.....	"	25
H. Osborn, Professor.....	Zoology and Entomology....	225
J. S. Hine, Asst. Professor.....	Entomology	85
F. L. Landacre, Asst. Professor..	Zoology	85
II. For facilities, as follows:		
Text-books and reference books.....		\$298 98
Department of Anatomy and Physiology.		
Model of brain, \$10.00; supplies, \$6.46; microscopes, \$161.20....		177 60
Department of Botany.		
Collections, \$177.05; herbarium, \$145.36; tools and hardware, \$41.17; herbarium paper, \$63.20; mica, \$7.88; labels, \$29.70; camera and plates, \$181.90; pots, \$17.10.....		664 26
Department of Chemistry.		
Apparatus, \$488.17; chemicals, \$124.31; balances, \$52.75; chemical supplies, \$969.13; platinum, \$149.89; plates, \$35.74; crucibles, \$54.77		1,874 78
Department of Geology.		
Tree ferns, \$10.95; specimen stone, \$5.00.....		15 95
Department of Physics.		
Balances, \$5.10; apparatus, \$147.47; supplies, \$31.80.....		184 37

SCHEDULE E — Concluded.

	Amount.
Department of Zoology and Entomology.	
Charts, \$42.00; net, \$9.50; bird skins, \$58.30; mounting specimens, \$177.25; specimens, \$5.00; microscopes, \$253.33; dissecting material, \$15.95; drugs, \$18.07; collections, \$40.00.....	619 40
Total	\$7,860 40

SCHEDULE F.

Disbursements for instruction in Economic Science and for facilities for such instruction, during the year ended June 30, 1900.

Name of instructors	Subjects taught for which paid from "Morrill Fund"	Amount
I. For salaries of instructors:		
Geo. W. Knight, Professor.....	History and Political Science..	\$500
J. B. Sanborn, Assistant.....	" " "	140
F. C. Clark, Asso. Professor.....	Economics and Sociology....	320
Grace L. Pitts, Assistant.....	" " "	30
II. For facilities, as follows:		
Text-books and reference books.....		\$136 99
Total		\$1,126 99

OHIO STATE UNIVERSITY

THIRTIETH ANNUAL REPORT

OF THE

BOARD OF TRUSTEES

TO THE

GOVERNOR OF OHIO

FOR THE

Year Ending June 30, 1900.

PART II.

The State has no material resources at all comparable with its citizens,
and no hope of perpetuity except in the intelligence
and integrity of its people.

COLUMBUS
PUBLISHED BY THE UNIVERSITY
JUNE, 1900.

CALENDAR

1900

JULY							AUGUST							SEPTEMBER								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
	1	2	3	4	5	6	7					1	2	3	4							1
8	9	10	11	12	13	14	5	6	7	8	9	10	11	2	3	4	5	6	7	8		
15	16	17	18	19	20	21	12	13	14	15	16	17	18	9	10	11	12	13	14	15		
22	23	24	25	26	27	28	19	20	21	22	23	24	25	16	17	18	19	20	21	22		
29	30	31	.....	.....	.....	.....	26	27	28	29	30	31	.....	²³ ₃₀	24	25	26	27	28	29
OCTOBER							NOVEMBER							DECEMBER								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
	1	2	3	4	5	6					1	2	3							1		
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8		
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15		
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22		
28	29	30	31	.....	.....	.....	25	26	27	28	29	30	.....	²³ ₃₀	²⁴ ₃₁	25	26	27	28	29

1901

JANUARY							FEBRUARY							MARCH								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
			1	2	3	4	5						1	2							1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9		
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16		
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23		
27	28	29	30	31	.....	.....	24	25	26	27	28	.....	.....	²⁴ ₃₁	25	26	27	28	29	30
APRIL							MAY							JUNE								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
	1	2	3	4	5	6				1	2	3	4							1		
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8		
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15		
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22		
28	29	30	.....	.....	.....	.....	26	27	28	29	30	31	.....	²³ ₃₀	24	25	26	27	28	29

DAYS AND DATES

1900

Entrance Examinations (8 A. M.)	Monday,	September 17.
Registration Day	Tuesday,	September 18.
Lectures and Class-work begin (all Colleges)	Wednesday,	September 19.
Annual Address by the President (11 A. M.)	Friday,	September 21.
Meeting of Trustees	Wednesday,	September 26.
Thanksgiving Recess	{ Thursday,	November 29.
	{ Friday,	November 30.
Latest date for announcing Subjects of Theses	Saturday,	December 15.
First Term ends	Wednesday,	December 19.

Christmas Vacation.

1901

Second Term begins—Registration Day	Wednesday,	January 2.
First Semester (College of Arts, Philosophy and Science, and College of Law) ends	Friday,	February 8.
Second Semester (College of Arts, Philosophy and Science, and College of Law) begins—Regis- tration Day	Monday,	February 11.
University Day	Friday,	February 22.
Second Term ends	Friday,	March 29.
Spring Recess—From 4 o'clock P. M. to 8 o'clock A. M.	Friday,	March 29.
	Wednesday,	April 3.
Third Term begins—Registration Day	Wednesday,	April 3.
Meeting of Trustees	Wednesday,	April 3.
High School Day	Friday,	May 17.
Field Day—Athletic Association	Saturday,	May 18.
Senior Vacation begins	Saturday,	May 25.
Competitive Drill—Cadet Battalion	Saturday,	May 25.
Memorial Day	Thursday,	May 30.
Final Examinations (all Colleges)	{ Monday,	June 10.
	{ to Friday,	June 14.
Baccalaureate Sermon	Sunday,	June 16.
Entrance Examinations (8 A. M.)	{ Monday,	June 17.
	{ Tuesday,	June 18.
Class Day	Monday,	June 17.
Meeting of Trustees	Tuesday,	June 18.
Alumni Day	Tuesday,	June 18.
COMMENCEMENT	Wednesday,	June 19.

Summer Vacation.

Entrance Examinations (8 A. M.)	Monday,	September 16.
Registration Day	Tuesday,	September 17.
Lectures and Class-work begin (all Colleges)	Wednesday,	September 18.
Annual Address by the President (11 A. M.)	Friday,	September 20.
Meeting of Trustees	Wednesday,	September 25.

BOARD OF TRUSTEES

1899-1900

		Term Expires.
JOHN T. MACK	Sandusky	May 13, 1901.
LUCIUS B. WING	Newark	" 1902.
THOMAS J. GODFREY	Celina	" 1903.
J. McLAIN SMITH	Dayton	" 1904.
PAUL JONES	Columbus	" 1905.
OSCAR T. CORSON	Columbus	" 1906.
DAVID M. MASSIE	Chillicothe	" 1907.

OFFICERS OF THE BOARD

J. McLAIN SMITH	President.
OSCAR T. CORSON	Vice President.
ALEXIS COPE	Secretary.
LOUIS F. KIESEWETTER	Treasurer.

COMMITTEES OF THE BOARD

EXECUTIVE	FARM	FINANCE
L. B. WING	J. McLAIN SMITH	D. M. MASSIE
T. J. GODFREY	L. B. WING	J. McLAIN SMITH
PAUL JONES	JOHN T. MACK	PAUL JONES

FACULTY AND COURSES OF STUDY

THOMAS J. GODFREY OSCAR T. CORSON JOHN T. MACK

THE FACULTIES

Members of the Faculties, and Other Instructors

1899-1900

WILLIAM OXLEY THOMPSON.....University Grounds
President

A. B., Muskingum College, 1878; A. M., *ibid.*, 1881; D. D., *ibid.*, 1891; LL. D., Western University of Pennsylvania, 1897. Licensed by the Presbytery of Zanesville, Dresden, Ohio, April, 1881; Ordained by Presbytery of Fort Dodge, Iowa, July, 1882; Pastor Odebolt, Iowa, 1882-85; Pastor Longmont, Colorado, 1885-91; President Longmont College, 1885-89; President Miami University, 1891-99; present position since 1899.

*EDWARD ORTON.....100 Twentieth street
Professor of Geology, and State Geologist

A. B., Hamilton, 1848; Ph. D., Hamilton, 1875; LL. D., Ohio State University, 1881. Student of Theology, Lane Seminary, 1849; Student at Lawrence Scientific School, Harvard University, 1852; Student, Andover, 1854; Professor of Natural Science, State Normal School, Albany, N. Y., 1856-'59; Principal, Chester Academy, N. Y., 1859-'65; Professor of Natural History, Antioch, 1865-'72; President of Antioch, 1872-'73; President of the Ohio State University, 1873-'81; State Geologist, 1889; present position since 1881.

WILLIAM HENRY SCOTT.....131 Fifteenth avenue
Professor of Philosophy

A. B., Ohio University, 1862; M. A., Ohio University, 1865; LL. D., Ohio University and Ohio Wesleyan, 1884. Superintendent of Public Schools, Athens, Ohio, 1862-'64; Principal of the Preparatory Department of Ohio University, 1864-'65; Pastor of Main Street (now Trinity) M. E. Church, Chillicothe, Ohio, 1865-'67; Pastor of Town Street (now First) M. E. Church, Columbus, Ohio, 1867-'69; Professor of Greek, Ohio University, 1869-'72; President and Professor of Philosophy, Ohio University, 1872-'83; President and Professor of Philosophy, Ohio State University, 1883-'95; present position since 1896.

SIDNEY AUGUSTUS NORTON.....363 East Town street
Emeritus Professor of Chemistry

A. B., Union, 1856; A. M., Union, 1859; M. D., Miami Medical College, 1867; Ph. D., Kenyon, 1878; LL. D., Wooster, 1881. LL. D., Union, 1899. Student at Bonn, Leipsic, Heidelberg; Teacher, Poughkeepsie Collegiate Academy, 1856; Tutor, Union, 1857; Principal Hamilton (Ohio) High School, 1858; Instructor of Natural Science, Cleveland High Schools, 1859-'66; Teacher of Natural Science, Mt. Auburn, 1866-'72; Professor of Chemistry, Miami, 1867-'72; Acting Professor of Physics, Union, 1872-'73; Professor of Chemistry, Ohio State University, 1873-'95; Lecturer in Chemistry, 1895-'99; Present position since 1899.

STILLMAN W. ROBINSON.....1353 Highland street
Emeritus Professor of Mechanical Engineering

C. E., University of Michigan, 1863; D. Sc., Ohio State University, 1896; Assistant Engineer U. S. Lake Survey, 1863-'66; Instructor in Engineering, University of Michigan, 1866-'67; Assistant Professor Mining Engineering and Geology, University of Michigan, 1867-'70; Professor Mechanical Engineering and Physics, University of Illinois, 1870-'78; Professor Mechanical Engineering and Physics, Ohio State University, 1878-'81; Professor Mechanical Engineering, Ohio State University, 1881-'95. Resigned in 1895. Consulting Mechanical Engineer and Inventor for Wire Grip and McKay Shoe Machinery Companies, 1884-'98; Re-elected Emeritus Professor of Mechanical Engineering, Ohio State University, 1899. State Inspector of Railroads and Bridges, 1880-84. Consulting Engineer Santa Fe R. R., 1887-'90, Consulting Engineer Lick Telescope and Mountings, 1887.

*Died, October 16, 1899.

- NATHANIEL WRIGHT LORD**.....338 West Eighth avenue
 Professor of Mineralogy and Metallurgy, Director of the School of Mines, and Dean
 of the College of Engineering
 E. M., Columbia, 1876; Assistant Engineer, Cincinnati, 1877; Engineer and Metallurgist
 Monte Grande Gold Mining Co, Nicaragua, 1878; Assistant School of Mines, O. S. U., 1879;
 Chemist Ohio Geological Survey, 1880-'88; Assistant Professor of Mining and Metallurgy,
 O. S. U., 1880-'87; Professor Mining and Metallurgy, O. S. U., 1887-'91; Professor Metal-
 lurgy and Mineralogy, O. S. U., 1896; Chemist State Board of Agriculture, 1881-'99; Chemist
 State Board of Health, 1896-'98; present position since 1896.
- SAMUEL CARROLL DERBY**.....93 Fifteenth avenue
 Professor of Latin
 A. B., Harvard, 1866; A. M., Harvard, 1869 (in course), 1877 (by examination). Principal
 of Schools, Iilon, N. Y., 1866-'67; Assistant in Dixwell's Classical School, Boston, 1867-'70;
 Professor of Language, Antioch, 1870-'81; President, Antioch, 1877-'81; Student, Latin and
 History, Harvard, 1876-'77; Student, Latin and History, Johns Hopkins, 1880-'81; Student,
 Latin, Harvard, 1892-'93; present position since 1881.
- WILLIAM RANE LAZENBY**.....348 West Eighth avenue
 Professor of Horticulture and Forestry
 B. Agr., Cornell, 1874; M. Agr., Iowa Agricultural College, 1887. Instructor Horticulture
 and Botany, Cornell, 1874-'77; Assistant Professor of Horticulture, Cornell, 1877-'81; Lecturer,
 N. Y. State Grange, 1874-'81; Director Ohio U. S. Experiment Station, 1882-'87; Professor of
 Botany and Horticulture, Ohio State University, 1881-'92; present position since 1892.
- JOSIAH RENICK SMITH**.....950 Madison avenue
 Professor of the Greek Language and Literature
 A. B., Amherst, 1871; A. M., Amherst, 1883; Principal, Mound Street School, Columbus,
 1871-'73; Teacher, Columbus High School, 1873-'76; Assistant Professor of Ancient Languages,
 Ohio State University, 1876-'81; Student at Leipsic, 1881-'83; present position since 1883.
- HENRY ADAM WEBER**.....1342 Forsythe avenue
 Professor of Agricultural Chemistry
 Graduate of Polytechnic School, Kaiserslautern, 1896; Student, Chemistry under Von Liebig
 and Reischauer, and of Mineralogy under Von Kobell, Munich, 1866-'68; Ph. D., Ohio State
 University, 1879; Ohio Geological Survey, Chemical Department, 1869-'74; Professor of General
 Chemistry and Mineralogy, Illinois State University, 1874-'82; Chemist to State Board of
 Agriculture, Illinois, 1874-'82; Chemist to State Board of Health, Illinois, 1874-'82; State
 Chemist and Chief Chemist to Ohio State Dairy and Food Commissioner, 1885-'97; present
 position since 1884.
- BENJAMIN FRANKLIN THOMAS**.....University Grounds
 Professor of Physics, and State Sealer of Weights and Measures
 B. Sc., Ripon, 1874; M. Sc. Ripon, 1877; Ph. D., Stevens Institute, 1880. Instructor in
 Mathematics and Physics, Carleton College, Northfield, Minnesota, 1876-'79; Professor of
 Physics, University of Missouri, 1880-'85; Member of the Board of Examiners at the
 International Electrical Exhibition at Philadelphia, 1884; Member of the Jury of Awards,
 Department of Electricity, at the World's Columbian Exposition, Chicago, 1893; present position
 since 1885.
- GEORGE WELLS KNIGHT**.....University Grounds
 Professor of American History and Political Science and of Constitutional Law
 A. B., University of Michigan, 1878; A. M., University of Michigan, 1883; Ph. D., Univer-
 sity of Michigan, 1884; Student, Law, University of Michigan, 1878-'79; Principal of High
 School, Lansing, Michigan, 1879-'81; Student, History and Political Science, University of
 Michigan, 1882-'84; Instructor in History, Ann Arbor High School, 1883-'85; Professor of
 History and English Literature, Ohio State University, 1885-'87; Professor of History and
 Political Science, Ohio State University, 1887-'98; Student at Universities of Halle, Berlin,
 and Freiburg, 1880-'90; present position since 1898.

ROSSER DANIEL BOHANNAN.....Sixteenth and Indianola avenues

Professor of Mathematics

B. Sc., C. E., E. M., University of Virginia, 1876; Student of Mathematics and Physics, Cambridge, England, 1880-'82; Göttingen, 1882-'83; Teacher of Mathematics and Latin, Suffolk Collegiate Institute, Virginia, 1876-'77; Teacher of Mathematics and English, New York Latin School, New York City, 1877-'78; Professor of Mathematics and Natural Science, Emory and Henry College, 1878-'80; Acting Professor of Mathematics, University of Virginia, 1883-'84; Assistant in Mathematics and Physics, University of Virginia, 1884-'87; Professor of Mathematics and Astronomy, Ohio State University, 1887-'95; present position since 1895.

C. NEWTON BROWN.....1843 Forsythe avenue

Professor of Civil Engineering

C. E., Miami, 1886; Resident Engineer of the Ironton Extension of the Pittsburg, Cincinnati, Chicago & St. Louis R. R., 1881; Ohio Geological Survey, 1882; Assistant in Mathematics and Civil Engineering, Ohio State University, 1883-'85; Associate Professor of Civil Engineering, Ohio State University, 1885-'90; present position since 1890.

ERNST AUGUST EGGERS.....100 West Eleventh avenue, University Grounds

Professor of Germanic Languages and Literatures

Student in Gymnasium at Hanover, at Michigan State Normal School, the Sorbonne, College de France; Instructor in German in the High Schools of Michigan for ten years; Assistant in German, Ohio State University, 1886-'88; Assistant Professor of German, same institution, 1888-'90; present position since 1890.

ALBERT MARTIN BLEILE.....218 King avenue

Professor of Anatomy and Physiology

M. D., Starling Medical College, 1876; Student, Vienna, Chemistry and Physiology, 1876-'77; Student, Physiology, Leipsic, 1877-'78; Student Anatomy and Histology, Paris, 1878-'79; Lecturer on Experimental Physiology, Starling Medical College, 1879; Professor of Physiology, Starling Medical College, 1884; present position since 1891.

WILLIAM ASHBROOK KELLERMAN.....175 Eleventh avenue

Professor of Botany

B. Sc., Cornell, 1874; Ph. D., Zurich, 1881; Professor of Natural Science, Wisconsin State Normal School, 1874-'79; Professor of Botany and Horticulture, Kentucky State College, 1881-'82; Professor of Botany and Zoology, Kansas State Agricultural College, 1883-'87; Professor of Botany, Kansas State Agricultural College, 1888-'91; Botanist, Kansas State Board of Agriculture, 1883-'91; Ohio Geological Survey (Botany) 1892-'93; Founder and Editor of the Journal of Mycology, 1886-'89; present position since 1891.

THOMAS FORSYTH HUNT.....188 West Tenth avenue

Professor of Agriculture, and Dean of the College of Agriculture and Domestic Science

B. Sc., University of Illinois, 1884; M. Sc., University of Illinois, 1892; Assistant to Illinois State Entomologist, 1885-'86; Assistant in Agriculture, University of Illinois, 1886-'88; Assistant Agriculturalist, Illinois Experiment Station, 1888-'91; Professor of Agriculture, Pennsylvania State College, 1891-'92; present position since 1892.

GEORGE BEECHER KAUFFMAN.....University Grounds

Professor of Pharmacy, and Dean of the College of Pharmacy

B. Sc., Ohio Wesleyan University, 1877; Pharm. D., Scio, 1894; Associate Professor of Pharmacy, Ohio State University, to 1894; present position since 1894.

BENJAMIN LESTER BOWMAN.....775 East Broad street

Professor of Romance Languages and Literature

A. B., University of Rochester, 1881; Ph. D., Johns Hopkins University, 1888. Post-graduate work, University of Rochester, 1881-'82; Professor of Languages, New Windsor College, Maryland, 1882-'83; Graduate Student and Assistant in French, Johns Hopkins University, 1883-'86, and 1887-'88; Student at the University of Paris, Bonn, Rome and Madrid, 1885, and 1886-'87; Professor of French and Latin, Bowdoin College, 1888-'89; Acting Associate Professor of French Language and Literature, Ohio State University, 1889-'90; Associate Professor of Romance Languages and Literatures, Ohio State University, 1890-'94; present position since 1894.

- JOSEPH VILLIERS DENNEY**.....230 West Tenth avenue
 Professor of Rhetoric and the English Language, and Secretary of the University Faculty
 A. B., University of Michigan, 1885. Journalist, 1885-'88; Principal of the Aurora (Illinois) High School, 1888-'90; Instructor in English and Graduate Student, University of Michigan, 1890-'91; Associate Professor of Rhetoric, Ohio State University, 1891-'94; present position since 1894.
- ALLEN CAMPBELL BARROWS**.....85 West Tenth avenue
 Professor of English Literature, and Dean of the College of Arts, Philosophy and Science
 A. B., Western Reserve, 1861; A. M., Western Reserve, 1866; D. D., Iowa College, 1889. Teacher, Latin and Greek, Phillips Academy, 1865-'66; Professor of Physics, Western Reserve, 1866-'70; Professor of Latin and English Literature, Western Reserve, 1870-'71; Professor of English Literature and History, Iowa Agricultural College, 1887-'94; present position since 1894.
- EDWARD ORTON, JR.**.....The Normandie
 Director of the Department of Clay-Working and Ceramics
 E. M., Ohio State University, 1884. Assistant on Ohio Geological Survey, 1882; Chemist for Columbus and Hocking Coal and Iron Company, 1885-'86; Superintendent of Blast Furnace at New Straitsville, O., 1887-'88; Superintendent of Victoria Furnace, Goshen Bridge, Va., 1888; Steel Worker, Homestead Steel Works, Homestead, Pa., 1889; Superintendent Ohio Paving Company's Factory, Columbus, Ohio, 1890-'92; Special Assistant on Clays, Ohio Geological Survey, 1892; Superintendent Acme Vitrified Brick Co., Louisville, Kentucky, 1893; State Geologist of Ohio, 1899; present position since May, 1894.
- WILLIAM FORREST HUNTER**.....1032 Bryden Road; 18 Board of Trade
 Dean of the College of Law, Professor of the Law of Sales, Bailments, Evidence, Mortgages, Suretyship, Construction of Contracts, Law of Corporations, Judge of Moot Courts
 Admitted to the Bar in 1861; Student, University of Michigan Law School; practicing attorney since 1866; Dean of the Law School, Ohio State University, 1892-'96; present position since 1896.
- DAVID FRANKLIN PUGH**.....1320 Highland street; Board of Trade
 Professor of Equity Jurisprudence, Law of Real Property and Municipal Corporations
 Member of West Virginia Constitutional Convention, 1872; Member of Legislature, West Virginia, 1874-'75; Prosecuting Attorney, Tyler County, West Virginia, 1870-'80; Common Pleas Judge, Franklin County, Ohio, 1887-'90; present position since 1891.
- EMILIUS OVIATT RANDALL**.....1025 Oak street; Supreme Court Room
 Professor of Agency, Commercial Law and Partnership
 Ph. B., Cornell, 1874; LL. B., LL. M., Ohio State University, 1892. Admitted to practice, 1890; Secretary Ohio State Historical Society; Reporter Supreme Court of Ohio. Present position since 1893.
- EDGAR BENTON KINKEAD**.....Wyandotte avenue; Board of Trade
 Professor of Pleading and Probate Practice, Torts, Criminal Law, Ethics, Trial Practice and Law of Contracts (Engineers)
 Assistant State Law Librarian, 1887-1894; Special Counsel for Attorney-General of Ohio, 1897-1900. Present position since 1895.
- WILLIAM HERBERT PAGE**.....1068 Franklin avenue; 27 Board of Trade
 Professor of Elementary Law, Contracts and Wills
 B. A., Yale, 1889; LL. B., Ohio State University, 1892; LL. M., same institution, 1894. Instructor in Central High School, Columbus, Ohio, 1889-'96. Present position since September, 1896.
- WILLIAM THOMAS MAGRUDER**.....191 King avenue
 Professor of Mechanical Engineering
 M. E., Stevens Institute of Technology, 1881. Practical Experience in Machine Design and Shop Practice, Taunton, Mass., 1881-'86. Student in Chemistry and Mathematics, etc., Johns Hopkins University, 1886-'87; Professor of Mechanical Engineering (practical and theoretical) Vanderbilt University, 1887-'96; present position since September, 1896.

J. P. GORDY.....The Normandie

Professor of Education

Ph. D., University of Leipsic, 1884; LL. D., Western University of Pennsylvania, 1897. Student in Philosophy at Leipsic, 1883-'84; Student in Philosophy at Johns Hopkins University, 1886; Assistant in Revision of Webster's Dictionary, 1884-'85; Professor of Philosophy and Pedagogy, Ohio University, Athens, 1886-'96; present position since September, 1896.

WILLIAM McPHERSON.....97 Hamilton avenue

Professor of Chemistry

B. Sc., Ohio State University, 1887; M. Sc., Ohio State University, 1890; D. Sc., Ohio State University, 1895; Ph. D., University of Chicago, 1899; Instructor in Chemistry and Physics, Toledo High School, 1887-'89; Instructor in Chemistry and Latin, Toledo High School and Manual Training School, 1889-'92; Assistant in Chemistry, Ohio State University, 1892-'93; Assistant Professor in Chemistry, Ohio State University, 1893-'96; Associate Professor, General Chemistry, Ohio State University, 1896-'97; present position since 1897.

JOSEPH NELSON BRADFORD.....54 West Tenth avenue

Professor of Drawing

M. E., Ohio State University, 1883. Draftsman, Ohio Geological Survey, 1882; Machinist and Draftsman, Pittsburg, Cincinnati & St. Louis Railroad, 1883-'85; Assistant in Mechanical Engineering and Drawing, Ohio State University, 1895-'99; Assistant Professor of Drawing, Ohio State University, 1899-'03; Associate Professor of Drawing, Ohio State University, 1893-'99. Present position since 1899.

DAVID STUART WHITE.....West Fifth avenue

Professor of Veterinary Medicine, and Dean of the College of Veterinary Medicine

D. V. S., Ohio State University, 1890. Student, Royal Veterinary Schools of Hanover, Berlin, 1890-'91; at Imperial Veterinary Institute of Vienna, 1892; Royal Veterinary College of Dresden, 1893; Assistant in Veterinary Medicine, Ohio State University, 1893-'95. Present position since 1895.

HERBERT OSBORN.....485 King avenue

Professor of Zoology and Entomology

B. Sc., Iowa Agricultural College, 1879. M. Sc., same institution, 1880. Student of Entomology at Museum Comparative Zoology (Cambridge, Mass.) 1881-'82; College of Physicians and Surgeons, Des Moines, 1884-'85 (Anatomy and Physiology); Zoological Station Naples (Smithsonian table), 1894-'95. Assistant in Zoology and Entomology, Iowa Agricultural College, 1880-'83; Assistant Professor of Zoology and Entomology, Iowa Agricultural College, 1884-'85. Professor of Zoology and Entomology, Iowa Agricultural College, 1886-'98; Special Agent Division of Entomology, U. S. Department of Agriculture, 1885-'94; Entomologist, Iowa Experiment Station, 1890-'98; State Entomologist, Iowa, 1898. Present position since 1898.

FRANK EDWIN SANBORN.....380 West Eighth avenue

Director of the Department of Industrial Arts

S. B., in Mechanical Engineering, Massachusetts Institute of Technology, 1889. Assistant in Drawing, Massachusetts Institute of Technology, 1889-'90; Teacher in Manual High School Department, Pratt Institute, 1890-'91; Walker Special Instructor, Tufts College, 1891-'94; Instructor in Mechanical Department, Tufts College, 1894-'98. Present position since September, 1898.

HENRY CURWEN LORD.....401 West Sixth avenue

Director of the Emerson McMillen Observatory, and Associate Professor of Astronomy

B. Sc., University of Wisconsin, 1889. Assistant in Washburn Observatory, University of Wisconsin; with Thompson-Houston Electric Company, 1889; Assistant in Mathematics and Astronomy, Ohio State University, 1891-'94; elected Fellow, Royal Astronomical Society, 1897; Present position since 1895.

CHRISTOPHER P. LINHART.....Gymnasium; The Vendome
Director of the Gymnasium, and Instructor in Physical Education

M. D., Western Reserve University, Cleveland, 1882. Post-graduate student, same institution, 1882-'83. Student and Instructor, Dr. Anderson's Normal School of Physical Education, 1886; student in Harvard Summer School, 1887; House Physician and Surgeon, Cleveland City Hospital, 1883-'85; Assistant Demonstrator of Anatomy, Western Reserve University, 1885-'86, and Assistant Visiting Physician Charity Hospital, Cleveland, 1886; Director of Y. M. C. A. Gymnasium, Orange, N. J., 1886 and 1888; Instructor in Physiology and Physical Education, Newark, (N. J.), Academy, 1887 and 1890, and Director of Physical Education, Newark, N. J., Public Schools, 1888-'90; Medical Director Manhattan Athletic Club, 1891 and 1892; Instructor in Physiology and Physical Education, Union College, 1892-'97. Present position since 1897.

JAMES MADISON BURNS.....The Columbus Club
Professor of Military Science and Tactics

Graduate of the Beaver Academy, Pennsylvania. Entered the volunteer service 1861; discharged July 17th, 1865. Appointed second lieutenant 17 infantry U. S. A.; promoted to first lieutenant and captain same regiment; served thirty-one years in that organization, the greater portion of the time on the extreme frontier. Promoted to major and retired on account of disability incurred in the line of duty, May 22, 1890. Appointed to present position October 1st, 1899.

FRANK ARNOLD RAY.....137 King avenue
Associate Professor of Mine Engineering

E. M., Ohio State University, 1887. Superintendent building construction, Elah Terral & Co., 1887-'88; Assistant Mining Engineer C. & H. C. & I. Co., 1888-'89; Chief Engineer C. & H. C. & I. Co., 1889-'92; Chief Engineer Congo Coal Mining Co., 1892-'95; Assistant Professor of Mine Engineering, O. S. U., 1895-'97; present position since 1897.

FRANCIS CARY CALDWELL.....55 Cleveland avenue
Associate Professor of Electrical Engineering

A. B., Cornell, 1890; M. E. Cornell, 1891. With Thompson-Huston Electric Co., Lynn Mass., 1891-'92; Student at the National Polytechnic, Zurich, 1892-'93; Assistant Professor of Electrical Engineering, Ohio State University, 1893-'97. Present position since 1897.

PERLA G. BOWMAN.....The Dennison
Associate Professor of Domestic Science; in charge of the Department of Domestic Economy

Graduate of Toledo High School; Graduate of Toledo Manual Training School; Student at Wells College; Instructor in Toledo Manual Training School; Director of Domestic Science, Toledo Manual Training School; Special Student at Pratt Institute (Brooklyn), and the University of Michigan. Present position since September, 1897.

FREDERICK CONVERSE CLARK.....1634 Neil avenue
Associate Professor of Economics and Sociology

A. B., University of Michigan, 1887; A. M., University of Michigan, 1888; Ph. D., University of Michigan, 1891. Student at Halle and Berlin, 1893-'95; Instructor in History and Economics, Ann Arbor High School, 1888-'92; Assistant Professor of Political Economy, Stanford University, 1892-'93; Assistant Professor of Economics and Sociology, Ohio State University, 1895-'98. Present position since 1898.

WILBUR HENRY SIEBERT.....1332 Highland street
Associate Professor of European History

A. B., Ohio State University, 1888; A. B., (with honorable mention) Harvard University, 1889; M. A., Harvard, 1890. Student, Freiburg and Berlin, 1890-'91; Student, Harvard, 1895; Assistant in History and Political Science, Ohio State University, 1891-'93; Assistant Professor of History, Ohio State University, 1893-'95, 1897-'98; Student, Harvard University, 1895-'97. Present position since 1898.

- OLIVE B. JONES.....53 Eleventh avenue
Librarian
Assistant Librarian, 1887. Present position since 1898.
- EMBURY ASBURY HITCHCOCK.....380 West Eighth avenue
Associate Professor of Experimental Engineering
M. E., Cornell, 1890. Straightline Engine Company, Syracuse, N. Y., 1889; Corliss Steam Engine Company, Providence, R. I., 1890-'93; Assistant in Mechanical Engineering, Ohio State University, 1893-'95; Assistant Professor of Mechanical Engineering in charge of the Department, 1895-'96; Assistant Professor, Experimental Engineering, Ohio State University, 1896-'97. Present position since 1897.
- WILLIAM DAVID GIBBS.....The Dennison
Associate Professor of Agriculture
B. Sc., University of Illinois, 1893. Fellowship in Agriculture, University of Illinois, 1893-'94; Post-graduate work, University of Illinois and University of Wisconsin, 1895; Expert Assistant in Division of Agricultural Soils of the United States Department of Agriculture, summer of 1895; Teacher of Bacteriology, University of Illinois, fall term, 1893; Assistant in Animal Husbandry, University of Illinois, winter-term, 1894; Assistant in Agriculture, Ohio State University, spring and fall terms, 1895; Assistant Professor of Agriculture, 1895-'98. Present position since 1898.
- STELLA ELLIOTT CANFIELD.....1457 Worthington street
Associate Director of the Gymnasium
Student, University of Nebraska, three years; Chautauqua School of Physical Education, summer of 1897; Assistant in Physical Training, University of Nebraska, two years; Y. M. C. A. classes in Physical Training, Lincoln, Nebraska, one year, and in Aurora, Illinois, one year; Medical Gymnastic Course, Chautauqua School of Physical Education, Summer, 1899; Assistant Director of Gymnasium, 1897-'98. Present position since 1898.
- GEORGE WASHINGTON MCCOARD.....325 West Sixth avenue
Associate Professor of Mathematics
B. A., Bethany, West Virginia, 1873; M. A., Bethany, 1882. Principal of Oakdale Classical Normal Institute, Allegheny County, Pennsylvania, 1873-'74; Private Tutor in Cleveland, Ohio, 1874-'80; Principal of Public Schools, Irving Park, Chicago, 1880-'81; Teacher of Latin and Mathematics, Columbus High School, 1881-'82; Assistant in Mathematics and Latin, Ohio State University, 1882-'87. Assistant Professor of Mathematics, Ohio State University, 1887-'09. Present position since 1890.
- CHARLES WALTER MESLOH.....University Grounds
Associate Professor of Germanic Languages and Literatures
A. B., Ohio State University, 1889; M. A., Ohio State University, 1895. Student in the University of Chicago, 1894; Student, University of Berlin, 1896-'97; Assistant in German, Ohio State University, 1889-'95. Present position since 1895.
- ARTHUR WINFRED HODGMAN.....164 West Ninth avenue
Associate Professor of the Classic Languages
A. B., Harvard, 1890; A. M., Harvard, 1893; Ph. D. (Classical Philology) Harvard, 1896. Student in Graduate School, Harvard, Classical Philology, 1892-'96. Instructor in Preparatory Schools, Quincy, Duxbury, Mass., 1890-'92; Assistant in Greek and Latin, Ohio State University, 1896-'97. Assistant Professor of the Classic Languages, Ohio State University, 1897-'99. Present position since September, 1899.
- CHARLES SMITH PROSSER.....1362 Highland street
Associate Professor of Historical Geology
B. S., Cornell University, 1883; M. S., Cornell University, 1886. Fellow in Natural History, Cornell, 1884-'85; Instructor in Paleontology, Cornell University, 1885-'88; Assistant Paleontologist, U. S. Geological Survey, 1888-'92; Professor of Natural History, Washburn College, Topeka, Kansas, 1892-'94; Assistant Geologist, U. S. Geological Survey, 1893-'94; Professor of Geology, Union College, Schenectady, N. Y., 1894-'99. Assistant Geologist, N. Y. Geological Survey, 1895-'99; Assistant Geologist, University Geological Survey of Kansas, 1896; Chief of Appalachian Division, Maryland Geological Survey since 1898. Present position since 1899.

- JOHN ADAMS BOWNOCKER.....1694 Neil avenue
Associate Professor of Inorganic Geology
B. Sc., Ohio State University, 1889; D. Sc., Ohio State University, 1897. Principal of High School, Martins Ferry, 1889-'92; Fellow in Geology, University of Chicago, 1892-'94; Graduate Scholar, Yale University, 1894-'95; Assistant Geological Survey of Ohio, 1892; Assistant Geological Survey of New Jersey, 1898; Assistant in Geology, 1895-'98. Assistant Professor 1898-'99. Present position since 1899.
- JOHN WRIGHT DECKER.....329 West Eighth avenue
Associate Professor of Dairying
B. Agr., University of Wisconsin, 1890. Fellow in Agriculture, University of Wisconsin, 1890-'91. Instructor in Dairying University of Wisconsin, 1891-'99. Present position since 1899.
- JAMES ELLSWORTH BOYD.....25 Maynard avenue
Assistant Professor of Physics
B. Sc., Ohio State University, 1891; M. Sc., Cornell, 1896. Student in Physics and Mathematics, Ohio State University, 1896-'95; Student in Experimental and Theoretical Physics, Cornell, 1895-'96; also Student in Sibley College of Mechanic Arts, Cornell, summer of 1895. Assistant in Physics, Ohio State University, 1891-'96; held scholarship in Physics, Cornell, 1895. Present position since September, 1896.
- JOSEPH RUSSELL TAYLOR.....The Dennison
Assistant Professor of English Literature
B. A., Ohio State University, 1887; M. A., Columbia University, 1897. Assistant in Drawing, Ohio State University, 1889-'94; Assistant in Rhetoric, Ohio State University, 1894-'97; University Fellow in Literature, Columbia University, 1896-'97; Assistant Professor of Rhetoric, Ohio State University, 1897-'99; present position since 1899.
- CHRISTOPHER ELIAS SHERMAN.....772 Oak street
Assistant Professor of Civil Engineering
C. E., Ohio State University, 1894. Engaged in Civil Engineering in Ohio, Tennessee, Virginia, North Carolina and Arizona for three years during college course. Engaged in railroad, geological and governmental engineering from graduation until September, 1896. Engineer to Park Commission, Springfield, Ohio, and U. S. Assistant Engineer at Tampa, Florida, and Huntsville, Alabama, summer of 1898. U. S. Assistant Engineer on road surveys of Yellowstone National Park, summer of 1899. Assistant in Civil Engineering, Ohio State University, 1896-'97. Present position since 1897.
- WILLIAM LUCIUS GRAVES.....1313 Forsythe avenue
Assistant Professor of Rhetoric
B. A., Ohio State University, 1893; M. A., Ohio State University, 1897. Principal High School, Coshocton, 1894-'96; Fellow and Assistant in Rhetoric and English Language, Ohio State University, 1895-'96. Present position since 1896.
- *CLAIR ALBERT DYE.....169 King avenue
Assistant Professor of Pharmacy
G. Ph., Ohio State University, 1891. Post-graduate student in Chemistry and Pharmacy, Ohio State University; Assistant in Chemistry and Pharmacy, 1890-'94; Assistant in Pharmacy, 1894-'98. Present position since 1898.
- THOMAS EWING FRENCH.....1458 Worthington street
Assistant Professor of Drawing
M. E., Ohio State University, 1895. Assistant in Drawing Department three years preceding graduation; Draftsman, The Smith-Vaile Company, Dayton, 1888-'90; Instructor in Mechanical Drawing, Y. M. C. A., Dayton, 1888-'91; Chief Draftsman, The Smith-Vaile Company, Dayton, 1891; Assistant in Drawing, 1892-'98. Present position since 1898.
- *CHARLES WILLIAM FOULK.....Leipzig, Germany
Assistant Professor of Analytical Chemistry
B. A., Ohio State University, 1894. Assistant in General Chemistry, 1896-'98. Present position since September, 1898.

* In Europe on leave of absence.

- CHARLES LINCOLN ARNOLD.....328 West Eighth avenue
Assistant Professor of Mathematics
B. Sc., Ohio State University, 1890; M. Sc., Ohio State University, 1894. Post-graduate Student, University of Chicago and Ohio State University, 1894-'95. Assistant in Mathematics Ohio State University, 1890-'99. Present position since 1899.
- KARL DALE SWARTZEL.....57 East Eighth avenue
Assistant Professor of Mathematics
B. Sc., Ohio State University, 1893; M. Sc., Ohio State University, 1894. Fellow and Assistant in Mathematics, Ohio State University, 1894-'95. Assistant in Mathematics, Ohio State University, 1895-'99. Present position since 1899.
- CHARLES A. BRUCE.....234 West Tenth avenue
Assistant Professor of the Romance Languages
A. B., Ohio State University, 1895; Student of French, Amherst, Summer School, 1895; Graduate Student, University of Chicago, Summer Quarter, 1896; Student, University of Geneva, Summer School, 1898; Student at the Sorbonne, College de France, and Ecole des Hautes-Etudes, Paris, 1898-'99; Assistant in French, Ohio State University, 1895-'99. Present position since 1899.
- JOHN H. SCHAFFNER.....61 West Eleventh avenue
Assistant Professor of Botany
A. B., Baker University, Kansas, 1893. A. M., University of Michigan, 1894; M. S., Baker University, 1896. Student in Botany, Zoology and Geology, University of Michigan, 1893-'95. Student in Botany and Paleo-Botany, University of Chicago, 1896-'97. Assistant in Botany, University of Michigan, 1894-'95. Professor of Natural Sciences, South Dakota University, 1895-'96; Assistant in Botany, Ohio State University, 1898-'99. Present position since 1899.
- CHARLES BYRON FREDERICK.....Veterinary Hospital
Assistant in Veterinary Medicine.
V. M. and S., Ontario Veterinary College, 1893. In practice since graduation. Fellow in Veterinary Medicine, 1897-'98; Assistant in Veterinary Medicine, 1898. Present position since 1898.
- CORNELIA PORTER SOUTHER.....The Dennison
Assistant Professor of Domestic Art
Graduate of Mary Institute (Washington University), St. Louis, Mo., 1883; Certificated Student at Mary Institute, 1883-'85; Handarbeitslehrerinnen-Seminar des Carola-Vereins, Leipzig, 1896-'97. Investigations in Domestic Art Methods in foreign cities, 1896-'98; Teacher of Sewing, Mrs. Ball's Private School, St. Louis, 1898; Special Student at Pratt Institute, Brooklyn, and Teachers' College, Columbia University, New York. Present position since February, 1899.
- CHARLES BRADFIELD MORREY.....86 King avenue
Assistant Professor of Anatomy and Physiology
B. A., Ohio State University, 1890; Post-graduate Student, Ohio State University, 1890-'91; M. D., Starling Medical College, 1896. Assistant in Latin, Ohio State University, 1890-'91; Assistant in Latin and Physiology, 1891-'92; Assistant in Physiology, Ohio State University, 1892-'95; Student in Vienna and Paris, 1897-'99. Present position since 1899.
- WILLIAM EDWARDS HENDERSON.....41 West Eleventh avenue
Assistant Professor of Analytical Chemistry
A. B., University of Wooster, 1891; M. A., 1894; Ph. D., Johns Hopkins University, 1897. Graduate Student Johns Hopkins University, 1893-'97. Fellow in Chemistry, Johns Hopkins University, 1896-'97. Professor of Natural Sciences, College of Emporia, Kansas, 1891-'93. Professor of Chemistry, Ohio University, 1897-'99. Present position since 1899.
- GEORGE H. McKNIGHT.....748 Neil avenue
Assistant Professor of Rhetoric and English Language
A. B., Cornell, 1892, Ph. D., Cornell, 1896. Instructor in English at Cornell, 1892-'97; Cornell Traveling fellow in English Philosophy, 1897-'98. Student in Freiburg, 1897-'98. Student in Paris and London, 1898-'99. Present position since 1899.

- WALTER ALEXANDER LANDACRE.....1574 Summit street
Assistant Professor of Pharmacy
G. Ph. Ohio State University, 1891. Chemist Braun Sons & Co., 1891-'97. Post-graduate Student Ohio State University, 1897-'99. Present position since 1899.
- HERRICK CLEVELAND ALLEN.....The Dennison
Assistant Professor of Public Speaking
Student Union College 1894-'95-'96. LL. B. Cornell University, 1898. Instructor Department of Oratory and Debate, Cornell University, 1898, '99. Present position since 1899.
- WILLIAM FINLEY LAVERY.....North Dormitory
Assistant in Veterinary Medicine.
D. V. M., Ohio State University, 1890. Veterinary practitioner, 1892-'96. Present position since 1896.
- JAMES HENRY COLLINS.....57 Lexington avenue; Ruggery Building
Lecturer on Federal Practice
In practice for thirty years. Present position since 1891.
- JOHN ALLEN SHAUCK.....96 Winner avenue; Supreme Court Room
Lecturer on Supreme Court Practice and Special Cases
B. A., Otterbein University; LL. B., University of Michigan, 1867; A. M., Otterbein University, 1870; LL. D., Otterbein University, 1897. Judge of the Supreme Court of Ohio.
- J. WARREN SMITH.....55 Cleveland avenue
Lecturer on Meteorology
- WILLIAM ABNER KNIGHT.....203 West Lane avenue
Assistant in the Industrial Arts and Instructor in Machine Work
Thirteen years' practical experience in workshops. Present position since 1893.
- HARRIET TOWNSHEND.....53 West Eleventh avenue
Assistant in Library
Present position since September, 1895.
- THOMAS KENYON LEWIS.....1293 Dennison avenue
Assistant in Drawing
B. Sc., Ohio State University, 1894. Graduate Student, Ohio State University, 1894-'95. Summer of 1897 and summer of 1898 at Cincinnati Art Academy. Present position since graduation.
- FRANCIS LEROY LANDACRE.....1332 Highland street
Assistant in Zoology
B. A., Ohio State University, 1895. Student in Chicago University, summer quarters of 1898 and of 1899. Professor of Embryology in Ohio Medical University since 1896. Present position since graduation.
- JAMES STEWART HINE.....26 West Fourth avenue
Assistant in Entomology
B. Sc. (H. and F.), Ohio State University, 1893. Superintendent of the N. W. Substation of the Ohio Agricultural Experiment Station, 1893. Assistant in Horticulture, Ohio State University, 1894. Student in Entomology, Cornell, 1895. Assistant in the Division of Entomology of the United State Department of Agriculture, summers of 1897 and 1899. Present position since 1895.

- MAUD DOROTHY JEFFREY.....65 West Eleventh avenue
Assistant in Library
B. Ph., Ohio State University, 1895. Student of Library Science, Ohio State University, 1895-'96. Student of Library Science, Amherst, summer of 1897. Present position since September, 1896.
- GERTRUDE STOWELL KELLICOTT.....1332 Highland street
Assistant in Library
Student, Ohio State University, 1888-'95. Student of Library Science, Ohio State University, 1895-'96. Student of Library Science, Amherst, summer of 1897. Present position since September, 1896.
- ALBERT EARL VINSON.....134 West Ninth avenue
Assistant in Agricultural Chemistry
Instructor in Chemistry, Y. M. C. A., Dayton, Ohio, 1895. Present position since September, 1896.
- FREDERICK EDWARD KESTER.....1473 Neil avenue
Instructor in Physics
M. E. (in E. E.), Ohio State University, 1895. M. A., Cornell, 1899. Fellow and Assistant in Physics, Ohio State University, 1895-'97. Assistant in Physics, Ohio State University, 1897-'98, held scholarship in Physics, Cornell, 1898. Present position since 1899.
- FRANK RUHLEN.....North Dormitory
Assistant in Agriculture
B. Sc., (Agr.) Ohio State University, 1896.
- LUCY ALLEN.....1490 Neil avenue
Assistant in Library
B. A., Ohio State University, 1897. M. A., Ohio State University, 1899. Student in Library Science under Dr. G. E. Wire, summer of 1898 at Ohio State University. Student in Harvard University, summer of 1899. Present position since September, 1898.
- ALBERT V. BLEININGER.....North Dormitory
Laboratory Assistant, Department of Clay Working and Ceramics
Present position since 1898.
- EDWARD EVERETT SOMMERMEIR.....1500 Neil avenue
Assistant in Metallurgy and Mineralogy
G. Ph., Ohio State University, 1898. Student Laboratory Assistant in Chemistry, 1897-'98. Present position since September, 1898.
- DON CARLOS HUDDLESON.....249 West Lane avenue
Assistant in Gymnasium
G. Ph., Ohio State University, 1897. Medical Student, 1897. Summer School of Physical Training Chautauqua, 1898. Present position since 1898.
- BURT BIDWELL HERRICK.....167 Tenth avenue
Instructor in Cheese Making
- ELISHA SMITH
Assistant in Cheese Making
- JOSEPH HENRY VOSSKUEHLER201 West Eleventh avenue
Assistant in Drawing
Designer, Gross Lithographing Co., Dayton, Ohio, 1889-'90; Draftsman, The Stilwell-Bierce and Smith-Vaile Co., Dayton, 1890-'96; Finckel & Finckel, Patent Attorneys, Columbus, 1897. Present position since September, 1898.

- CLAUDE B. GUITTARD.....80 McMillen avenue
 Assistant in Library
 Student in Ohio State University, 1892-'96, Assistant in Ohio State Library, 1897-'98. Student in Library Science, Washington, D. C., summer of 1899. Present position since November, 1898.
- WILLIAM HENRY RENCK.....910 West Rich street
 Assistant in Industrial Arts and Foreman of the Carpenter and Pattern Shops.
 Fifteen years' practical experience in pattern shops and foundries, seven years as foreman. Present position since 1899.
- CHARLES PHILIP CROWE.....971 Highland street
 Assistant in Industrial Arts and Forge Master.
 Student, Ohio Business College, Delaware, Ohio; Lebanon Normal School, Lebanon, Ohio; Teacher in Public Schools of Delaware and Union Counties, two years; Forge shop experience, seven years; Manufacturer of Steel Forgings and Springs, six years. Present position since 1899.
- HOMER CHARLES PRICE.....1594 Neil avenue
 Assistant in Horticulture and Forestry
 B. Sc. (Agr.), Ohio State University, 1897. M. S. A., Cornell University, 1899; Fellowship in Agriculture, Cornell, 1898-'9. Present position since September, 1899.
- JOHN WESLEY GROVES.....
 Assistant in Civil Engineering
 C. E., Ohio State University, 1898. Engineer for the C. & H. C. & I. Co., 1898-'99. Present position since October, 1899.
- FRANCIS MARION HAMILTON.....1355 North High street
 Assistant in Philosophy and Education.
 B. A., Indiana University, 1897. Graduate Student in Philosophy and Education, Indiana University, 1897-'98. Assistant in Philosophy, Indiana University, 1897-'98. Assistant Director of Association College, Central Y. M. C. A., Chicago, 1898-'99. Fellow-elect in Psychology in Clark University for 1899-1900. Present position since 1899.
- DELBERT ALONZO CROWNER.....North Dormitory
 Assistant in Butter Making
- FRED ALAN FISH.....229 West Eleventh avenue
 Assistant in Electrical Engineering
 M. E. (in E. E.), Ohio State University, 1898. Fellow and Laboratory Assistant, 1898-'99; present position since 1899.
- JOHN B. SANBORN.....215 West Tenth avenue
 Assistant in American History
 B. L., University of Wisconsin, 1896; M. L., University of Wisconsin, 1897; Ph. D., University of Wisconsin, 1899. Graduate Student of Wisconsin, 1896-'99. Graduate Scholar in American History, University of Wisconsin, 1898-'99. Present position since 1899.
- Oliver*
 OLIVER V. BRUMLEY.....University Grounds
 Assistant in Veterinary Medicine
 Veterinary Surgeon's Certificate, Ohio State University, 1897. Practiced 1897-'98. Present position since 1898.
- SILAS MARTIN.....1209 Dennison avenue
 Assistant in Drawing
 Studied Art with J. H. Witt, E. F. Andrews and Homier. Private Teacher in Art for twenty years. Present position since 1899.

- †FRANK ORVILLE CLEMENTS.....
Assistant in Chemistry
- MELVIN DRESBACH.....236 West Eighth avenue
Fellow, in Anatomy and Physiology
B. Sc., Ohio State University; M. Sc., Ohio State University, 1899.
- FREDERICK JAMES HALE.....75 West Third avenue
Fellow, and Laboratory Assistant in Mechanical Engineering
M. E., Ohio State University, 1898.
- JOHN BERNARD PARKER.....43 East Ninth avenue
Fellow, and Assistant in Rhetoric
B. A., Ohio State University, 1898. Present position since September, 1898.
- EMMA LEANNA BALL.....207 West Eighth avenue
Fellow, and Assistant in Mathematics
B. Sc., Ohio State University, 1895; M. Sc., same institution, 1896.
- ALFRED HEBER McINTIRE.....84 Fifteenth avenue
Fellow in Industrial Arts
M. E. (in E. E.), Ohio State University, 1898.
- DONALD ALEXIS KOHR.....1590 Neil avenue
Fellow, and Laboratory Assistant in Chemistry
B. Ph., Ohio State University, 1898. Graduate Student in Chemistry and Mathematics, 1898-'99. Laboratory Assistant in Chemistry, 1898-'99.
- JOHN WESLEY YOUNG.....883 East Main street
Fellow, and Assistant in Mathematics
B. Ph. Ohio State University, 1899.
- HAROLD WARNER BROWN.....242 King avenue
Fellow, and Assistant in Physics
B. Sc., Cornell, 1898. Present position since 1899.
- †HERBERT W. KENNEDY.....164 West Ninth avenue
Emerson McMillin Fellow
- SAMUEL WILLIAMSON COLLETT.....48 Woodruff avenue W
Fellow in Botany
B. Sc., Moore's Hill College, Indiana; M. Sc., Moore's Hill College, 1894; Teacher of Physiology and Chemistry, High School, and Normal College, Glidden, Iowa, 1890-'91; Professor of Natural Science, Taylor University, Upland, Ind., 1893-'96; Professor of Natural Science, Dakota University, Mitchell, South Dakota, 1896-'99.
- HERBERT CHARLES GORE.....185 West Ninth avenue
Fellow and Laboratory Assistant in Chemistry
B. S., University of Michigan, 1899.

† Resigned in January, 1900.

- CHARLES ARTEMUS GRATE.....1610 Highland street
 Fellow and Laboratory Assistant in Mechanical Engineering
 M. E., Ohio State University, 1898.
- GRACE L. PITTS.....245 East Gay street
 Fellow in Economics
- ALICE DUFOUR.....37½ Oak street
 Fellow and Assistant in Botany
 Ph. B., Defiance College, 1899. Student in Botanical Department O. S. U., 1898-'99.
- WILLIAM C. MILLS.....91 West Frambes avenue
 Curator of Archæology
 B. Sc. (H. and F.), Ohio State University, 1898. Curator and Librarian of the Ohio State
 Archæological and Historical Society. Museum and Library, Orton Hall, O. S. U.

CHANGES, 1900-1901

WITHDRAWN

Professor John Thomas Martin, Professor James M. Burns, Associate Professor Stella Elliott Canfield, Assistant Professor Herbert James Noyes, Assistant Professor Clair Albert Dye, Assistant Professor Edwin D. Shurter, Lecturer Faxon Franklin Duane Albery, Assistant Clark Wissler, Assistant John Ferguson Cunningham, Assistant George Washington Rightmire, Assistant Joseph K. Vosskuehler, Assistant Fred A. Fish, Assistant John B. Sanborn, Fellow and Laboratory Assistant Horace Judd, Fellow and Laboratory Assistant S. W. Collett, Fellow and Laboratory Assistant Alice Dufour, Fellow and Laboratory Assistant Donald A. Kohr, Fellow and Laboratory Assistant A. V. Bleininger, Fellow and Laboratory Assistant A. H. McIntire, Fellow and Laboratory Assistant C. A. Grate, Fellow and Laboratory Assistant F. J. Hale, Fellow and Assistant Benjamin Maag, Fellow and Assistant J. W. Young, Fellow and Assistant J. B. Parker, Fellow Edward L. Fulmer, Fellow David T. Keating, Fellow Grace L. Pitts, Fellow Emma L. Ball, Fellow William Cannan, Student Assistant J. F. Jeffrey, Student Assistant Charles F. Dowd, Emerson McMillin Scholar Wilbur E. Mann.

APPOINTMENTS

CAPTAIN GEORGE L. CONVERSE, U. S. A. (Retired).....	398 Oak street
Professor of Military Science and Tactics	
J. WARREN SMITH.....	.55 Cleveland avenue
Lecturer on Meteorology	
WALLACE S. ELDEN.....	
Assistant Professor of Classic Languages	
EDWIN E. NOBLES.....	.71 West Tenth avenue
Assistant in Drawing	
S. S. EDMANDS.....	
Assistant in Electrical Engineering	
S. E. RASOR.....	
Assistant in Mathematics	
HENRY DAVIES.....	
Assistant in Philosophy	
HARRIET BURR.....	
Fellow in Botany	
C. P. LINVILLE.....	
Fellow in Chemistry	
W. L. DUBOIS.....	.61 West Eighth avenue
Fellow in Chemistry	

- CHARLES F. KIMBERLEY.....225 Marshall avenue
Fellow in Chemistry
- *B. H. HIBBARD.....
Fellow in Economics
- MARY W. RICE.....844 Summit street
Emerson McMillin Fellow in Economics
- J. F. TRAVIS.....1621 Neil avenue
Fellow in Mathematics
- WILLIAM E. BOHN.....North Dormitory
Fellow in Rhetoric and English Language
- C. L. C. MOORE.....68 West Tenth avenue
Student Assistant in Mathematics
- W. E. DAVIS.....199 West Eleventh avenue
Student Assistant in Mathematics
- CLARA MAUD BERRYMAN.....
Associate Professor of Physical Education
- ALONZO H. TUTTLE.....
Instructor in American History
- SELDEN F. SYMSER.....
Fellow in Economics
- GEORGE W. FROST.....
Fellow in Mechanical Engineering
- CHARLES B. SAYRE.....
Fellow in American History
- N. O. FORD.....
Fellow in Metallurgy, Mineralogy and Mine Engineering

*Resigned.

CHANGES IN TITLES

SIDNEY AUGUSTUS NORTON,	Lecturer in Chemistry Emeritus Professor of Chemistry
WILBUR HENRY SIEBERT,	Associate Professor of History Associate Professor of European History *
CHARLES BYRON FREDERICK,	Assistant in Veterinary Medicine Assistant Professor of Veterinary Medicine
WILLIAM FINLEY LAVERY,	Assistant in Veterinary Medicine Assistant Professor of Veterinary Medicine
MAUD DOROTHY JEFFREY,	Library Assistant Assistant in Library
FREDERICK EDWARD KESTER,	Assistant in Physics Instructor in Physics
LUCY ALLEN,	Library Assistant Assistant in Library
ALBERT V. BLEININGER,	Assistant Director of the Department of Clay Working and Ceramics Laboratory Assistant, Department of Clay Working and Ceramics
CLAUDE B. GUITTARD,	Library Assistant Assistant in Library
*FRANK ORVILLE CLEMENTS,	Fellow and Laboratory Assistant in Chemistry Assistant in Chemistry
W. D. GIBBS,	Associate Professor of Agriculture Professor of Agronomy
JOHN W. DECKER,	Associate Professor of Dairy Husbandry Associate Professor of Agriculture
MELVIN DRESBACH,	Fellow and Laboratory Assistant in Anatomy and Physiology Assistant in Anatomy and Physiology
H. C. LORD,	Director of the Emerson McMillin Observatory and Associate Professor of Astronomy Professor of Astronomy and Director of Emerson McMillin Observatory
HERBERT C. GORE,	Fellow and Laboratory Assistant in Chemistry Assistant in Chemistry
EDWARD ORTON, JR.,	Director of the Department of Clayworking and Ceramics Professor and Director of the Department of Clayworking and Ceramics

* Resigned in January, 1900.

CORNELIA P. SOUTHER,	Assistant Professor of Domestic Art Associate Professor of Domestic Art
F. C. CLARK,	Associate Professor of Economics Professor of Economics
C. S. PROSSER,	Associate Professor of Organic Geology Associate Professor of Historical Geology and Acting Head of the Department of Geology
J. A. BOWNOCKER,	Associate Professor of Inorganic Geology Associate Professor of Inorganic Geology and Curator of the Museum
F. E. SANBORN,	Director of the Department of Industrial Arts Professor and Director of the Department of Industrial Arts
WILLIAM H. RENCK,	Assistant and Instructor in Pattern Making Instructor in Pattern Making and Founding
W. A. KNIGHT,	Assistant and Instructor in Machine Work Instructor in Machine Work
CHARLES P. KROWE,	Assistant and Forge Master Instructor in Forging
W. F. HUNTER,	Dean and Professor of Sales, etc Dean of College of Law and Professor of Law
J. H. COLLINS,	Lecturer on Federal Practice Professor of Law
J. A. SHAUCK,	Lecturer on Supreme Court Practice Professor of Law
G. W. KNIGHT	Professor of Constitutional Law and Private Corporations Professor of Law
E. B. KINKEAD,	Professor of Pleading, etc Professor of Law
W. H. PAGE,	Professor of Elementary Law Professor of Law
E. O. RANDALL,	Professor of Agency, etc Professor of Law
D. F. PUGH,	Professor of Equity Juris, etc Professor of Law
E. A. HITCHCOCK,	Associate Professor of Experimental Engineering Associate Professor of Mechanical Engineering
FRANK A. RAY,	Associate Professor of Mine Engineering Professor of Mine Engineering

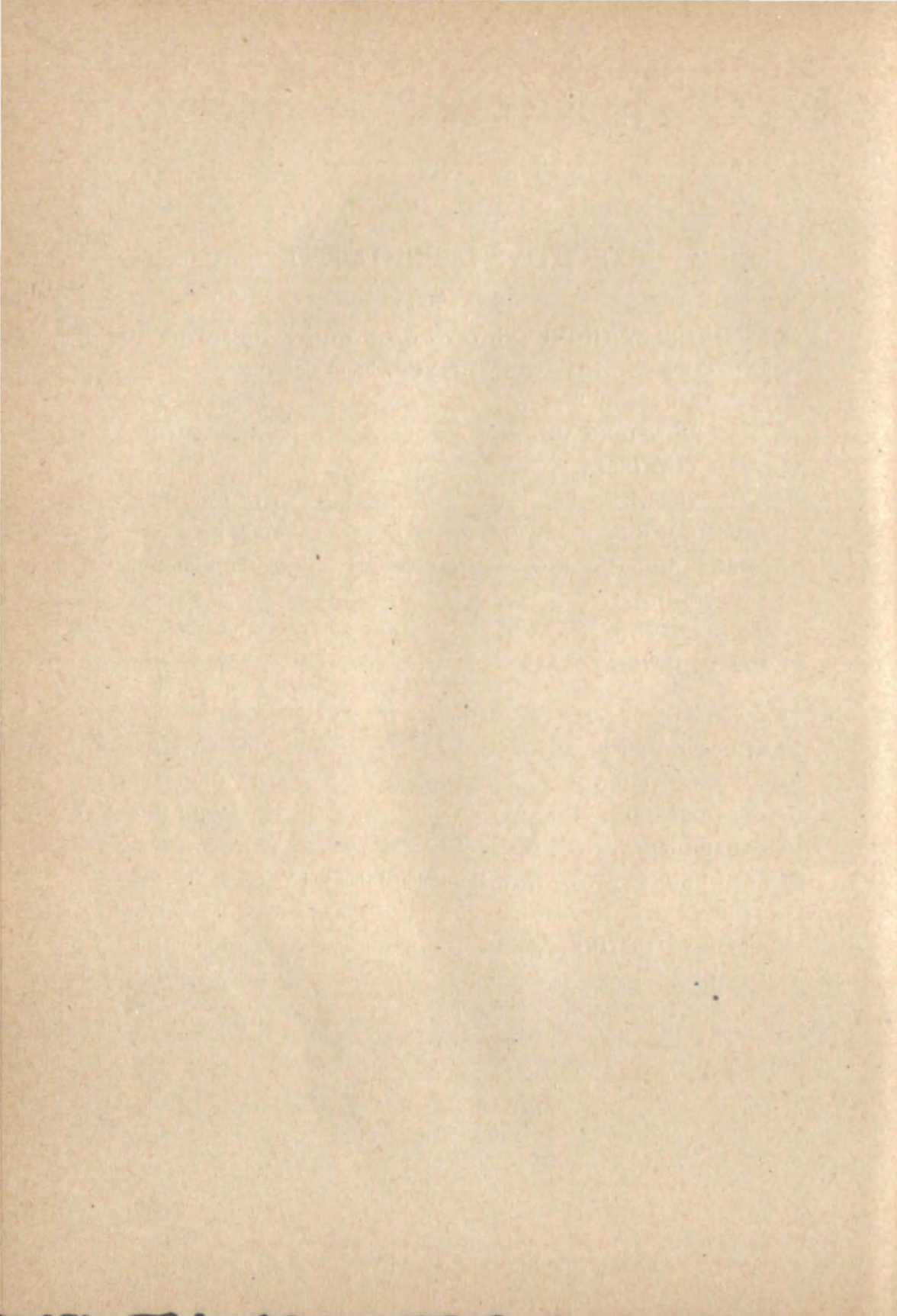
EXECUTIVE DEPARTMENT

1899-1900

WILLIAM OXLEY THOMPSON.....	President
ALEXIS COPE.....	Secretary Board of Trustees and Bursar
W. C. McCRACKEN.....	Chief Engineer
KATHARINE H. DUNCAN.....	Executive Clerk
EDITH D. COCKINS.....	Registrar
CARL E. STEEB.....	Accountant
CHARLES LOWE.....	Assistant Engineer
THOMAS BOUDE.....	First Fireman
W. E. CASE.....	Second Fireman
JAMES KELLEY.....	Lawnkeeper
BENJAMIN IRWIN.....	Watchman

JANITORS

ARTHUR CHANTLER.....	University Hall
HENRY CHANTLER.....	Orton Hall
G. A. GOODSPEED.....	Chemical Hall
JOHN H. BROWN.....	Hayes Hall
GEO. C. DENNEY.....	Horticultural Hall and Veterinary Hospital
D. D. GEREN.....	Gymnasium
WILLIAM WHITESTINE.....	Biological Hall
M. N. COOK.....	Townshend Hall



THE UNIVERSITY

OHIO STATE UNIVERSITY

HISTORY

The land grant made by the United States under an act approved by President Lincoln, July 2nd, 1862, provided that there should be granted to each State an amount of public land equal to thirty thousand acres for each Senator and Representative to which the State was entitled by the apportionment of the census of 1860. The proceeds under this act were to constitute a perpetual fund the capital of which was to remain forever undiminished and the interest of the same was to be inviolably applied by each State which should take and claim the benefits of the act to the endowment, support and maintenance of at least one "College where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such a manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Governor Tod, in November, 1862, brought the subject before the State Board of Agriculture and later to the attention of the Legislature. In January, 1864, Hon. Columbus Delano introduced a bill accepting the grant. This became a law February 9th, 1864, and pledged the faith of the State to the performance of all the conditions and provisions contained therein. In 1866, an act introduced by Hon. J. T. Brooks, was passed, which provided for the establishment of the Ohio Agricultural and Mechanical College, but the provisions were not carried into effect and a second act introduced by Hon. R. P. Cannon was passed in 1870 entitled "An act to establish and maintain an Agricultural and Mechanical College in Ohio." Under the provisions of this act the institution was located in Columbus and the Board proceeded to the organization of the college and the election of a Faculty of instruction, and the institution was opened for the reception of students on the seventeenth day of September, 1873.

In 1878 the legislature passed "An act to reorganize and change the name of the Ohio Agricultural and Mechanical College and to repeal certain acts therein mentioned." The act provided that the institution should be thereafter designated as "The Ohio State University." Up to this time but one appropriation had been made by the State for the support of the institution. With the reorganization came the larger and broader view of the State's relation to public education and since that time the Ohio State University has shared with other public educational institutions a more generous support by the State.

The governing body of the institution is a Board of Trustees, appointed by the Governor of the State and confirmed by the Senate, for terms of seven years, as provided in the law organizing the University. The original endowment has been supplemented, and the objects of the University promoted, by a permanent annual grant from the United States, under an act of 1890, by special appropriations of the General Assembly; and in 1891, by a permanent annual grant from the State, which grant was doubled by the legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish

ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture, engineering in its various departments, veterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the State it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

LOCATION OF THE UNIVERSITY

The University is situated within the corporate limits of the City of Columbus, two miles north of the Union Depot and about three miles from the State Capitol. The University grounds consist of three hundred and forty-five acres, bounded east and west by High Street and the Olentangy river, respectively. The western portion, about 235 acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow, and a few acres of primitive forest.

The grounds are laid out with care, ornamented with trees, shrubs and flower beds; and are so managed as to illustrate the instruction in Botany, Horticulture, Forestry, Landscape Gardening and Floriculture.

The University may be reached by either the North High street or the Neil avenue electric cars. Those wishing to go to the principal buildings of the University, to the residences on the grounds, or the Athletic field, should take a High street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Townsend Hall, Horticultural Hall and the Dormitories, will find the Neil avenue cars more convenient.

The University has thirteen buildings devoted to instruction, one Boiler House, one Power House, two Dormitories, six residences and some farm buildings. These buildings represent an investment for construction of about eight hundred thousand dollars. The equipment and apparatus amount to about one hundred and seventy thousand dollars. The land now occupied as a site with the farm is valued at one million five hundred thousand dollars.

BUILDINGS

UNIVERSITY HALL contains the Executive offices, the office of the Secretary of the Trustees, the assembly room (seating twelve hundred persons), four halls for literary societies, the Y. M. C. A. and King's Daughters' room, the Young Woman's League room and class rooms and laboratories for the departments of Economics, English Literature, German, Greek, History, Latin, Mathematics, Pedagogy, Political Science, Philosophy, Physics, Rhetoric and English Language, and Romance Languages. An electric passenger elevator connects all floors.

MECHANICAL HALL contains a room fitted up with cases for the care of models, instruments of precision, etc.; a room for instruction in laboratory mechanics and draughting, and laboratories with the engines, hydraulic plant, testing machines, etc.

BOTANICAL HALL has on the first floor the lecture room of the department of Botany. There are also an office, a store room, a dark room, and a private laboratory for Physiological Botany. On the second floor is the botanical museum, the main laboratory and the assistant's laboratory. Connected with this building is a large greenhouse and propagating house.

ELECTRICAL HALL devotes the first floor to the dynamo room. The floor of this room is of asphalt, laid on a solid concrete foundation. On the second floor

are a lecture and draughting room, a photometric room, a library room, and office, stock and locker rooms.

CHEMICAL HALL is now occupied by the departments of Chemistry, Mining and Metallurgy and Pharmacy. The department of Chemistry occupies the middle portion of the first floor and the middle and western portion of the second floor. The main lecture room has a seating capacity for one hundred and fifty students. The laboratory for introductory work and qualitative analysis has accommodation for two hundred and sixty-four students. There is also a special laboratory for qualitative analysis with accommodations for twenty-five students. The main quantitative laboratory accommodates fifty students. There is also an organic laboratory, a room for the preparation of experiments, a balcony accessible both from the lecture room and preparation room, a room for combustion work, a dark room for spectroscopic work, in addition to a number of smaller rooms used for private laboratories.

The departments of Mining and Metallurgy occupy the east end of the building. In the basement are the smelting furnaces, the assay laboratory, a room for rough work and store room for supplies. On the first floor is the lecture room of the professor of Metallurgy, with a seating capacity for forty; a laboratory with desks for sixteen students, a store room, a balance room, a private laboratory and an office. On the second floor is the lecture room of the associate professor of Mine Engineering, a draughting room, a room for instruments and an office.

The department of Pharmacy occupies the first floor and basement in the west end of the building, and has a lecture room provided for sixty students; a preparation room, a laboratory with desks for twenty-five students; a room for supplies, a balance room, a model drug store and a private laboratory.

ORTON HALL is designed for the permanent accommodation of the large geological collection of the University and for work and instruction in the department of Geology. A portion of it is occupied by the library and reading room. The building is two stories in height, with a high basement, is built of brick and faced with sandstone, and is fireproof throughout. At the right of the main entrance is the geological lecture room and professor's private room; at the left is the University library, reading room and librarian's private room. The central and rear portion is occupied by the geological and paleontological museums. The petrographical laboratory is located on the second floor. In the basement a room is used for work in geographical modeling, the finished models being afterward placed in the collection of such models in a room set apart for the purpose on the second floor. The basement accommodates also the museum of economic geology. A paleontological laboratory or working room is also provided on the second floor.

The greater part of the basement of Orton Hall is occupied as a laboratory by the department of Clay-working and Ceramics. This department is also accommodated with a large room on the first floor for recitation and exhibition purposes. In the rear of Orton Hall is a small brick structure used for the kilns of this department.

HAYES HALL is devoted to instruction in Industrial Arts, Drawing, Civil Engineering and Domestic Economy. On the first floor are two offices, the rooms of the department of Domestic Economy and two lecture rooms, the machine shop, the forge shop and the foundry. On the second floor are the carpenter and pattern shops and six large lecture rooms, with private rooms annexed.

The department of Drawing occupies the third floor for instruction in mechanical drawing and free-hand drawing and photography.

HORTICULTURAL HALL contains recitation rooms and indoor laboratories of the department of Horticulture and Forestry. An extensive greenhouse is attached.

THE VETERINARY HOSPITAL contains on the first floor a veterinary museum and library, a dispensary and two private rooms for the persons in charge. On the second floor are a class room, a bacteriological laboratory and a microscopical laboratory. The rear extension contains an operating hall and a room provided with stalls, cages, etc., for the care of animals under treatment.

THE EMERSON McMILLIN OBSERVATORY is the gift of Mr. Emerson McMillin of New York. The first floor is divided by a hall and stairway into two parts. The east wing contains an office, library, clock room and a large, well-lighted room for the students, furnished with tables, where they reduce their observations and keep the records of their work. The west wing contains the transit house, the dome and photographic dark room. The transit house is a light frame structure, so designed as to be kept as free as possible from heat radiated by any heavy walls of masonry. The dome is a wooden frame-work, covered on the outside with canvas. The rest of the building is of pressed brick, the foundation and second story being "rock-faced."

The equipment consists of a twelve-inch equatorial telescope, mounting by Messrs. Warner & Swasey, objective by Mr. Brashear, with a large and powerful spectroscope by Mr. Brashear. This instrument is adapted to use either one or two prisms or a grating, and is provided with a double set of objectives, one corrected for the visual and one for the photographic rays; a positive micrometer with a seven-inch circle by Messrs. Warner & Swasey; a combined zenith telescope and transit instrument of three inches clear aperture by Mr. G. N. Saegmüller; a sidereal clock by Clemens Riefler of Munich; a comparator by Carl Ziliss; a four inch portable equatorial by Alvan Clark; a chronograph by Warner & Swasey; sextants, chronometers, meteorological instruments, etc. In addition to the above, Mr. McMillin's gift provides for an excellent astronomical library.

TOWNSEND HALL is devoted exclusively to the instruction given in the College of Agriculture.

On the left of the entrance is the office of the Department of Agriculture and a private office, a stenographer's room and fireproof vault. Connected with the office on the south is an assistant's room, opening into a laboratory for advanced students. At the extreme south end of this floor is a large laboratory for student-work in soils and farm crops. Connected with this laboratory is a balance room, a store room and an instructor's laboratory. On the west side of the main corridor, and connected with the instructor's room, is a large class room opening into a preparation room with a dark room. This class room is fitted with all appliances for showing lantern slides of livestock, buildings, machinery, etc. On the same side of the corridor, and on the right of the stairway leading to the basement and second floor, are the class room and instructor's room for dairying. On the right of the main entrance is the department reading room. The north end of this floor is occupied by the museum with an attendant's room.

The north end of the high basement is occupied by the dairy department. This consists of a receiving room, a pasteurizing room, a store room, a refrigerator room, a lavatory, butter-making room, cheese-making room, two cheese-curing rooms and an instructor's room.

In the south end of the basement is a livestock room about forty feet square. One third of this room is occupied by raised seats, the remaining floor space being used for exhibiting and judging livestock. Connected with this is a room fitted with stalls for the temporary accommodation of livestock when needed for class exercises. The basement also contains soil storage room, bath room, toilet rooms, repair shop, locker rooms, bicycle room and janitor's room. A small detached building will furnish steam and power for the dairy department. Detached from the main building, but connected with the soil storage room by a

tramway, is a glass house for the study of soils and the experimental growth of plants.

The north end of the second story contains a large student laboratory for the department of Agricultural Chemistry, connected with an organic and analysis laboratory, a balance room, a store room and a private laboratory. The lecture room of this department is at the south end of this floor and will seat one hundred and sixty students on raised seats, with a preparation room adjoining. There is also in this floor a class room connecting with preparation room, store room and instructor's room, which is used (temporarily) by the department of Veterinary Medicine. There is also an extra class room, ladies' toilet and locker rooms and a hall for the use of the Townsend Society, designed to seat about two hundred persons.

BIOLOGICAL HALL is designed for the special accommodation of the departments of Entomology, Zoology, Anatomy and Physiology, and is fully equipped with all the latest and best apparatus for this work. It consists of a basement, in which is done all the work of preparation of subjects for the lecture tables and for the special laboratory work for the advanced students; the first floor, on which are lecture rooms, general and special laboratories, and private work rooms for the professor of Entomology and Zoology and his assistants; the second floor, similarly arranged for the work in Anatomy and Physiology; and a large wing, in which is the museum and a large lecture room. The building is fireproof throughout, and in design and general appearance is one of the most attractive on the campus.

THE GYMNASIUM AND ARMORY was first occupied in January, 1898. The drill hall and gymnasium floor is eighty feet wide by one hundred and fifty feet long. The roof is carried on curved steel arches, lighted from a clear story at the top. There is a running track around the entire room about twelve feet from the floor, back of which is a visitors' gallery seating about seven hundred persons. At the northwest corner of the floor is a stairway leading down to the men's locker and dressing room, while the young women go down a similar way at the southeast corner to their rooms. On the level with the main floor, near the main entrance at the south, is a large room for the use of the Commandant and his classes and rooms for the Director of the Gymnasium. Above the Commandant's room is the room for the officers of the University Cadet Corps.

The basement is very high and well lighted. On the young men's side are dressing and locker rooms, the bath room with shower and plunge baths, a bicycle room, a lecture room, the cannon room, the band room, and a large room, which is to be the home of the University Athletic Association. On the young women's side are the locker rooms and bath rooms—precisely like those provided for the young men—a bicycle room, lecture room and private office for the instruction in sanitation and hygiene for young women.

THE NORTH DORMITORY is situated at the northern limit of Neil avenue, and fronts Eleventh avenue. It is at the terminus of the Neil avenue electric car line. It is a plain structure of brick, and affords accommodation for sixty-four students.

THE SOUTH DORMITORY stands near Neil avenue within a few rods of the North Dormitory. It is also built of brick, and contains rooms for twenty students.

RESIDENCES. There are seven dwelling houses upon the University campus. Five of these are brick and two are frame structures. One is occupied by the President of the University, five by professors, and the seventh is the farm house.

ORGANIZATION OF THE UNIVERSITY

The Ohio State University is divided into six colleges, as follows:

The College of Agriculture and Domestic Science consists of those departments represented in the course leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry and Bachelor of Science in Domestic Economy, and in the Course in Dairying.

The College of Arts, Philosophy and Science consists of those departments represented in the courses leading to the degree of Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science; and in the Courses Preparatory to Law and to Journalism.

The College of Engineering consists of those departments represented in the courses leading to the degrees of Civil Engineer, Engineer of Mines, Engineer of Mines in Ceramics, Mechanical Engineer, Mechanical Engineer in Electrical Engineering, and Bachelor of Science in Industrial Arts, Bachelor of Science in Chemistry or in Metallurgy; in the Course in Architecture, in the Short Course in Clay-Working and Ceramics, and in the Short Course in Mining.

The College of Law consists of those departments represented in the course leading to the degree of Bachelor of Laws.

The College of Pharmacy consists of those departments represented in the courses leading to the degree of Bachelor of Science in Pharmacy, and in the Short Course in Pharmacy.

The College of Veterinary Medicine consists of those departments represented in the course leading to the degree of Doctor of Veterinary Medicine, and to a certificate of Veterinary Surgeon.

Each college is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that college.

LABORATORIES AND EQUIPMENT

AGRICULTURE

The equipment of this department may be divided along three general lines: the plant, the museum and the illustrative materials.

THE PLANT. This consists of a farm of about two hundred acres, a general farm barn, a horse barn, and several smaller buildings. The farm lies along the Olentangy river, and includes both first and second bottom land. On this farm are grown general farm crops in the rotation deemed best suited to the circumstances of the Department. At present a few experiments are conducted, the general idea being to conduct such experiments as will have the largest instructional value to the students who attend the College of Agriculture. The Ohio Agricultural Experiment Station continues to conduct here the elaborate fertilizer experiments with wheat, corn and oats, which it has been making on this farm during the past five years. Different species and varieties of farm crops are grown to some extent for the purpose of class illustration and instruction, and it is expected to enlarge this feature.

Specimens of the draft, coach and roadster type of horse are kept and used in the farm work. The Department manages a milk dairy; having a herd of about forty cows, composed of pure bred and grade Jerseys and Shorthorns.

The general farm barn contains a well arranged stable for forty cows, with underground drainage and sewage cistern, a milk cooling room, a silo, a roof cellar, a work-shop, with room for hay, grain and other foodstuffs.

THE MUSEUM. This contains a large number of samples of farm products in various forms and their by-products, such as soils, grains, grasses, wools, cotton,

forage plants and foodstuff. Milling and other processes are illustrated by samples of the various products of manufacture.

The museum contains Auzoux models, samples of tools and a considerable miscellaneous collection. The collections are intended primarily for student use and not for display.

ILLUSTRATIVE MATERIALS. These consist of charts, pictures and lantern slides showing results of experiments, representative and noted specimens of livestock, farm machinery, fences, buildings, etc. The Department has and uses constantly in the class room a Beseler double oxygen-ether stereopticon. The collection of several hundred lantern slides for this purpose is constantly receiving additions.

THE AGRICULTURAL LIBRARY. While not considered as belonging specifically to this Department, there is in the general library a fairly good collection of books and periodicals devoted to agriculture, a large use of which is required of the student.

THE LABORATORY OF SOIL PHYSICS is located on the second floor of Horticultural Hall, and is supplied with apparatus for the mechanical analysis of soils and for testing their physical properties. (*See also BUILDINGS — Townshend Hall.*)

ARCHITECTURE

This work is carried on in connection with the Department of Drawing. The facilities for this work consist of a large, well-lighted drawing-room for the designing and drawing part of the work, a recitation room specially fitted with stereopticon lantern to illustrate the lectures, several hundred lantern slides of typical specimens of architecture from all parts of the world, a collection of scale design drawings, a collection of specifications of buildings that have been erected, a collection of plaster ornaments used in architectural decoration and a well selected collection of useful books in the library. The City contains many buildings of interest to the architectural student, both in a completed state and in process of erection.

BOTANY

The general Botanical Laboratory occupies a part of the second floor of Botanical Hall. It is 23x33 feet, and is furnished with both movable and fixed tables. The latter are attached to the west and south walls near windows, suitably shaded. Water, gas and an evaporating hood are also provided. The laboratory is equipped with compound microscopes of the Baush and Lomb, the Leitz and other patterns; and accompanying each is a tray of tools and a case of reagents. There are more than fifty dissecting microscopes, also charts, and several minor pieces of apparatus for experiments in vegetable physiology. Three smaller rooms are also provided as laboratories for special work, as well as a dark room for photography. Other facilities for the illustration of the courses in botany, and for practical training in the same, are: A general herbarium, including flowering plants, ferns, mosses, fungi and algae; a state herbarium, a collection of fruits and seeds, valuable timbers, woods, grasses and various economic products of the vegetable kingdom; ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; and a greenhouse with a fair collection of native and exotic plants. (*See also MUSEUM — The Botanical Museum; and BUILDINGS — Botanical Hall.*)

CHEMISTRY

The laboratories of the department accommodate from three to four hundred students. Each laboratory is equipped with all the necessary conveniences as water, gas, electric lights, distilled water piped from a large still in the attic,

steam ovens, automatic air blasts, suction pumps, etc. The department is liberally supplied with the best apparatus and materials for both lecture room and laboratory work. Each student has his own desk with drawers and locker. All supplies are procured from the chemical store room which has always on hand a complete stock of all necessary materials. (See also BUILDINGS—*Chemical Hall*.)

CIVIL ENGINEERING

The facilities provided for the illustration of the courses in civil engineering and for practical training are as follows: One high grade and three ordinary transits, four leveling instruments, solar compass, prismatic compass, improved telescope compass, Abney hand level, level and stadia rods, sight poles, chains, tapes; twenty-six improved drawing tables with 30" by 36" top; Schroeder's models in stereotomy of roof trusses; large set of models of wooden joints; collection of photographs of bridges, both when finished and in course of erection; collections of strain sheets and shop drawings of bridges; new improved cement testing machines and outfit for making all kinds of cement tests; stone mason tools for working models out of plaster blocks; magic lantern and slides; collections of samples of building materials; calculating machines; sets of drawing instruments; blue print room with outfit; sets of tracings of standard structures from which each student may make a set of blue prints. The equipment is growing each year by the addition of materials purchased, presented, or made by students of the Department.

CLAY-WORKING AND CERAMICS

The University is the first, and at this time the only institution in the United States offering special facilities for the study of clays, clay-working, and the chemical technology of the ceramic art. The facilities of the Department comprise: 1st. A convenient chemical laboratory, specially designed and equipped for the analysis and decomposition of silicates. Provision has been made for the use of hydrofluoric acid with safety, and the platinum ware has been made to order with this purpose in view. 2d. A complete mechanical outfit for the preparation of clays for pottery manufacture and the production of the ware itself, of any grade from earthen wares to porcelain. The machinery is of the latest types and comprises all important varieties in use for grinding, tempering, washing, filtering and molding. 3d. A similar plant for the manufacture of brick, tiles, pipes and hollow goods. The machinery here is of full size and samples up to a ton in weight can be received and transformed into the finished article by any or all of the standard methods in commercial use. The power for this purpose is derived from a fine electric motor, driven from the University power plant. 4th. A kiln house, equipped with a kiln in which several hundred bricks, or an equivalent quantity of sewer-pipe, stoneware, or pottery can be burnt. The fuel is intended to be coke, except in special cases where the fuel available for burning clay wares is to be made the subject of test. There is also provided a crucible melting furnace and a muffle furnace for testing glazes. A muffle kiln of large size for burning pottery, glazed ware and decorated wares has recently been put into operation. 5th. A ceramic museum, containing a fine collection of American pottery and clay products of every class, is in process of installation. 6th. A library of the best literature on the subject, mainly German but containing a few English and French works, and the trade periodicals. (See also BUILDINGS—*Orton Hall*.)

DOMESTIC ECONOMY

The Department of Domestic Economy (for young women) will secure for the course all that experience and observation may suggest. At present it has a large

kitchen, with dining room adjoining, each fitted with the latest and best appliances for the work undertaken. About a thousand dollars has been expended to make this department entirely practical, and to permit its instruction to be as thorough and as scientific as that of any other department in the University.

DRAWING

The Department occupies the entire third floor and one room in the basement of Hayes Hall, and is provided with the following equipment for the illustration of the work in drawing and for the practical training in same:

For freehand drawing, water color and oil painting:—A large studio thirty-five by eighty feet, specially arranged and provided with adjustable tilting tables and easels, a well selected collection of pencil, pen and ink, charcoal and color specimens of work, wooden models of geometric forms, plaster-casts of ornaments, flowers, fruit and the antique.

For clay-modeling:—A specially arranged and equipped studio twenty-six by thirty-two feet for modeling in clay and casting in plaster, consisting of modeling stands, moisture box, casting table, modeling tools of wood and steel, stove and vent-hood for the preparation of gelatine molds and lockers.

For mechanical drawing and mechanical and architectural designing:—A large, well lighted room forty by eighty-five feet, provided with O. S. U. drawing tables (30" by 36" tops), a set of Schroeder models, a collection of shop drawings and facilities for blue-printing.

For photography:—A well arranged and equipped dark-room, printing apparatus, copying camera, six view cameras, lenses of long and short focus, tele-photographic lens, shutters for instantaneous exposures and an excellent outfit for photo-micrography.

In addition to the above, the library contains a well selected collection of books pertaining to the work of the Departments. (See also BUILDINGS—*Hayes Hall*.)

ECONOMICS AND SOCIOLOGY

The University, through the efforts and generosity of its friends, is possessed of a unique equipment for study purposes in these lines. This equipment comprises a large collection of railroad, municipal and school bonds; of stocks of all kinds; of letters of credit, drafts, foreign bills of exchange, bills of lading, checks, enclosures, statements, insurance policies, trust certificates, notes, mortgages and all the necessary forms of business paper; also collections of coins illustrative of various periods in our monetary history, foreign coins, and scrip; also sets of maps and charts and a Kiepert-Commercial Globe 80 cent. in diameter. Ample facilities for statistical work are provided and a seminary room set apart for the use of laboratory material, documents, etc., is always open to advanced students. It is the policy of the Department to make the statistical investigations and research work of advanced students contributory to the permanent equipment of the Department, thus enriching the facilities from year to year with material of scientific and pedagogical value.

ELECTRICAL ENGINEERING

The Electrical Laboratory affords very good facilities for practical experimental work with dynamo machinery and other electrical apparatus. The dynamo equipment consists of twenty-five machines of various makes and sizes from 40 H. P. down; aggregating over 200 horse power. These include direct and alternating current generators, polyphase motors, arc and incandescent lighting generators, railway and station motors and unipolar dynamo. The latter, with an alter-

nating current generator and a 2-phase motor, were built by the students; it being the policy of the Department to build as much of its apparatus as possible. There are also a number of transformers of different makes, including one for welding,—built at the University. Arc lamps of different styles, a 10-kilowatt-hour storage battery, condensers and resistances, and magnetic testing apparatus also form part of the equipment. The list of measuring instruments is quite complete, and includes a standard Weston voltmeter and eleven other Weston volt and am-meters, also four Kelvin static voltmeters, five dynamo-meters, one watt-meter, three galvanometers and a dozen other am-meters and voltmeters of different makes. A telephone laboratory—with apparatus for comparative tests, a variety of transmitters and receivers, and lines running to another building, has been in use for two years. Photometry is given at present in the Physical Laboratory, where the equipment in this line is excellent. Power for running the dynamo laboratory is supplied by three induction motors from the University Power Plant. This latter is a model 2-phase plant, and the electrical part of it has been for the most part installed by the students of the Department. The repair and maintenance of this plant is done by the students, who receive compensation for the time so spent.

GEOLOGY

The University is able to present unusual advantages for the study of Geology. By an act of the Legislature it has been put in possession of all the collections made by the late Geological Survey, and these collections have been supplemented by valuable additions of fossils and minerals from various sources. The State collection embraces a very complete representation of every geological formation shown in Ohio. In its new and ample quarters the Department offers exceptionally good opportunities for work in the lithological, petrographical and modeling laboratories. (See also MUSEUMS—*the Geological Museum*; and BUILDINGS—*Orton Hall*.)

HORTICULTURE AND FORESTRY

Among the facilities provided for the illustration of the courses in horticulture, and for practical training in the same, are: (1) a collection of horticultural tools for budding, grafting, pruning, etc.; (2) an orchard, containing well-selected varieties of the apple, pear, cherry, plum and quince; (3) a small vineyard, containing numerous varieties of the grape; (4) a garden of small fruits, containing all the best varieties of the strawberry, raspberry, blackberry, currant and gooseberry; (5) a vegetable garden, with forcing houses, cold frames, experimental plats, conveniences for irrigation, etc.; (6) small nursery and forest tree plantations, with practice rows of budding, grafting, pruning and training; (7) ornamental grounds and woodland, planted with a large variety of evergreen and deciduous trees and shrubs; (8) a greenhouse, with a fair collection of native and exotic plants; (9) a collection of preserved natural specimens, and models of fruits, seeds, woods, etc.; (10) a laboratory fairly well equipped with balances, charts and other appliances for study and research. (See also MUSEUMS—*the Botanical Museum*; and BUILDINGS—*Horticultural Hall*.)

MECHANICAL ENGINEERING

The greater part of Mechanical Hall is devoted to laboratory purposes.

The south laboratory is used for applied mechanics and for gas engineering. Here are located the machines for testing the strength and elasticity of engineering materials, and recording their physical properties automatically and autographically. Oils are tested as illuminants and as lubricants. Belts and pulleys are tested for their slippage, friction and horse-power transmitted. The gas engine plant has three engines, representing gas and gasoline, three methods

of ignition, and fly ball and inertia governors. The air is supplied by a fan through a large meter. Temperatures and pressures of air, gas and water are measured. The fresh and burnt gases are analyzed and their heating values determined by a calorimeter. The power is measured at both the indicator and the brake. The laboratory machine shop and tool room are in this room.

The north laboratory is used as a steam engineering and hydraulic laboratory. Four 35-horse-power engines give facilities for testing single and duplex condensing or non-condensing, simple or compound, throttling or automatic cut-off engines, using either a jet or a surface condenser. Pressure and vacuum gauges are calibrated. Indicator springs of five makers are tested either cold or hot. Five kinds of calorimeters determine the moisture in steam before and after passing three different separators. Injectors are tested for lift, quantity, pressure and steam consumption. Steam pumps of six makes, ranging to 800 gallons per minute capacity; two centrifugal and a rotary pump, enable tests of pumps to be made and deliver water at pressures below 150 pounds to two stand-pipes, which in turn supply turbine and cascade, and Pelton water wheels, and enable experiments to be made on the flow of water through orifices, pipes, valves, etc. Three cisterns, provided with a variety of weirs up to five feet wide, give practice in measuring flowing water. A Venturi meter and a Pilot tube are also used. Ericsson and Rider hot air engines are tested. A Rife hydraulic engine, a Humphreys ram, Gem and Eureka water motors, and a pulsometer, are included in the hydraulic apparatus, all of which are connected and prepared for complete tests.

A complete set of Westinghouse air-brake apparatus, a blower and a ventilating fan, enable experiments to be performed in the flow of air. They are supplemented by tests of the heating and ventilating plants in the buildings of the campus.

In addition to the apparatus and equipment of the power plant of the University the power house at Townshend Hall contains a horizontal, return tubular boiler, two steam engines and an ammonia refrigerating machine, making the facilities on the campus for testing quite complete. Machinery, apparatus and appliances are continually being presented, built or purchased, and the student is given an opportunity to test everything under practical conditions of operation. Besides the laboratory facilities, opportunities frequently arise to test machinery, engines or boilers in the city, and in these tests the students take part.

METALLURGY

The metallurgical laboratory has all the appliances for the most modern methods of technical analysis as practiced in iron and steel laboratories, including gas analysis. A furnace room in the basement is fitted for gold and silver assaying, with improved muffle and crucible furnaces.

The lecture room in metallurgy has arrangements for projecting photographs of machines, mines and furnaces, for class illustration, and there is a large collection of such views. There is a photographic room with blue-printing facilities, where students learn to make copies of the drawings used in illustrating the lectures.

A collection of minerals and rocks with a large set of rock sections is provided for illustrating the mineralogy, as well as sets of blow-pipe apparatus for the students in determining mineralogy. (See also BUILDINGS—*Chemical Hall*; and MUSEUMS—*The Geological Museum*.)

MINE ENGINEERING

The Department is equipped with all of the latest improved instruments and apparatus used in mine engineering; surveying and the study of mine ventilation.

There is a collection of models of mine machinery and supplies, to which additions are being made which are valuable as illustrations. The draughting room is large; well lighted and provided with a desk for each student, where he is personally taught map making and the platting of actual surface and underground surveys; the making of tracings of drawings and how to make blue-prints. He is also taught the proper methods of keeping notes and all records necessary to an efficient engineers' office. The students are given practical experience by making actual surveys of coal mines and in working up their notes complete in all of the necessary details. The students are also taught how to make working drawings, plans, estimates and specifications of mining operations and equipment.

The lecture room has arrangements for projecting photographs of machines, mines and mine equipment, for class illustration, and there is a collection of such views. Also photographic room with blue-printing facilities, where students learn to make copies of the drawings made by themselves and those used in illustrating the lectures.

PHARMACY

The facilities provided for illustration of this work and for practical training are as follows: The apartments assigned to this work occupy the west end of the Chemical Hall, first floor and basement. The lecture room will accommodate sixty students, and is provided with a large lecture table and supplied with gas and water, and other conveniences for experiment. About the walls are arranged cases in which are exhibited rare and costly chemicals, curious drugs, and high-grade pharmaceuticals. Adjoining this room is the preparation room and store-room, where the supplies and apparatus and material are kept, and where the apparatus for experiment and illustration before classes is prepared. Also adjoining this room is the professor's private laboratory. The main laboratory has desks for thirty-five students, each one provided with gas and water, and sufficient storage space for material and apparatus. The laboratory is furnished with apparatus for distilling, and reclaiming, with mills, balances, drying closets, steam vaporizers, hoods and other special apparatus for pharmaceutical work. Opening into the laboratory is the drug store. This drug store is complete, and is in itself a cabinet of official drugs, and all preparations thereof. It is provided with a prescription desk and all apparatus adapted for training in prescription work. Adjoining the laboratory is the reading room, where are kept the various pharmaceutical journals, the dispensatories, and many books of reference. Also adjoining the main laboratory is the balance room, which is well provided with analytical balances, specific gravity balances and microscope, all of which are intended for higher pharmaceutical work.

In the reading room is also a cabinet of crude drugs, which have been classified and numbered but bear no name. This cabinet is adapted to the study of pharmacognosy.

In addition to the foregoing equipment, the Department is possessed of an extensive range of apparatus, by means of which any branch of work in pharmacy can be successfully pursued. The Department is complete in all its details, and affords unexcelled opportunity for the study of pharmacy. (See also BUILDINGS—*Chemical Hall*.)

PHYSICS

The Department has an excellent equipment of apparatus, to which additions are constantly being made. The apparatus includes a large collection of pieces for illustration of the general lecture room work, but is principally chosen for accurate measurement in the laboratory. A set of standards of length, capacity and mass, sent under the act of Congress supplying such sets to the several agricultural

colleges, is in the possession of the Department. The pieces are copies of the United States standards made by the Coast Survey at Washington.

Among the principal pieces of apparatus are a dividing machine by Fauth & Co.; chronometers by Parkinson & Frodsham and by Negus, the latter a break-circuit; a chronograph by Fauth & Co.; a Hipp's chronoscope; cathetometers by Salleron and by the Geneva Society, the latter an exceptionally fine instrument; Regnault's apparatus for vapor tension, for expansion of gases and for specific heat; Melloni-Tyndall apparatus for radiant heat; standard thermometers by Baudin and others; Rutherford and Rowland, different gratings; Rowland's spectrum photographs; spectroscopes by Brashear, Browning, Apps and others; Salleron's complete apparatus for projections in polarized light; lanterns for projections by the lime light and the arc light; a variety of sound apparatus from Koenig; portable and quadrant electrometers; Kelvin galvanometers of high and low resistance; Weidemann, Kohlrausch and other galvanometers; standard resistance coils, with Cavendish laboratory certificate; several sets of resistance coils and bridges; a Kew magnetometer; Kelvin standard balances; Weston ammeters and voltmeters; standards of self-induction; standard battery cells; photometric standards and photometers; X-ray apparatus, etc.

Under the laws of Ohio, the professor of physics is *ex officio* State Sealer of Weights and Measures, and all of the standard weights, measures and balances received from the United States government are in the rooms of the Department.

PSYCHOLOGY

The facilities provided for the study of anatomy, bacteriology, histology and physiology are excellent. The laboratory is supplied with skeletons, papier-mache manikin, and many models, including models of the eye, ear, larynx, etc. The apparatus of the Department for work in bacteriology and physiology is of the best and most approved construction, and is adapted to the accurate investigation of bacterial forms, as well as to the thorough performance of the fundamental physiological experiments. Myographs, spectroscopes, microscopes and the necessary chemical outfit are also provided. For work in histology the equipment includes twenty-four individual tables for student experiments, each table being supplied with a good microscope, microscopical accessories, microscopical reagents; and for advanced work, the needed apparatus for instruction in the various methods of hardening, staining, imbedding, section-cutting and injection. The laboratory also has excellent microtomes, imbedding baths and other essentials of a histological outfit. The equipment of the laboratory makes it possible to offer a large range of work for the choice of students in advanced courses. (See also BUILDINGS—*Biological Hall*.)

PSYCHOLOGY AND EDUCATION

The psychological laboratory occupies three rooms on the fourth floor of University Hall and is reasonably well equipped for work in physiological and experimental psychology and for research in related educational lines. For the study of motor processes and development the most improved form of ergograph with complete sets of myographic, chronographic, dynamometric and pneumatic recording appliances, has been provided. A complete outfit of apparatus for the study of sensation, memory and association make it possible for students of education to acquire methods of exact observation of the various mental and motor processes involved in school work. Provision has also been made for work in comparative psychology.

SHOPWORK

The shops, which occupy the north wing of Hayes Hall, afford excellent facilities for instruction in both the practical details and the underlying principles of carpentry, pattern-making, forging, moulding, foundry work and machine work.

The carpenter and pattern shop is equipped with twenty-five benches with complete sets of carpenter tools for each and a large number of special tools for general use, twenty-three pattern-makers' turning lathes with cupboards containing the necessary turning and pattern-making tools under each, a pony planer, a buzz-planer, a circular rip and cross-cut saw, a scroll saw, a trimmer and a power grindstone.

The forge shop is equipped with twenty stationary forges with anvils and tools for each, a heating forge, a portable hand forge, a foot-power hammer, a blacksmith's drill and a punch, shear and bar cutter. The blast for the forges is furnished through underground piping by a 45" Buffalo pressure blower, and the smoke is removed by a 55" Buffalo exhaust fan overhead. Both of these fans are driven by a 15-horse-power electric motor.

The foundry is equipped with a 24" Calliau cupola, the blast for which is furnished by a 30" Buffalo blower; two brass furnaces, one 16 inches in diameter and the other 20 inches in diameter; a core oven, benches for iron and brass moulding, core making and cleaning of castings, a space for floor moulding 30 feet by 40 feet, besides all the necessary moulding tools, flasks, crucibles, ladles, tongs, etc.

The machine shop is driven by a 30-horse-power electric motor from above, and is equipped with the following tools: Twenty-eight benches for vise work with complete sets of tools, eight speed lathes, sixteen engine lathes, two planers, two shapers, a milling machine, an upright drill, a sensitive drill, grinding machines for both plane and cylindrical surfaces, tool grinders, emery wheels, etc. This machinery is furnished with all the necessary tools, and the tool room is equipped with full sets of drills, taps, dies, milling cutters, standard plugs, gauges, threads, etc., micrometers and a great variety of special tools. (See also BUILDINGS—Hayes Hall.)

VETERINARY MEDICINE

The Veterinary Hospital affords excellent facilities for the treatment and care of animal patients, and also gives the students the opportunity to become practically familiar with the diseases to which our domesticated animals are subject. It contains box stalls, stalls for cold water applications, a large and well lighted operating hall and a special ward for dogs. The front part of the Hospital contains a lecture room, a museum of anatomical and pathological preparations, a drug dispensary and an office. In the museum are skeletons of the horse and ox, a complete manikin of the horse, papier-mache models of various anatomical parts, pathological specimens preserved in alcohol, etc.

In the library are choice collections of works in veterinary medicine and allied sciences and also copies of the leading veterinary periodicals.

The College is well equipped for surgical work. Instruments of the latest and most approved makes are kept in the instrument room for use in operations.

In the daily clinics not only are horses and dogs presented, but also the meat-producing animals from the barn, near the College.

The bacteriological laboratory in the biological department is supplied with apparatus of the most modern and improved construction, the microscopic appliances being adapted to the most accurate work in bacteriology. (See also BUILDINGS—The Veterinary Hospital, Biological Hall.)

ZOOLOGY AND ENTOMOLOGY

Instruction in this department is largely by the laboratory method with lectures and use of text or reference books, the effort being to lead the student to observe and think for himself. The various courses are intended to provide instruction in the elements of the science, familiarity with methods of study and investigation, and opportunity for special research involving field, laboratory, museum and library work. The adjacent fields, wood, lake and river; the various well equipped laboratories, extensive collections and libraries furnish excellent opportunities for every phase of the study.

The Department occupies the first and third floors of the fine new Biological Hall providing two lecture rooms, one general and five special laboratories, museums, offices for professor and assistants, besides room for storage, workshops, aquaria, cold-storage, photography, etc. The laboratory equipment includes microscopes, microtomes, incubators, injectors, etc., for most approved methods of work in morphology, embryology and neurology. The collections include a fine series of skeletons, a number of large mammals, series of the birds of Ohio, of the birds of North America, of Ohio fishes, of mollusks and especially rich collections of insects particularly in Odonata Hemiptera and Diptera. (See also THE MUSEUMS—*The Zoological Museum, Biological Hall.*)

The Lake Laboratory maintained at Sandusky and open during the summer vacation offers courses of instruction and exceptional opportunities for original investigation in a very interesting and delightful locality. (See Lake Laboratory.)

THE LAKE LABORATORY

The University maintains a lake laboratory during the summer vacation at Sandusky where it occupies a convenient building, the former Hatchery building, 22x26 feet located by the city water works and close to the waters of the bay and convenient to good boarding places.

It has good facilities in the way of boats, tables, aquaria, collecting appliances, while microscopes, reagents, etc., are fully supplied from the home laboratory.

It offers for the coming season courses in botany and zoology outlined below, and also opportunities for special research in any branch of biology. The professors of the departments of Botany and Zoology and Entomology with their assistants will constitute the staff of instruction.

The courses will be open to students and teachers generally and students of the University may receive credit for courses equivalent to University courses.

Investigators engaged upon special problems relating to the fauna or flora of the region are given the privilege of the laboratory without charge but are expected to furnish their own microscopes or other special apparatus unless otherwise arranged. For the courses of instruction, a fee of twenty dollars will be charged which will cover all expense of instruction, laboratory supplies and use of boats and admit to two full courses of eight weeks.

COURSES IN ZOOLOGY

- (a) Laboratory and field courses including dissection of type forms, aquaria and field studies with instruction in collecting and preparing material for laboratory use and permanent collections. Special attention will be devoted to fishes and their food supply.
- (b) Advanced courses in Invertebrate Morphology or Embryology.
- (c) Special courses in Entomology, field and laboratory work.

(d) Special course in Ichthyology devoted particularly to the lake fishes, their habits and food supplies.

COURSES IN BOTANY

(a) Laboratory and field courses including a study of type forms. The course will consist of collection trips in the field where the common species of each class are found, classification of familiar forms, study of structure and special parts of interest in connection with each group, with methods of preserving and mounting for immediate use or permanent preservation.

(b) General Botany consisting largely of Morphology and Ecology.

(c) Laboratory course; the work to be arranged.

For further information write for special circular on Lake Laboratory.

THE MUSEUMS

THE GEOLOGICAL MUSEUM of the University has been collected and arranged with reference to instruction rather than to display. The basis of it is a large and comprehensive collection of the rocks, fossils and economic minerals of Ohio. The collection embraces the following named series:

(a) An excellent representation of the leading divisions of the geological scale of the State, so far as it can be illustrated by rock specimens. The specimens represent the leading phases of each formation, and in many cases carry the characteristic fossils of the horizons from which they are derived.

(b) A collection of the animal and vegetable fossils of the rocks of Ohio. This series includes a large majority of the described fossils of our formation, and in the number are many type specimens. While all the ages of our geological history are well represented, the collection of the Upper Silurian and Devonian animal fossils is particularly rich and complete. A remarkably fine series of coal plants is also included in the museum. The list of fossils has been greatly extended in the number of species and individuals by the recent purchase of the collection of Mr. Henry Moores, of Columbus.

(c) The economic minerals of the State are also shown to excellent advantage in the museum. The coals, petroleums, iron ores, clay and building stones produced in Ohio are represented in large collections. Many of the specimens upon which chemical examinations or physical tests have been based in the work of the geological survey of the State are included here.

(d) Petrographical collections: These collections were selected with a view to their use in petrographical instruction, and embrace the Hawes collection, the Krantz collection and the Rosenbusch complete series of typical rock specimens from important centers abroad. These hand specimens are supplemented by two series of thin sections, including Voigt and Hochgesang's collections of typical rocks and of the petrographically important minerals.

In addition to the collections above described, the museum contains a great deal of valuable material in the line of general geology and mineralogy. Among other things it includes several valuable suites of ores and many fine mineral specimens.

There also belong to the museum a number of geological casts, models and maps. In this series are included a relief map of the State of Ohio, and also the models of the basins of the Atlantic ocean and Caribbean sea, prepared under the supervision of the United States Coast and Geodetic Survey.

The catalogue of the museum contains more than 10,000 entries; but as only one number is as a rule given to a fossil or a mineral species, the individual speci-

mens make an aggregate list of many thousands in addition to the catalogue list, and probably double this list.

The skeleton of a mastodon, one of the extinct elephants of Ohio, has recently been presented to the museum by N. S. Conway, of Catawba, O., on whose farm it was found. It has been mounted by Prof. H. A. Ward, of Rochester, N. Y., and proves to be one of the largest in the country.

The museum also has a mounted skeleton of *Megalonyx Jeffersonii*, one of the great ground sloths. This specimen has the distinction of being the first and thus far the only mounted skeleton of this animal in the world. The bones were discovered by Abraham Drushell and others in a swamp in Berlin township, in Holmes county, O., in 1890. They were mounted in Ward's Natural Science Establishment, Rochester, N. Y. The entire outlay involved in the purchase of the bones and in mounting them was borne by Mr. Emerson McMillin, of New York.

THE ZOOLOGICAL MUSEUM is located on the ground floor of the wing of Biological Hall. The foundations of a zoological museum have been laid and the work begun on a generous plan. Every effort is being made to secure and preserve excellent specimens in all groups of animals. Not only the adult animals are preserved but the preparatory stages as well, their work and architecture, in fact all that can illustrate the life-history and habits.

Among special features are the Wheaton collection of birds of Ohio, numbering about 1,000 skins; a collection of North American birds, about 1,500 skins, representing very fully the North American fauna; a number of fine specimens of larger mammals, moose, hippopotamus, deer, tiger, peccary, lion, tapir, etc., most of which have been generously donated by Sells Brothers; a collection of about 3,500 mollusc shells; a fine series of Ohio fishes; numerous reptiles, amphibians, etc.

There is an excellent series of skeletons, crania and alcoholic material for courses in comparative anatomy.

The collection of insects is being rapidly enlarged and the purchase of the Kellicott collection of Odonata makes it especially rich in that order.

Professor Osborne's private collection of Hemiptera is deposited in the Department and available to students for comparison and study.

THE BOTANICAL MUSEUM occupies the second floor of Botanical Hall. It contains the University herbariums, both general and state, also Professor Kellerman's private herbarium of over 20,000 specimens deposited for use in the Botanical Department; a complete collection of the native woods of Ohio; a collection of the seeds and fruits of plants; a collection of native medicinal plants; a general collection of vegetable products, including seeds, textile fibres, coloring substances, etc., illustrating economic or applied botany.

THE AGRICULTURAL MUSEUM. For a description of this museum, see BUILDINGS—Townshend Hall.

THE ANATOMICAL AND PATHOLOGICAL MUSEUM. For a description of this museum, see Laboratories and Equipment, Veterinary Medicine.

THE MUSEUM OF CLAY-WORKING AND CERAMICS is now in process of formation. Some excellent specimens of ceramic products have already been collected, and efforts are being made to increase the collection.

ARCHAEOLOGIC COLLECTION. Orton Hall now contains the second best archæologic exhibit in the Ohio Valley, the total number of specimens owned by the Ohio State University, the Ohio State Historical and Archæological Society and by private individuals, amounting to 46,200. Although the Museum is but three years old, it has shown a remarkable growth.

Field work has been carried on in various parts of the State during the summers of 1894, 1895 and 1896, and as a result the contents of more than eighty

mounds, graves and village sites are now on exhibition. The chief exhibits, illustrating the life of ancient tribes are from Fort Ancient in Warren county, from the mound graves of the lower Scioto and from the Muskingum Valley. It is considered that in Ross county aboriginal culture reaches its highest development in the whole Ohio Valley. This fact is well attested by the presence of numerous copper objects, effigy pipes, fine ornaments and ceremonials, pottery, delicate work in polished stone and flint implements, etc.

The collection from the valley of Brush Creek and along the Ohio itself, and from the hill regions of Ohio, show a much lower grade of culture. Careful comparison of the work of man from these localities is exceedingly interesting.

There is an exhibit from Flint Ridge, illustrating the manufacture of arrow and spear heads. The Museum contains nearly 150 specimens of pottery from Missouri and Arkansas, many of which are effigies of animal, bird and human form.

The founders of the Archæologic Museum are arousing public interest in the preservation and study of Ohio antiquities; and by means of exchanges, lectures and personal solicitation, the growth of the collection is considerable.

LIBRARIES

THE UNIVERSITY LIBRARY

The University Library is located in the east end of Orton Hall. The system of department libraries prevails to a limited extent, small collections of books specially needed in connection with laboratory and class room work being deposited in several departments.

During term time the Library is open six days in the week, legal holidays being excepted. From Monday until Friday the hours are from 7:30 a. m. until 9:30 p. m.; Saturday from 7:30 a. m. until 4 p. m.

The management of the Library is vested in a Library Council which is composed of the President, the Librarian and the Deans of the six colleges.

STATE LIBRARIES

Students are privileged in being near the two State libraries.

The Ohio State Library numbers about 70,000 volumes and is a circulating one for all the citizens of Ohio. It occupies a room in the State House.

The State Law Library, also in the State House, is the largest and most complete law library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States and State reports, statutes and digests. The important legal periodicals are on file.

CITY LIBRARIES

The students of the University, as residents of Columbus, have access to the City Library and the Public School Library, under the usual regulations. The City Library numbers 28,000 volumes. It has specially pleasant reading and reference rooms. The Public School Library numbers 35,000 volumes, and is a well selected collection of books. Students will find both libraries valuable in supplementing the University Library.

SPECIAL LIBRARY IN ECONOMICS

The University possesses a special library in Economics consisting of several hundred volumes and pamphlets. Over thirty financial, commercial and trade

journals are received and filed regularly. The business men of Columbus have contributed over \$1,200 for the equipment of this commercial library.

SPECIAL LIBRARY IN ZOOLOGY AND ENTOMOLOGY

The Department of Zoology and Entomology possesses a special library the nucleus of which was the scientific library of the late Prof. Kellicott which was generously donated to the Department. This has been increased by gifts of special papers by a number of the leading investigators of the country and will be enlarged as rapidly as possible. The private library of the professor is also accessible for reference.

AIDS TO MORAL AND RELIGIOUS CULTURE

Chapel services are held daily (except Saturday and Sunday) at the University, at which the attendance of all instructors and students is expected. The services consist of singing, reading the Scriptures, and prayer.

One of the most commendable organizations in the University is a branch of the International Young Men's Christian Association, organized in 1883. It has a large membership and steadily grows in influence. Services are held weekly. New students are made cordially welcome, and young church members will here enjoy Christian influences and fellowship in college life. A University Circle of the International Order of the King's Daughters and Sons holds its meeting once a week, and includes in its membership a majority of the women attending the University. A club for the study and practice of philanthropy has recently been organized by the King's Daughters.

An effort is being made, to complete, by subscription, the fund which was begun two years ago by students, alumni and professors, for the erection of a building to accommodate the student organizations of the University.

LITERARY AND OTHER SOCIETIES

The Alcyone Literary Society, open to young men, was founded in 1874; the Horton Literary Society, open to young men, was founded in 1875; the Athenæan Literary Society, open to young men, was founded in the winter of 1896-'97. The Browning Literary Society, founded in 1883, and the Philomathean Literary Society, founded in 1894, are open to young women. These societies have commodious and well furnished apartments in University Hall. They meet weekly, and their work, offering to the student a very desirable training in composition, public speaking, and parliamentary order, is a valuable adjunct to collegiate education.

The Townshend Literary Society was established in 1883 as a technical society under the name of the Kirtland Agricultural Society. In 1894, the name Townshend was substituted. In 1898, the Society changed its constitution so as to admit any student of the University and thus became a literary rather than a technical society. It meets weekly in its commodious and well arranged society room in Townshend Hall.

The Biological Club is an organization of professors and students for mutual assistance and improvement in the line of natural science. Its meetings are regularly held every two weeks, at which papers are read, notes of observation and research presented, and current biological literature discussed.

The Chemical Association, composed of the more advanced students and instructors in the Department of Chemistry and Pharmacy, has for its object the discussion of such subjects as are of importance to students of chemistry, special

stress being placed on recent discoveries. The meetings are held semi-monthly and are of great interest. Both professors and students contribute to each program.

The Political Science Club is an organization of instructors and students in political science and history for the consideration of questions in those fields. At the regular bi-weekly meetings papers are read, researches reported, and current questions and publications in political science, considered and discussed.

The Engineering Society is a similar organization of students and instructors, holding meetings bi-weekly, for the consideration of questions in the various branches of engineering.

The Organic Evolution Club was organized in the winter of 1896-'97 by those students and members of the Faculty especially interested in the study of Evolution. The Zoological Department has a similar club known as the Journal Club.

The O. S. U. Dramatic Club was organized in 1893. Its object is to present each year to the University world one of the standard legitimate dramas. Its membership is confined to University circles.

The musical organizations of the University are: The O. S. U. Glee Club, composed of sixteen members; the O. S. U. Mandoline and Guitar Club of twenty members; the O. S. U. Banjo Club of five members; the O. S. U. Orchestra of fifteen members; the O. S. U. Male Quartet and the University Cadet Band.

The Ornithological Club encourages observation and research in the study of birds and their habits, especially of our native species. The Wheaton collections in the possession of the University forms a basis of study. The programs consist of papers and discussions and reports of observation and personal work. Anyone interested in birds is eligible to membership and visitors are always welcome. The Club meets on the second and fourth Monday evenings of each month.

The O. S. U. Sketch Club has for its purpose the promotion of art interests among the students and ex-students. Any one who is or has been connected with the University in any capacity is eligible to membership. The members meet once a week and sketch from the draped human figure. Twice a month the members present sketches illustrating some word, etc., previously selected. All work is criticised by members of the club for mutual benefit.

The English Club, composed of the instructors and advanced students of the English departments, holds bi-weekly meetings at which new books in current literature are discussed and papers on literary topics are presented.

The William F. Hunter Society, in the College of Law, meets for moot-court practice and quiz-work every two weeks.

MILITARY SCIENCE AND TACTICS

Under the law of Congress establishing the University, it is required that instruction shall be given in military science and tactics. In accordance with this provision an officer of the regular army has been detailed to take charge of the Department of Military Science and Tactics; and the Trustees have directed that all male students, except those in the Law College, and such others as may be specially excused for physical disability or for having reached the age limit of twenty-five years, shall render two years of cadet service as a condition of graduation. A uniform has been prescribed with which each member is required to provide himself; and fifty minutes a day are devoted to drill, except on those days when instruction in tactics and art of war is given.

The course of instruction is both practical and theoretical. It is given by means of a systematic drill, supplemented by lectures and recitations, and is so

arranged as to occupy five hours per week throughout the year. For purposes of drill, all students enrolled in the Department are organized in a battalion, the officers of which are selected from those students who have shown special proficiency in their University work and the work of the Department. Commissioned officers and non-commissioned officers receive certificates of satisfactory service, issued by the University. A cadet band has been organized in connection with this Department, and is supplied with instruments belonging to the University and to the cadets.

The practical course in infantry embraces all the movements prescribed by the drill regulations of the U. S. Army applicable to a battalion. Instruction in artillery embraces such portions of the United States drill regulations as pertain to the formation of detachments, manual of the piece, mechanical maneuvers and aiming drill. Instruction also includes duties of sentinels, the various ceremonies performed by troops, and military signaling. The theoretical instruction includes a systematic and progressive course in drill regulations of the U. S. Army, the organization and administration of the U. S. Army and the elementary principles governing in the art of war.

Competitive drills are held yearly for two medals; one, the first prize, of gold, presented to the University by the M. C. Lilley Co., of Columbus, Ohio; the other, the second prize, of silver, presented by Lieut. Wilson, when commandant. These medals remain the property of the University, the winner wearing them until the next competition. The "President's Prize" consists of an officers' sword, given to the captain of the company having the best record for attendance for the year.

The equipments of the Department consist of three hundred Springfield cadet rifles and sets of infantry equipment, twenty officers' swords and belts, the necessary equipment for instruction in signaling, and a few instruments for the band.

The U. S. Ordnance Department furnishes an annual allowance of one thousand rounds of ball and one thousand rounds of blank cartridges for cadet rifles.

PHYSICAL TRAINING

Competent instruction in hygiene and general sanitation is given by the director of the Gymnasium, who has entire charge of the physical training and well-being of all students. Supplementing this work, the practical instruction in military tactics is found to be a most valuable aid. In addition to this, the University grounds afford excellent opportunities for general athletics, and the students support well organized clubs in base ball, foot ball and lawn tennis. These and other sports are participated in by large numbers, and friendly contests are occasionally held with other colleges. Besides the special clubs named above, the students have an athletic association which holds an annual "Field Day," in which prizes are given to the victors in the various contests usual on such occasions.

OHIO FORESTRY BUREAU

This Bureau has been established and located at the University by the Legislature for the purpose of inquiring into the best means of preserving and utilizing the forests of the State.

TERMS AND VACATIONS

The first term of the University year 1900-1901 and thereafter will begin on the Tuesday following the sixteenth day of September and will close on the

Wednesday following the 17th day of June. The first term will close on the Wednesday preceding Christmas; the second term will begin on the Tuesday following the first day of January and will close on the Friday preceding the first Monday in April; the third term will begin on the Wednesday following the close of the second term. The second semester will begin on Monday of the eighteenth week preceding commencement week; and the first semester will close on the Friday preceding the opening of the second semester.

Regular college exercises will be suspended from 4 o'clock p. m. of the Wednesday preceding Christmas until 8 o'clock a. m. of the Tuesday following the first day of January; on Thanksgiving and the day following; on University day which is the twenty-second day of February; from 4 o'clock p. m. of the Friday preceding the first Monday in April until 8 o'clock a. m. of the Wednesday following the first Monday in April; and on Memorial Day.

FEES

THE COLLEGES

INCIDENTAL FEE.—A charge of fifteen dollars a year is made against all students, under the head of incidental expense. In the case of former students if this fee is not paid until the second day of the term one dollar will be added, and for each succeeding day of delinquency fifty cents will be added.

LABORATORY FEES.—Students in the laboratories and shops are required to pay fees to cover, in part, the cost of the material consumed, and the deterioration of the expensive instruments used by them. The fees charged per term in the laboratories mentioned below are as follows:

Agriculture, 6.....	\$10 00
" 15.....	5 00
Anatomy and Physiology, 53, 54, 55, 56, 59, 60.....	7 50
" " (Vet. Medicine) 4.....	5 00
Botany, 4, 6, 7, 8, 6a.....	2 00
" 53, 55, 57, 58, 59, 60, 64.....	3 00
" 56 (half semester).....	1 50
Ceramics, 1, 2, 3, 7, 8.....	1 50
" 9, 10, 11, 12.....	5 00
Chemistry, 8, 14, 16, 61b, 11, 18, per term \$1 50, per semester.....	2 25
" 61a Lab.....	1 50
Domestic Science, 1, 2, 3, 4, 11, 12, 13.....	5 00
" " 5, 6, 7, 8, 9.....	1 00
Drawing, 7.....	2 00
Elec. Engineering, 4, 5, 4 or 5 hrs., \$7.00; 3 hrs. or less.....	5 00
" " 6 and 7 combination.....	5 00
Gymnasium, per term, \$1.00; per semester.....	2 25
Law of Contracts (Engineering).....	5 00
Law when elected 5 hours or less, per semester.....	7 50
Metallurgy, 3, 5, 6.....	1 50
Mechanical Engineering, 12, 13, 14, 15, 16, 17, 23, 24, 25.....	5 00
Pharmacy, 7, 8, 9, 10, 11, 15, 17, 18, 51.....	1 50
Pharmacy, 52.....	2 25
Physics, 5, 6, 7, 9, 3hrs., \$5.00; over 3 hrs.....	7 00
Physics, 55, 56, 57, 58, 60, 3 hrs., \$7.50; over 3 hrs.....	10 50
Shopwork, 4 hrs. or less.....	5 00
Shopwork, 5 hrs. or more.....	7 00

Zoology and Entomology, 53, 54, 55, 56, 61, 62.....	\$7 50
Zoology and Entomology, 57, 58, 59, 60.....	4 50
Zoology and Entomology (Agriculture), 4, 7.....	1 00

The fees of the College of Law are \$30 per semester, including the usual incidental fee.

In the laboratories of the Department of Chemistry and Agricultural Chemistry, each student is required at the beginning of each term to pay a fixed charge of one dollar and fifty cents for gas and water (\$2.25 each semester). He is also required to buy his own supplies, as he needs them, at the general storeroom in Chemical Hall, where laboratory supplies are sold to students at first cost to the University.

All term dues must be paid at the opening of each term as a condition of admission to classes.

AUDITOR'S FEE

On presentation to the Bursar of the written consent of the head of a department, and on payment to the Bursar of an auditor's fee of one dollar, any person engaged in teaching is permitted to attend, in that department, any class or course (not to exceed three hours a week for one-half year) which is announced to be especially for teachers or those intending to teach.

GRADUATION FEE.—A fee of five dollars, to cover expense of graduation, diplomas, etc., is required of each person receiving one of the ordinary degrees from the University, and this fee must be paid before the degree is conferred. A like fee of ten dollars is charged to each person receiving one of the higher graduate degrees.

FREE SCHOLARSHIP IN AGRICULTURE AND DOMESTIC SCIENCE, AND IN VETERINARY MEDICINE.—A free scholarship, good for the two-year Courses, or for the First year of the Short Courses and the First year of the four-year Courses in the College of Agriculture and Domestic Science, is granted to one student annually from each county in Ohio. Each scholarship is valid two years from its grant, and covers the incidental fee and all laboratory fees (except gymnasium fee), but the person appointed to receive its benefits is subject to all the other conditions prescribed for admission to the Course. If in any county there is no applicant for the free scholarship in Agriculture, then a free scholarship, good for two years in the College of Veterinary Medicine, may be granted, subject to the same conditions as are prescribed for the free scholarship in Agriculture. The appointments are made by the county boards of agriculture, and are not transferable by the appointees. To learn whether the scholarship of a given county for the current year has been granted, inquiries should be addressed to the Secretary or President of the County Agricultural Society. For further information concerning these scholarships, inquiries should be addressed to the Dean of the College of Agriculture and Domestic Science.

THE COLLEGE OF LAW

INCIDENTAL FEE.—An incidental fee of fifteen dollars per year is charged to regular undergraduate students.

Upon payment of the incidental fee, law students will be admitted to all the privileges of all the other Colleges of the University, upon the same terms as to admission, discipline, character of studies selected, etc., as other students in the University.

TUITION FEE.—In addition to the incidental fee named above, a tuition fee of twenty-two dollars and fifty cents per semester is charged to regular undergraduate students.

GRADUATE FEE.—A graduate fee of fifteen dollars per semester, payable in advance, is charged to all who take the full graduate work.

DIPLOMA FEE.—A fee of five dollars (to cover the expense of graduation, diplomas, certificates, etc.) is charged to all who receive the diploma or certificate, and a fee of ten dollars is charged to those taking the degree of Master of Laws. These fees must be paid before the degrees are conferred or certificate delivered.

Special students are required to arrange their fees satisfactorily with the Dean or Secretary before being admitted.

OTHER EXPENSES

There are two dormitories on the University grounds for the use of students. Each occupant is charged by the University a rent of a dollar and a half a term.

The South Dormitory affords unfurnished rooms to such students as desire to board themselves, and thus to reduce their expenses to a minimum. The expense of living in this way is about two dollars per week. Applications for rooms should be made to the President of the University.

The North Dormitory will accommodate more than sixty students. Board, furnished rooms, fuel, light and washing are, at present prices, supplied for about three dollars and fifty cents a week. Students will be admitted on special recommendation to the President of the University.

Boarding clubs are also formed in the neighborhood of the University. Furnished rooms are rented at seventy-five cents to one dollar a week for each student, and the cost of table board is two dollars to three dollars a week.

Board with furnished rooms can be obtained in private families, within convenient distances of the University, at rates varying from three and a half dollars to five dollars a week. The ruling rate may be taken as four dollars.

The uniform with which the members of the battalion are required to provide themselves costs (without overcoat) about fourteen dollars. It is quiet in pattern, and is designed to be worn daily in place of civilian dress.

The expenses of a student in the University for a year may be estimated as follows, excluding clothing (except uniform) and traveling expenses:

	Low	Average	High
Incidental fees.....	\$15 00	\$15 00	\$15 00
Laboratory fees.....	15 00	20 00	54 00
Books and stationery.....	15 00	25 00	40 00
Room	4 50	37 00	75 00
Furniture	10 00	.....	.....
Board	70 00	110 00	150 00
Uniform	14 00	14 00	14 00
	<hr/>	<hr/>	<hr/>
	\$143 50	\$221 00	\$348 00

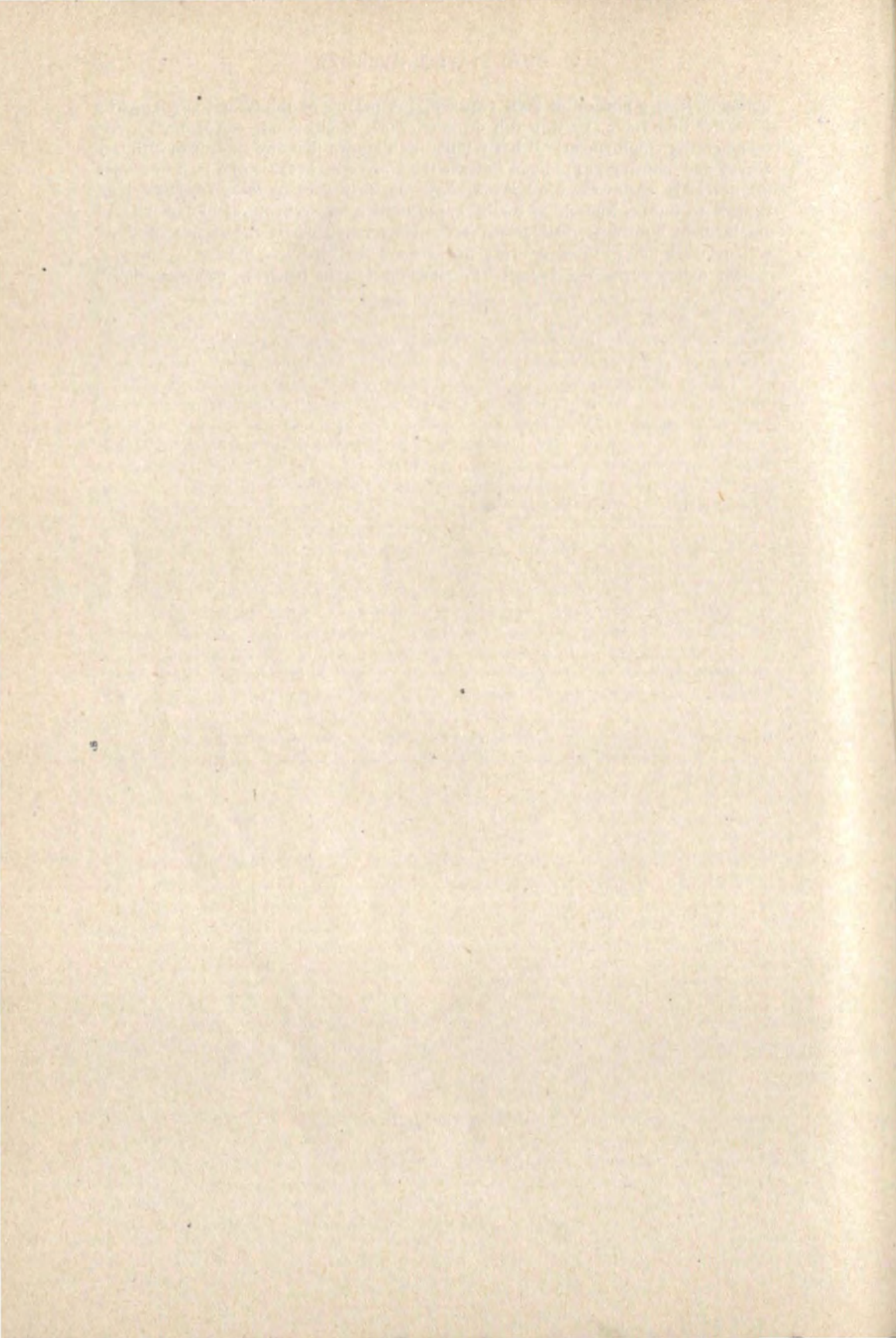
The second and third estimates for room include light, fuel and care. The third estimate is for a room occupied by a single student. The requirements for laboratory fees and books depend upon the course of study pursued.

SELF-SUPPORT

There is a large amount of work upon the University farm which is assigned to students, preference being given to those who are studying Agriculture. *But the University cannot promise work to all applicants.* Many students find work in private families, in offices, and in various occupations, by means of which they

defray at least a portion of their expenses. A person of ability and energy, who is master of a trade, or who can do good work of any kind, can generally find remunerative employment. It has seldom been known that any student of ordinary energy and industry was obliged to leave the University because of a lack of money for necessary expenses, *after having been say sixty days on the ground*—or long enough to inform himself as to the opportunities for securing employment. An employment bureau is maintained at the University, where the names of those seeking work and of those desiring workers are recorded.

For further information, address "Executive Office, State University, Columbus, Ohio."



THE COLLEGES

THE COLLEGES

ADMISSION

The University is open on equal terms to both sexes.

The entrance examinations for 1900 will be held on Monday and Tuesday, June 11 and 12, and on Monday and Tuesday, September 17 and 18. A part of the examinations may be taken in June and the remainder in September. Conditions incurred at the June examinations must be removed at the September examinations.

Applicants for admission to the Colleges of Agriculture, of Arts, Philosophy, and Science, or of Pharmacy, must be at least sixteen years of age; for admission to the College of Engineering or of Veterinary Medicine must be at least seventeen years of age; for admission to the College of Law must be at least eighteen years of age. Each must be provided with credentials of scholarship from his last instructor or from the last institution with which he has been connected, and with a certificate of good moral character.

There are three modes of admission to the University:

1. Certificates of the preparatory departments of Colleges of approved standing and of Normal schools in Ohio are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions:

Each certificate must contain a detailed statement of the studies pursued, the text books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank or standing in it. A copy of the course of study should accompany the certificate; and both should be sent to the University not later than the first of September. *The University cannot promise this recognition to those certificates presented during entrance week.*

Blank certificates will be furnished on application.

Applicants for admission who come from other Colleges or Universities are required to bring certificates of honorable dismissal.

Teachers' certificates (in force) will be accepted at their face value.

2. From time to time the University approves the courses of study in certain High Schools of the State; and the graduates of these High Schools are admitted on certificates in accordance with following rules:

Rule 17. Upon request from the Board of Education or the Superintendent of Public Schools of any town in Ohio for the inspection of the High School, the Faculty shall appoint a committee of two of its own number to visit such school. This committee shall thoroughly inspect the school to ascertain whether its graduates may be reasonably supposed to possess the necessary qualifications for admission to the University. After such inspection, the committee shall report its conclusions in writing, with the reasons therefor, to the Faculty, which shall then decide by vote whether the graduates of the school shall be admitted without examination, such privilege, if granted, not to extend beyond the period of three years without re-examination of the school.

Rule 94. Such diplomas and certificates shall be accepted in lieu of examination for preparatory studies only under the following conditions:

(a) The certificate must state in detail the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination in it, and the rank or standing of the candidate in it.

(b) The certificate will be accepted for such studies only, or such part of each, as it shall show to have been satisfactorily accomplished.

(c) Every such certificate must be accompanied with a diploma showing that the candidate has completed the course of study in the school from which he comes. But the General Faculty may except from this condition schools whose work is known to be exceptionally good, provided that the candidate has attended the school two full years.

(d) In case the authorities of any high school, academy or normal school in Ohio desire to have a definite standing fixed for the admission of its graduates, a committee of the General Faculty will visit the school, and on the report of this committee a standing will be fixed for the graduates of the school. Such standing shall not be good, without re-examination, after three years.

(e) Whenever, after a sufficient trial, it becomes evident that the graduates of any school are not adequately prepared, the diploma and certificate of such school will no longer be accepted.

Rule 95. No applicant for admission to the University will be accepted who is deficient or conditioned in required entrance work representing in the aggregate more than one daily recitation for a year. In the case of candidates for admission to the College of Arts, Philosophy and Science, not more than two-thirds of this deficiency may be in any one subject; and in the case of candidates for admission to the College of Engineering, not more than one-third of this deficiency may be in mathematics.

3. All other applicants are subject to examination on the groups of study mentioned below under the headings of those Colleges and Courses in the University which they desire to enter.

Full equivalents for the text-books named will be accepted.

ADMISSION TO SPECIAL STUDIES

Students who desire to pursue special lines of work in any of the Colleges of the University, and do not desire to become candidates for degrees, will be admitted on the following conditions.

Rule 96. Students who desire to pursue special lines of work in the University, and do not desire to become candidates for degrees, will be admitted on the following conditions:

(a) The regular entrance examinations must be satisfied.

(b) But applicants who are not less than twenty-one years of age (eighteen years in the College of Engineering and of Pharmacy), after obtaining credit for the common English branches, may be excused from examination in such studies as may be deemed best by the Executive Committee of the appropriate college; provided, that if any such student afterwards becomes a candidate for a degree he shall pass the omitted examinations at least one year before the degree is conferred.

Rule 97. Students desiring to pursue special lines of work in the University shall, upon admission, lay before the Executive Committee of the appropriate college for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of residence at the University. Such students shall be held as regularly to their

accepted schemes of work as are regular undergraduates to their prescribed courses of study. Admission will be refused to, or withdrawn from, all of whose definiteness of purpose the Executive Committee fail to receive satisfactory evidence.

ADMISSION TO ADVANCED STANDING

Rule 98. Applicants for advanced standing who do not come from some other university or college will be examined in the studies preparatory to admission to the appropriate college, and also in such undergraduate studies as they may wish to be credited with in advance. Applicants who have completed at least one year's work in an approved college, and who bring explicit and official certificates describing their courses of study and scholarship, and letters of honorable dismissal, will be admitted without examination, except such as may be necessary in order to determine what credit they are to receive for work done in the college from which they have come, and what courses of study they may with profit pursue in the University.

GRADUATION

Rule 99. No one will be admitted to candidacy for a degree at any Commencement who has not done the last year of work required for the degree, in residence at this University, and no student will be registered in such candidacy later than the first day of October.

Rule 128. Except by unanimous consent of the Faculty, no candidate for graduation will be recommended for a degree whose record is not in all respects complete by the Friday evening previous to the Commencement Day at which he seeks the degree; and all students shall be notified of this rule at the beginning of their graduation year, and the rule (except the last clause) shall be printed in the annual catalogue.

Rule 137. No candidate for graduation will be permitted to register for the second term or semester of his graduating year except upon presentation to the Bursar, of the President's certificate that his thesis subject has been announced and approved.

XI. EXAMINATIONS AND STANDING

Rule 111. Students shall be regarded as strictly on probation until they have removed all deficiencies and conditions in entrance requirements.

Rule 112. Students who have any entrance conditions outstanding at the beginning of the third year of residence at the University will not be allowed to join their classes until such conditions have been removed.

Rule 116. The standing of students in each study shall be reported at the end of each term or semester, as "merit," "passed," "conditioned," or "failed." This standing shall be determined by the head of each department by such means and methods as he may choose, but no student shall be reported "failed" without having had the opportunity of a written examination.

Rule 117. The standings "merit" and "passed" indicate that the student has full credit for the term's or semester's work in the study in which this standing is obtained.

Rule 118. The report "credit" (K) shall be used only for work done in regular class at the University.

Rule 119. The standing "conditioned" indicates that credit for the term's or semester's work in the study in which the condition was incurred is withheld. In the following term the student shall be given an opportunity to obtain credit

by a special re-examination; or, if the study be a continuous one, the instructor in charge may, at his discretion, excuse the student from re-examination, and may allow him to obtain credit by pursuing the study successfully during the following term or semester. If the student thus excused from re-examination does not pass upon the work of the second term or semester, he shall be reported as "failed" in the work of both terms or semesters. Any condition that is not removed within one year from the beginning of the term or semester in which it was incurred shall lapse into a "failure."

Rule 120. The standing "failed" indicates that the student has obtained no credit whatever for the term's or semester's work in which the mark is given. The student must, at the first opportunity, repeat in class the study in which he has failed. But a student who has failed in an elective study may be excused from repeating such study by the Executive Committee of his college. In case of failure in any continuous study, the work of the term or semester in which the failure is incurred must be repeated in class before any subsequent term's or semester's work in that study can be commenced. Unexcused absence from any regular examination is construed as a failure therein.

Rule 121. Any student who fails at the end of any term or semester to secure full credit for two-thirds of his work shall be put on probation for the following term or semester with restricted work, and, if similarly delinquent in his studies at any time within the next ten academic months, shall thereby cease to be a member of the University.

Rule 122. If, for any cause, the preparation, progress or success of any student in the work assigned him be found unsatisfactory, the President may remove him from a class or dismiss him from the University.

ADMISSION TO GRADUATE WORK

Graduates of this or other institutions may, on application to the Faculty, enter the University and pursue such lines of work as may be arranged or approved by the appropriate collegiate committee. Such graduate students are subject to all the ordinary regulations (as to fees, attendance, etc.), prescribed for undergraduates.

IN THE COLLEGES OF AGRICULTURE AND DOMESTIC SCIENCE, ENGINEERING, LAW AND PHARMACY

Masters degrees are conferred upon graduates in Agriculture, Horticulture and Forestry, Engineering, Law and Pharmacy at the end of not less than one year's residence, which shall be wholly devoted to the completion of an approved course of study in the University. Each is required in addition to present an acceptable thesis upon some subject connected with his course of study.

IN THE COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

1. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. from this University or from other institutions making equivalent requirements for those degrees, upon the satisfactory completion, during not less than one year of residence (devoted exclusively to such work), of an approved course of study, covering a major subject and an allied minor subject. The major subject (two-thirds) shall be graduate work, taken in one of the departments of the Arts, Philosophy and Science College. The minor subject (one-third) may be in graduate work.

2. The degree of Master of Science will be conferred upon candidates holding the degree of B. Sc. from the General Science Course of this University or from institutions making equivalent requirements for this degree, and also upon graduates from the College of Engineering of this University, upon the terms specified for the degree of Master of Arts; except that the major subject must be taken in one of the Departments of Science in the Arts, Philosophy and Science College. The minor subject must be in an allied Science.

3. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. and the degree of Master of Science upon candidates holding the degree of B. Sc. from this University or from other institutions making equivalent requirements for these degrees, and the degree of Master of Science will be conferred on graduates from the College of Engineering of this University, on the completion, during not less than one year of residence of a course of study in one or more of the departments of the College of Arts, Philosophy and Science, not less than one-third of which course must be graduate work and not more than two-thirds may be such undergraduate work as is announced to be elective, such course to be subject to the approval of the Executive Committee of the Faculty of the College of Arts, Philosophy and Science. But a degree conferred under the provisions of this paragraph shall in no case be counted towards the degree of Doctor of Philosophy, or Doctor of Science.

4. With the consent of the Faculty the work of candidates for the Master's degree may be distributed over more than one year.

5. Each candidate for a Master's degree must also prepare and submit a thesis, and after its acceptance, be examined upon the work assigned him.

6. The degree of Ph. D. or of D. Sc. will be conferred upon holders of the appropriate baccalaureate degree from this University, or from other institutions making equivalent requirements for the first degree, upon the satisfactory completion of three years of resident graduate work in the Arts, Philosophy and Science College, including thesis and examinations. Holders of the degree of Master of Arts or Master of Science from this University, under the conditions prescribed in paragraph one or two, or from other institutions making equivalent requirements for these degrees, may receive the Doctor's degree on the satisfactory completion of two years of resident graduate work after obtaining the Master's degree. On approval of the Faculty, the work of the first year or of the first two years, of the three, may be done at another University which offers equivalent graduate work.

7. Candidates for the degree of Doctor of Science must take their work wholly in Science.

8. With the consent of the Faculty the work required of candidates for Doctor's degrees may be distributed over more than three years.

FELLOWSHIPS

To encourage graduates of this University, and of other similar and approved institutions in this state, to continue their work and to complete the courses necessary to second (and other) degrees, the University authorities have established fellowships in several departments. These demand about one-half of the time of the fellow for laboratory instruction or other similar assistance—as far as possible, along the line of his graduate study. The remainder of his time is given to graduate work. The fellowships pay from \$250 to \$300 for the University year.

Rule 151. So far as student work is concerned, Fellows shall be subject to the regulations of the various colleges in regard to graduate students.

Following are the fellowships for the academic year 1899-1900 as far as at present determined:

Anatomy and Physiology, Botany, Chemistry (two), American History and Political Science, Industrial Arts, Mathematics (two), Mechanical Engineering, Philosophy, Rhetoric and English Language, Veterinary Medicine.

In addition to these, Mr. Emerson McMillin has established two fellowships: one in Astronomy, \$300 for the academic year; and one in Economics, \$250 for the academic year. No service is required in these fellowships, and fellows are expected to give their entire time to their graduate work.

Correspondence should be directed to the Executive Office of the University.

PRIZES

Through the generosity of Hon. William J. Bryan an annual prize of fifteen dollars is offered for the best essay on the principles underlying the form of government of the United States. Competition for this prize is open to all students of the University.

The Edward Thompson Company offer annually to the student writing the best essay on a legal theme selected by the Faculty of the College of Law, the second edition of the English and American Encyclopedia of Law, which includes about thirty volumes.

Other prizes are offered in special departments, for which see department circulars or the heads of the departments

GENERAL RULES FOR STUDENTS

Rule 51. Each student shall at the beginning of the year give, in writing, his or her local address to the President, and shall promptly report all subsequent changes of address.

Rule 53. Smoking is prohibited in the halls, basements, and lecture rooms of the University buildings.

Rule 56. The rooms of University student organizations which are located in the University buildings shall not be used for purposes other than the usual exercises of such organization without the previously obtained consent of the General Faculty.

Rule 57. No arrangements or announcements shall be made by students for any public gathering or exercises in the University buildings without the previously obtained consent of the President.

Rule 66. All absences of individual students from the city, for any purpose, involving absence from college exercises, must be accounted for to the President, and in all possible cases permission must be previously obtained.

Rule 86. All students are required to register on the first day of each term or semester.

Rule 88. In the case of former students, if the incidental fee is not paid until the second day of the term or semester, one dollar will be added, and for each succeeding day of delinquency fifty cents will be added.

Rule 89. The assignment of work shall be made and recorded for each student, as shall be determined by the several faculties; but at the beginning of each term or semester, each student's card shall be signed by the Secretary of his College before presentation to the Bursar.

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

FOR ADMISSION

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following Books, or equivalents: Shakespeare's *Merchant of Venice, Julius Caesar and Macbeth*; Milton's *Lycidas, Comus, L'Allegro, and Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Venable's *Easy Algebra*, complete.

4. *Botany*—Gray or Kellerman's *Elementary Botany and Spring Flora*, or equivalent.

7. *Latin*—Pronunciation (the Roman method): Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*.

Or *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good Modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

Or *German*—Joynes-Meissner's or Thomas's Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages.)

Joynes's or Whitney's Reader, Hillern, Höher als die Kirche, Riehl, Der Fluch der Schönheit, Freytag, Die Verlorne Handschrift, Gerstäcker Irrfahrten.

Until the year 1902, the *German or French* required for admission may be begun at the University, but without University credits. For the year 1902 and thereafter, the full requirements as above stated will be held to.

5. *Plane Geometry*—White, Venable, Wentworth, or Wells.

6. *Physics*—Gage, Carhart and Chute, Avery, or Appleton.

7. Either of the following:

Civil Government—Fisk or Thorpe preferred.

History—Myers's *General History*.

OUTLINE OF THE COURSE IN AGRICULTURE

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Botany (6)	5.	Botany (7)	5.	Botany (8)	5.
Physiological.		Physiological and Economic.		Economic Botany and Vegetable Pathology.	
Drawing (10)	2.				
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
English Composition.		English Composition.		English Composition.	
Zoology (1)	3.	Shopwork (1)	3.	Zoology (1)	3.
Invertebrate.		Zoology (1)	3.	Invertebrate.	
Cadet Service (men).*		Invertebrate.		Cadet Service (men).	
Hygiene and Physical Training (women).		Cadet Service (men).		Hygiene and Physical Training (women).	
		Hygiene and Physical Training (women).			

SECOND YEAR

REQUIRED

Agriculture (8)	4.	Agriculture (9)	4.	Agriculture (10)	4.
Breeds of Live Stock.		Principles of Breeding.		Stock Feeding.	
Agr'l Chemistry (4)	5.	Agr'l Chemistry (4)	5.	Agr'l Chemistry (4)	5.
Laboratory.		Laboratory.		Laboratory.	
Horticulture (1)	4.	Shopwork (2)	3.	Horticulture (1)	4.
Elements.		Physiology (1)	3.	Plant Propagation.	
Physiology (1)	3.	Physiology.		Physiology (1)	3.
Anatomy.		Zoology (4)	2.	Physiology.	
Zoology (2)	4.	Economic Entomology.		Zoology (4)	2.
Economic Entomology.		Cadet Service (men).		Economic Entomology.	
Cadet Service (men).		Hygiene and Physical Training (women).		Cadet Service (men).	
Hygiene and Physical Training (women).				Hygiene and Physical Training (women).	

* A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

THIRD YEAR

FIRST TERM		Credit hours	REQUIRED		Credit hours	THIRD TERM		Credit hours
Agriculture (11)		4.	Agriculture (12)		4.	Agriculture (13)		4.
Farm Equipment.			Soils.			Crops.		
†French (1)	}	4.	†French (1)	}	4.	Drawing (16)		3.
Elementary,			Elementary,			†French (1)	}	4.
or		or		Elementary,				
†German (1)			†German (1)			†German (1)		
Elementary.			Elementary.			Elementary.		
Geology (2)		5.	Geology (5)		3.	Astronomy (3)		2.
General.			General.			Meteorology.		
Veterin'y Medicine (28)		5.	Veterin'y Medicine (29)		5.	Veterin'y Medicine (30)		5.
			General Pathology.			Special Pathology.		

FOURTH YEAR

FIRST TERM		Credit hours	REQUIRED		Credit hours	THIRD TERM		Credit hours
Agriculture (14)		4.	Agriculture (15)		4.	Agriculture (16)		4.
Animal Mechanics.			Dairy.			Rural Economics.		
History (5)		4.	History (5)		4-2.	Economics (2)		4.
U. S. Political.			U. S. Political.			Political Economy.		
			Economics (2)		4-2.			
			Political Economy.					

ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

OUTLINE OF THE COURSE IN HORTICULTURE AND FORESTRY

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	5.	Botany (7) Physiological Economic.	5.	Botany (8) Economic Botany. Vegetable Pathology.	8.
Drawing (10)	2.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Rhetoric (5) English Composition.	2½.	English Composition.		English Composition.	
Zoology (1) Invertebrate.	3.	Shopwork (1) Zoology (1) Invertebrate.	3. 2. 2.	Zoology (1) Vertebrate.	3.
Cadet Service (men). Hygiene and Physical Training (women).		Cadet Service (men). Hygiene and Physical Training (women).		Cadet Service (men). Hygiene and Physical Training (women).	

SECOND YEAR

REQUIRED

Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.	Agr'l Chemistry (4) Laboratory.	5.
*French (1) Elementary,	} 4.	French (1) Elementary,	} 4.	French (1) Elementary,	} 4.
or *German (1) Elementary.		or German (1) Elementary.		or German (1) Elementary.	
Horticulture (1) Elements.	4.	Shopwork (2)	3.	Horticulture (1) Plant Propagation.	4.
Physiology (1) Anatomy.	3.	Physiology (1) Physiology.	3.	Physiology (1) Physiology.	3.
Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.	Zoology (4) Economic Entomology.	2.
Cadet Service (men). Hygiene and Physical Training (women).		Cadet Service (men). Hygiene and Physical Training (women).		Cadet Service (men). Hygiene and Physical Training (women).	

THIRD YEAR

REQUIRED

Agriculture (11) Farm Equipment.	4.	Agriculture (12) Soils.	4.	Agriculture (13) Crops.	4.
French (2)	} 4.	French (2) or German (4)	} 4.	Astronomy (3) Meteorology.	2.
German (4) General.		Geology (5) General.		3.	Drawing (16) French (2) or German (4)
Geology (2)	5.	Horticulture (6) Principles of Fruit Culture.	4.	Zoology (4) Economic Entomology.	3.
Horticulture (5) Varieties of Fruit.	4.			Horticulture (7) Small Fruits and Spraying.	4.

† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

FOURTH YEAR

FIRST TERM		REQUIRED		THIRD TERM	
	Credit hours	SECOND TERM	Credit hours		Credit hours
Horticulture (8)	2.	Horticulture (9)	2.	Horticulture (10)	2.
Elementary Floriculture		Commercial Floriculture		Home Floriculture.	
Horticulture (11)	2.	Horticulture (12)	2.	Horticulture (13)	2.
Arboriculture.		Forestry and Sylviculture.		Landscape Gardening.	
History (5)	4.	History (5)	4-2.	Economics (2)	4.
U. S. Political.		U. S. Political.		Political Economy.	
		Economics (2)	4-2.		
		Political Economy.			

ELECTIVE

Ten hours a week through the year, including two hours for thesis, chosen from any of the courses given in any College of the University upon which the student is qualified to enter; except in the College of Law.

THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

OUTLINE OF THE COURSE IN DOMESTIC SCIENCE

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Botany (6) Physiological.	3.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany. Vegetable Pathology.	5.
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
Rhetoric (5) English Composition.	2½	Rhetoric (5) English Composition.	2½.	Rhetoric (5) English Composition.	2½.
Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.	Zoology (1) Invertebrate.	3.
Hygiene and Physical Training.		Hygiene and Physical Training.		Hygiene and Physical Training.	

SECOND YEAR

REQUIRED

Agr'l Chemistry (4) Laboratory.*	5.	Agr'l Chemistry (4) Laboratory.*	5.	Physiology (3) Chemical Physiology.	3.
Domestic Economy (1)	4.	Domestic Economy (2)	4.	Physiology (10)	2.
Drawing (10) Mechanical.	2.	Drawing (15) Architectural.	2.	Domestic Economy (8)	4.
†French (1) Elementary,	} 4.	French (1) Elementary,	} 4.	Drawing (15) House Designing.	} 4.
or †German (1) Elementary.		or German (1) Elementary.		French (1) Elementary,	
Physiology (1)	3.	Physiology (1)	3.	German (1) Elementary.	3.
Hygiene and Physical Training.		Hygiene and Physical Training.		Physiology (1) Hygiene and Physical Training.	3.

THIRD YEAR

REQUIRED

Domestic Economy (4)	4.	Domestic Economy (5)	4.	Domestic Economy (6)	4.
French (2) or German (4)	} 4.	French (2) or German (4)	} 4.	French (2) or German (4)	} 4.
History (5) U. S. Political.		4.		History (5) U. S. Political.		4-2.	Economics (2) Political Economy.	4.
Education (1)	4.	Economics (2) Political Economy. Education (1)	4-2.	English Literature (3)	4.
		English Literature (2)	4-2.		

Elective: Two hours a week, through the year.

FOURTH YEAR

REQUIRED

Domestic Economy (7)	4.	Domestic Economy (8)	4.	Domestic Economy (9)	4.
Horticulture (8) Elements of Floriculture.	2.	Horticulture (9) Commercial Floriculture.	2.	Horticulture (10) Home Floriculture.	2.

* Specific laboratory work will be provided for students in this course, where necessary.

† Where credit is received for Elementary French or German, French (2) 4 hours or German (4) 4 hours is required.

ELECTIVE

Ten hours a week through the year chosen from any of the courses given in any college of the University upon which the student is qualified to enter; except in the College of Law.

THESIS

As a requisite for graduation each candidate must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

THE SHORT COURSES

A two-year course in Agriculture and a two-year course in Domestic Economy have been provided for those who have neither the time nor the means to pursue four-year courses. These short courses also enable those who lack the preparation for entering the four-year courses to obtain such preparation. The studies of the first year of the short courses, it will be noticed, nearly prepare the student to enter the first year of the four-year courses. The student having had chemistry in the first year of a short course can finish his preparation for either of the four-year courses during the first year of the latter course, in place of the chemistry required.

At the end of the first year of the Short Course in Agriculture, for example, the student has three strings to his bow. He may finish the second year of the short course by taking the more technical studies from the four-year courses, if lack of time or means demand it; or he may enter either the four-year course in Agriculture or the four-year course in Horticulture and Forestry. The same is practically true of the Short Course in Domestic Economy.

These short courses are not, of course, to be compared in breadth, strength, or thoroughness with the full courses of the University. They are far better preparation for the work to which they lead than no preparation; but all students are urged to take or to continue into the full four-year courses wherever possible.

ADMISSION TO THE SHORT COURSES IN AGRICULTURE AND DOMESTIC ECONOMY AND THE COURSE IN DAIRYING

Applicants must be at least fifteen years of age, and unless over twenty-one years of age must pass an examination in *Arithmetic*, *Geography*, *Grammar* and *United States History*, or bring High School or other certificates for those branches. Applicants who are over twenty-one are admitted without examination.

OUTLINE OF THE SHORT COURSE IN AGRICULTURE

FIRST YEAR

FIRST TERM	Credit hours	REQUIRED	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Mathematics (1)	5.	Mathematics (3)	5.	Botany (1)	5.
Algebra.		Geometry.		Elementary.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Physiography.	
Drawing (10)	2.	Shopwork (1)	3.	Physiology (2)	3.
Mechanical.				General.	
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Not less than fifteen hours per week through the year; chosen from any of the following courses subject to conditions named under "Departments of Instruction."

Agriculture (8)	4.	Agriculture (9)	4.	Agriculture (10)	4.
Breeds of Live Stock.		Principles of Breeding.		Stock Feeding.	
Agriculture (11)	4.	Agriculture (12)	4.	Agriculture (13)	4.
Farm Equipment.		Soils.		Crops.	
Agriculture (17)	3.				
Milk Sanitation.					
Botany (6)	5.	Agriculture (15)	4.	Zoology (7)	3.
Physiological.		Dairy.		Entomology.	
Horticulture (1)	4.	Horticulture (1)	4.	Horticulture (1)	4.
Elements.		Greenhouse Construction.		Plant Propagation.	
		Shopwork (2)	3.		
Veterinary Medicine (28)	5.	Veterinary Medicine (29)	5.	Veterinary Medicine (30)	5.
Anatomy.		General Pathology.		Special Pathology.	
Horticulture (5)	4.	Horticulture (6)	4.	Horticulture (7)	4.
Varieties of Fruit.		Principles of Fruit Culture.		Small Fruits and Spraying.	
		Physiology (6)	2.		
Cadet Service.		Cadet Service.		Cadet Service.	

COURSE IN DAIRYING

The course in dairying begins each year on the Wednesday following the first day of January, and continues during the entire term. Butter-making, as practiced in the farm dairy and in the creamery, is thoroughly taught. The student performs all necessary operations in the manufacture of butter by these two methods, under the guidance of the instructors. In cheese-making the principles are taught, with elementary practice.

Agriculture (5). Dairy Farming.—Three hours each week. Lectures and recitations on breeds, breeding, feeding, selection and judging of dairy stock, equipment and management of dairy farms.

Agriculture (6). Butter and Cheese-making.—Four half days each week. Laboratory practice in running separator, churning, working butter, making cheese, milk testing, etc.

Agriculture (7). Butter and Cheese-making.—Two hours each week. Lectures and recitations.

Agricultural Chemistry (7). Milk Chemistry and Milk Testing.—Two hours each week. Lectures and laboratory practice.

Physiology (6). Bacteria in their relation to Milk, Butter and Cheese.—Two hours each week. Lectures and laboratory practice.

Veterinary Medicine (17). Diseases of the Cow.—Three hours each week.

Mechanical Engineering (26). Steam Machinery.—One hour each week.

SHORT COURSE IN DOMESTIC SCIENCE

FIRST YEAR

REQUIRED

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Agr'l Chemistry (1) Principles.	5.	Agr'l Chemistry (8) Organic.	5.	Agr'l Chemistry (9) Applications.	5.
Physics (1) Elementary.	5.	Physics (1) Elementary.	5.	Botany (1) Elementary.	5.
French (1) or German (1)	} 4.	French (1) or German (1)	} 4.	French (1) or German (1)	} 4.
Rhetoric (5) English Composition.		2½.		Rhetoric (5) English Composition.		2½.	Rhetoric (5) English Composition.	2½.
Hygiene and Physical Training.		Hygiene and Physical Training.		Hygiene and Physical Training.	

SECOND YEAR

REQUIRED

Domestic Economy (1)	4.	Domestic Economy (2)	4.	Domestic Economy (3)	4.
Domestic Economy (4)	4.	Domestic Economy (5)	4.	Domestic Economy (6)	4.
Hygiene and Physical Training.		Hygiene and Physical Training.		Hygiene and Physical Training.	

ELECTIVE

Not less than seven hours per week through the year; chosen from any of the following courses subject to conditions named under "Departments of Instruction."

Botany (6) Physiological.	5.	Botany (7) Physiological and Economic.	5.	Botany (8) Economic Botany. Vegetable Pathology.	5.
Drawing (1)	2.	Drawing (1)	2.	Drawing (1)	2.
Education (1)	4.	Education (1)	4-2.	English Literature (2)	4.
Horticulture (8) General Floriculture.	2.	English Literature (2)	4-2.	Horticulture (10) Home Floriculture.	2.
Zoology (1) Invertebrate.	3.	Horticulture (9) Commercial Floriculture.	2.	Zoology (1) Vertebrate.	3.
		Zoology (1) Invertebrate.	3.		

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FOR ADMISSION TO THE COURSE IN ARTS¹

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar*, and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's *Academic* or equivalent.

4. *Botany*—Kellerman's *Elementary Botany and Spring Flora* or equivalent.

5. *Civil Government*—Fiske or Thorpe preferred.

6. *Geometry, Plane and Solid*—Venable, White, Wentworth or Wells.

7. *Greek*—Grammar (Goodwin's preferred) and Prose Composition; or the first 100 lessons of White's *Beginner's Greek Book*. Reading: The first three books of Xenophon's *Anabasis*. At least two years should be devoted to this work.

8. *History*—Either Myers's *General History* (or equivalent); or, if the teacher's training and the school library will warrant, Greek and Roman History on the topical method. A circular concerning the topical method will be sent on application.

9. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*; Cicero, six orations, including *Pro Lege Manilia*; Vergil, the first six books of the *Aeneid*, with Prosody; Prose Composition, Daniell or Collar or Jones or Dodge and Tuttle, entire.

10. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

For the present, the *Greek* required for admission may be begun at the University, but without University credits.

TO THE LATIN COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Course in Arts; except that instead of *Greek*, the applicant must offer *French* or *German*, as follows:

French.—The requirements under this head are those of the elementary course or grade of preparatory instruction, as formulated in the "Report of the Committee of Twelve of the Modern Language Association of America," and are here stated in the terms of that report.

Applicants should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

Two years should be given to this preparation.

During the first year the work should comprise: (1) Careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles and pronouns; the use of personal pronouns, common adverbs, prepositions and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) The reading of from 250 to 400 pages of easy modern (nineteenth century) prose in the form of stories, plays or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

German—

(a) The Aim of the Instruction.

At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving his ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions; to put into German short English sentences taken from the language of every-day life or based upon the text given for translation, and to answer questions upon the rudiments of grammar as defined below.

(b) The Work to be Done.

During the first year the work should comprise: (1) Careful drill upon pronunciations; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more usual strong verbs, also upon the use of the more common prepositions, the simpler uses of the model auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises.

designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) The reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

Until the year 1902, the *German* or *French* required for admission may be begun at the University, but without University credits. For the year 1902 and thereafter, the full requirements as above stated will be held to.

TO THE MODERN LANGUAGE COURSE IN PHILOSOPHY

The requirements are the same as for admission to the course in Arts; except that instead of *Latin* and *Greek*, the applicant may offer *Latin* and *French*, or *Latin* and *German*, or *French* and *German*, in the amounts specified above.

Until the year 1902, either the *French* or the *German* (but not both), required for admission may be begun at the University, but without University credits. For the year 1902, and thereafter, the full requirements as above stated will be maintained.

TO THE ENGLISH COURSE IN PHILOSOPHY

The requirements are the same as for admission to the Modern Language Course in Philosophy. But in place of one of the foreign languages the applicant may offer the following group:

1. *Chemistry*—Williams or Remsen.
2. *English Literature*—Pancoast's Introduction to English Literature and an acquaintance with representative works in each period; or, *English History*—Montgomery.
3. *Physiology*—Martin (briefer course).

Until the year 1902, one modern language required for admission may be begun at the University, but without University credits. For the year 1902, and thereafter, the full requirements as stated above will be held to.

TO THE COURSE IN COMMERCE AND ADMINISTRATION

The requirements are the same as for admission to the Modern Language Course in Philosophy.

TO THE COURSE IN SCIENCE

The requirements are the same as for admission to the Modern Language Course in Philosophy.

TO GRADUATE WORK

1. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. from this University or from other institutions making equivalent requirements for those degrees, upon the satisfactory completion, during not less than one year of residence (devoted exclusively to such work), of an

approved course of study, covering a major subject and an allied minor subject. The major subject (two-thirds) shall be graduate work, taken in one of the departments of this (the Arts, Philosophy and Science) College. The minor subject (one-third) may be in graduate work.

2. The degree of Master of Science will be conferred upon candidates holding the degree of B. Sc. from the General Science Course of this University, or from institutions making equivalent requirements for this degree, and also upon graduates from the College of Engineering of this University, upon the terms specified for the degree of Master of Arts; except that the major subject shall be taken in one of the Departments of Science in this (the Arts, Philosophy and Science) College. The minor subject shall be in an allied Science.

3. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. and the degree of Master of Science upon candidates holding the degree of B. Sc. from this University, or from other institutions making equivalent requirements for these degrees, and the degree of Master of Science will be conferred on graduates from the College of Engineering of this University, on the completion, during not less than one year of residence, of a course of study in one or more of the departments of this College, not less than one-third of which course shall be graduate work and not more than two-thirds may be such undergraduate work as is announced to be elective, such course to be subject to the approval of the Executive Committee of the Faculty of this College. But a degree conferred under the provisions of this paragraph shall in no case be counted towards the degree of Doctor of Philosophy, or Doctor of Science.

4. With the consent of the Faculty the work of candidates for Master's degree may be distributed over more than one year.

5. Each candidate for a Master's degree must also prepare and submit a thesis, and, after its acceptance, be examined upon the work assigned him. The regulations as to undergraduate theses apply to theses for Master's degree also.

6. The degree of Ph. D., or of D. Sc., will be conferred upon holders of the appropriate baccalaureate degree from this University, or from other institutions making equivalent requirements for the first degree, upon the satisfactory completion of three years of resident graduate work in the Arts, Philosophy and Science College, including thesis and examinations. Holders of the degree of Master of Arts or Master of Science from this University, under the conditions prescribed in paragraph one or two, or from other institutions making equivalent requirements for these degrees, may receive the Doctor's degree on the satisfactory completion of two years of resident graduate work after obtaining the Master's degree. On approval of the Faculty, the work of the first year, or of the first two years, of the three, may be done at another University which offers equivalent graduate work.

7. Candidates for the degree of Doctor of Science shall take their work wholly in Science.

8. With the consent of the Faculty the work required of candidates for Doctor's degrees may be distributed over more than three years.

COURSE IN ARTS

Degree: Bachelor of Arts

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Greek (51) Xenophon.	4.	Greek (52) Herodotus, Homer.	4.
Latin (51) Cicero.	4.	Latin (52) Livy, Horace.	4.
Mathematics (67) Algebra, Analytics, Calculus.	3.	Mathematics (68) Trigonometry, Analytics, Calculus.	3.
Rhetoric (51) Composition.	2½	Rhetoric (52) Composition.	2½.
Cadet Service (men).*		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

One of the following (the choice being for the year):

Botany (51) or (57)	3.	Botany (52) or (58)	3.
Botany (55) Systematic and Physiological.	4.	Zoology (64) Comparative.	4.
Chemistry (51) Inorganic.	3.	Chemistry (52) Inorganic.	3.
Physics (51) or (53) Mechanics, Heat, etc.	3.	Physics (52) or (54) Electricity, Magnetism, etc.	3.
Zoology (51) Comparative Zoology.	3.	Zoology (52) Comparative Zoology.	3.

SECOND YEAR

FIRST SEMESTER	hours Credit	SECOND SEMESTER	hours Credit
Greek (53) Lysias.	4.	Greek (54) Homer, Plato.	4.
†History (55) United States or †Economics (51) Elementary.	4.	Economics (52) Elementary or History (56) United States	4.
Latin (53) Horace, Pliny.	4.	Latin (54) Tacitus, Juvenal.	4.
English Literature (51) Introductory.	4.	Rhetoric (54) Analysis of Prose.	4.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

THIRD YEAR

Philosophy (51) Psychology.	4.	Philosophy (52) Logic and Ethics.	4.
*Major Study	4.	Major Study	4.

ELECTIVE

Eight hours a week through the year—chosen from the courses in this College (See "The Departments," page 119); *except* that, not earlier than the third

* A rule of the Board of Trustees requires each male student (except students in the College of Law) to render two years' cadet service as a condition of graduation. Students physically incapacitated for cadet service will be assigned an equivalent in special gymnasium work. The President has authority to excuse from cadet service under certain conditions.

Young women are required to carry Hygiene and Physical Training in place of cadet service.

year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

FOURTH YEAR

*Major Study	5.	Major Study	5.
Electives (as in third year)	10.	Electives (as in third year)	10.

THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

LATIN COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51)	} 4.	French (52)	} 4.
Elementary, or (55) or German (51)		Prose and Plays or German (52)	
Elementary, or (56)	} 4.	Elementary, or (56)	} 4.
Latin (51)		Latin (52)	
Cato, Cicero.	3.	Livy, Horace.	3.
Mathematics (67)	2½.	Mathematics (68)	2½.
Algebra, Analytics, Calculus.	} 2½.	Trigonometry, Analytics, Calculus.	} 2½.
Rhetoric (51)		Rhetoric (52)	
Composition.		Composition.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

One of the following (the choice being for the year):

Botany (51) or (57)	3.	Botany (52) or (58)	3.
Botany (55)	4.	Zoology (64)	4.
Systematic and Physiological.		Comparative.	
Chemistry (51)	3.	Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52)	3.
Comparative Zoology.		Comparative Zoology.	

* Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

SECOND YEAR.

French (55)	}	4.	French (56)	}	4.
Modern Literature or German (55) Literature.			Modern Literature or German (56) Lyrics.		
*History (55) United States or *Economics (51) Elementary.	}	4.	Economics (52) Elementary or History (56) United States.	}	4.
Latin (53)			4.			Latin (54)	4.
Horace, Pliny.			Tacitus, Juvenal.		
*English Literature (51) Introductory.		4.	Rhetoric (54) Analysis of Prose.		4.
Cadet Service (men).			Cadet Service (men).		
Hygiene and Physical Training (women).			Hygiene and Physical Training (women).		

THIRD YEAR

Philosophy (51) Psychology.	4.	Philosophy (52) Logic and Ethics.	4.
†Major Study	4.	Major Study	4.

ELECTIVE

Eight hours a week through the year—chosen from the courses in this College, *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

FOURTH YEAR

†Major Study	5.	†Major Study	5.
Electives (as in third years)	10.	Electives (as in third year)	10.

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

No one will be admitted to candidacy for a degree later than the first day of October of his last year.

*The subject not taken the first semester, to be taken the second semester.

*Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

MODERN LANGUAGE COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51) or (55)	4.	French (52) or (56)	4.
German (51) or (55)	4.	German (52) or (56)	4.
Mathematics (67)	3.	Mathematics (68)	3.
Algebra, Analytics, Calculus.		Trigonometry, Analytics, Calculus.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
Composition.		Composition.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

One of the following (the choice being for the year):

Botany (51) or (57)	3.	Botany (52) or (58)	3.
Botany (55)	4.	Zoology (64)	4.
Systematic and Physiological.		Comparative.	
Chemistry (51)	3.	Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52)	3.
Comparative Zoology.		Comparative.	

SECOND YEAR.

French	4.	French	4.
German	4.	German	4.
*History (55)	} 4.	Economics (52)	} 4.
United States		Elementary	
or	} 4.	History (56)	} 4.
*Economics (51)		United States.	
Elementary.		English Literature (52).	
Rhetoric (53)	4.	Introductory.	
Analysis of Prose.		Cadet Service (men).	
Cadet Service (men).		Hygiene and Physical Training (women).	
Hygiene and Physical Training (women).			

THIRD YEAR.

Philosophy (51)	4.	Philosophy (52)	4.
Psychology.		Logic and Ethics.	
†Major Study	4.	†Major Study	4.

ELECTIVE

Eight hours a week through the year—chosen from the courses in this College, *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

* The subject not taken the first semester, to be taken the second semester.

† Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

FOURTH YEAR.

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
†Major Study	5.	†Major Study	5.
Electives (as in third year)	10.	Electives (as in third year)	10.

THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

No one will be admitted to candidacy for a degree later than the first day of October of his last year.

ENGLISH COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51) Elementary or German (51) Elementary.	4.	French (52) Prose and Plays or German (52) Elementary.	4.
History (151) European.		History (152) European.	
Mathematics (67) Algebra, Analytics, Calculus.	3.	Mathematics (68) Trigonometry, Analytics, Calculus.	3.
Rhetoric (51) Composition.	2½.	Rhetoric (52) Composition.	2½.
Rhetoric and English Language (69) History of English.	2.	Rhetoric and English Language (70) Development of Prose.	2.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

One of the following (the choice being for the year):

Botany (51) or (57)	3.	Botany (52) or (53)	3.
Botany (55) Systematic and Physiological.	4.	Zoology (54) Comparative.	4.
Chemistry (51) Inorganic.	3.	Chemistry (52) Inorganic.	3.
Physics (51) or (53) Mechanics, Heat, etc.	3.	Physics (52) or (54) Electricity, Magnetism, etc.	3.
Zoology (51) Comparative.	3.	Zoology (52) Comparative.	3.

* Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

SECOND YEAR.

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (55) Modern Literature or German (55) Literature.	4.	French (56) Modern Literature or German (56) Lyrics.	4.
*History (55) United States or *Economics (51) Elementary.	4.	Economics (52) Elementary or History (56) United States.	4.
Philosophy (53)	3.	Philosophy (54)	3.
Rhetoric (53)	4.	English Literature (52) Introductory.	4.
Rhetoric and English Language (71) Old English.	2.	Rhetoric and English Language (72) Old English.	2.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

THIRD YEAR.

Philosophy (55)	3.	Philosophy (56)	3.
†Major Study	4.	Major Study	4.

ELECTIVE

Eight hours a week through the year—chosen from the courses in this College, *except* that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any course or courses taught in the University; provided that the studies chosen are such as the student is qualified to pursue.

FOURTH YEAR.

Major Study	5.	Major Study	5.
Electives (as in third year)	10.	Electives (as in third year)	10.

THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

No one will be admitted to candidacy for a degree later than the first day of October of his last year.

* The subject not taken the first semester, to be taken the second semester.

COURSE IN COMMERCE AND ADMINISTRATION

Degree: Bachelor of Philosophy

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
French (51)	4.	French (52)	4.
Elementary.		Prose and plays.	
German (51)	4.	German (52)	4.
Elementary.		Elementary.	
History (151)	3.	History (152)	3.
European.		European.	
Mathematics (67)	3.	Mathematics (68)	3.
Algebra, Analytics, Calculus.		Trigonometry, Analytics, Calculus.	
Rhetoric (51)	2½.	Rhetoric (52)	2½.
Composition.		Composition.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR.

French (55)	} 4.	French (53)	} 4.
Modern Literature		Modern Literature	
or		or	
German (55)	} 4.	German (56)	} 4.
Literature.		Lyrics.	
*History (55)	} 4.	Economics (52)	} 4.
United States		Elementary	
or		or	
*Economics (51)	} 4.	History (53)	} 4.
Elementary.		United States.	
History (153)	3.	History (154)	3.
England.		England.	
Rhetoric (5)	4.	English Literature (52)	4.
Analysis of Prose.		Introductory.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

One of the following (the choice being for the year):

Botany (51) or (57)	3.	Botany (52) or (58)	3.
General Chemistry (51)	3.	General Chemistry (52)	3.
Inorganic.		Inorganic.	
Physics (51) or (53)	3.	Physics (52) or (54)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Zoology (51)	3.	Zoology (52)	3.
Comparative.		Comparative.	

THIRD YEAR.

†Elementary Law	6.	†Contracts	4.
Philosophy (51)	4.	Philosophy (52)	4.
‡Major Study	4.	‡Major Study	4.

ELECTIVE

From the courses mentioned in the departments below, selection may be made to make up the required number of hours. Not less than sixteen nor more than

* The subject not taken the first semester, to be taken the second semester.

† In place of Elementary Law six hours; Commercial Law four hours and Corporations (Private and Municipal) two hours may be substituted. Also in place of Contracts, four hours, any two of the following may be substituted; Corporations (Private), Insurance, Agency, Sales, Mortgages.

‡ See note page 79.

eighteen hours a week are permitted and no substitutions or options further than those indicated below.

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Economics	2 or 3.	Economics	2 or 3.
German	2 or 3.	German	2 or 3.
History	2 or 3.	History	2 or 3.
Political Science	2 or 3.	Political Science	2 or 3.
Rhetoric (57)	3.	Rhetoric (58)	3.
Romance Language	2 or 3.	Romance Language	2 or 3.

FOURTH YEAR.

†Major Study	5.	†Major Study	5.
Electives (as in third year)	10.	Electives (as in third year)	10.

THESIS

At the beginning of the Senior year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

No one will be admitted to candidacy for a degree later than the first day of October of his last year.

COURSE IN GENERAL SCIENCE

Degree: Bachelor of Science

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Botany (51) Elementary or Zoology (51) Comparative.	3.	Botany (52) Morphology and Classification or Zoology (52) Comparative.	3.
French (51) Elementary or German (51) Elementary.		French (52) Prose and Plays or German (52) Elementary.		4.
Chemistry (51) Inorganic.	3.	Chemistry (52) Inorganic.	3.
*Mathematics (67), (65) Algebra, Analytics, Calculus or Mathematics (55), (57) Trigonometry and Algebra.	4. 5.	*Mathematics (68), (66) Trigonometry, Analytics, Calculus. or Mathematics (56), (58) Algebra and Analytics.	4. 5.
Rhetoric (51) Composition.		2½.		Rhetoric (52) Composition.	2½.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

† Major Study. Not later than the beginning of the Third Year, each student shall elect a Major Study in one department or with the consent of the professors in charge, in two allied departments in this college. To the Major Study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours the fourth year. With the approval of the proper authority, the Major Study may be entered upon in the second year; an equivalent amount of the required work of that year, not in the line of the Major Study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week. In this case, the elective work of the third year will be reduced by a like amount.

* Students taking both Botany 51 and 52 and Zoology 51 and 52 will take Mathematics 67 and 68 as the required Freshman Mathematics.

SECOND YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Economics (51)	4.	Rhetoric (54)	4.
Political Economy.		Analysis of Prose.	
†French or †German	4.	French or German	4.
Physics (51)	3.	Physics (52)	3.
Mechanics, Heat, etc.		Electricity, Magnetism, etc.	
Physiology (51)	3.	Physiology (52)	3.
Human Anatomy.		Physiology.	
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

Together with one of the following subjects, to be continued through the year:

(a) Botany (57), (58), each three hours credit or (59), (60), each five hours' credit for a semester. (b) General Chemistry (53), (54), each five hours' credit. (c) Mathematics (59), (61), (60), (62), each five hours' credit for a semester. (d) Zoology (53), (54), each three hours' credit, or (55), (56), each five hours' credit.

THIRD YEAR

**Geology (61) and Astronomy (61) General	3.	Geology (62) and **Astronomy (62) General	3.
or	2.	or	2.
†French or German**	4.	**Astronomy (54) Mathematical.	5.
Philosophy (58)	3.	Philosophy (54)	3.
*Major Study	4.	Major Study	4.

Elective: Four hours a week through the year—chosen from the courses in this College, *except* that not earlier than the third year:

First: Studies equivalent to five hours a week for one year may be chosen from any courses taught in the University; provided, that the studies chosen are such as the student is qualified to pursue.

Second: Additional studies equivalent to five hours a week for one year may be chosen in the College of Engineering.

FOURTH YEAR.

Major Study (as in third year)	5.	Major Study (as in third year)	5.
Electives (as in third year)	10.	Electives (as in third year)	10.

THESIS

As a requisite for graduation each student must present an acceptable thesis embodying the results of a special research. The line of research must lie within

† It is desired that the student on completing this course, shall possess a good reading knowledge of both French and German. Therefore, the student entering on both French and German will take both languages in the University, each for one year. He who enters on one Modern Language will continue that language one year in case he cannot read easy prose at sight and take the other language for one year. In case a reading knowledge of one Modern Language is possessed, the student will take the other language two years. The third year of Language in the case of students making the Mathematics a specialty will be that language of which the student has the less knowledge.

** Students who elect Mathematics as their Major Study shall, in the Third Year, take French or German four hours the first semester and Astronomy five hours the second semester.

* Major Study. Not later than the beginning of the Third Year each student in this course shall elect a Major Study in Mathematics or in a Science in which Laboratory instruction is given. This Major Study shall be in one department, or with the consent of the professors in charge in two allied departments in this college. To the Major Study the student shall devote not less than five not more than ten hours a week during the Fourth Year.

the field of the major study, and is subject to the approval of the professor or professors having the major study in charge; and the student shall enter on this work not later than the beginning of the Senior year, and shall devote to it not less than two hours a week, or its equivalent, for one year, independently of his other work. The subject of thesis, together with a written approval of it by the professor or professors directing the investigation, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day. In case two or more students are pursuing the same major study, a joint research and thesis may be made.

THE SPECIAL COURSES

COURSE PREPARATORY TO LAW AND TO JOURNALISM

FOR ADMISSION

The requirements for admission to any of the four year courses in the College of Arts, Philosophy and Science; except that the applicant must not be less than eighteen years of age.

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
English Literature (51) Introductory.	4.	Economics (52) Elementary.	4.
French (51) Elementary or German (51) Elementary.	} 4.	French (52) Prose and Plays or German (52) Prose and Plays.	} 4.
History (151) European.	3.	History (152) European.	3.
Rhetoric (51) Composition.	2½.	Rhetoric (52) Composition.	2½.
Science, Elective	3.	Science, Elective	3.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR

Economics (55) Practical Problems.	2.	Economics (56) Industrial Reforms.	2.
English Literature Elective.	2 or 3.	English Literature Elective.	2 or 3.
European History (153) England.	3.	European History (154) England.	3.
American History (55) United States.	4.	Rhetoric (54) Analysis and Prose.	4.
Philosophy (53) Psychology.	3.	Philosophy (54) Logic.	3.
Rhetoric (55) Newspaper work.	1.	Rhetoric (56) Newspaper work.	1.
Rhetoric (56) History of English.	2.	Rhetoric (70) Development of Prose.	2.
Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

Note — A student desiring to continue French or German may substitute French (55 and 56), or German (55 and 56), for four hours of the studies of the second year. The studies thus deferred must be taken in the third year.

THIRD YEAR.

Not less than sixteen nor more than seventeen hours a week, including studies deferred from the second year; selections to be made from the following, subject to the conditions named in the "Departments of Instruction." In view of the fact that this is a special course for special purposes, no substitutions or options further than those indicated below, will be permitted.

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
American History (63), (65)	2.	American History (64), (66)	3.
Economics (58), (57), (59)	2.	Economics (54), (58), (60)	2.
English Literature	2 or 3.	English Literature	2 or 3.
European History (155), (157), (161)	2.	European History (156), (158), (162)	2.
Education (57)	2.	Education (54)	2.
Philosophy (55)	3.	Philosophy (56)	3.
Ethics.		Modern.	
Political Science (61), (65)	2.	Political Science (53), (56)	2.
Political Science (53)	3.	Political Science (54)	3.
Rhetoric (57), (69), (75)	3.	Rhetoric (58), (70), (76)	3.
Rhetoric (59)	2.	Rhetoric (60)	2.

COURSE PREPARATORY TO THE STUDY OF MEDICINE

The three-year course preparatory to the study of Medicine has been discontinued owing to the fact that the completion of this course would not, under the present requirements of the Association of Medical Colleges, enable the student to gain credit for a year's time in the medical course. While it is deemed wiser for the present not to offer a special four-year course leading to a degree, it is desired to point out that a student having a medical career in view when entering here, or determining on such a career within the first year or two of his university course, may make such elections in any of the general courses as to gain a full year's credit, both in work and time allowance in a medical college.

While studies differ in different medical curricula it may be noted that Chemistry, Zoology, Comparative Anatomy, Embryology, Histology, Physiology, Bacteriology and Materia Medica, as taught here will be accepted in the medical schools and election of these in their proper sequence will enable the student to qualify himself very thoroughly for his medical course.

Students having medicine in view will do well to consult with the professors having these studies in charge, with reference to the best sequence of election and those having a particular medical college in view can make their selections with special reference to its requirements. Students already entered in the Course Preparatory to the Study of Medicine may complete the work as arranged at the time of their entrance.

THE COLLEGE OF ENGINEERING

FOR ADMISSION TO THE FOUR-YEAR COURSES, AND TO THE COURSE IN ARCHITECTURE

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar*, and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's Academic or equivalent.

4. *Civil Government*—Fiske or Thorpe preferred.

5. *Geometry, Plane and Solid*—Venable, Wentworth, White, or Wells.

6. *History*—Myers's General History.

7. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential), Cæsar, the first four books of the *De Bello Gallico*.

Or *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French and to translate correctly into French simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The text read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

Or *German*—Joynes-Meissner's or Thomas's Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declen-

sions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages): Joyne's or Whitney's Reader, Hillern's Höher als die Kirche, Riehl's Der Fluch der Schönheit, Freytag's Die Verlorne Handschrift, Gerstäcker Irrfahrten.

Until the year 1902, the *German* or *French* required for admission may be begun at the University, but without University credits. For the year 1902 and thereafter, the full requirements as above stated will be held to.

8. *Physics*—Gage, Carhart and Chute, Avery or Appleton, complete.

Note—An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

No student will be admitted to the College of Engineering who is in arrears more than fifteen hours, of which not more than five hours may be in Mathematics.

COURSE IN CIVIL ENGINEERING

This course is arranged for students expecting to become surveyors or civil engineers. The plan of the course is to give (1) a thorough training in mathematics and mechanics, (2) the general principles underlying all branches of civil engineering, (3) the application of the general principles to the several branches of civil engineering. The subjects of land, railroad and topographical surveying are important features, and students can at once begin practical work. In the engineering work special attention is given to iron and steel bridge work, masonry construction and cement testing, road and railroad building and maintenance, water supply and the subject of the collection and disposal of sewage.

FIRST YEAR

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
or German (1)		or German (1)		or German (1)	
Chemistry (7)	5.	Chemistry (7)	5.	Metallurgy (2)	3.
Inorganic.		Inorganic.		Mineralogy.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Cadet Service.		Cadet Service.			

SECOND YEAR

Civil Engineering (1)	6.	Civil Engineering (4)	4.	Civil Engineering (2)	6.
Surveying.		C. E. Drawing.		Surveying.	
Drawing (3)	3.	Drawing (3)	5.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shades, Shadows & Per.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analysis.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics and Heat.		Electricity & Magnetism.		Light and Sound.	
Cadet Service.		Cadet Service.		Cadet Service.	

SUMMER COURSE

Civil Engineering (22). Four weeks—six days per week. Field work in land and railroad surveying.

THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Civil Engineering (3)	4.	Civil Engineering (24)	5.	Astronomy (6)	4.
Topog. Surveying.		C. E. Drawing.		Mathematical.	
Civil Engineering (16)	5.	Civil Engineering (6)	4.	Civil Engineering (7)	5.
Roads and Streets.		Stereotomy.		Bridge Stresses.	
Astronomy (4)	3.	Astronomy (5)	3.	Drawing (7)	2.
Mathematical.		Mathematical.		Photography.	
Mech. Engineering (6)	5.	Mech. Engineering (6)	5.	Mech. Engineering (7)	5.
Mechanics.		Mechanics.		Strength Materials.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	

SUMMER COURSE

Civil Engineering (38). Four weeks—six days per week. Field work in railroad and topographical surveying.

FOURTH YEAR

Civil Engineering (8)	5.	Civil Engineering (17)	5.	Civil Engineering (18)	5.
Bridge Designing.		Railways.		Water Supply.	
Civil Engineering (15)	5.	Civil Engineering (14)	2.	Civil Engineering (10)	5.
Masonry.		Cement Testing.		Sanitary Engineering.	
Elec. Engineering.		Elec. Engineering.			
Lectures (6)	2.	Lectures (6)	2.		
		Laboratory (7)	2.		
		Mech. Engineering (17)	3.	Mech. Engineering (35)	5.
		Laboratory.		Laboratory.	
Geology (5)	5.	Geology (6)	3.		
General.		Economic.			

* VOLUNTARY

* French (3), two hours; or German (2), two hours; or Rhetoric (4), two hours; each for the year.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of Civil Engineering. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department) not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN MINE ENGINEERING

This Course is arranged for students intending to become mining engineers and surveyors, metallurgical or technical chemists. The plan of work, therefore, while keeping mathematics, drawing and engineering prominent, also provides extended work in applied chemistry, chemical analysis, assaying, mineralogy, geology, and surveying with especial application to mines and underground work, while the treatment of ores, both mechanical in ore dressing and chemical in metallurgy, forms an important feature.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	2	Drawing (1) Freehand.	2	Drawing (2) Lettering.	3
French (1) or German (1)	} 4.	French (1) or German (1)	} 4.	French (1) or German (1)	} 4.
Chemistry (7) Inorganic.		5.		Chemistry (7) Inorganic.		5.	Metallurgy (2) Mineralogy.	3.
Mathematics (14) Plane Trigonometry.	5.	Mathematics (15), (16) Trigonometry, Algebra.	2, 3.	Mathematics (17) Plane Analytics.	5.
Rhetoric (5) Paragraph Writing. Cadet Service.	2½.	Rhetoric (5) Theme Writing. Cadet Service.	2½.	Rhetoric (5) Prose Analysis. Cadet Service.	2½.

SECOND YEAR

Drawing (3) Projections.	3.	Drawing (3) Descriptive Geometry.	3.	Drawing (3) Shades & Shadows.	3.
Mathematics (18) Space Analytics.	5.	Mathematics (19) Calculus.	5.	Mathematics (20) Calculus.	5.
Metallurgy (6) Laboratory.	5.	Metallurgy (5) Laboratory.	5.	Metallurgy (5) Laboratory.	5.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity & Magnetism.	3.	Physics (2) Light and Sound.	3.
Shopwork (7) Woodwork. Cadet Service.	2.	Shopwork (11) Forging. Cadet Service.	2.	Shopwork (4) Chipping and Filing.	2.

VOLUNTARY

French (3)	2.	or German (2) Each for the year.	2.	or Rhetoric (4)	2.
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THIRD YEAR

Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (6) Mechanics.	5.	Mech. Engineering (7) Strength Materials.	5.
Metallurgy (4) Fuels and Iron.	5.	Metallurgy (4) Steel, Copper, Gold, etc.	5.	Civil Engineering (10) Truss Stresses.	5.
Mine Engineering (4) Mine Surveying.	5.	Metallurgy (6) Assaying.	5.	Metallurgy (3) Deter. Mineralogy.	5.
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.

FOURTH YEAR

Elec. Engineering. Lectures (6) Laboratory (7)	2. 2.	Elec. Engineering. Lectures (6) Laboratory (7)	2. 2.	Mech. Engineering (3) Plans and Specifications.	5.
Geology (6) General.	5.	Geology (6) Economic.	3.	Mine Engineering (6) Plans and Specifications.	5.
Mine Engineering (5) Mine Engineering.	5.	Metallurgy (7) Metal Construction.	3.	Mine Engineering (5) Mine Engineering.	5.
Metallurey (8) Ore Dressing.	2.	Mine Engineering (5) Mine Engineering. Geology (7)	5. 2.	Drawing (7) Photography.	2.
		Petrography.			

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of such study must lie within the field of Metallurgy or of Mine Engineering. The subject must be

announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the fourth year; and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN MECHANICAL ENGINEERING

This Course has for its object the qualifying of men for the mechanical engineering profession. It aims to embrace preparation for such lines of pursuit as the successful management of machinery in manufacturing establishments; the superintendence of construction; the designing and laying out of machinery plants for mills and factories; the construction of machines for particular purposes, and the designing and drawing of the same, the making of calculations respecting strength, shocks, proportion, endurance, and suitability of material for specific purposes.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1) Freehand.	2.	Drawing (1) Freehand.	2.	Drawing (2) Lettering.	3.
French (1) or German (1)	} 4.	French (1) or German (1)	} 4.	French (1) or German (1)	} 4.
Chemistry (7) Inorganic.		5.		Chemistry (7) Inorganic.		5.	Shopwork (7) Carpentry and Pattern Making.	4.
Mathematics (14) Plane Trigonometry.	5.	Mathematics (15), (16) Trigonometry, Algebra.	2, 3.	Mechanics (17) Plane Analytica.	5.
Rhetoric (5) Paragraph Writing. Cadet Service.	2½.	Rhetoric (5) Theme Writing. Cadet Service.	2½.	Rhetoric (5) Prose Analysis. Cadet Service.	2½.

SECOND YEAR

Drawing (3) Projections.	3.	Drawing (3) Descr. Geometry.	3.	Drawing (3) Shades & Shadows.	3.
Mathematics (18) Space Analytica.	5.	Mathematics (19) Calculus.	5.	Mathematics (20) Calculus.	5.
Physics (2) Mechanics and Heat.	3.	Physics (2) Electricity & Magnetism.	3.	Physics (2) Sound and Light.	3.
Shopwork (11) Forging.	3.	Physics (7) Laboratory.	2.	Physics (7) Laboratory.	3.
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.
Shopwork (3) Foundry. Cadet Service.	2.	Shopwork (4) Chipping and Filing. Cadet Service.	3.	Shopwork (13) Machine Work. Cadet Service.	3.

VOLUNTARY

French (3)	2.	or German (2) Each for the year.	2.	or Rhetoric (4)	2.
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THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (5)	3.	Mech. Engineering (6)	5.	Drawing (7)	2.
Technical.		Mechanics.		Photography.	
Mathematics (11)	1.	Mech. Engineering (22)	3.	Civil Engineering (19)	5.
Differential Equations.		Timber and Masonry.		Truss Stresses.	
Mech. Engineering (6)	5.	Mech. Engineering (3)	5.	Mech. Engineering (7)	5.
Mechanics.		Mechanism.		Strength Materials.	
Metallurgy (4)	5.	Metallurgy (4)	2.		
Fuels and Iron.		Steel.			
Shopwork (14)	3.	Shopwork (15)	4.	Mech. Engineering (3)	2.
Machine Work.		Advanced Machine		Mechanism.	
Mech. Engineering (12)	2.	Work.		Mech. Engineering (32)	5.
Laboratory.				Power Plants.	

FOURTH YEAR

Elec. Engineering.		Elec. Engineering.		Industrial Arts (5)	3.
Lectures (6)	2.	Lectures (6)	2.	Shop Appliances.	
Laboratory (7)	2.	Laboratory (7)	2.		
Mech. Engineering (27)	5.			Mech. Engineering (19)	5.
Laboratory.				Machine Design.	
Mech. Engineering (33)	5.	Mech. Engineering (34)	5.	Mech. Engineering (15)	3.
Engines & Boilers.		Thermodynamics.		Laboratory.	
		Mech. Engineering (14)	4.	Mech. Engineering (31)	3.
		Laboratory.		Hydraulic Mach.	
Mech. Engineering (18)	5.	Mech. Engineering (18)	5.	Mech. Engineering (21)	5.
Mach. Design.		Mach. Design.		Thesis Work.	

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of such study must lie within the field of Mechanical Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department) not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN ELECTRICAL ENGINEERING

The object of this Course is to prepare students for the various pursuits in which the applications of electricity are prominent. Physics, especially theoretical and applied electricity, and mechanical engineering are naturally the leading subjects of the Course. General theory is treated in ample breadth, and is tested by experiments in well equipped laboratories. The laboratories are so conducted as to afford the student a degree of facility in the use of instruments and machinery only acquired by continued practice.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
French (1)	} 4.	French (1)	} 4.	French (1)	} 4.
or German (1)		or German (1)		or German (1)	
Chemistry (7)	5.	Chemistry (7)	5.	Shopwork (7)	4.
		Inorganic.		Carpentry & Pattern Making.	
Inorganic.				Mathematics (17)	5.
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Plane Analytics.	
Plane Trigonometry.		Trigonometry, Algebra.		Rhetoric (5)	2½.
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Prose Analysis.	
Paragraph Writing.		Theme Writing.		Cadet Service.	
Cadet Service.		Cadet Service.			

SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (8)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shade & Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Physics (3)	2.	Physics (3)	2.	Physics (3)	2.
Problems.		Problems.		Problems.	
Shopwork (11)	2.			Physics (5)	4.
Forging.				Laboratory.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.
Advanced.		Advanced.		Advanced.	
Shopwork (4)	2.	Shopwork (13)	3.		
Chipping and Filing.		Machine Work.			
Cadet Service.		Cadet Service.		Cadet Service.	

VOLUNTARY

French (3)	2.	or German (2)	2.	or Rhetoric (4)	2.
		Each for the year.			

THIRD YEAR

Drawing (5)	3.	Mech. Engineering (3)	5.	Industrial Arts (7)	3.
Technical.		Mechanism.		Machine Design.	
Mech. Engineering (6)	5.	Mech. Engineering (6)	5.	Mech. Engineering (28)	2.
Mechanics.		Mechanics.		Laboratory.	
Physics (6)	3.	Physics (6)	5.	Mech. Engineering (7)	5.
Laboratory.		Laboratory.		Strength Materials.	
Physics (4)	3.	Elec. Engineering (8)	4.	Mech. Engineering (32)	5.
Electricity & Magnetism.		D. C. Machine.		Power Plants.	
Shopwork (14)	3.			Elec. Engineering (9)	4.
Machine Work.				Laboratory.	

FOURTH YEAR

Elec. Engineering (10)	3.	Elec. Engineering (10)	3.	Elec. Engineering (13)	5.
Alt. Current Mach.		Alt. Current Mach.		Applications.	
Elec. Engineering (11)	3.	Elec. Engineering (14)	4.	Elec. Engineering (14)	4.
Laboratory.		Designing.		Designing.	
Mech. Engineering (4)	5.	Elec. Engineering (11)	3.	Elec. Engineering (4)	5.
Laboratory.		Laboratory.		Laboratory and Thesis.	
Mech. Engineering (8)	5.	Elec. Engineering (9)	5.		
Engines & Boilers.		Transmission.			
*Elective	3-5.	*Elective	3-5.	*Elective	3-5.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the result of a special study. The subject of such study must lie within the field of Electrical Engineering. The subject must be announced to the President of the University (dependent upon the written approval of the head of the Department) not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN CERAMICS

This course is designed to create a class of engineers who shall be fitted to render to the Clay, Glass and Cement Industries the same kind of services which

* Subject to the approval of the Professor of Electrical Engineering.

have long been rendered to Mining and Metallurgical Industries by graduates of Schools of Mines.

The problems of the Ceramic Industries are not unlike those of the Mining Industries, either in kind or in adaptation to methods of technical control; but the information and scientific equipment necessary to solve these problems successfully are peculiar to those industries alone, and in the past have received little or no attention from technical schools in this country.

This course is offered with the hope of filling this long standing gap in the scheme of engineering education in this country. It is essentially an Engineering Course, following closely the lines of the other engineering courses, up to the end of the second year. In the last two years, the training specializes along the lines of Ceramic and of the application of Chemistry to this subject.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2	Drawing (1)	2	Drawing (2)	3
Freehand.		Freehand.		Lettering.	
Chemistry (7)	5	Chemistry (7)	5	Shopwork (7)	4
Inorganic.		Inorganic.		Carpentering & Pattern Making.	
German (1) or (4)	4	German (1) or (4)	4	German (1)	} 4
				or	
Mathematics (14)	5	Mathematics (16), (16)	2, 3	French (1)	} 5
Plane Trigonometry.		Trigonometry, Algebra.		Mathematics (17)	
Rhetoric (5)	2½	Rhetoric (5)	2½	Plane Analytics.	
Paragraph Writing.		Theme Writing.		Rhetoric (5)	2½
Cadet Service.		Cadet Service.		Prose Analysis.	
				Cadet Service.	

SECOND YEAR

Ceramics (1)	5	Ceramics (2)	5	Ceramics (3)	5
Laboratory.		Laboratory.		Laboratory.	
Drawing (3)	3	Drawing (3)	3	Drawing (3)	3
Projections.		Descriptive Geometry.		Shades, Shadows.	
Mathematics (18)	5	Mathematics (19)	6	Mathematics (20)	5
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3	Physics (2)	3	Physics (2)	3
Mechanics and Heat.		Electricity & Magnetism.		Light and Sound.	
Physics (3)	2	Physics (3)	2	Physics (3)	2
Problems.		Problems.		Problems.	
Cadet Service.		Cadet Service.		Cadet Service.	

VOLUNTARY

French (3)	2	or German (2)	2	or Rhetoric (4)	2
		Each through the year.			

THIRD YEAR

Ceramics (4)	4	Ceramics (5)	5	Ceramics (6)	5
General Principles.		Bricks.		Pottery.	
Mine Engineering (4)	5	Ceramics (7)	5	Metallurgy (2)	3
Mine Surveying.		Advanced Chemical Laboratory Work.		Minerology.	
Mech. Engineering (6)	5	Mech. Engineering (6)	5	Mech. Engineering (7)	5
Mechanics.		Mechanics.		Strength Materials.	
Rhetoric (3)	2	Rhetoric (3)	2	Rhetoric (3)	2
Advanced.		Advanced.		Advanced.	
				Shopwork (11)	3
				Forging.	

FOURTH YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Ceramics (9)	5.	Ceramics (10)	5.	Ceramics (11)	5.
Manufacture of Bodies.		Glasses and Glazes.		Enamels and Colors.	
Shopwork (4)	3.	Ceramics (12)	5.	Ceramics (15)	5.
Chipping and Filing.		Cement.		Thesis Work.	
Geology (5)	5.	Ceramics (17)	4.	Ceramics (14)	5.
General.		Ceramic Construction.		Reports.	
Metallurgy (4)	5.	Geology (6)	3.	Drawing (7)	2.
Fuels and Iron.		Economic.		Photography.	

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of Ceramic Engineering. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than the beginning of the second term of the fourth year; and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN INDUSTRIAL ARTS

This course is designed to furnish a strong basis for those wishing to become teachers of Manual Training, and for those intending to enter the various branches of manufacture and industry, not as engineers, but as practical managers, superintendents or business men. The required part of the course combines with a general science training a large amount of drawing and shop work, in which the underlying principles and methods employed in various branches of industry are dwelt on. Large liberty of election of studies is allowed the student. His election, properly exercised, together with the required work will equip the student for a wide range of occupations along the lines stated. The aim of the course is educational as well as professional, the training of the mind and hand together.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2.	Drawing (1)	2.	Drawing (2)	3.
Freehand.		Freehand.		Lettering.	
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (2)	5.
Inorganic.		Inorganic.		Qualitative Analysis.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Mathematics (17)	5.
Plane Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
German (1)	4.	German (1)	4.	German (1)	4.
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (3) Projections.	3.	Drawing (3) Descriptive Geom.	3.	Drawing (3) Shades, Shadows.	3.
Physics (2) Mechanics, Heat.	3.	Physics (2) Electricity, Magnetism.	3.	Physics (2) Light, Sound.	3.
Physics (3) Problems.	2.	Physics (3) Problems.	2.	Physics (3) Problems.	2.
Shopwork (7) Woodwork.	3.	Shopwork (9) Adv. Pattern Making.	3.	Shopwork (8) Cabinet Work.	3.
Shopwork (3) Foundry.	3.	Shopwork (11) Forging.	3.	Shopwork (12) Adv. Forging.	3.
Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.	Rhetoric (3) Advanced.	2.
Economics (51) Elementary.	4.	Economics (51 and 56).		Economics (56) Ind. and Soc. Ref.	2.
Military Drill.		Military Drill.		Military Drill.	

THIRD YEAR

Drawing (5) Technical.	3.	Industrial Arts (2) Designing.	3.	Industrial Arts (2) Designing.	3.
Industrial Arts (1) Tools and Machines.	3.	Industrial Arts (1) Tools and Machines.	3.	Industrial Arts (1) Tools and Machines.	3.
Shopwork (4) Chipping and Filing.	3.	Shopwork (13) Machine Work.	3.	Shopwork (14) Machine Work.	3.
Metallurgy (4) Fuels and Iron.	5.	Metallurgy (4) Steel.	2.	Civil Engineering (21) Surveying.	3.
Economics (65) Commercial Geog.	2.	Economics (65). History (56).		Economics (58 or 66) History (56)	2.
Economics (55 or 57)	2.	Economics (55 or 57). Economics (58 or 66). Mech. Engineering (22)	3.	U. S. Political.	
		Timber and Masonry.			

FOURTH YEAR

Shopwork (15) Adv. Mach. Work.	3.	Shopwork (16) Adv. Mach. Work.	3.	Shopwork (17) Adv. Mach. Work.	6.
Political Science (53) Polit. Inst. of U. S.	3.	Political Science (53). Polit Inst. of U. S.			
Elec. Engineering (6) Lectures.	2.	Elec. Engineering (6) Lectures.	2.	Mech. Engineering (32) Power Plants.	5.
Elec. Engineering (7) Laboratory.	2.	Elec. Engineering (7) Laboratory.	2.		
Industrial Arts (3) Shop Equipment.	3.	Industrial Arts (3) Shop Appliances.	3.	Industrial Arts (3) Shop Management.	3.
Industrial Arts (4) Adv. Designing.	3.	Industrial Arts (4) Adv. Designing.	3.	Industrial Arts (4) Adv. Designing.	3.
Mech. Engineering (28) Laboratory.	2.	Mech. Engineering (29) Laboratory.	2.	Mech. Engineering (30) Laboratory.	2.
		Thesis.		Thesis	3.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis embodying the results of a special study. The subject of such study must lie within the field of Industrial Arts. The subject must be announced to the President of the University (dependent upon the written approval of the head of the Department), not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN CHEMISTRY

The object of this Course is to prepare students for work in Industrial Chemistry or Metallurgical Chemistry, according to electives chosen. With proper electives it will also be found a desirable course for students expecting to become general analytical chemists.

The electives are subject to the approval of the head of the department of Chemistry, or of Metallurgy and Mineralogy for students in Metallurgical Chemistry.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	2	Drawing (1)	2	Drawing (2)	3
Freehand.		Freehand.		Lettering.	
Chemistry (7)	5	Chemistry (7)	5	Chemistry (12)	5
Inorganic.		Inorganic.		Qualitative Analysis.	
German (1) or (4)	4	German (1) or (4)	4	German (1) or (4)	4
Mathematics (14)	5	Mathematics (15), (16)	5	Mathematics (17)	5
Plane Trigonometry.		Trigonometry, Algebra.		Plane Analytics.	
Rhetoric (5)	2½	Rhetoric (5)	2½	Rhetoric (5)	2½
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Chemistry (20)	4	Chemistry (20)	4	Chemistry (20)	4
Quantitative.		Quantitative.		Quantitative.	
Chemistry (21)	2	Chemistry (21)	2	Chemistry (21)	2
Physical Chemistry.		Physical Chemistry.		Physical Chemistry.	
German (5)	4	German (5)	4	German (5)	4
Scientific Reading.		Scientific Reading.		Scientific Reading.	
Physics (2)	3	Physics (2)	3	Physics (2)	3
Mechanics and Heat.		Electricity & Magnetism.		Sound and Light.	
Shopwork (7)	3	Shopwork (11)	3	Metallurgy (2)	3
Woodwork.		Forging.		Mineralogy.	
Cadet Service.		Cadet Service.		Cadet Service.	

Electives three to five hours throughout the year.

The following are suggested: Mathematics (18, 19, 20), 5 hours; Drawing (3), 3 hours; Physiology (3) 3 hours; History (5), 4 hours; Economics (1), 4 hours.

THIRD YEAR

Chemistry (8)	5	Chemistry (9)	5	Chemistry (9)	5
Organic.		Organic.		Organic.	
Metallurgy (5)	5	Metallurgy (6)	5	Metallurgy (5)	5
Laboratory.		Assaying.		Laboratory.	
Rhetoric (3)	2	Rhetoric (3)	2	Rhetoric (3)	2
Advanced.		Advanced.		Advanced.	

Electives five to eight hours throughout the year.

The following are suggested: Physical Laboratory, 3 to 5 hours; Geology, 5 hours—or Geology and Determinative Mineralogy, 5 hours; Shopwork, 3 hours.

FOURTH YEAR

Chemistry (17)	4	Metallurgy (4)	5	Chemistry (15)	4
Inorganic Preparations.		General.		Sanitary.	
Metallurgy (4)	5	Chemistry (16)	3	Ceramics (16)	3
Fuels and Iron.		Applied.		Applied.	
		Physiology (8)	2		
		Bacteriology.			

Electives to make the total work equal sixteen or eighteen hours, including Thesis work.

Students in Metallurgical Chemistry will take Ore Dressing the first term, and Metallurgy (4) 5, through the second term. For such students Chemistry (14, 15, 16) and Physiology (8) will not be compulsory.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of the study must lie within the field of Chemistry or Metallurgy. The subject must be announced to the President of the University (dependent upon the approval of the head of the department), not later than the beginning of the second term of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day.

COURSE IN ARCHITECTURE

This Course was established in 1896, to meet a growing demand for special training along this line. The extremely rapid developments, in late years, of novel methods of construction, the constantly extending list of materials used, and the creation of types of building entirely without precedent in the history of architecture, render it not only desirable, but imperative, that a large class of thoroughly trained and equipped men shall be brought forward, if this progress is to be maintained.

The employment in architecture of so many young men trained in other branches of engineering seems to prove the urgent need of those whose training is directed expressly to this end.

The Course offered gives a good training in mathematics, physics and mechanics, which are fundamental, together with a thorough drill in drawing, designing, shopwork, and the more technical branches of architecture proper.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	3.	Drawing (1)	3.	Mathematics (17)	5.
Freehand.		Freehand.		Plane Analytics.	
Chemistry (7)	5.	Chemistry (7)	5.	Metallurgy (2)	3.
Inorganic.		Inorganic.		Mineralogy.	
Mathematics (14)	5.	Mathematics (15), (16)	2, 3.	Modern Language	4.
Plane Trigonometry.		Trigonometry, Algebra.		French or German.	
Rhetoric (5)	2½.	Rhetoric (5)	2½.	Rhetoric (5)	2½.
Paragraph Writing.		Theme Writing.		Prose Analysis.	
Modern Language	4.	Modern Language	4.	Drawing (2)	3.
French or German.		French or German.		Lettering.	
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Drawing (3)	2.	Drawing (3)	5.	Drawing (3)	5.
Projections.		Descriptive Geom.		Shades, Shadows.	
Mathematics (18)	5.	Mathematics (19)	5.	Mathematics (20)	5.
Space Analytics.		Calculus.		Calculus.	
Physics (2)	3.	Physics (2)	3.	Physics (2)	3.
Mechanics, Heat.		Electricity, Magnetism.		Light, Sound.	
Architecture (9)	3.	Architecture (10)	3.	Architecture (11)	3.
History of Architecture.		History of Architecture.		History of Architecture.	
Architecture (12)	2.	Architecture (13)	2.	Architecture (14)	2.
Detail Drawing.		Detail Drawing.		Detail Drawing.	
Drawing (14)	2.				
Pen Drawing.					
Cadet Service.		Cadet Service.		Cadet Service.	

THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Mech. Engineering (6)	5.	Mech. Engineering (6)	5.	Mech. Engineering (7)	5.
Mechanics.		Mechanics.		Strength Materials.	
Architecture (15)	4.	Architecture (16)	2.	Architecture (17)	4.
Designing.		Designing.		Designing.	
Drawing (7)	2.	Drawing (12)	2.	Drawing (12)	2.
Photography.		Clay Modeling.		Clay Modeling.	
Elec. Engineering (6)	2.	Elec. Engineering (6 & 7)	4.		
Lectures.		Lectures and Lab.			
Architecture (5)	3.	Civil Engineering (6)	4.	Civil Engineering (19)	5.
Decorations, etc.		Stereotomy.		Trusses.	
Rhetoric (3)	2.	Rhetoric (3)	2.	Rhetoric (3)	2.

FOURTH YEAR

Architecture (18)	4.	Architecture (4)	2.	Architecture (6)	4.
Designing.		Specifications.		Estimates and Supt.	
Civil Engineering (15)	5.	Architecture (7)	5.	Architecture (19)	4.
Masonry.		Heating, Vent., etc.		Designing.	
Mech. Engineering (23)	4.	Architecture (8)	5.	Architecture (20)	5.
Materials of Const.		Designing.		Thesis.	
Geology (5)	5.	Geology (6)	3.	Civil Engineering (21)	3.
General.		Economic.		Surveying.	
		Drawing (18)	3.	Drawing (19)	2.
		Color Work.		Color work.	

THESIS

At the beginning of the fourth year, each student in this Course will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the beginning of the second semester of the fourth year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

REQUIREMENTS FOR ADMISSION TO THE SHORT COURSES IN MINING, IN CLAY-WORKING AND CERAMICS, AND IN INDUSTRIAL ARTS

Applicants must not be less than sixteen years of age; and unless they are over twenty-one years of age must pass an examination in Arithmetic, Geography, Grammar and Orthography, or bring High School or other certificates for these branches.

Applicants who are over twenty-one years of age are admitted without examination.

SHORT COURSE IN MINING

The Short Course in Mining is especially designed for young men who have had a practical experience in mines, and wish to study Mine Surveying, Drafting, the problems of Ventilation, Drainage, Haulage, Mine Operating, etc., and also something of the sciences bearing upon their work, but have neither the time nor the preparation for a full college course. The first year is devoted to a thorough study of the elementary mathematics and sciences necessary to prepare the student for the practical work of the second year. The experience of the past eight years

has shown beyond any doubt that any enterprising young miner can master the subject sufficiently well in the time assigned to materially increase his earning capacity and chances for promotion in his occupation.

Personal instruction is given, and it is made thoroughly practical and of such a character as to best adapt it to the needs of the individual student.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Mathematics (2)	5.	Mathematics (2)	5.	Mathematics (2)	5.
Algebra.		Algebra.		Algebra.	
Mathematics (3)	5.	Mathematics (13)	5.	Mathematics (14)	5.
Plane Geometry.		Geometry.		Trigonometry.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Physical Geography.	
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Drawing (1)	2.	Drawing (4)	3.	Drawing (2)	2.
Freehand.		Draughting.		Lettering.	
Drawing (3)	3.	Geology (4)	5.	Metallurgy (9)	5.
Projections.		Elementary.		Mineral Chemistry.	
Chemistry (7)	5.	Chemistry (13)	3.	Mine Engineering (3)	5.
Inorganic.		Laboratory.		Mine Operating.	
Mine Engineering (1)	5.	Mine Engineering (2)	5.	Shopwork (11)	3.
Mine Surveying.		Ventilation and Haulage.		Forging.	
Cadet Service.		Cadet Service.		Cadet Service.	

SHORT COURSE IN CLAY-WORKING AND CERAMICS

The two-year or Industrial Course is designed to assist young men who have already been actively engaged in the Ceramic industries, and who, on account of mature years, or lack of means, or lack of previous educational advantages, are unable to avail themselves of the full and complete course, and yet who wish to increase their earning power or chances of promotion by fitting themselves for other than routine labor. The requirements for admission to this course are very low, and the work required throughout is much less severe than that of the four-year course; in fact, anyone who is willing to really apply himself, can retain his membership in this class, but there is no place for any but those who are thoroughly in earnest, and poor work will not be accepted from those who are able to do good work.

In short, in this Industrial Course, the department recognizes its closest medium of communication with the wants of the clay industries, and it is intended to so maintain this course as always to render the greatest good to the greatest number.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Chemistry (7)	5.	Chemistry (7)	5.	Chemistry (12)	5.
Inorganic.		Inorganic.		Analytical.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Physical Geography.	
Mathematics (1)	5.	Mathematics (3a)	5.	Shopwork (11)	3.
Algebra.		Geometry.		Forging.	
Cadet Service.		Cadet Service.		Shopwork (4)	2.
				Chipping and Filing.	
				Cadet Service.	

SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Ceramics (1)	5.	Ceramics (2)	5.	Ceramics (3)	5.
Chemical Analysis.		Analysis of Clays.		Analysis of Glazes.	
Ceramics (4)	5.	Ceramics (5)	5.	Ceramics (6)	6.
General Principles.		Bricks.		Pottery.	
Geology (2)	5.	Geology (6)	3.	Drawing (11)	5.
General.		Economic.		Mechanical.	
		Drawing (1)	2.		
		Freehand.			
Cadet Service.		Cadet Service.		Cadet Service.	

SHORT COURSE IN INDUSTRIAL ARTS

This Course is primarily designed to extend the benefits of the same kind of training as that given in the four-year course in this subject to that class of young men who may be unable for any reason to undertake a course of four years' duration, but who aspire to become actively engaged in factory work. It has been the aim to give, in as condensed a form as possible, those studies which will most rapidly and easily be turned to practical account in manufacturing operations; such as drawing, shop work, use of machine, tools, etc., together with a grounding in the physics and mathematics which underlie these operations.

The Course will be found most valuable to young men already engaged in factory work, who find themselves limited from rising in their work on account of lack of technical education.

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Drawing (1)	1.	Drawing (1)	1.	Drawing (1)	1.
Freehand.		Freehand.		Freehand.	
Drawing (8)	2.	Drawing (8)	2.	Drawing (2)	2.
Geometric.		Projections.		Lettering.	
Mathematics (2)	5.	Mathematics (2)	5.	Mathematics (2)	5.
Algebra.		Algebra.		Algebra.	
Mathematics (3)	5.	Mathematics (13)	5.	Mathematics (14)	5.
Plane Geometry.		Space Geometry.		Trigonometry.	
Shopwork (7)	3.	Shopwork (9)	3.	Shopwork (11)	3.
Carpentry & Pattern Making.		Advanced Pattern Making.		Forging.	
Cadet Service.		Cadet Service.		Cadet Service.	

SECOND YEAR

Drawing (3)	3.	Drawing (3)	3.	Drawing (3)	3.
Projections.		Descriptive Geometry.		Shades, Shadows.	
Industrial Arts (1)	3.	Industrial Arts (1)	3.	Industrial Arts (1)	3.
Tools and Machines.		Tools and Machines.		Tools and Machines.	
Physics (1)	5.	Physics (1)	5.	Geology (1)	5.
Elementary.		Elementary.		Physical Geography.	
Shopwork (3), (4)	5.	Shopwork (13)	5.	Shopwork (15)	5.
Foundry and Chipping and Filing.		Machine Work.		Advanced Machine Work.	
Cadet Service.		Cadet Service.		Cadet Service.	

THE COLLEGE OF LAW

FOR ADMISSION

(Until September, 1901.)

The following are the requirements:

1. *To the First Year*—Applicants for admission to the First Year must present satisfactory evidence (by teacher's certificate—High School, Academy or College diploma—or by examination) of having a good common school education, including *United States History, Civil Government* and a thorough training in *English Composition*.

2. *The Second Year*—In addition to the requirements for admission to the First Year, applicants for admission to the Second Year must present satisfactory evidence of having completed the work of the First Year or its equivalent.

3. *To the Third Year*—In addition to the requirements for admission to the Second Year, applicants for admission to the Third Year must present satisfactory evidence of having completed the work of First and Second years, or its equivalent.

Students seeking a degree must, at the time of registration, present in addition to the requirements above mentioned satisfactory evidence of having completed a course of study, the minimum requirement of which is as follows:

Arithmetic, Civil Government, Geography, Grammar, History of the United States, Physical Geography, Physiology, Rhetoric, Physics, (Gage or an equivalent) Geometry, Algebra, (Wentworth's elements or an equivalent); and, in addition, the equivalent of 75 hours per week for one term of 12 weeks (a total of 900 hours) chosen from any five or more of the following subjects, one at least being a Science and two at least being in History or Political Science (unless the applicant is especially permitted to offer approved substitutes): *Botany, Chemistry, English Constitutional History, English History, English Literature, French, Geology, General History, German, Greek, Latin, Logic, Physics, Political Economy, Psychology, Surveying, Trigonometry, United States Constitutional History; provided, that not less than 65 hours for twelve weeks (a total of 780 hours) of this work shall be of collegiate or university grade. If this last mentioned work has been done by the candidate in a College or University of good standing, certificates of such institution will be accepted. In all other cases the candidate is subject to examination on the work required from this last group. In general, in the absence of satisfactory certificates, opportunity will be given for examination in any subject required for admission as above indicated. Blanks for applications for degrees will be furnished on request.*

FOR ADMISSION:

(On and after September, 1901.)

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: *Shakespeare's Merchant of Venice, Julius Caesar, and Macbeth; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Burke's Conciliation with the Colonies; Macaulay's Essays on Milton and Addison; The Sir Roger de Coverly Papers in The Spectator; Goldsmith's The Vicar of*

Wakefield; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's *Academic* or equivalent.

4. *Botany*—Kellerman's *Elementary Botany and Spring Flora*

5. *Civil Government*—Fiske or Thorpe preferred.

6. *Geometry, Plane and Solid*—Venable, Wentworth or Wells.

7. *History*—Either Myers's *General History* (or equivalent); or, if the teacher's training and the school library will warrant, Greek and Roman History on the topical method. A circular concerning the topical method will be sent on application.

8. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

9. Any two of the following languages, in the quantity indicated below. Latin, Greek, French or German, or any one of them and the group of subjects named under (e) below.

(a) *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Caesar, the first four books of the *De Bello Gallico*; Cicero, six orations, including *Pro Lege Manilia*; Vergil, the first six books of the *Aeneid*, with Prosody; Prose Composition, Daniell or Collar or Jones, entire.

(b) *Greek*—Grammar (Goodwin's preferred) and Prose Composition; or the first 100 lessons of White's *Beginner's Greek Book*. Reading: The first four books of Xenophon's *Anabasis*. At least two years should be devoted to this work.

(c) *French*—The whole subject of French Grammar. Applicants will be expected to read at sight easy French; and to translate correctly into French, simple English sentences. Two years ought to be given to this study, the first year being spent mainly on the Grammar with easy reading; the second devoted to reading good modern French, with grammatical analysis and exercises in writing. The texts read should be chiefly narrative and conversational prose; one or more prose comedies of the nineteenth (not the seventeenth) century should be included.

(d) *German*—Joynes-Meissner's or Thomas's Grammar is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax. The following books or their equivalents must have been read (not less than 600 pages). Joynes's or Whitney's *Reader*; Hillern's *Höher als die Kirche*; Riehl's *Der Fluch der Schönheit*; Freytag's *Die Verlorne Handschrift*, Gerstäcker *Irrfahrten*.

(e) While the preferred requirement is that each candidate shall offer any two of the foregoing languages, he will be permitted to offer in place of one of the two the following group:

1. *Chemistry*—Williams' or Remsen's.
2. *Physiology*—Martin's (briefer course).
3. *English Literature*—Pancoast's Introduction to English Literature and an acquaintance with representative works in each period; or, *English History*, Montgomery.

In addition to the foregoing requirements for admission to the work of the College, each candidate for a degree must submit satisfactory evidence that he has successfully pursued a course of study equivalent to the first two years of any course leading to a degree in the College of Arts, Philosophy and Science, of this University. Where this work has been done in a college or university of approved standing, the certificate of said college or university will be accepted. In all other cases the candidate will be subject to examination in such work.

COURSE IN LAW

FIRST YEAR

FIRST SEMESTER	Credit hours	SECOND SEMESTER	Credit hours
Elementary Law (including Domestic Relations)	15	Agency	2
		Contracts	4
		Criminal Law	3
		Sales	2
		Torts	4
	15		15

TEXT-BOOKS

First Semester—Elementary Law (Robinson, Walker, Tenth Ed., and Blackstone).

Second Semester—Agency (Mechem); Contracts (Bishop); Criminal Law (Hawley); Sales (Tiedeman); Torts (Cooley).

SECOND YEAR

Bailments	3	Construction of Contracts	2
Commercial Law	5	Evidence	2
Evidence	2	Partnership	2
Pleading	4	Pleading	2
Moot Court	1	Real Property	4
		Wills	2
		Moot Court	1
	15		15

TEXT-BOOKS

First Semester—Bailments (Hale); Commercial Law (Tiedeman); Evidence (Greenleaf, Sixteenth Ed.); Pleading (Phillips), and Kinkead's Selections.

Second Semester—Construction of Contracts (Jones); Partnership (Parsons); Real Property (Tiedeman); Wills (Page).

THIRD YEAR

Circuit and Supreme Court Practice	1	Corporations (Private)	2
Constitutional Law }	4	Corporations (Municipal), Negligence of. }	3
International Law }	4	Ethics	2
Corporations (Private)	2	Federal Practice	2
Corporations (Municipal)	2	Mortgages }	2
Equity Jurisprudence	4	Suretyship }	2
Probate Law	2	Trial Practice	2
Moot Court	1	Moot Court	1
	16		14

Thesis for graduation to count for two hours through second semester.

TEXT-BOOKS

First Semester—Constitutional Law (Black); Private Corporations (Taylor); Municipal Corporations (Tiedeman); Equity Jurisprudence; Probate Law (Whittaker's Probate Code).

Second Semester—Ethics (Sharswood); Trial Practice (Kinhead); Negligence of Municipal Corporations (Jones); Suretyship (Baylies).

PURPOSE AND METHODS

It is the purpose of this College to furnish such legal training as will secure the most favorable judgment of the profession, and such as will fit students for practice in any part of the country.

The aim is to teach an accurate knowledge of the principles of the law, and to illustrate the application of these principles to the practical affairs of life—to teach students both to know and to apply the law. The instruction offered includes a Course containing three years of nine months each. It requires about fifteen hours of lecture and recitation work per week each year, and embraces all the elementary and practical studies necessary for admission to the Bar of any State administering the Common Law.

The methods of instruction combine the advantages of all approved systems and appliances—the text-book and recitation system, the lecture system, and the case system. Charts, outlines, analyses, essays, note-taking, oral and written lectures, reviews and examinations are used; and exercises are given in drafting contracts, abstracts, conveyances, wills, protests, mercantile contracts, pleadings, indictments, and other legal papers. Briefs, arguments in moot courts, etc., are required. Attention is given to the study and accurate analysis of leading cases.

GENERAL REGULATIONS

IRREGULAR STUDENTS

In special cases, students who have had part of the studies of the First Year and part of those of the Second Year, or part of those of the Second Year and part of those of the Third Year, may be examined on whatever subjects they may select and may take part of the studies of both years, if the Faculty is satisfied that the applicants can do so to advantage. If candidates for a degree, such applicants must meet all the other requirements and have all the other qualifications of those seeking a degree.

SPECIAL STUDENTS

Persons wishing a knowledge of legal principles *for business purposes only*, but not intending to apply for a degree or to take a full course, may be admitted at any time as special students, and may avail themselves of such advantages of the College as they may deem expedient. Their convenience will not be taken into consideration in arranging classes, and they must make satisfactory arrangements as to fees, hours of recitation, etc., with the Dean.

ENTRANCE EXAMINATIONS

Entrance examinations, except for those seeking a degree, will not be technical; the object being to ascertain the results of previous training and practical capacity to appreciate the technical study of the law.

APPLICATIONS FOR DEGREES

At the time of registration all applicants who seek degrees should present their diplomas and certificates of work done. These certificates should state in detail

the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the rank or standing of the candidate in it. A copy of the course of study must accompany the certificate in all cases, and must accompany it where equivalents are offered. These statements should also be accompanied by information as to age, occupation, experience, and work done since leaving school. Blanks for application will be furnished on request made to the Dean.

EXAMINATIONS

Examinations are held from time to time to test the student's knowledge of the work he has gone over. They are usually written, but sometimes oral.

THESIS

Each candidate for a degree is required to prepare and deposit with the Faculty, at least six weeks before the end of the year of graduation, a thesis of not less than fifteen hundred nor more than five thousand words, exclusive of citations of authorities, upon some subject selected by himself with the approval of the professor giving instruction in that division of law from which the subject is chosen.

DEGREES

The degree of Bachelor of Laws (LL. B.) will be conferred on all who, being at least twenty-one years of age and having met the requirements necessary for entrance for a degree, pass satisfactorily the examinations at the close of the Senior year, after having done at least the last year's work in the College of Law at the University, and having presented a thesis acceptable to the Faculty.

The degree of Master of Laws will be conferred upon any one who has received the degree of Bachelor of Laws at this University, or other approved University or College, upon completing the studies of the Graduate year, and satisfactorily passing an examination therein, and presenting a satisfactory thesis; the subject of which has been chosen from the field included in the Graduate year.

CERTIFICATES OF WORK DONE

Those who have completed the studies of the College, but have not complied with the requirements for a degree, will be given an official certificate, showing the work done, and signed by the President of the Board of Trustees, the President of the University, and the Dean of the College of Law.

ADMISSION TO THE BAR

The regular Supreme Court examination for the admission to the bar is held on the first Tuesday in June of each year. Seniors are required to take this examination before they can receive the degree or certificate above mentioned.

COURSE OF INSTRUCTION

The Course of Study is three years of nine months, or thirty-six weeks, each; covering about fifteen hundred hours of work. It is so arranged that each class will have an average of three recitations a day, each one hour in length, thereby doing the same amount of work that is done in a regular University course.

MOOT COURT

Second Year and Third Year students will have Moot Court, under the supervision of the Dean, throughout the year, not less than one hour each week. The

object of Moot Court is to give practical insight into the conduct of trials, examination of witnesses, production of evidence, etc.

ADVANTAGES

LOCATION

Attention is called to Columbus as a place in which to study law. Here the Legislature meets. Here are the Supreme Court and Circuit Court; four branches of the Common Pleas Court, in almost daily session throughout the college year; the Probate Court, the County Commissioners, the City Court, the several Magistrates' Courts; also the U. S. Circuit and District Courts. All are easy of access from the College. "There is no place where law is learned so quickly and thoroughly as among the lawyers. No teaching is so effective as the object lessons of the trial of cases in court."

LIBRARIES

The following libraries are accessible to the students:

The Law Library of the College contains the Noble Law Library, the Emerson McMillin Law Library, the Critchfield Law Library, and three sets of the Ohio and the Ohio State Reports; about 3,000 well selected volumes.

The University Library contains 25,000 volumes of very carefully selected books upon all subjects. This is quite complete in the more recent standard works upon history and political science, philosophy, etc. A good collection of the leading scientific, technical and literary magazines and journals is to be found here.

The State Law Library, of about 35,000 volumes—the largest and most complete Law Library in the State. It contains complete sets of the English, Scotch, Irish, Canadian, United States, and State Reports, Statutes and Digests, as well as all the important text books and leading periodicals published. This library is located in the new State Supreme Court building. It is designed wholly for reference, and students are warned that they must not use the library rooms as a study room, and that the text books found here are to be used for reference only. No student is expected, nor will he be permitted, to use these books instead of providing himself with those required in the course.

The State Library, in the State House—a library of general literature, history, science, biography, political and social science, philosophy, etc., comprising some 65,000 volumes. The leading magazines, journals, etc., are also to be found here.

The University Libraries are open from 7:30 a. m. to 9:30 p. m. during the five days in which the University is in session, and on Saturdays from 8 a. m. to 4 p. m. The State Law Library is open six days in the week, from about 8:30 a. m. to 5:30 p. m., with the exception of about an hour or an hour and a half at noon. The State Library is open six days in the week from 9 a. m. to 12 m., and from 2 p. m. to 5 p. m.; and when the Legislature is in session, from 7 p. m. to 9 p. m.

The City Library, with 30,000 volumes and a fine reading room, may also be used by students, under reasonable restrictions.

THE UNIVERSITY COURSES

Attention is called to the great advantage of attending a law school in close and vital connection with the University affording the means of a liberal, practical and technical education. Students who are disposed to work faithfully may, at the same time that they are acquiring a technical knowledge of the law, supplement their general education by joining University classes, in departments which they may elect, subject to the requirements for admission to such departments, without extra-charge except for laboratory work. Not alone from the courses in History and Political Science, or from those in Mental and Moral Philosophy, should this

work be selected, but also from the courses in Civil, Mine, Mechanical, and Electrical Engineering, from the courses in Anatomy and Physiology, Economic Geology, etc. To the average practitioner, there will come ten questions involving the principles of surveying or engineering to one of the constitutional law or English history. Not a day passes in the litigation of the courts but that numerous questions of anatomy, physiology, surveying or engineering arise and are to be decided. Particular attention, therefore, is called to the technical courses offered by the University, which will be open to those in the College of Law who are able to take them without interfering with the required law work. The following departments offer courses which will prove beneficial to those who have not had such training as would enable them to take more technical work: Botany, Physiology, Physics, Civil Engineering, Mine Engineering, Chemistry (Toxicology), Geology, Philosophy, History, English.

EXPENSES

Each undergraduate student of the University is required to pay an incidental fee of fifteen dollars a year, and in this College a tuition fee of forty-five dollars; a total of thirty dollars for each semester, which is payable at the beginning of each semester.

Graduate students are required to pay a fee of thirty dollars for the year.

A fee of five dollars (to cover the expenses of graduation, diplomas, certificates, etc.) is charged to all who receive the diploma or certificate, and a fee of ten dollars is charged to those taking the degree of Master of Laws. These fees must be paid before the degrees are conferred, or certificates delivered.

Good boarding and lodging, convenient to the University, can be obtained at from \$3.50 to \$5.00 per week.

The text-books used in this College can be obtained at the University at students' prices. The University has no pecuniary interest in these books or the sale of them, and they are permitted to be sold here merely for the convenience of the students.

The books for the first year.....	\$ 41 00
For the second year.....	40 00
For the third year.....	36 00
	<hr/>
Total for three years.....	\$ 117 00

THE COLLEGE OF PHARMACY

FOR ADMISSION TO THE FOUR-YEAR COURSE

The following are the requirements:

1. *Arithmetic, Descriptive and Physical Geography, English Grammar, and United States History.*

2. *English Composition and English Classics.*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar*, and *Macbeth*; Milton's *Lycidas*, *Comus* *L'Allegro*, and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's *Academic* or equivalent.

4. *Botany*—Kellerman's *Elementary Botany* and *Spring Flora* or equivalent.

5. *Civil Government*—Fiske or Thorpe preferred.

Or *History*—Myers's *General History*.

6. *Geometry, Plane and Solid*—Venable, White, Wentworth, or Wells.

7. *Latin*—Pronunciation (the Roman Method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first three books of the *De Bello Gallico*.

Or *German*—Joynes-Meissner's or Thomas's *Grammar* is recommended. The essentials in these grammars should have been mastered thoroughly, i. e., declensions of nouns and adjectives, pronouns, comparison of adjectives, prepositions, regular and irregular verbs and essentials of syntax.

The following books or their equivalents must have been read (not less than 600 pages.) Joynes's or Whitney's *Reader*; Hillern's *Höher als die Kirche*; Riehl's *Der Fluch der Schönheit*; Freytag. *Die Verlorne Handschrift*; Gerstäcker *Irrfahrten*.

For the present, the *German* required for admission may be begun at the University, but without University credits.

8. *Physics*—Carhart and Chute, Gage, Avery, or Appleton.

COURSE IN PHARMACY

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

Degree: Bachelor of Science in Pharmacy

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Chemistry (7) Inorganic.	5.	Chemistry (7) Inorganic.	5.	Chemistry (12) Qualitative Analysis.	5.
Latin (1) Pharmaceutical or German (1) Elementary.	5. 4.	Latin (1) Pharmaceutical or German (1) Elementary.	5. 4.	Latin (1) Pharmaceutical or German (1) Elementary.	5. 4.
Mathematics (14) Plane Trigonometry.	5.	Mathematics (15), (16) Spherical Trigonometry, Algebra.	5.	Mathematics (17) Plane Analytics.	5.
Rhetoric (5) Paragraph Writing. Cadet Service (men). Hygiene and Physical Training (women).	2½.	Rhetoric (5) Theme Writing. Cadet Service (men). Hygiene and Physical Training (women).	2½.	Rhetoric (5) Prose Analysis. Cadet Service (men). Hygiene and Physical Training (women).	2½.

SECOND YEAR

Botany (6a) Systematic, Physiological.	5.	Botany (4) Medical.	2.		
Chemistry (20) Laboratory.	4.	Chemistry (20) Laboratory.	4.	Chemistry (20) Laboratory.	4.
German (2) Scientific Reading.	2.	German (2) Scientific Reading.	2.	German (2) Scientific Reading.	2.
Pharmacy (6) General Processes.	3.	Pharmacy (7) U. S. Pharmacopeia.	5.	Pharmacy (8) Dispensatories, etc.	5.
Physics (11) Mechanics and Heat.	3.	Physics (11) Electricity & Magnetism.	3.	Physics (11) Sound and Light. Metallurgy (2) Mineralogy.	3.
Chemistry (21) Advanced Inorganic and Physical. Cadet Service (men). Hygiene and Physical Training (women).	2.	Chemistry (21) Advanced Inorganic and Physical. Cadet Service (men). Hygiene and Physical Training (women).	2.	Chemistry (21) Advanced Inorganic and Physical. Cadet Service (men). Hygiene and Physical Training (women).	2.

THIRD YEAR

Pharmacy (9) General Processes.	5.	Pharmacy (10) Prescriptions.	5.	Pharmacy (11) Dispensatories, etc.	5.
Pharmacy (12) Materia Medica.	3.	Pharmacy (13) Materia Medica.	3.	Pharmacy (14) Mat. Medica & Thera.	3.
Physiology (1) Human Anatomy.	3.	Physiology (1) Physiology.	3.	Physiology (1) Physiology.	3.
General Chemistry (8) Organic.	5.	Physiology (8) Bacteriology.	2.	Physiology (5) Microscopy.	2.
		General Chemistry (9) Laboratory.	5.	General Chemistry (9) Laboratory.	5.

FOURTH YEAR

Geology (5) General.	5.	Geology (6) General.	3.	General Chemistry (11) Toxicology.	4.
Pharmacy (15) Assaying. Thesis.	5.	Pharmacy (16) General. Thesis.	5.	Pharmacy (17) General. Thesis.	5.

Chemistry elective for the year—five hours.
Elective, three hours through the year.

THESIS

As a requisite for graduation, each candidate must present an acceptable thesis embodying the results of special study and research. The subject must be within the field of Pharmacy, and must be announced to the President of the University (dependent upon the written approval of the proper authorities) not later than the beginning of the second term of the fourth year of the Course. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

SHORT COURSE IN PHARMACY

FOR ADMISSION

Candidates for admission who are less than twenty-one years of age must be prepared in the common English branches. Teachers' certificates (in force), or credentials from approved schools, will be accepted in lieu of an examination.

FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Chemistry (7)	5.	Chemistry (7)	5.	Botany (1)	5.
Inorganic.		Inorganic.		Elementary.	
Latin (1)	5.	Latin (1)	5.	Chemistry (12)	5.
Pharmaceutical.		Pharmaceutical.		Qualitative Analysis.	
Physics (1)	5.	Physics (1)	5.	Latin (1)	5.
Elementary.		Elementary.		Pharmaceutical.	
Pharmacy (6)	5.	Pharmacy (7)	5.	Pharmacy (8)	5.
General Processes.		U. S. Pharmacopœia.		Dispensatories, etc.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

SECOND YEAR

Botany (6a)	5.	Botany (4)	2.	Chemistry (11)	4.
Systematic, Phys.		Medical.		Toxicology.	
Chemistry (18)	5.	Chemistry (18), (19)	5.	Chemistry (19)	5.
Organic.		Organic.		Organic, Quantitative.	
Pharmacy (9)	5.	Pharmacy (10)	5.	Pharmacy (11)	5.
Phar. Chemistry.		Prescription Practice.		Dispensing Practice.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Human Anatomy.		Physiology.		Physiology.	
		Physiology (8)	2.	Physiology (5)	2.
		Bacteriology.		Microscopy.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

COLLEGE OF VETERINARY MEDICINE

FOR ADMISSION:

The following are the requirements:

I. For applicants for certificates of Veterinary Surgeon: *Arithmetic, Geography and Grammar.*

II. For applicants who intend to become candidates for the degree of Doctor of Veterinary Medicine:

1. *Arithmetic, Grammar, and Descriptive and Physical Geography.*
2. *English Composition and Rhetoric*—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of two essays of about two hundred words each. The first essay will be upon a subject drawn from the candidate's observation or experience; as "A description of my native town," "The most remarkable person I ever met," "My reasons for seeking a University education." The second essay will be upon a subject drawn from a list of classics which will be furnished on application.
3. *History*—History of the United States, Johnson preferred.
4. *Latin or German*—One year.
5. *Physics*—Gage, Carhart and Chute, Avery, or Appleton.
6. *Botany*—Kellerman's Elementary Botany and Spring Flora or equivalent.

COURSE IN VETERINARY MEDICINE

Note—The figure in parenthesis following the name of each study indicates the number of that study in its department. A full description of department work follows this statement of Courses.

Degree: Doctor of Veterinary Medicine

FIRST YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Agr'l Chemistry (1)	5.	Agr'l Chemistry (8)	5.	Agr'l Chemistry (9)	5.
Principles.		Organic.		Applications.	
Physiology (1)	3.	Physiology (1)	3.	Physiology (1)	3.
Human Anatomy.		Physiology.		Physiology.	
Physiology (4)	5.	Physiology (4)	5.	Physiology (4)	5.
Histology.		Histology.		Phys. Chemistry.	
Veterinary Medicine (28)	5.	Veterinary Medicine (28)	5.	Veterinary Medicine (28)	5.
Anatomy.		Anatomy.		Anatomy.	
Cadet Service.		Cadet Service.			

SECOND YEAR

Agriculture (8)	4.	Agriculture (9)	4.	Agriculture (10)	4.
Breeds of Live Stock.		Stock Breeding.		Stock Feeding and Hygiene.	
Pharmacy (12)	5.	Pharmacy (13)	5.	Pharmacy (18)	5.
Materia Medica.		Materia Medica.		Laboratory.	
Veterinary Medicine (14)	4.	Veterinary Medicine	5.	Veterinary Medicine	5.
General Pathology.		Theory & Practice.		Theory & Practice.	
Veterinary Medicine	1.	Veterinary Medicine (18)	5.	Veterinary Medicine (18)	5.
Helminthology.		Surgical Diseases.		Surgical Diseases.	
Veterinary Medicine (19)	12.	Veterinary Medicine (19)	12.	Veterinary Medicine (19)	12.
Clinic.		Clinic.		Clinic.	
Veterinary Medicine (24)	5.				
General Surgery.					
Cadet Service.		Cadet Service.		Cadet Service.	

¹An applicant for admission who may be somewhat in arrears in any given subject, will find opportunity to make up this work in the Columbus High Schools, which are fully accredited by the University.

THIRD YEAR

FIRST TERM.	Credit hours	SECOND TERM.	Credit hours	THIRD TERM.	Credit hours
Veterinary Medicine Theory & Practice.	3.	Veterinary Medicine (21) Theory & Practice.	3.	Veterinary Medicine (22) Therapeutics.	5.
Veterinary Medicine (19) Clinic.	12.	Veterinary Medicine (25) Practice in Operating.	3.	Veterinary Medicine (19) Clinic.	12.
Veterinary Medicine (27) Meat Inspection.	4.	Veterinary Medicine (19) Clinic.	12.	Veterinary Medicine (26) Horse Shoeing.	5.
Veterinary Medicine (18) Surgical Diseases.	5.	Physiology (6) Bacteriology.	3.	Veterinary Medicine (33) Ophthalmology.	2.
Veterinary Medicine (31) Canine Diseases.	3.	Veterinary Medicine (33) Obstetrics.	3.	Thesis	2.
Veterinary Medicine Milk Inspection.	1.	Veterinary Medicine (32) Canine Diseases.	3.		
		Thesis	2.		

THESIS

As a requisite for graduation candidates for the degree of D. V. M. must present an acceptable thesis embodying the results of a special research. The subject must be announced to the President of the University (dependent upon the written approval of the head of the department in which it lies) not later than the beginning of the second term of the third year. The completed thesis must be submitted not later than the second Saturday before Commencement Day.

Candidates for a Certificate of Veterinary Surgeon are not required to present a thesis.

THE DEPARTMENTS

The Departments

1900-1901

The subjects set forth under each Department limit and define the administrative authority and responsibility of the head of that Department.

AGRICULTURE

[TOWNSHEND HALL]

Professor Hunt, Associate Professor Gibbs, Assistant Professor Decker, Mr. Herrick, Mr. Ruhlen.

- 8¹. **BREEDS OF LIVE STOCK.** Lectures and recitations three times a week upon the history, characteristics, adaptation, care and management of the different breeds of domestic animals. Practicum once a week in scoring and judging live stock. First term.
9. **PRINCIPLES OF BREEDING.** Lectures and recitations three times a week upon laws of heredity and their practical applications. Practicum once a week in scoring and judging live stock, and in writing and tracing pedigrees. Second term.
10. **STOCK FEEDING AND HYGIENE.** Lectures and recitations three times a week upon the laws of nutrition, the character of food stuffs, the relation of the food to the animals, and the kind and quantity of food to produce given effects. Practicum once a week in calculating digestibles, nutritive ratios and feeding standards. Third term.
11. **FARM EQUIPMENT.** Lectures and recitations three times a week upon selecting, planning and equipping farms; planning and erecting farm buildings and fences; building roads; farm vehicles and machinery; power, water and drainage. Practicum once a week in drawing plans of farms and farm buildings; leveling and laying drains; dynamometer tests of wagons and farm implements. First term.
12. **SOILS.** Lectures and recitations three times a week upon the origin, formation, kinds, and physical properties of soils, and their improvement by cultivation; fertilization, drainage, and irrigation. Practicum once a week in laboratory testing physical properties of several soils, determining the relation of soils to heat, moisture, air, and fertilizers, and making mechanical analysis. Second term.
13. **FARM CROPS.** Lectures and recitations three times a week upon the history, production, marketing, cultivation, and harvesting of farm crops. Practicum once a week with growing and dried specimens of farm crops, including grasses, clovers, and other forage crops. Third term.
14. **ANIMAL MECHANICS AND EXTERIOR.** Lectures and recitations three times a week upon animal mechanics, proportions, and the relation of the latter to specific uses. Practicum once a week in measuring animals and testing the value of given measurements for given purposes. First term.

¹ These numbers are "finding numbers," and do not necessarily indicate the sequence of topics.

15. **BUTTER MAKING AND CHEESE MAKING.** Recitations twice a week. Laboratory practice two half days each week in running separators, churning and working butter, making cheese, and testing and pasteurizing milk. Second term.
16. **HISTORY OF AGRICULTURE AND RURAL ECONOMICS.** Lectures and recitations upon the history of agriculture; present agricultural methods in various countries; cost and relative profits of various farm operations and systems. Four times a week. Third term.
5. **DAIRY FARMING.** Lectures twice a week upon breeds, and upon feeding, breeding and selecting dairy stock; equipment and management of dairy farms. Practicum once a week in scoring and judging live stock, writing pedigrees, and calculating feeding standards. Second term.
6. **BUTTER MAKING AND CHEESE MAKING.** Practice in running separators, churning and working butter, etc., making cheese and testing and pasteurizing milk. Four half days each week. Second term.
7. **BUTTER MAKING AND CHEESE MAKING.** Lectures and recitations. Two hours each week. Second term.
15. **BUTTER AND CHEESE MAKING.** Lectures twice a week. Laboratory practice twice each week. This course is the same as courses 6 and 7, except that less laboratory practice is taken. Second term.
17. **MILK SANITATION.** Three times a week. First term. Lectures on and laboratory practice in what constitutes pure dairy products.

AGRICULTURAL CHEMISTRY

[TOWNSHEND HALL, Rooms 29, 35, 34 and 30]

Professor Weber, Mr. Vinsom

1. **PRINCIPLES OF CHEMISTRY AND CHEMICAL NOMENCLATURE.** Lectures and textbooks for three or four weeks, five times a week; then lectures twice a week on Chemistry of Non-metals, and laboratory practice three times a week. First term.
8. **ORGANIC CHEMISTRY.** Lectures twice a week; laboratory practice three times a week. Second term.
9. **APPLICATION OF CHEMISTRY TO AGRICULTURE.** Lectures twice a week; laboratory three times a week. Third term.
4. **LABORATORY.** Analysis of fertilizers, feed-stuffs, dairy products, fruits, vegetables, alcoholic liquors, etc. Five laboratory periods a week through the year.
7. **CHEMISTRY OF MILK AND MILK TESTING.** Twice a week. Dairy Course.
6. **LABORATORY.** Elective. Five or three times a week through the year.

AMERICAN HISTORY AND POLITICAL SCIENCE

(See History.)

ANATOMY AND PHYSIOLOGY

[BIOLOGICAL HALL, Rooms 12 and 20]

Professor Bleile, Assistant Professor Morrey, Mr. Dresbach

Mr. Ball

COLLEGES OF AGRICULTURE, PHARMACY, AND VETERINARY MEDICINE

1. **HUMAN ANATOMY AND PHYSIOLOGY.** Lectures, recitations and laboratory work three times a week. First, second and third terms. This course must be preceded by, or accompanied with, a course of chemistry.

2. **GENERAL PHYSIOLOGY.** Lectures recitations and demonstrations. Three times a week. Third term. [Short Course in Agriculture.]
3. **CHEMICAL PHYSIOLOGY.** Three times a week. Third term. [Domestic Economy Course.]
4. **HISTOLOGY AND HISTO-CHEMISTRY.** Five times a week through the year. This course must be preceded by, or accompanied with, a course in chemistry.
5. **MICROSCOPY AND URINARY ANALYSIS.** Lectures and laboratory work. Twice a week. Third term.
6. **BACTERIA,** in their relation to Milk, Butter and Cheese. Lectures and laboratory work. Twice a week. Second term.
7. **BACTERIOLOGY.** Three times a week. Second term. [Veterinary Medicine.]
8. **BACTERIOLOGY.** One lecture, one laboratory period, a week. Second term. [Pharmacy.]
9. **PHYSIOLOGICAL LABORATORY.** Three times a week. [May include work in bacteriology.]

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

First Semester

- 51¹. **HUMAN ANATOMY AND PHYSIOLOGY.** Lectures, recitations and laboratory work. Three times a week.
53. **PHYSIOLOGICAL LABORATORY.** Three laboratory periods a week.
55. **PHYSIOLOGICAL LABORATORY.** Five laboratory periods a week.
57. **BACTERIOLOGY.** One lecture, one laboratory period a week.
59. **HISTOLOGY AND HISTO-CHEMISTRY.** Laboratory. Five laboratory periods a week.
61. **BACTERIOLOGY.** One lecture, two laboratory periods a week.

Second Semester

52. Continuation of Course 51. Three times a week.
54. Continuation of Course 53. Three laboratory periods a week.
56. Continuation of Course 55. Five laboratory periods a week.
58. **MICROSCOPY.** Lectures and laboratory work. Twice a week. Last half of semester.
60. Continuation of Course 59. Five laboratory periods a week.
62. Same as Course 61.

ANCIENT ART

(See Greek Language and Literature.)

ARCHITECTURE

(See Drawing.)

¹ "Finding numbers" from 51 upwards always indicate Semester work.

ASTRONOMY

[THE EMERSON McMILLIN OBSERVATORY.]

*Associate Professor H. C. Lord, Director of the Observatory.**Mr. J. Warren Smith, Lecturer on Meteorology.*

COLLEGE OF ENGINEERING

4. **ASTRONOMY, GEODESY AND LEAST SQUARES.** Lectures on practical Astronomy, supplemented by practice with the instruments of the Emerson McMillin Observatory. Text-book, Doolittle. Three times a week. (First Term, third year, Course in Civil Engineering.)
5. Continuation of 4. Three times a week. (Second Term, third year, Course in Civil Engineering.)
6. Continuation of 5. Four times a week. (Third Term, third year, Course in Civil Engineering.)

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

- 61, 62. **GENERAL ASTRONOMY.** Lectures and recitations twice a week throughout the year.
- 63, 64. **ASTRONOMY AND GEODESY.** Lectures on practical Astronomy, supplemented by practice with the instruments of the Emerson McMillin Observatory. Open to students who have had the Calculus. Text-book, Doolittle. Three times a week throughout the year.
- 55, 56. **THEORETICAL ASTRONOMY.** Lectures and Observatory practice. The theory of the undisturbed motion of a planet or comet and the calculation of ephemerides. Parabolic orbits from three complete observations. Orbits from three complete observations, including the eccentricity. Work in the Observatory with the twelve-inch equatorial. Definite orbits. Observatory work continued. Authorities: Watson, Klinkerfeus, Appolzer, and the astronomical journals. Five times a week throughout the year.
- 57, 58. **ASTRO-PHYSICS.** Lectures on the theory of the Spectroscope and its use in Astronomy, supplemented by practice with the large spectroscope of the Observatory. Five times a week through the year.
Astronomy 55, 56, 57, 58 are open only to students who have had Calculus.
60. **METEOROLOGY.** Twice a week. Second half, second semester. Same as 3.
3. **METEOROLOGY.** Lectures on practical meteorology, supplemented by laboratory work in map and chart making, and regular observations with the instruments in use by Weather Bureau. Text-book, Davis; with the daily weather maps issued by the Bureau. Twice a week, third term.

BOTANY

[BOTANICAL HALL]

Professor Kellerman, Mr. Schaffner, Mr. Collett, Miss Dufour

COLLEGES OF AGRICULTURE, PHARMACY AND VETERINARY MEDICINE

1. **ELEMENTARY BOTANY.** Lectures, recitations and field work. Text-book: Kellerman's *Elementary Botany* and *Spring Flora* Must precede all other courses in this department except course 9. Five times a week. Third term.

4. **MEDICAL BOTANY.** Twice a week, second term. Similar to course 56 in the College of Arts, Philosophy and Science. Reference book: Maisch's *Organic Materia Medica*.
6. **PHYSIOLOGICAL BOTANY.** Lectures, recitations and laboratory work. Coulter's Plant Structures. Five times a week. First term.
- 6a. **SYSTEMATIC AND PHYSIOLOGICAL BOTANY.** Lectures, recitations and laboratory work. Coulter's Plant Structures. Five times a week. First term.
7. **PHYSIOLOGICAL AND ECONOMIC BOTANY.** Lectures, recitations and laboratory work. Coulter's Plant Structures. Five times a week. Second term.
8. **VEGETABLE PATHOLOGY.** Lectures, recitations and laboratory work. Five times a week. Third term.
9. **DENDROLOGY.** Lectures, field and laboratory work. Twice a week, first term. Open to students who have not studied Botany.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

First Semester

51. **ECOLOGY AND PHYSIOLOGY.** Lectures and recitations twice a week; laboratory work once a week; credit three hours. Coulter's Plant Relations.
57. **LABORATORY WORK.** Fungi, Algæ, Bryophyta. Two or three times a week.
59. **ADVANCED LABORATORY WORK IN HISTOLOGY AND PHYSIOLOGY.** Five times a week. Open to students who have taken Course 51, or 57.
61. **SYSTEMATIC BOTANY, PHENOGAMIC AND CRYPTOGAMIC.** Three to five times a week. Open to students who have taken Course 51, or 57.
63. **MONOGRAPHIC WORK.** Graduate Course. Credit five or ten hours.
65. **RESEARCH WORK IN MORPHOLOGY AND PHYSIOLOGY.** Graduate Course. Credit five or ten hours.

Second Semester

52. **MORPHOLOGY AND CLASSIFICATION.** Lectures and recitations twice a week; laboratory work once a week; credit three hours. Coulter's Plant Structures.
 58. Continuation of Course 57. Pteridophyta, Gymnospermæ, Angiospermæ. Two or three times a week.
 60. Continuation of Course 59. Five times a week.
 62. Continuation of Course 61. Three to five times a week.
 64. Continuation of Course 63. Credit five or ten hours.
 66. Continuation of Course 65. Credit five or ten hours.
- For Summer Courses in Botany, see Lake Laboratory.

CHEMISTRY

[CHEMICAL HALL, Rooms 24, 25, 14, 21, 22, 7 and 18]

*Professor McPherson, Professor Norton, Assistant Professor Henderson
Mr. Kohr, Mr. Gore*

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

First Semester

51. **ELEMENTARY CHEMISTRY.** Arranged for students who have little or no knowledge of Chemistry. Three sub-divisions; one lecture, one quiz, and three hours' laboratory practice weekly. In the laboratory the student performs an extended series of experiments illustrating the principles of Chemistry. Three hours credit.

53. **QUALITATIVE ANALYSIS.** Laboratory, lectures and quiz. Students familiarize themselves with the properties of the elements with a view to their detection, and then apply this knowledge to analysis of unknown substances. Three to five times a week. This course must be preceded by Courses 51 and 52.
55. **QUANTITATIVE ANALYSIS.** Laboratory, lectures and recitations. Use of the balance and general principles of gravimetric analysis. Drill in the solution problems in quantitative analysis; study of properties of precipitates; principles of volumetric analysis. Selections are made from such analytical methods as best meet the needs of the student. The samples used for analysis are mixtures or commercial products the percentage composition of which is not made known to the student until he has reported his own results. Three to five times a week. This course must be accompanied by course 69.
57. **ORGANIC CHEMISTRY.** Laboratory, lectures and recitations. Open only to students who are familiar with at least the principles of quantitative analysis. Five times a week.
59. **ADVANCED CHEMISTRY.** Laboratory. Arranged for special students who have had courses 53, 54, 55, 56, 57; also course 58 for students in Organic Chemistry. Students are allowed to select such work as they are capable of undertaking—as, the critical examination of analytical methods as well as the study of new methods. Five times a week.
- 61a. **INORGANIC PREPARATION.** Laboratory. This course includes the preparation of inorganic substances from the crude materials. Special attention is given to the preparation of chemically pure compounds, to be used in certain quantitative processes. Thorpe's text-book on Inorganic Preparations is used, and reference is made to Bender and Erdmans' *Anorganische Präparate* and Krausche's *Prüfung Chemischer Reagentien*. This course must be preceded by quantitative analysis. Four times a week until the Christmas Recess. Students electing this course must follow with theoretical chemistry and sanitary analysis.
- 61c. **HISTORICAL CHEMISTRY.** Lectures and recitations. A course of twelve weeks beginning after the Christmas Recess. Four times a week. Given biennially, offered in 1900-1901.
63. **CHEMICAL SEMINARY.** Special students will meet to discuss special topics and reviews of current literature. Once a week.
65. **ELECTROLYTIC ANALYSIS.** Laboratory. Extended practice is given in quantitative electrolytic analysis. Twice a week.
69. **ADVANCED GENERAL CHEMISTRY; PHYSICAL CHEMISTRY.** This course includes (a) a general survey of inorganic chemistry based upon the arrangement of the elements in accordance with the Periodic Law and (b) a discussion of the main principles of physical chemistry and their application to general processes. Twice a week.

Second Semester

52. Continuation of Course 51. Three hours credit.
54. Continuation of Course 53, including use of Spectroscope.
56. **QUANTITATIVE ANALYSIS.** Continuation of Course 55. Three to five times a week. This course must be accompanied by Course 70.

58. **ORGANIC CHEMISTRY.** Laboratory and lectures. Continuation of Course 57. Arranged for students who wish to specialize in organic chemistry. The course includes further preparation of typical organic compounds, their purification and analysis. Five times a week.
60. Continuation of Course 59.
64. Continuation of Course 63.
66. Repetition of Course 55.
68. **SANITARY ANALYSIS.** Laboratory and lectures. A study of the most important chemical methods for the analysis of water and air. This course must be preceded by quantitative analysis, and at least the equivalent of Course 61 in Anatomy and Physiology (bacteriology). The course extends over the last ten weeks of the second semester. Four times a week.
70. Continuation of Course 69.
Students who can elect but one year of Analytical Chemistry, will take Courses 53 and 66. Others will take 53 and 54, then follow with 55, 56 and 57.

COLLEGES OF ENGINEERING AND PHARMACY

7. **ELEMENTARY CHEMISTRY.** Inorganic. Lecture, Laboratory and Quiz. Laboratory work; First Term, experiments upon the non-metals; second term, principles of quantitative analysis. Five times a week.
8. **ORGANIC CHEMISTRY.** Lectures. Five times a week, first term.
9. **ORGANIC CHEMISTRY.** Laboratory and recitations. Five times a week. Second and third terms.
11. **TOXICOLOGY.** Four times a week. Third term.
12. **QUALITATIVE ANALYSIS.** Five times a week. Third term.
13. **QUALITATIVE ANALYSIS.** Three laboratory periods a week. Second term.
15. **SANITARY ANALYSIS.** Laboratory and lectures. A study of the most important chemical methods for the analysis of water and air. Four times a week. Third term.
16. **APPLIED CHEMISTRY.** Lectures on Industrial Chemistry. These are made as practical as possible by visits to different chemical works. When possible specialists deliver lectures on subjects belonging to their particular line of work. Four times a week. Second term.
17. **INORGANIC PREPARATIONS.** This course includes the preparation of chemically pure inorganic substances from the crude materials. Four times a week. Third term.
18. **ORGANIC CHEMISTRY.** Lectures and laboratory. Five times a week, for the first half of the year.
19. **QUANTITATIVE ANALYSIS.** Lectures and Laboratory. Five times a week for the second half of the year.
20. **QUANTITATIVE ANALYSIS.** Laboratory, lectures and recitations. Four times a week.
21. **ADVANCED GENERAL CHEMISTRY; PHYSICAL CHEMISTRY.** Twice a week.
For Courses in the technical analysis of iron, steel and allied products, see the Department of Mining and Metallurgy.
Four Courses dealing with the application of Chemistry to Agriculture, see the Department of Agricultural Chemistry.

CIVIL ENGINEERING

[HAYES HALL, Rooms 14 and 19]

Professor Brown, Assistant Professor Sherman, Mr. Groves

1. **LAND SURVEYING.** Recitations and field work. Johnson's Theory and Practice of Surveying. Six times a week. First term. Second year.
2. **RAILROAD SURVEYING.** Recitations and field work. Searle's Field Engineering. Six times a week. Third term. Second year.
3. **TOPOGRAPHICAL SURVEYING.** Lectures, field work and drawing. Johnson's Surveying used for reference. Four times a week. First term. Third year.
4. **TOPOGRAPHY.** Platting, pen and tinted work. Reed's Topographical Drawing and Sketching. Four times a week. Second term. Second year.
5. **STEREOTOMY.** Recitations, drawing and model cutting. Warner's Stereotomy. Four times a week. Second term. Third year.
7. **BRIDGE STRAINS.** Recitations and lectures. Part I of Dubois's Strains in Framed Structures. Five times a week. Third term. Third year.
8. **BRIDGE DESIGNING.** Lectures and drawing. Part II of Dubois's Strains in Framed Structures and Johnson's Modern Framed Structures used for reference. Five times a week. First term. Fourth year.
10. **SANITARY ENGINEERING.** Lectures. Five times a week. Third term. Fourth year.
14. **CIVIL ENGINEERING LABORATORY.** Cement testing, adjustment of instruments. Twice a week, Second term. Fourth year.
15. **MASONRY CONSTRUCTION.** Recitations and lectures. Baker's Masonry Construction. Five times a week. First term. Fourth year.
6. **HIGHWAYS.** Lectures on roads, streets, canals, railroads and rivers. Five times a week. Second term.
Fourth year students in Civil Engineering must elect either 16 or 17.
17. **RAILWAY LOCATION.** Recitations and lectures. Wellington's Economic Theory of Railway Location. Five times a week. Second term.
Fourth year students must elect either 16 or 17.
18. **WATER SUPPLY.** Recitations and lectures. Fanning's Water Supply. Five times a week. Third term. Fourth year.
19. **TRUSSES.** Lectures and drawing. Five times a week. Third term. Third year, Mine Engineering and Mechanical Engineering.
20. **ROOF TRUSSES.** Lectures and drawing. Five times a week. First term. Third year, Architecture.
21. **SURVEYING.** Recitations and field work. Davies' Surveying. Three times a week. Third term.
Third year, Architecture.
22. **SUMMER COURSE IN FIELD WORK.** The students are taken into camp in a rough, broken country and given a thorough drill in land and elementary railroad surveying. The course begins directly after commencement day, and continues four weeks of six days per week, ten hours per day. The work of the student and the discipline of the camp is in the hands of competent instructors. This course must be preceded by Courses 1, 2 and 4. Students conditioned on any of these courses, may be admitted at discretion of instructor in charge. (At conclusion of second year of course.)

23. **SUMMER COURSE IN FIELD WORK.** Similar to Course 22. Students work on advanced railroad surveying and topographical surveying. This course must be preceded by Courses 3, 22 and 24. Students conditioned in any of these courses may be admitted at discretion of instructor. (At conclusion of third year of course.)
24. **DRAWING OF ENGINEERING STRUCTURES.** Five hours a week. (Second Term, third year, Course in Civil Engineering.)

CLAY WORKING AND CERAMICS

[ORTON HALL, ROOMS 18, 27, 26 and 25]

Professor Edward Orton, Jr., Mr. Bleiminger

1. **CERAMIC CHEMISTRY.** This course is open only to those who have Completed General Chemistry 12. The student begins the quantitative analysis of salts and chemicals, and later works on limestone and other easy materials. Five times a week. (First Term, second year, Course in Ceramics and Short Course in Clay-working.)
2. Continuation of Course 1. The student begins the quantitative analysis of clays and complex minerals, working first on samples of known composition, and later on unknown materials. Five times a week. (Second Term, second year, Course in Ceramics and Short Course in Clay-working.)
3. Continuation of Course 2. The student completes the ultimate analysis of clays and begins the proximate "Rational" analysis of clays and pottery bodies, following the methods of Seger. Five times a week. (Third Term, second year, Course in Ceramics and Short Course in Clay-working.)
4. **LECTURES ON CLAY MANUFACTURE.** (supplemented by frequent recitations). The origin, composition and properties of clays and other minerals employed in the clay, glass and cement industries. Five times a week. (First Term, third year, Course in Ceramics; and second year, Short Course in Clay-working.)
5. Continuation of Course 4. A series of lectures, with recitations, on the general principles of the manufacture of bricks and the coarser clay wares, including the selection and winning of the materials, their preparation, manufacture, burning and testing. Five times a week. (Second Term, third year, Course in Ceramics; and, second year, Short Course in Clay-working.)
6. Continuation of Course 5. A series of lectures, with recitations, on the classification and manufacture of pottery and the finer grades of clay wares, including the selection of the materials, preparation of the bodies, manufacture of the ware, preparation of the glazes, burning and decoration of the wares and the pyrometry of ceramics. Five times a week. (Third term, third year, Course in Ceramics; and, second year, Short Course in Clay-working.)
Course in Ceramics; and, second year, Short Course in Clay-working.)
7. **CERAMIC CHEMISTRY.** Continuation of Course 3. Open only to those who have completed that course. The analysis of glasses and glazes, devoting special attention to the use of hydrofluoric acid in silicate analysis, and to the determination of lead and boric acid. Five times a week. (Second term, third year, Course in Ceramics.)

9. **LABORATORY WORK IN CERAMICS.** Open only to those who have completed Courses 3 and 6. The student will undertake the production of such wares as are made from single clays; then wares made by blending two or more natural clays; and, then, such wares as are made from an artificial body. In each case the bodies made will be burnt and tested. Five times a week. (First Term, fourth year, Course in Ceramics.)
10. Continuation of Course 9. The student will practice on the production of glasses and glazes, beginning with the natural "slip glazes" and taking successively the soft raw-lead glazes, the fritted lead-boracic-acid glazes, and the hard-fibre leadless porcelain glazes. In each case the glazes will be made for use on some definite body, and will be made to "fit." Five times a week. (Second Term, fourth year, Course in Ceramics.)
11. Continuation of Course 10. The student will practice on the use of the coloring and opacifying oxides in glazes, and on the production of colors for the decoration of pottery, and of body-stains. Five times a week. (Third term, fourth year, Course in Ceramics.)
12. **LECTURES ON CEMENT MANUFACTURE.** The theory of hydraulicity, the compounding, manufacture and testing of natural and Portland cements and hydraulic silicates. Open to students who have had courses 3 and 6. Facilities for laboratory work in making, burning and testing cements will be given. Five times a week. (Second Term, fourth year, Course in Ceramics.)
14. **MINERAL REPORTS.** A series of lectures on the prospecting and opening of mineral properties and ceramic plants. Frequent trips will be made to the important clay-working centers of Ohio for field work and practice in observation. Students will be allowed to specialize along their intended lines. Five times a week. (Third Term, fourth year, Course in Ceramics.)
15. **THESIS.** As a requisite for graduation, each candidate must present an acceptable thesis, embodying the results of a special study. The subject of this study must lie within the field of the degree sought. The subject must be announced to the President of the University (dependent upon the approval of the head of the Department), not later than the beginning of the second term of the fourth year; and the completed thesis must be presented on standard paper of certain size and quality, type-written, bound, and titled, not later than the second Saturday before Commencement Day.
16. **GENERAL PRINCIPLES OF APPLIED CERAMICS.** A series of lectures on the chemical technology of the clay, glass and cement industries. Three times a week. (Third Term, fourth year, Course in Chemistry.)
17. **PRACTICE** in making drawings and specifications for brick kilns, brick dryers, pottery kilns, gas producers, glass pot-furnaces, glass tanks, cement kilns and burning cylinders. Students will be allowed to specialize along the lines they intend to follow. Four times a week. (Second Term, fourth year, Course in Ceramics.)

DOMESTIC ECONOMY

[HAYES HALL, Rooms 1, 3, 10.]

*Associate Professor Bowman, Assistant Professor Souther**Domestic Science*

1. **FOOD ECONOMICS.** One lecture and three laboratory periods each week. Four hours credit. Lectures embracing a study of the evolution of society as affected by food conditions; second, a study of food principles. Laboratory work includes experimental work with foods, and the preparation and serving of typical foods of certain classes. Offered in the first term of each year.
2. **FOOD ECONOMICS.** One lecture and three laboratory periods each week. Four hours credit. By lecture and research work, the relative nutritive and money values of foods are considered. Each student prepares a weekly dietary for the family; the amount to be expended limited by the instructor. United States Agricultural Bulletin standards used. Laboratory work is a continuation of Course 1. Offered in second term of each year.
3. **EMERGENCY WORK AND HOME NURSING.** One lecture and three laboratory periods each week. Four hours credit. The lectures, demonstrations and practical work are designed to set forth the principles underlying good nursing, to take up the dietetic treatment of various diseases and to consider such emergency cases as frequently require prompt treatment in the home. Food suitable for invalids, infants and convalescents is prepared in the laboratory. Offered in the third term of each year.
- 4a. **PRESERVATION OF FOODS.** Four weeks.
6. **HYGIENE OF CLOTHING.** Eight weeks.
One lecture and three laboratory periods each week. Four hours credit.
(a). Includes a brief study of the causes of decomposition, a history of the methods employed in the preservation of foods, and practical work in canning, preserving, etc.
(b). Includes a study of fibres and their proper treatment. The properties and cleansing effect of water and soap; disinfecting clothing; the chemical treatment of stains and demonstrated work in practical laundry methods. Offered in the first term.
10. **HOUSEHOLD ECONOMICS.** Two hours lecture course. Elective. A consideration of the best location for a house; its hygienic and sanitary construction and arrangement and approved methods of lighting, heating and ventilating. Offered in the third term of each year.

DOMESTIC ART.

5. **LECTURES** on the Industrial and Artistic Evolution of Society. History of the early race considered with special reference to the development in culture gained through hand-work. Practice work; Preparations of a series of models comprising the different stitches used in plain hand sewing; ornamental stitches and simple embroidery. One lecture and three practice periods each week. Four hours credit. Second term.
6. **LECTURES ON TEXTILES.** Study of fibres; their growth and the processes of manufacture. Comparative economic values of fabrics. Practice work; Machine and hand work on underwear; drafting from simple measurements; designing in pencil; use of patterns; making shirt waists or wash gowns; Simple straw hats and bows. One lecture and three practice periods a week. Four hours credit. First term.

7. **LECTURES ON HISTORIC COSTUME.** Consideration of line, form and color; hygienic and artistic dress; treatment of wool and silk fabrics. Practice work: Drafting patterns by use of Tailoring System. Cutting and fitting. Making wool dress. Making of hat frames, covering and trimming the same. One lecture and three practice periods a week. Four hours credit. First term.
8. **LECTURE AND PRACTICE WORK.** Continuation of Course 7. As much time as possible being given to pencil and water coloring designing of costumes and hats suitable to different wearers. Original designs required to be made and carried out in the case of each individual pupil. One lecture and three practice periods a week. Four hours credit. Second term.
9. **LECTURES ON HISTORY OF DOMESTIC ART AND ARCHITECTURE AND THE APPLICATION OF ART TO MODERN HOUSE DECORATION.** Practice work: Continuation of Course 8. Further work in practical costume making as may be designated by the instructor; the aim being to foster good taste and judgment in the use of expensive and inexpensive materials. Expressions of individuality encouraged but held subservient to general artistic principles, to rules of hygiene and to prevailing modes. One lecture and three hours practice work each week. Four hours credit. Third term.
- Note. Individual instruction is given throughout. Pupils are required to furnish all materials except those used in making models of Course 5. A certain amount of work is required to be completed before admittance is given to the next higher grade of work.

DRAWING

[HAYES HALL, Rooms 22, 24 and 37]

Associate Professor Bradford, Assistant Professor French, Mr. Lewis

1. **FREEHAND DRAWING.** Practice and occasional lectures. Pencil, charcoal, pen and water-color drawing from copies, models and plaster casts. One drawing period a week, three terms, Industrial Arts. Two drawing periods a week, first term, Short Mining and Domestic Economy. Two drawing periods a week, first and second terms; all four-year Engineering Courses. Three drawing periods a week, three terms, Architecture.
2. **LETTERING.** Practice and occasional Lectures. Two drawing periods a week, third term, Industrial Arts, and Short Mining. Three drawing periods a week, third term, Ceramics, Civil, Electrical, Mechanical and Mine Engineering, and Architecture. This Course must be preceded by Course 1.
3. **MECHANICAL DRAWING.** Lectures or recitations one period a week. Practice two periods a week. All Engineering, Industrial Arts, Architecture. Subjects: Orthographic, Isometric and Oblique Projection and elementary Working Drawings. First term. Lectures or recitations two periods a week. Practice one period a week, in Industrial Arts and in all Engineering Courses except Civil Engineering; three periods a week in Civil Engineering and Architecture. Subject: Descriptive Geometry. Second term. Lectures or recitations, one period a week. Practice, two periods a week in Engineering Courses; four periods a week in Architecture. Subject: Shades, Shadows and Perspective. Third term, in all four-year Engineering and Industrial Arts Courses and the Course in Architecture. First term in the Short Mining and Domestic Science Courses. This Course must be preceded by Course 2.

4. **DRAUGHTING AND BLUE-PRINTING.** Practice and occasional Lectures. Three periods a week, second term. Arranged especially for the students in the Short Mining Course. This Course must be preceded by the first term of Course (3).
5. **TECHNICAL DRAWING.** Lectures and Practice. Rules and methods for working drawings, tracing, blue-printing, machine design and practice in making same to represent form and dimensions for shop use. Three periods a week. First term, Mechanical and Electrical Engineering Courses. This Course must be preceded by Courses (2) and (3).
7. **PHOTOGRAPHY.** Lectures and Practice. Lectures: Optics of Photography, chemistry of photography, exposing and developing, printing, lantern slides, orthochromatic photography and some of the applications of photography. Practice in outdoor, interior, instantaneous and flash-light photography, copying, lantern slides, and printing. Two periods a week. Ceramics, Architecture, first term. Civil, Mechanical and Mine Engineering, third term. The first term of this Course is elective.
8. **MECHANICAL DRAWING.** Lectures and Practice. Geometric and Projection Drawing. Two periods a week, first and second terms, Industrial Arts.
10. **MECHANICAL DRAWING.** Lectures and Practice. Arranged especially for the students in Agriculture. Two periods a week, first term.
11. **MECHANICAL DRAWING.** Lectures and Practice. Arranged especially for the students in Short Course in Ceramics, five periods a week, third term.
12. **CLAY MODELING.** Modeling in Clay and Casting in Plaster, ornamental forms from designs, photographs, nature and original designs. Two periods a week; first, second and third terms.
This Course must be preceded by Course (1).
Domestic Economy Course, second term. Architectural Course, second and third terms. This Course must be preceded by Course (1).
13. **TECHNICAL AND DECORATIVE DESIGN.** Lectures and Practice. Lectures on the principles of decorative design in monochrome, color and relief, and practice in the same. Two periods a week; first, second and third terms.
14. **PEN DRAWING.** Two periods a week, first term. Arranged especially for the Course in Architecture. This Course must be preceded by Course (1).
15. **TECHNICAL DRAWING.** Lectures and Practice. House Designing. Five periods a week, third term. Domestic Economy.
16. **LECTURES AND PRACTICE.** Technical Drawing consisting of the designing and preparation of specifications of structures related to agriculture. Three periods a week, third term.

ART.

An elective course in Art offered by Department of Drawing. Must be preceded by Course 1 in Drawing or its equivalent elsewhere.

17. **LECTURES AND PRACTICE.** Lectures on color standards, color theory, color harmony, color appearances, tone and gradation, atmosphere and values. Practice in color work either water or oil color. First term. Lectures illustrated by lantern slides.
18. **LECTURES AND PRACTICE.** Lectures on objects of art, ideas and subjects, style and individuality, schools of art, great artists including old and modern masters. Illustrated by lantern slides. Practice in water or oil painting from still life. Second term.

19. **LECTURES AND PRACTICE.** Lectures will be a continuation of second term's work and including sculpture and the master sculptors. Illustrated by lantern slides. Practice in water or oil painting from life and nature or clay modeling. Third term. The above is to be offered as an elective for two or three hours as follows: Lecture for one hour and practice for two or four hours as the student has time.

ARCHITECTURE.

4. **SPECIFICATIONS.** Lectures and practice in preparing Specifications for Architectural Structures. Two periods a week. (Second Term, fourth year, Course in Architecture.)
5. **DECORATION AND ORNAMENT.** Lectures on the different styles of carved ornament and decorative color. The practice part of this subject will be incorporated in the clay Modeling and Designing. Three periods a week. (First Term, third year, Course in Architecture.)
6. **ESTIMATES AND SUPERINTENDENCE.** Lectures and practice in preparing estimates for structures designed in Courses 8, 11, 12 and 13, and the duties of superintendence. Four periods a week. (Third Term, fourth year, Course in Architecture.)
7. **HEATING, VENTILATING AND PLUMBING.** Lectures and experimental work. Lectures on the principles and methods of heating and ventilating and sanitary plumbing. Experimental work is carried on with the heating and ventilating plants in the different University buildings. Five periods a week. (Second Term, fourth year, Course in Architecture.)
8. **DESIGNING.** Lectures and Practice. Steel skeleton and fire proof construction. Five periods a week. (Second Term, fourth year, Course in Architecture.)
9. **HISTORY OF ARCHITECTURE.** Lectures illustrated by lantern slides. Three periods a week. (First Term, second year, Course in Architecture.)
10. Same as 9. (Second Term, second year, Course in Architecture.)
11. Same as 10. (Third Term, second year, Course in Architecture.)
12. **ARCHITECTURAL DRAWING.** Drawing architectural ornament, details of orders and styles with the special object of impressing upon the student's mind the architectural characteristics considered in Course 9. Two periods a week. (First Term, second year, Course in Architecture.)
13. Same as 12. (Second Term, second year, Course in Architecture.)
14. Same as 12. (Third Term, second year, Course in Architecture.)
15. **DESIGNING.** Lectures and practice in designing structures adapted to modern requirements. Four periods a week. (First Term, third year, Course in Architecture.)
16. **DESIGNING.** Lectures and practice. Two periods a week. (Second Term, third year, Course in Architecture.)
17. **DESIGNING.** Lectures and practice. Four periods a week. (Third Term, third year, Course in Architecture.)
18. **DESIGNING.** Four periods a week. (First Term, fourth year, Course in Architecture.)
19. **DESIGNING.** Four periods a week. (Third Term, fourth year, Course in Architecture.)
20. **THESIS.** Original design, to be accompanied with written description, specifications and estimate. Five periods a week. (Third Term, fourth year, Course in Architecture.)

ECONOMICS AND SOCIOLOGY
[UNIVERSITY HALL, Rooms 17 and 18]

Associate Professor Clark.

Course 51 or Course 52 must precede all other Courses.

FIRST SEMESTER

51. **ELEMENTS OF POLITICAL ECONOMY.** A careful study of the laws of production, exchange, distribution and consumption of wealth; combined with an analysis of the industrial actions of men as regards land, labor, capital, money, credit, rent, interest, wages, etc. Text-book, lectures and individual investigations. Four times a week. This Course is repeated in the Second Semester (as Course 52). Students who are required to take the subject, those whose names begin with the letters L to Z will take it in the First Semester; others will take it in the Second Semester (as Course 52).
53. **THE HISTORY OF INDUSTRIAL SOCIETY.** A general view of the evolution of industrial society; and a study of causes and effects of past economic policies together with their bearing on existing conditions; with special reference to England and America. Lectures and assigned readings. Twice a week.
55. **PRACTICAL PROBLEMS IN ECONOMICS.** A rapid study of immigration, money, railroads, crises and tariff. Lectures and collateral readings. Twice a week.
57. **THE TRANSPORTATION PROBLEM.** A study of the development and present economic status of roads, canals and railroads in their relation to industry and to the state. Lectures. Twice a week.
Not offered in 1899-00.
59. **PUBLIC FINANCE AND TAXATION.** This course aims to make the student acquainted with the theory of public revenue and expenditure; and with the leading systems of financial administration throughout the world. Municipal indebtedness and corporate financing are incidentally treated. Text-book and lectures. Twice a week.
Not offered in 1899-00.
61. **SEMINARY IN ECONOMICS.** Two hours a week at one meeting. All students who elect their Major Study in Economics must take this course in their fourth year. Open, as elective, to other students, graduate and advanced under-graduate, on permission of the instructor.
63. **SOCIOLOGY AND STATISTICS.** Lectures and laboratory work. One hour credit. This course may accompany courses 55, 57, 59 or 65.
65. **COMMERCIAL GEOGRAPHY.** A scientific study of business relations and conditions, domestic and foreign; the sources, quantity and quality of products, and the distribution of the same; trade routes and the means of communication. The Consular Reports will constitute one basis of study. Texts and lectures.

SECOND SEMESTER

52. **ELEMENTS OF POLITICAL ECONOMY.** Text-book, lectures and individual investigations. Four times a week. (This is a repetition of Course 51, and will be taken in the Second Semester by those students (of whom it is required) whose names begin with the letters A to K.)
53. **THE HISTORY AND THEORY OF SOCIALISM.** Lectures and collateral readings. Twice a week.
56. **INDUSTRIAL AND SOCIAL REFORMS.** A study of labor problems, charities and corrections, monopolies, insurance, trusts, etc. Lectures and collateral readings. Twice a week.

58. **MONEY, CREDIT AND BANKING.** This course involves the history and theory of the subject; a comparative study of monetary systems, currency, etc.; together with various methods of banking; national banks, clearing houses, sub-treasury, etc.; and a critical analysis of proposals for reform. Texts, lectures and collateral readings. Twice a week.
Not offered in 1899-00.
60. **INDUSTRIAL AND FINANCIAL HISTORY OF THE UNITED STATES.** A complete survey of American industries, financial resources and policies; public lands, government subsidies, internal revenue, etc.; history and description of the Treasury and Interior Departments, the Mints, etc. Lectures and collateral readings. Twice a week.
62. **SEMINARY IN ECONOMICS.** Two hours a week at one meeting. This is a continuation of Course 61, and is open only to those who have had that course. All students who elect their Major Study in Economics must take this Course in their fourth year. Open, as elective, to other students, graduate and advanced under-graduate, on permission of the instructor.
64. **SOCIOLOGY AND STATISTICS.** A continuation of Course 63. One hour credit. May be taken separately or accompany Courses 56, 58, 60 or 66. Courses 1 and 2 in the College of Agriculture and Domestic Science are the same as Courses 51 and 52 described above.
66. **COMMERCE AND TRADE.** Theory and practice of business. Standard business forms, commercial paper, stocks and bonds, insurance policies and investment securities of all kinds will be studied with the aid of sample copies. This is an advanced course and should be preceded by four elective courses in the department including Course 60. Required readings and reports on current commercial and financial literature. Lectures.

EDUCATION

[UNIVERSITY HALL, ROOMS 51 and 54]

Professor Gordy, Mr. Hamilton.

FIRST SEMESTER

51. **ELEMENTARY EDUCATIONAL PSYCHOLOGY.** This course is intended to be helpful to three classes of students: (1) Those who are not preparing to teach, but who wish to make some study of education in order that they may perform their duties as members of society more intelligently; (2) Those intending to teach and who wish to study the relations between Psychology and education; and (3) Those preparing to be superintendents and who wish to get suggestions as to the best method of teaching Psychology to teachers. The text used is Gordy's Psychology. Students will be required to do collateral reading and bring in reports of their work. Four hours a week.
53. **HISTORY OF GREEK EDUCATION.** Students of this course will make a study of the history of the education of the Greeks from the time when life was their only school to the time when Greece became the teacher of the world. The connection between Greek life and Greek education will be sharply emphasized; the defects of Greek ideals of life will be shown as reappearing in Greek ideals and methods of education, and these in turn as exerting an influence on Greek life. This course will be essentially a study of Greek civilization, but with the practical purpose of getting light for the solution of our own problems. It is believed that the course will be especially helpful to those preparing to teach history, and the classics. The texts used are Davidson's *Greek Education*, and Davidson's *Aristotle*. Readings are required of students in Greek history and Plato's *Dialogues*. Four hours a week.

55. **THE HERBARTIAN PEDAGOGY.** The object of this course is three-fold: (1) To ascertain what the Herbartian Pedagogy is; (2) To determine its truth, and (3) To consider carefully its applicability—so far as it is true—to the schools of this country. Special attention will be given to these Herbartian theories that are most widely current in this country. The texts used are Herbart's *Science of Education*, De Garmo's *Herbart* and Lange's *Apperception*. Four hours a week.
59. **CHILD STUDY.** An elementary course in the growth and development of children, giving special attention to the pedagogical aspect of the subject. Though arranged primarily for teachers this course treats of subjects of universal interest such as the child as a social factor, function of play, the child and self-government, the child and the race, etc. Open to all students. Twice a week.
67. **EDUCATIONAL VALUES.** This course seeks to determine the capacity of the various subjects pursued in elementary and secondary courses to contribute to true educational ideals. The work is based on Fouillie's *Education from a National Standpoint*. Twice a week.
69. **A STUDY OF SCIENTIFIC METHOD;** intended especially for those preparing to teach Science. Twice a week.
71. **PEDAGOGICAL RESEARCH.** For teachers and advanced students. Various school problems will be taken up for exhaustive study, thus offering opportunity for an insight into the organization of the school not usually open to undergraduate students. The work will be by topics and largely individual. Special facilities for original investigation will be at the command of students showing themselves competent to do such work. As only a small number of students can be accommodated applications for admission should be made as soon as possible. Twice a week.
73. **MODERN EDUCATIONAL SYSTEMS OF EUROPE.** A brief historical and statistical study of secondary education in Germany, France and England. The work will be based upon such texts as Russel's *German Higher Schools*, Holman's *English National Education*, and will consist of recitations and reports upon original topics. Open to all students. Twice a week.

SECOND SEMESTER

52. **MODERN EDUCATIONAL THEORIES.** These theories will be studied from three points of view: (1) As the expression of a certain philosophy of life; (2) from the point of view of their consistency; and (3) from that of their truth. The work is based on Quick's *Educational Reformers*. Twice a week.
54. **PLATO'S REPUBLIC.** This course is essentially seminary work for the benefit of those students of Course 53 who wish to make a critical study of Plato's *Philosophy of Education*. Twice a week.
56. **THE KINDERGARTEN.** This course is intended especially for those who are preparing to do kindergarten and primary work, and to be superintendents of schools. Twice a week.
58. **THE PHILOSOPHY OF EDUCATION.** This course aims to make a systematic exposition of the philosophy of education. Four times a week.
60. **EDUCATION IN THE UNITED STATES.** A comparative study of secondary education in the United States and Europe presupposing Course 73. Twice a week.
68. A continuation of 67. Twice a week.
70. A continuation of 69. Twice a week.
72. **PEDAGOGICAL RESEARCH.** Continuation of Course 71. Open to students credited with 59 or 71. Twice a week.

ELECTRICAL ENGINEERING.

[ELECTRICAL HALL, Room 9 and Laboratory.]

Associate Professor Caldwell, Mr. Fish

6. **ELECTRICAL ENGINEERING.** Lectures on direct and alternating circuits, dynamo machinery, transformers, accumulators and applications. Twice a week. (First and Second Terms, third year, Course in Architecture; and fourth year, Courses in Industrial Arts and Manual Training.)
7. **ELECTRICAL ENGINEERING.** Laboratory work on the subjects treated in Course 6, which it accompanies. Twice a week. (First and Second Terms, fourth year, Courses in Industrial Arts, Manual Training, Mining and Mechanical Engineering; Second Term, third year, Course in Architecture; fourth year, Civil Engineering.)
8. **DIRECT CURRENT DYNAMO MACHINERY.** Generators and Motors, their theory, construction and operation. Lectures, recitations and problems. Four times a week. (Second Term, third year, Course in Electrical Engineering.)
9. **ELEMENTARY DYNAMO LABORATORY.** Handling and testing of circuits, generators, motors, accumulators, lamps, etc. Nine actual hours per week. (Third Term, third year, Course in Electrical Engineering.)
10. **ALTERNATING CURRENT CIRCUITS AND MACHINERY.** Generators, transformers, single and polyphase motors, apparatus and systems. Lectures, recitations and problems. Three times per week. (First and Second Terms, fourth year, Course in Electrical Engineering.)
11. **ADVANCED DYNAMO LABORATORY.** Continuation of the work begun in Course 12, together with alternate current apparatus, telephone apparatus, etc. (First and Second Terms, six actual hours. Third Term, with thesis work nine actual hours. Fourth year, Course in Electrical Engineering.)
12. **ELECTRICAL TRANSMISSION AND DISTRIBUTION.** Systems, operation and apparatus. Twice a week. (Second Term, fourth year, Course in Electrical Engineering.)
13. **APPLICATION OF ELECTRICITY.** Brief treatment of the elements of Illumination, Street Railway Work, Telephone, Telegraph, Electro-metallurgy, Mining, etc. The seminary method is used in this course to the extent of each student writing one paper on some assigned subject, and reading the same before the class. Five times per week. (Third Term, fourth year, Course in Electrical Engineering.)
14. **ELECTRICAL DESIGN.** Includes wiring of buildings, Direct and Alternate current generators, transformers, distribution, etc. Eight hours per week in the drawing room. (Second and Third Terms, fourth year, Course in Electrical Engineering.)

ENGLISH LITERATURE

[UNIVERSITY HALL, ROOM 31.]

Professor Barrows, Assistant Professor Taylor

All Courses except 51 and 52 are elective; but no elective is open to one who has not taken, or is not taking 51 or 52. Students, whose major study is in English literature must take 69 and 70, in either the third or fourth year. Biennial courses will alternate as follows: 53 with 61, 54 with 60, 63 with 71, 64 with 72.

FIRST SEMESTER.

51. **AN INTRODUCTION TO ENGLISH LITERATURE.** Four times a week.
Required in the Course of Arts, the Latin Course in Philosophy, and the Course preparatory to the study of Law and Journalism.
Course 51 includes (1) an outline of the history of English literature. For this part of the work Pancoast's "Introduction to English Literature" is covered in three examinations. (2) Lectures on the elements of literary analysis and interpretation. (3) Study of selections characteristic of different authors and of different periods, to secure acquaintance with literary problems, to cultivate perception of literary qualities, and to verify and apply the assertions of the lectures and of the manual. The book first used is Palgrave's "Golden Treasury."
53. **POETRY, FROM SPENCER TO MILTON,** exclusive of the drama. Twice a week. (Omitted in 1899-1900.) Historical and critical lectures; papers and discussions. Required books: "Spenser's Faery Queene" (Kitchin); "Elizabethan Lyrics" (Schilling); "Milton's Poetical Works."
- 55a. **THE ENGLISH BIBLE.** The Pentateuch. Once a week. Given in 1901-'02.
- 55b. **THE ENGLISH BIBLE.** The Histories. Once a week. Given in 1899-1900.
- 55c. **THE ENGLISH BIBLE.** The Gospels. Once a week. Given in 1900-1901.
The study of the Bible is continued through three years. The old authorized version is the text-book; but students must also have, for correction and comment, the revised version.
57. **SHAKSPERE.** Three times a week. Literary study of Shakspeare's plays, with no more reference to historical and philological matters than is necessary to an understanding of the text. Various problems of dramatic art are discussed in connection with the plays that best illustrate them.
59. **THE MODERN NOVEL.** Three times a week. (Omitted in 1900-1901.) Lectures, reading and reports.
61. **FROM DRYDEN TO JOHNSON.** Twice a week. (Omitted in 1900-1901.) Lectures, reading and reports. Both prose and poetry will be reviewed in this course.
63. **PROSE, FROM COWPER TO THE VICTORIAN PERIOD.** Three times a week. (Omitted in 1899-1900.) Lectures on the history of thought in this period, on the relations of authors to each other and to the times, and on their literary significance. Critical study of selections from Burke, Coleridge, Landor and the essayists.
65. **MASTERPIECES: A STUDY OF LITERARY TYPES.** Three times a week. This with course 66 constitutes one continuous course. The course covers the whole field of English Literature topically. It is designed for graduates, but is open to undergraduates who have taken two elective courses in this department. The study is of literary types, their origin and development, the best examples in English being chosen for basis; the types will include the drama, the epic, the idyll, the lyric, and in prose the novel, the short story and the essay. The whole will be based upon Aristotle's "Poetics" and the theory of ideal literature; and will include lectures, readings and essays.
67. **CHAUCER.** Twice a week. The Prologue to the Canterbury Tales, and the most important of the tales will be read. The Morris-Skeat edition of the Prologue, and Skeat's edition of Chaucer's Works are required.

69. **LITERARY PROBLEMS.** Twice a week. A series of topical studies. Lectures and illustrative readings drawn from the entire range of our literature; reports and discussions.
Required in the third or fourth year of students whose major study lies in this department.
71. **VICTORIAN LITERATURE—PROSE.** Three times a week. (Omitted in 1900–1901.) Victorian prose, centering on the essayists,—Ruskin, Newman, Arnold, Pater, Stevenson, Lectures, readings and reports.

SECOND SEMESTER.

52. **AN INTRODUCTION TO ENGLISH LITERATURE.** Four times a week.
Required in the Modern Language and English Courses in Philosophy and in the Course in Commerce and Administration. See description of Course 51, of which this is a repetition.
54. **PROSE, FROM SIDNEY TO MILTON.** Twice a week. (Omitted in 1899–1900.) Lectures on the intellectual life, and the political, religious, and social problems of the period as they affected its literature; papers and discussions. Required books: Bacon's "Essays and Advancement of Learning" (Selby); Browne's "Religio Medici" (Camelot Classics); Cowley's "Essays" (Cassel's National Library); Fuller's "Wit and Wisdom" (R. T. S. Library). Sidney, Taylor and others will be investigated in the library.
- 55a. **THE ENGLISH BIBLE.** Course 55a continued. Given 1901–1902.
- 55b. **THE ENGLISH BIBLE.** The Psalms and Prophets. Once a week. Given in 1899–1900.
- 55c. **THE ENGLISH BIBLE.** The Acts and Epistles. Once a week. Given in 1900–1901.
The study of the Bible is continued through three years. The old authorized version is the text-book; but students must also have, for correction and comment, the revised version.
58. **THE DRAMA—FROM THE MIRACLE PLAYS TO THE CLOSING OF THE THEATRES.** Three times a week. Lectures on the Mysteries, the Moralities, the Interludes, the Rise of the Regular Drama, Shakspeare and his Predecessors, Contemporaries and Successors. Select plays will be read by the class.
60. **THE DRAMA—SINCE THE RESTORATION.** Twice a week. (Omitted 1900–1901.) Lectures, readings and reports.
62. **AMERICAN AUTHORS.** Three times a week. (Omitted 1900–1901.) Lectures, readings and reports.
64. **POETRY—FROM COWPER TO THE VICTORIAN PERIOD.** Three times a week. (Omitted in 1899–1900.) Lectures on the rise of the romantic spirit, on the history of thought in this period, and on the relation of the poets of the times and to current problems. Study of selections from Cowper, Burns, Wordsworth, Shelley and Keats.
66. **MASTERPIECES: A STUDY OF LITERARY TYPES.** Three times a week. Course 66 is a continuation of Course 65 and must be preceded by 65. See description of Course 65.
68. **THE GREAT TRANSLATIONS.** Twice a week. (Omitted in 1899–1900.) This is a graduate course, for the discussion of various problems of universal literature, and the investigation of the indebtedness of English to other literatures. Undergraduates must obtain permission to take this course.
70. **LITERARY PROBLEMS.** Twice a week. A continuation of Course 69, and required of students whose major study lies in this department.
72. **VICTORIAN LITERATURE—POETRY.** Three times a week. (Omitted 1900–1901.)

ENTOMOLOGY

(See Zoology and Entomology)

EUROPEAN HISTORY

(See History)

GENERAL CHEMISTRY

(See Chemistry)

GEOLOGY

[ORTON HALL, Rooms 1, 5, 4, 7 and 13]

Professor Orton, Associate Professor Prosser, Associate Professor Bownocker.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE.

FIRST SEMESTER.

53. **PALEONTOLOGY.** Careful training in systematic classification which may be used in the philosophical study of the development of plant and animal life, or as a means of becoming acquainted with the faunas and floras that characterize the various geological formations. At first the student devotes some time to conchology, studying recent shells in which the characters used in classification are well preserved, and after this preliminary work, fossils are studied. Fossils afford the most reliable data for identifying and correlating geologic formations, and the critical study of faunas is a field especially adapted to independent research. Laboratory, museum and field work. Two to five hours credit.
55. **PETROGRAPHY 1.** Laboratory and Lectures. Optical crystallography, with practical determination of rock-forming minerals, macroscopically and microscopically. Study of the igneous rocks in the hand specimen and thin section. Twice a week. The Sturtz rock collection and Voigt Hochgesang thin sections of typical minerals and rocks will be carefully studied. Books of reference:—Mitchel Levy—*Les Minneaux des Roches*; Rosenbusch—*Mikroskopische Physiographie der Petrographisch Wichtigen Mineralien*, 3d ed.; *Mikroskopische Physiographie der Massigen Gesteine*, 2d ed.; Teall's *British Petrography*; Spottiswoode's *Polarization of Light*. Prerequisites; Chemistry, 51 and 52; Metallurgy, 52 (Mineralogy and Crystallography).
59. **FIELD GEOLOGY.** Field and laboratory study of the geological formations readily accessible from Columbus. This course is intended to acquaint the student with the ordinary methods of field investigation, and involves the collection and identification of specimens, the measurement of geologic sections and the preparation of a report describing the region studied. Two to five hours credit.
61. **COSMICAL GEOLOGY.** Lithological Geology, Dynamic and Structural Geology, Books of reference used in preparation of the work: Green's *Physical Geology*, Geike's *Text-book of Geology*, LeConte's *Elements of Geology*, Hunt's *Chemical Geology*, Daubree's *Geologic Experimentale*. Three times a week.

63. **PHYSIOGRAPHY.** Study of the features of the earth's surface with special reference to North America; the agencies producing these features and geographical changes now in progress. Recitations, lectures, map-work, field excursions. Books used in preparation of work: Standard Works on Physical Geography; Russel's Rivers of North America; Lakes of North America; and Glaciers of North America; Shaler's Aspect of the Earth; Wright's The Ice Age of North America; The National Geographic Magazine; Maps of the Mississippi River Commission, etc. Twice a week.

SECOND SEMESTER.

54. Continuation of Course 53. These two Courses may be continued through a second year.
56. Continuation of Course 55. Twice a week.
58. **GEOGRAPHIC GEOLOGY.** The origin, development and destruction of topographic forms. Rivers, lakes, oceans, ice, and winds as agents modifying the surface of the earth. The great ice age in North America. [Primarily for teachers.]
- Books of reference: Journal of Geology; American Geologist; The Great Ice Age; (Geike's) The Ice Age in North America; (Wright) The Reports of the United States Geological Survey; The Maps of the Mississippi River Commission, etc. Three hours per week. Lectures, recitations, map work. Third term.
60. **AREAL GEOLOGY.** Instruction in the methods of preparing geological maps and reports. The student compiles from a geological report a map with sections showing geologic structure, and later traces the outcrops and prepares a geological map of some region. Two to five hours credit.
62. **HISTORICAL GEOLOGY.** A general course in paleontological and stratigraphical geology with excursions and laboratory study of the Ohio Geological Reports and characteristic fossils. The development of organisms and the classification and distribution of the geological formations are considered. Continuation of Course 61. Lectures and recitations three hours.
64. Continuation of Course 63. Twice a week.

COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY.

2. **GENERAL GEOLOGY.** Structural, historical and dynamical geology. Three hours lectures and recitations and four laboratory and field work. In the laboratory. Dana's Manual of Geology, the Ohio Geological Reports and characteristic fossils will be studied. In the field, specimens will be collected, sections measured, formations identified and the student will be given an idea of the methods of work pursued by a field geologist. Credit five hours. First term.
5. **ECONOMIC GEOLOGY.** The common minerals and rocks composing the earth's crust, their alteration and decomposition. Soils, their origin and classification; the soils of the United States and especially those of Ohio. Fuels: Coal, oil and gas. Building stones, limes and cements. Iron and the most useful metals. Three hours. Second term. Lectures and laboratory work.
1. **PHYSIOGRAPHY.** The probable origin of the earth and its relation to other heavenly bodies. The features of the earth's surface and the agencies producing these. The atmosphere, climate, etc. Oceans, rivers and lakes. Recitations, lectures and map work. Five hours. Third term.

5. **GENERAL GEOLOGY.** Structural, Historical and Dynamical Geology. Three hours lectures and recitations and two hours laboratory and field work. In the laboratory the Ohio Geological Reports and characteristic fossils will be studied. In the field, sections will be measured, formations identified, specimens collected and the student given an idea of the method of work pursued by a field geologist. (Required in the first and second term of fourth year in the Long Course.)
6. **ECONOMIC GEOLOGY.** Lectures, Economic materials of stratified rocks, clay, limes, cements, coals, iron ores, phosphates, petroleum, etc. Economic materials derived from veins and igneous rocks, gold, silver, copper, mercury. Gems. Books of reference used by students in preparation of their work: Publications of U. S. Geological Survey, State Geological Surveys, Phillips' Ore Mining. Three times a week. (Required in second term of fourth year in Long Course.)
1. **PHYSIOGRAPHY.** Recitations, lectures, map work. The probable origin of the earth and its relations to other heavenly bodies. The features of the earth's surface and the agencies producing these. The atmosphere, climate, etc. Oceans, rivers and lakes. Five hours. Third term, first year. Short Courses in Mining, Clay-working; and second year, Short Course in Industrial Arts.
4. **ELEMENTARY GEOLOGY.** Recitations, lectures, laboratory work. Lithological, dynamical, structural and historical geology. Five hours. (Second term, second year, Short Course in Mining.)
5. **GENERAL GEOLOGY.** Structural, historical and dynamical geology. Three hours lectures and recitations and four hours laboratory and field work. In the laboratory Dana's Manual of Geology, the Ohio Geological Reports and characteristic fossils will be studied. In the field specimens will be collected, sections measured, formations identified and the student given an idea of the methods of work pursued by a field geologist. Credit five hours (First term, fourth year, Course in Architecture, Ceramics, Civil and Mining Engineering; and second year, Short Course in Clay-working.)
6. **ECONOMIC GEOLOGY.** Lectures and assigned reading. Economic materials of stratified rocks, clays, limes, cements, coals, iron ores, phosphates, petroleum and gas. Economic materials derived from unstratified rocks—gold, silver, copper, mercury, etc. Three hours. (Second Term, fourth year, Courses in Architecture, Ceramics, Civil and Mining Engineering; and second year, Short Course in Clay-working.)
7. **PETROGRAPHY.** Lectures and laboratory work. The ingenious, sedimentary, and metamorphic rocks,—their origin and classification. The volcanic rocks of the western United States,—their composition, structure and alteration products. The object of this course is to give the student a practical acquaintance with rocks. Two hours. (Second Term, fourth year, Course in Mining Engineering.)

GERMAN LANGUAGES AND LITERATURES

[UNIVERSITY HALL, Rooms 32 and 33]

Professor Eggers, Associate Professor Mesloh

Assistant Professor Mesloh
COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **ELEMENTARY GERMAN.** Four times a week.
53. **SCIENCE READING.** Twice a week.

55. **INTERMEDIATE GERMAN.** Lectures upon outline of German Literature. Reading of selections. Four times a week.
57. **THE GERMAN DRAMA.** Lectures and reading of Selections. Three times a week.
59. **FAUST I.** Twice a week. (Can be taken only by those who propose to take 60.)
61. **MIDDLE HIGH GERMAN.** Mediæval Epics. Twice a week.
63. **DEUTSCHER AUFSATZ.** Original compositions in German. Once a week.
65. **COLLOQUIAL EXERCISES.** For advanced students. Twice a week.
67. **GOTHIC.** Wright's Primer. The relation between Gothic and allied languages will be considered. Twice a week.
59. **OLD NORSE.** Lectures on Grammar and Reading of Sagas. The last two courses will alternate.
71. **SANSKRIT.** Perry's *Primer*. Lectures introductory to the study of Indo-Germanic philology.
73. **MODERN GERMAN DRAMA.** Critical study of contemporary dramatists, Hauptmann, Sudermann and others, with references also to the dramas of Ibsen and other dramatists of Germanic countries. Lectures and reading. Composition. After 1901 this course will alternate with 57. Three hours a week.
75. **PHONETICS.** Lectures. The course is intended to give the student a knowledge of the various sounds of language and of the relations between them. One hour a week.

SECOND SEMESTER

52. Continuation of Course 51. Four times a week.
54. Continuation of Course 53. Twice a week. Courses 53 and 54 must have been preceded by Courses 51 and 52.
56. **GERMAN LITERATURE.** Lectures and reading of Selections. Four times a week. Course 55 must have been preceded by Courses 51 and 52.
58. **THE GERMAN PROSE.** Lectures and reading of Selections. Three times a week. 57 and 58 must have been preceded by 51, 52, 55 and 56.
60. **FAUST II.** Twice a week.
62. **MEDIÆVAL LYRICS.** Twice a week.
64. **DEUTSCHE KULTURGESCHICHTE.** Once a week.
Courses 59, 60, 61, 62, 63 and 64 can be taken only with the approval of Professor Eggers; and must have been preceded by Courses 51, 52, 55 and 56, or their equivalents.
66. **COLLOQUIAL EXERCISES.** For advanced students. Twice a week.
68. **OLD HIGH GERMAN.** Lectures on Grammar and Literature. Reading of Selections. Twice a week.
70. **COMPARATIVE GRAMMAR.** Lectures. Twice a week.
The last two courses will alternate.
72. Continuation of Course 71.
74. **MODERN GERMAN PROSE.** Lectures and reading. The great contemporary writers of prose in Germany will be discussed. Some of their critical and philosophical works will be read. References will be made to the great prosaists of other Germanic countries. This course will alternate after 1901 with 58. Three hours a week.

COLLEGE OF AGRICULTURE, ENGINEERING AND PHARMACY

1. **ELEMENTARY.** Four times a week, through the year.
2. **SCIENCE READING.** Twice a week, through the year.
4. **GERMAN LITERATURE.** Four times a week, through the year.
5. **SCIENCE READING.** Four times a week. Open to those who have completed Course 1 or its equivalent. Required of all students who offer German as their entrance language.

GREEK LANGUAGE AND LITERATURE

[UNIVERSITY HALL, Room 37]

Professor Smith, Associate Professor Hodgman

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

ELEMENTARY GREEK. White's *First Greek Book* and one or two books of Xenophon's *Anabasis*. This course is designed to meet, partially, the wants of those who are deficient in the Greek required for admission. It cannot receive University credit. Five times a week, through the year.

FIRST SEMESTER

51. **XENOPHON'S HELLENICA**, Books I, II (Manatt). Greek Prose Composition. Herodotus, Book VII. Four times a week.
53. **LYSIAS**, Select Orations (Morgan.) Attic Antiquities. Homer's *Iliad* (Seymour). Four times a week.
59. **LECTURES ON HISTORY OF ANCIENT ART.** Twice a week.
(Given biennially. Not offered in 1900-1901.)
61. **THE ATTIC DRAMA.** Lectures, collateral readings and quiz. Twice a week.
63. **LECTURES ON THE HISTORY OF MEDIÆVAL AND MODERN ART.** Twice a week.
(Given biennially. Not offered in 1901-1902.)
65. **LYRIC POETRY.** Selections from the Greek Lyric Poets. Twice a week.

SECOND SEMESTER

52. **HERODOTUS** (continued). Myers's History of Greece. Homer's *Odyssey* (Perrin). Four times a week.
54. **HOMER'S ILIAD** (continued). Plato's *Apology of Socrates, Crito*, and selections from *Phaedo*. Four times a week.
60. **LECTURES ON HISTORY OF ANCIENT ART.** Continuation of Course 59. Twice a week.
(Given biennially. Not offered in 1900-1901.)
62. **THE ATTIC DRAMA.** Continuation of Course 61. Rapid reading of two or three plays. Twice a week.
64. **LECTURES ON MEDIÆVAL AND MODERN ART.** Continuation of Course 63, Twice a week.
(Given biennially. Not offered in 1901-1902.)
68. **GREEK PRIVATE LIFE.** Lectures, illustrated by photographs and lantern-slides. Twice a week.

CLASSICAL PHILOLOGY

Courses 69-70. **HISTORICAL GRAMMAR.** These courses include lectures upon such topics as: The Indo-European family of languages; alphabets and pronunciation of Greek and Latin; accent and its effects as seen in vowel weakening, syncopation, etc.; vowel graduation; inflection of noun and verb; Grimm's Law and the associated laws; the passage of Latin into French and thence into English, etc. The courses include, also, the study of selected inscriptions, of a portion of Quintilian, Book I, and assigned reading in such manuals as Giles's Comparative Philology, and Thompson's Palæography. Twice a week through two semesters. (Given biennially. Not offered in 1901-1902.)

HISTORY

AMERICAN HISTORY

[UNIVERSITY HALL, Rooms 27 and 18]

Professor Knight, Dr. J. B. Sanborn

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

Course 55 (or 56) must precede all other courses in American History. All students intending to take advanced courses in American History should take English History (European History 153 and 154, Department of European History) as early as possible in their course.

FIRST SEMESTER

55. **POLITICAL HISTORY OF THE UNITED STATES.** Lectures, text-books, prescribed readings and topical reports. Hart's Formation of the Union; Wilson's Division and Reunion. Four times a week. This course is repeated in the Second Semester (as Course 56). Of students who are required to take this subject, those whose names begin with the letters from A to K will take it in the first semester; others will take it in the second semester (as Course 56). Two sections.
61. Seminary for Research Work in American History and Political Science. Two hours a week (at one meeting). In 1900-1901 all fourth year students, who elect their Major Study in the departments of American History and Political Science must take this course. Open, as elective, to other students, graduate and advanced undergraduate, on permission of the instructor.
63. **AMERICAN COLONIAL HISTORY.** The political and social development of the American Colonies, the growth of colonial self-government and of the idea of union. Lectures, assigned readings and special reports. Three times a week. (Given biennially. Not offered in 1900-1901.)
65. **CONSTITUTIONAL AND POLITICAL HISTORY OF THE UNITED STATES. 1850-1876.** Secessions, Civil War and Reconstruction; a study of the causes and the effects of the downfall of slavery. Lectures and assigned readings. Three times a week. Given biennially. Offered in 1900-1901.)

71. **HISTORICAL MATERIAL AND ITS USE.** Lectures on elementary historical bibliography and the use of American historical documents, with practical exercises. Especially designed for students intending to do advanced work in American history and political institutions. Once a week.
All students electing their Major Study in the department of American History and Political Science are expected to take this course in their third year. Open as elective to others on permission of the head of the department.
73. **TERRITORIAL DEVELOPMENT OF THE UNITED STATES, 1789-1850.** Growth of the United States, the acquisition and settlement of new territories, and the effect of those territories on the life of the nation. Lectures and assigned readings. Twice a week.
56. **POLITICAL HISTORY OF THE UNITED STATES.** Lectures, text-books, prescribed readings and topical reports. Hart's *Formation of the Union*; Wilson's *Division and Reunion*. Four times a week. (This is a repetition of Course 55 and will be taken in the second semester by those students (of whom it is required) whose names begin with letters from L to Z.) Two sections.
62. **SEMINARY FOR RESEARCH WORK IN AMERICAN HISTORY AND POLITICAL SCIENCE.**
Two hours a week (at one meeting).
This is a continuation of Course 61, and is open to those only who have had Course 61. In 1900-1901 all fourth year students electing their Major Study in the department of American History and Political Science must take this course. Open, as elective, to other students, graduate and advanced undergraduates, on permission of the instructor.
64. **CONSTITUTIONAL AND POLITICAL HISTORY OF THE UNITED STATES.** The Formative Period, 1776-1815. An advanced course covering the organization and establishment of the United States as a nation. Lectures, assigned readings and special investigations. Three times a week.
(Given biennially. Not offered in 1900-1901.)
66. **AMERICAN DIPLOMATIC HISTORY.** History of the foreign relations, policy and treaties of the United States. Lectures and special investigations. Three times a week.
(Given biennially. Offered in 1900-1901.)
72. **TOPICAL RESEARCH IN AMERICAN HISTORY.** The preparation of special topics on the basis of the work of Course 71. Some special period of American History will be taken up each year. Once a week.
Open to those who have had Course 71. All students electing their major study in the department of American History and Political Science are expected to take this course in their third year.
74. **TERRITORIAL DEVELOPMENT OF THE UNITED STATES, 1850-1900.** A continuation of Course 73. Particular attention will be paid to the country west of the Mississippi, and to the growth of American interests in the Pacific. Lectures and assigned readings. Twice a week.

COLLEGE OF ENGINEERING

56. **POLITICAL HISTORY OF THE UNITED STATES.** Lectures, text-books and prescribed reading. Hart's *Formation of the Union*; Wilson's *Division and Reunion*. Two sections. Four times a week. (Last half Second Term and Third Term, third year, Courses in Industrial Arts and Manual Training.)

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

5. **POLITICAL HISTORY OF THE UNITED STATES.** Lectures, text-books and prescribed readings. Hart's *Formation of the Union*; Wilson's *Division and Reunion*. Four times a week during the first term and the first half of the second term. Two sections. The aim of this course is to give the student such knowledge of the political history of the United States as shall make for intelligent citizenship and a clearer understanding of current political conditions.

EUROPEAN HISTORY

[UNIVERSITY HALL, Rooms 7, 17, 36]

Associate Professor Siebert

Courses 151 and 152, in the order named, must precede all other courses in European History, except Courses 153, 154 and 157.

FIRST SEMESTER

151. **GENERAL HISTORY OF EUROPE TO THE CLOSE OF THE MIDDLE AGES.** Lectures, text-book and collateral readings. Adams, *Civilization during the Middle Ages*. Three times a week. Two sections.
153. **POLITICAL AND CONSTITUTIONAL HISTORY OF ENGLAND TO THE ACCESSION OF THE STUARTS.** Lectures, text-book and assigned readings. Gardiner's *Student's History of England*. Three times a week.
155. **HISTORY OF EUROPE FROM 1789 TO 1815.** The French Revolution. Lectures, recitations and collateral reading. Stephen's *Europe, 1718-1815*. Three times a week.
157. **ROMAN HISTORY AND INSTITUTIONS.** Lectures and text-book. Pelham, *History of Rome*. Twice a week.
159. **HISTORY OF EUROPEAN COLONIES.** A study of colonial development of Portugal, Spain, England, the Netherlands, France and Germany during the fifteenth, sixteenth and seventeenth centuries. Lectures, collateral readings and special reports. Twice a week. Omitted in 1900-1901.
161. **HISTORY OF FRANCE TO THE MIDDLE OF THE EIGHTEENTH CENTURY.** Lectures, assigned readings and special reports. Given biennially. Omitted in 1900-1901.

SECOND SEMESTER

152. **GENERAL HISTORY OF EUROPE FROM THE MIDDLE AGES TO THE PRESENT TIME.** Lectures, text-book and collateral reading. Schwill's *History of Modern Europe*. Three times a week. Two sections.
154. **POLITICAL AND CONSTITUTIONAL HISTORY OF ENGLAND FROM THE ACCESSION OF THE STUARTS TO THE PRESENT TIME.** Lectures, text-book and assigned readings. Gardiner's *Student's History of England*. Three times a week.
156. **HISTORY OF EUROPE SINCE 1815.** Lectures, text-book and assigned readings. Fyffe's *Modern Europe*. Three times a week.
158. **HISTORY OF THE PERIOD OF THE PROTESTANT REFORMATION.** Lectures and text-book. Hauser's *Era of the Reformation*. Twice a week.

160. **HISTORY OF EUROPEAN COLONIES.** History of colonization by the important States of Europe during the eighteenth and nineteenth centuries. Lectures, collateral reading and special reports. Twice a week. Omitted in 1900-1901.
162. **DOCUMENTARY AND BIBLIOGRAPHICAL STUDIES IN EUROPEAN HISTORY.** Lectures, readings and criticism of documents, and investigations. Given biennially. Omitted in 1900-1901.

HORTICULTURE

[HORTICULTURAL HALL]

Professor Lazenby, Mr. Price.

1. **ELEMENTS OF HORTICULTURE.** Lectures, text-book and laboratory work in garden, orchard and green-house. A study of the principles of plant growth and culture, preparation of soil, drainage and irrigation, weeds and insects. Four times a week. First term.
- a. **GREENHOUSE, CONSTRUCTION AND MANAGEMENT.** A study of the different types of plant houses, including methods of heating, ventilating and watering. The vegetable forcing house, and the crops grown therein. Lectures, recitations and laboratory work in greenhouse. Four times a week. Second term.
- b. **PLANT PROPAGATION.** The theory and practice of multiplying plants by seeds, cuttings, divisions, layers, budding and grafting. A study of special garden crops, including fertilizers, tools and implements. Practice in transplanting, pollinating and the use of insecticides and fungicides. Lectures and laboratory work in garden and orchard. Four times a week. Third term.
5. **VARIETIES OF FRUIT.** A study of the history, characteristics, adaptation and general qualities of orchard and garden fruits, including their commercial and food value. Practice in judging and scoring apples, pears, peaches, grapes, citrous and nut fruits. Lectures, recitations and laboratory exercises. Four times a week. First term.
6. **PRINCIPLES OF FRUIT CULTURE.** A study of the location, tillage and fertilizing of fruit lands; the selection of varieties, laying out and planting of fruit grounds; the care of fruit plantations, including diseases, insects and fungi; spraying and the use of insecticides and fungicides; harvesting, preserving and marketing fruit. Lectures and recitations four times a week. Second term.
7. **SMALL FRUIT CULTURE.** A study of the varieties and methods of culture of the small or bush fruits. Practice in cross-pollinating, judging and scoring of small fruits; the relation of bees and birds to horticulture; insect enemies; fungus diseases and the theory and practice of spraying. Lectures, recitations and laboratory work in garden and orchard. Four times a week. First term.
8. **ELEMENTS OF FLORICULTURE.** A study of the origin, history, classification, general characteristics and development of ornamental plants. Lectures and laboratory work. Twice a week. First term.
9. **COMMERCIAL FLORICULTURE.** A study of the propagation and culture of ornamental plants, including the general management of plant houses, the marketing of cut flowers and bedding plants. Lectures, recitations and laboratory work. Twice a week. Second term.

10. **AMATEUR OR HOME FLORICULTURE.** Including the study of window gardening and general management of house plants; the out-door flower garden and treatment of flower beds and borders. Lectures, recitations and laboratory work. Twice a week. Third term.
11. **ARBORICULTURE.** A study of native and introduced trees and shrubs; their use for timber, ornament, shade, shelter and hedges; methods of propagation and culture. Lectures and field work. Twice a week. First term.
12. **FORESTRY AND SYLVICULTURE.** A study of the influence of forests upon soils, crops and climate; forestry in Europe; value of trees for timber; establishment and management of small plantations of forest trees; how to improve and extend existing woodland. Lectures and laboratory work. Twice a week. Second term.
13. **LANDSCAPE GARDENING.** A study of the art of producing picture-like or landscape effect; the making of lawns, walks and drives, and the correct planting of trees, shrubs and flowers for the external adornment of home and public grounds. Lectures and practice. Twice a week. Third term.

INDUSTRIAL ARTS AND SHOPWORK

[HAYES HALL, Rooms 9, 12, 17, 18, 5 and 6]

INDUSTRIAL ARTS

Professor Sanborn, Mr. Knight, Mr. Renck, Mr. Crowe, Mr. McIntire

1. **TOOLS, MACHINES.** Lectures and recitations on hand and machine tools and the principles of mechanism and mechanics underlying their design, construction and operation. Three times a week.
2. **DESIGNING.** Problems in drawing and design to accompany Course 1. Three drawing periods a week.
3. **SHOP EQUIPMENT, APPLIANCES AND MANAGEMENT.** A continuation of Course 1. Lectures and recitations on the strength and durability of the materials used in construction; shop and factory buildings and their construction; power, power transmission and prime movers; automatic machines and other special devices for turning out cheap and accurate work; methods of compensation and shop accounts and management. Three times a week.
4. **ADVANCED DESIGNING.** Problems in the design of buildings and the arrangement of machinery, line-shafting, etc., for manufacture plants; to accompany Course 3. Three drawing periods a week.
5. **WORKSHOPS AND APPLIANCES.** Lectures and problems on the construction of shop buildings and the arrangement of machinery; power required and the means of transmission: friction in line-shafting and the efficiency of machinery: automatic machines and special shop appliances. Three times a week.
6. **MACHINE DESIGN.** Application of the principles of mechanics and strength of materials to the problems of machine designing. Five times (ten hours' practice) a week.

SHOPWORK

1. **CARPENTRY AND PATTERN MAKING.** Exercises and practice in carpentry, wood-turning and pattern making, including sawing, planing, mortising, splicing, framing and other work involving the use of the ordinary carpenter tools; center and chuck turning; the making of finished patterns; and enough elementary moulding to illustrate draft, parting, cores, etc.

2. **FORGING.** Exercises and practice in iron and steel forging, including such operations as drawing, bending, forming, upsetting, welding and the making and tempering of punches, drills, chisels, lathe tools and springs.
3. **FOUNDRY WORK.** Exercises and practice in tempering sand and preparing moulds of machine parts in the sand, core-making, melting iron and brass, and the pouring of castings.
4. **CHIPPING AND FILING.** Exercises and practice in vise work, including chipping in cast and wrought iron; surface filing, squaring, fitting, finishing, and the scraping of surface plates.
7. **CARPENTRY AND PATTERN MAKING.** Similar to Shopwork 1.
8. **CARPENTRY: CABINET WORK.** Exercises and practice in cabinet making including panelling, mitre and dovetail joints, etc.; use of power tools.
9. **ADVANCED PATTERN MAKING.** Continuation of pattern work of Shopwork 7.
11. **FORGING.** Similar to Shopwork 2.
12. **ADVANCED FORGING.** Tool making, tempering of taps, dies, cutters, etc.; annealing; case hardening; ornamental iron work, etc.; visits to shops.
13. **MACHINE WORK.** Exercises and practice in hand-turning in iron and brass on speed lathes; and straight and taper turning, boring, fitting, chucking, thread-cutting, etc., on engine lathes.
14. **MACHINE WORK.** Exercises and practice on the lathe, planer, shaper, drill press and milling machine, with use of small tools as drills, taps, dies, reamers, counterbores, etc.; construction of parts of actual machines.
15. **ADVANCED MACHINE WORK.** Exercises and practice on turret lathe, universal, surface and tool grinding machines, gear cutting, etc.
16. **ADVANCED MACHINE WORK.** The construction and use of jigs and templates; the accurate laying out of work; the duplication of parts, the production of work rapidly and economically, etc.
17. **ADVANCED MACHINE WORK.** The making and use of special tools and fixtures, standard plugs and collars, standard caliper and limit gauges; error limits in modern machine construction; methods of testing the accuracy of machine tools; etc.

SHOPWORK REQUIRED

Number	Credit	Year	Term	Courses in	Number	Credit	Year	Term	Courses in	
3	2	2	1	M. E.: I. A. (short).	11	2	2	2	E. M.	
	2	2	1	I. A.: Man. Tr.		2	2	2	Chem.: I. A.: Man. Tr.	
4	2	2	1	E. E.	3	1	3	Clay-w'k (short): I. A. (short)		
	3	1	1	I. A.: Man. Tr.	3	2	3	Mining (short).		
	2	2	1	I. A. (short).	3	3	3	Cer.		
	2	2	2	M. E.	12	3	2	3	I. A.: Man. Tr.	
	1	3	3	Clay-work (short).		13	3	2	2	E. E.
	2	2	3	E. M.	3		3	2	I. A.: Man. Tr.	
2	2	3	E. M.	5	2	2	I. A. (short).			
2	4	1	Cer.	3	2	3	M. E.			
7	3	1	1	I. A. (short).	14	3	3	1	M. E.: E. E.	
	2	2	1	Chem.: I. A.: Man. Tr.		3	3	3	I. A.: Man. Tr.	
	2	2	1	E. M.	15	3	4	1	I. A.: Man. Tr.	
	4	1	3	E. E.: M. E.		4	3	2	M. E.	
8	5	2	3	I. A.: Man. Tr.	5	2	3	I. A. (short).		
	9	3	2	2	I. A.: Man. Tr.	16	3	4	2	I. A.: Man. Tr.
		3	1	2	I. A. (short).		17	3	4	3	I. A.
11	2	2	1	E. E.						
	3	2	1	M. E.						

LATIN

[UNIVERSITY HALL, Rooms 29, 28 and 39]

Professor Derby, Associate Professor Hodgman, Assistant Professor Elden

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

Courses 51, 52, 53, and 54 in the order named must precede the Elective Courses 55, 56, 57, 58, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78.

FIRST SEMESTER

- 51. LIVY—BOOKS XXI AND XXII; TERENCE—*Pharmio*. Four times a week.
- 53. HORACE—*Odes*; CATULLUS—*Selections*; TACITUS—*Agricola*. Four times a week.
- 55. ROMAN HISTORIANS—TACITUS—*Historiae*; SUETONIUS. Three times a week.
- 57. ROMAN PHILOSOPHY. Three times a week. (Not offered in 1900–1901.)
- 59. PHARMACEUTICAL LATIN. Five times a week.
- 61. LINGUISTICS AND INSCRIPTIONS. Two times a week. (Not offered in 1900–1901.)
- 63. TEACHERS' COURSE. Two times a week.
- 65. ROMAN RHETORIC AND ORATORY. Three times a week.
- 67. GREEK AND ROMAN ANTIQUITIES. Lectures, illustrated. Two times a week.
- 69. CICERO'S PHILOSOPHY. *Tusculanae Disputationes, De Finibus*. Three times a week.
- 71. LATIN LITERATURE. Once a week.
- 73. ROMAN POLITICAL AND LEGAL ANTIQUITIES. Once a week.
- 75. LATIN WRITING. Twice a week.
- 77. LATIN PROSEMINARY. Three hours a week.

SECOND SEMESTER

- 52. EARLY LATIN COMEDY—PLAUTUS—*Mostellaria*; CICERO—*Selected Letters*. Four times a week.
- 54. PLINY'S *Letters*; TIBULLUS, PROPERTIUS, OVID. Four times a week.
- 56. ROMAN SATIRE. Three times a week.
- 58. JUVENAL. MARTIAL. Three times a week.
- 60. PHARMACEUTICAL LATIN—Continuation of Course 59. Five times a week.
- 62. Continuation of Course 61. Two times a week.
- 64. Continuation of Course 63. Two times a week.
- 66. LATER LATIN WRITERS. Three times a week.
- 68. GREEK AND ROMAN ANTIQUITIES. Lectures, illustrated. Two times a week.
- 70. SENECA, *Selections*; PLAUTUS, two plays. Three times a week.
- 72. Continuation of Course 71. Once a week.
- 74. Continuation of Course 73. Once a week.
- 76. Continuation of Course 75. Twice a week.
- 78. Continuation of Course 77. Three hours a week.

COLLEGE OF PHARMACY

1. **PHARMACEUTICAL.** Five times a week. First, second and third terms.

LAW

[UNIVERSITY HALL]

FIRST YEAR

FIRST SEMESTER

Elementary Law (Robinson, Walker and Blackstone).

SECOND SEMESTER

Agency (Mechem); Contracts (Bishop); Criminal Law (Hawley); Sales (Tiedeman); Torts (Cooley).

SECOND YEAR

FIRST SEMESTER

Bailments (Hale); Commercial Law (Tiedeman); Evidence (Underhill or Greenleaf); Pleading (Phillips).

SECOND SEMESTER

Construction of Contracts (Jones); Partnership (Parsons); Real Property (Tiedeman); Wills (Schouler).

THIRD YEAR

FIRST SEMESTER

Constitutional Law (Black); Private Corporations (Taylor); Municipal Corporations (Tiedeman); Equity Jurisprudence (Fetter).

SECOND SEMESTER

Ethics (Sharswood); Insurance (Richards); Negligence of Municipal Corporations (Jones); Suretyship (Baylies.)

MATHEMATICS

[UNIVERSITY HALL, Rooms 39, 41, 43 and 45]

Professor Bohannon, Associate Professor McCoard, Assistant Professor Arnold, Assistant Professor Swartzel, Mr. Rasor, Miss Ball

A. TERM COURSES

1. **ELEMENTARY ALGEBRA.** *Venable.* Five times a week. First term (Short Course in Agriculture.)
3. **PLANE GEOMETRY.** *Venable.* Five times a week. First or second terms.
- 3a. **PLANE GEOMETRY.** *Venable.* Five times a week. Second term. (Short Courses in Agriculture and Clay-working.)
13. **SOLID GEOMETRY.** *Venable.* Five times a week. Second term.
14. **PLANE TRIGONOMETRY.** *Loney.* Five times a week. First or third terms.

15. ANALYTICAL AND SPHERICAL TRIGONOMETRY. *Loney*, with notes on Spherical Trigonometry. Twice a week. Second term.
16. COLLEGE ALGEBRA. *Taylor*. Three times a week. Second term.
17. PLANE ANALYTICS. *Loney*. Five times a week. Third term.
18. ANALYTICS AND DIFFERENTIAL CALCULUS. *Loney, Venable, Edwards*. Five times a week. First term.
19. DIFFERENTIAL CALCULUS. *Edwards*. Five times a week. Second term.
20. INTEGRAL CALCULUS. *Edwards*. Five times a week. Third term.
11. DIFFERENTIAL EQUATIONS. *Edwards*. Once a week. First term.
8. LEAST SQUARES. *Merriman*. Twice a week. First term.

B. SEMESTER COURSES

FIRST SEMESTER

55. PLANE TRIGONOMETRY (*Loney*) and 57, ALGEBRA. (*Taylor*). Five times a week.
59. ANALYTICS (*Loney, Venable*) and 61, DIFFERENTIAL CALCULUS (*Edwards*). Five times a week.
63. ADVANCED MATHEMATICS. Topics will be changed from year to year to meet the wishes of the students. Selections may be made from the following courses: (a) Advanced Calculus (*Picard Houel*); (b) Differential Equations (*Johnson, Murray, Forsythe, Craig*); (c) Higher Plane Curves (*Salmon*); (d) Advanced Analytical Geometry (*Casey, Salmon*); (e) Analytical Geometry of Three Dimensions (*Chas. Smith, Frost, Salmon*); (f) Theory of Equations (*Burnside and Panton*); (g) Modern Higher Algebra (*Chrystal Salmon, Serret, Cole's Netto*); (h) Modern Geometry (*Cremona, Reye, Steiner, Von Staudt, Chasles*); (i) Determinants (*Muir*); (j) Elliptic Functions (*Weber, Halphen, Durege, Hermite, Greenhill, Briot and Bouquet*); (k) General Theory of Functions (*Forsythe, Harkness and Morley, Tannery, Weierstrass, Durege, Thoame, Biermann*); (l) Potential Functions (*Clausius, Riemann, Dirichlet, Peirce*); (m) Mathematical Theory of Electricity (*Mascart and Joubert*); (n) Higher Geodesy (*Clarke, Helmert, Jordan*); (o) Spherical Harmonics (*Byerly, Ferrers, Heine*); (p) Mathematical Optics; (q) History of Mathematics. Credit, one to ten hours.
65. PROBLEMS ON ALL PAST WORK. Once a week.
67. ALGEBRA, ANALYTICS, CALCULUS. Three times a week. Taylor's College Algebra.

SECOND SEMESTER

56. ALGEBRA (*Taylor*), and 58, PLANE ANALYTICS (*Loney*). Five times a week.
60. CALCULUS and 62, DIFFERENTIAL EQUATIONS (*Edwards*). Five times a week.
64. Continuation of Course 63. Credit, one to ten hours.
66. Continuation of Course 65. Once a week.
68. TRIGONOMETRY, ANALYTICS, CALCULUS. Three times a week. Lyman and Goddard's Trigonometry.

MECHANICAL ENGINEERING

[HAYES HALL, Room 12; MECHANICAL HALL, Second Floor]

Professor Magruder, Associate Professor Hitchcock, Mr. Hale, Mr. Grate

3. **MECHANISM.** Lectures and recitations on the principles of mechanism and mechanical movements. Five times a week. (Second Term, third year, Mechanical and Electrical Engineering Courses.)
The accurate laying out of movements, embodying the principles of mechanism. Twice a week. (Third Term, third year, Course in Mechanical Engineering.)
6. **ANALYTICAL MECHANICS.** Five times a week. (First and Second Terms, third year, Courses in Architecture, Ceramics, and Civil, Electrical, Mechanical and Mining Engineering.)
7. **STRENGTH OF MATERIALS.** Recitations and lectures on the elastic and ultimate resistance of the materials of engineering to stress and their use in structures and machines. Lectures on elementary hydraulics and the flow of water through orifices and pipes over weirs, and in streams, and on measuring the same. Five times a week. (Third Term, third year, same as 6.)
12. **EXPERIMENTAL ENGINEERING LABORATORY.** Twice a week. (First Term, third year, Course in Mechanical Engineering.)
14. The same. Four times a week. (Second Term, fourth year, Course in Mechanical Engineering.)
15. The same. Three times a week. (Third Term, fourth year, Course in Mechanical Engineering.)
17. The same. Three times a week. (Second Term, fourth year, Course in Civil Engineering.)
18. **MACHINE DESIGN.** Recitations on Unwin's Machine Design, with lectures on American Practice. Five times a week. (First and Second Terms, fourth year, Course in Mechanical Engineering.)
19. **MACHINE DESIGN.** Practical applications of the principles of machine design. Five drawing periods a week. (Third Term, fourth year, Course in Mechanical Engineering.)
21. **THESIS WORK.** Five times a week. (Third Term, fourth year, Course in Mechanical Engineering.)
22. **TIMBER AND MASONRY.** Lectures on the construction of foundations and structures in timber and masonry. Five times a week. (The last three-fifths of Second Term, third year, Courses in Mechanical Engineering and Industrial Arts.)
23. **MATERIALS OF CONSTRUCTION.** Lectures on the materials used in architecture and building construction, and laboratory exercises on their properties. Four times a week. (First Term, fourth year, Course in Architecture.)
24. **EXPERIMENTAL ENGINEERING LABORATORY.** Three times a week. (First and Second Terms. Elective to third and fourth year engineers.)
35. The same. Five times a week. (Third Term, fourth year, Courses in Civil and Mining Engineering.)
27. The same. Five times a week. (First Term, fourth year, Course in Mechanical Engineering.)

28. The same. Twice a week. (Third Term, third year, Course in Electrical Engineering; First Term, fourth year, Course in Industrial Arts; and Third Term, Course in Manual Training.)
29. The same. Three times a week. (First Term, fourth year, Course in Electrical Engineering.) Twice a week. (Second Term, fourth year, Course in Industrial Arts.)
30. The same. Twice a week. (Second Term, fourth year, Course in Electrical Engineering; Third Term, fourth year, Course in Industrial Arts.)
31. **HYDRAULIC MACHINERY.** Recitations and lectures on pumping machinery. Three times a week. (Third Term, fourth year, Course in Mechanical Engineering.)
32. **MECHANICAL ENGINEERING AND POWER PLANTS.** A descriptive study of steam and gas engines, boilers, pumps, injectors and other machinery used in plants generating power. Five times a week. (Third Term, third year, Courses in Mechanical and Electrical Engineering; Third Term, fourth year, Courses in Industrial Arts and Manual Training.)
33. **STEAM ENGINES AND BOILERS.** A detail study of steam using and steam generating machinery. Five times a week. (First Term, fourth year, Courses in Mechanical and Electrical Engineering.)
34. **THERMODYNAMICS.** Lectures and recitations on the transmutations of heat and mechanical energies in steam, gas and air engines, and in air and ammonia compressors, together with a study of the tests of ideal and actual engines and of their indicator diagrams; the flow of gases through pipes and orifices. Five times a week. (Second Term, fourth year, Course in Mechanical Engineering.)

METALLURGY AND MINERALOGY

[CHEMICAL HALL, Rooms 4 and 3]

Professor N. W. Lord, Mr. Somermeir

COLLEGE OF ENGINEERING

2. **MINERALOGY.** Lectures. Similar to Course 52 in College of Arts, Philosophy and Science, but more practical, and arranged so as to be preparatory to Determinative Mineralogy (Course 3). Three times a week. Third term.
3. **DETERMINATIVE MINERALOGY.** Laboratory course in practical determination of minerals by physical and chemical tests. Each student is furnished with a set of apparatus, and works under an instructor's inspection. Brush's *Determinative Mineralogy* is used as a manual. Five times a week. Third term.
4. **METALLURGY.** A course of lectures upon fuel and its uses, iron and steel, copper, lead, gold and silver, their properties, tests, ores and details of the modes of reduction. The lectures are supplemented by a careful study of references to standard works and journals. Five times a week. First and second terms.
5. **METALLURGICAL LABORATORY.** Lectures and laboratory work. Laboratory practice in the analysis of iron and steel, fuel and slags, and the assays of lead, copper and zinc ores by wet methods, using approved methods as practiced in technical laboratories of metallurgical works. Course 5 must be preceded by Agricultural Chemistry, Courses 1, 8, 9; or by General Chemistry, Courses 7 and 12. Five laboratory periods a week. Three terms.

6. **ASSAYING.** Laboratory work. Practical work in the assaying of gold, silver and lead ores, by furnace methods. Oral instruction, with reference to standard books on assaying. Five laboratory periods a week. Second term.
7. **METALLURGICAL CONSTRUCTION.** Practice in the designing of furnaces and other metallurgical machinery, including detail drawings and estimates. Three times a week. First term. (Professors Lord and Ray.)
8. **ORE DRESSING AND COAL WASHING.** Lectures. Instruction in the methods of concentrating and enriching ores and fuels by mechanical means. Lectures with reference to Rittinger's *Aufbereitung*; Callon's *Course d' Exploration des Mines*; Kunhardt's *Ore Dressing*, and various papers in technical journals. Twice a week. First term.
9. **MINERAL CHEMISTRY.** Lectures and laboratory practice. Lectures upon fire damp, mine explosions, explosives, boiler, waters, poisonous gases, iron ores; iron and steel, their properties and modes of manufacture; coal and coke. Five hours a week. Third term.

MILITARY SCIENCE AND TACTICS

[ARMORY]

Major J. M. Burns, U. S. A., Retired

1. **MILITARY DRILL.** Three times a week through the year.
2. **TACTICS.** Lectures and recitations. Twice a week. Second term.
3. **ART OF WAR.** Lectures and recitations. Twice a week. Second term.

MINE ENGINEERING.

[CHEMICAL HALL, Room 26]

Associate Professor Ray

ELEMENTARY ALGEBRA. (Mathematics 2.) Wentworth. Five times a week. Three terms.

1. **MINE SURVEYING.** Lectures and field practice. This is similar to Course 4, but more elementary. The same text is used. The students have more practice in the drawing-room. Five times a week. First term.
2. **VENTILATION AND HAULAGE.** Lectures illustrated by experiments and maps of mines and models when possible, tests by safety lamps and anemometers, and solution of air distribution in coal mines. Five times a week. Second term.
3. **MINE OPERATING.** A course of lectures and practical instruction in mine book-keeping and accounts, cost of working, etc., particularly adapted to Ohio coal mining. Five times a week. Third term.
4. **MINE SURVEYING.** Field Practice in the use of instruments for surface and underground surveys. Full notes are taken, and maps and plans made in the drawing-room. Davie's *Surveying*, by Van Amringe, is used as a text-book. Five times a week. First term.
5. **MINE ENGINEERING.** Lectures. Mine operating, mining machinery, ventilation, shaft-sinking, working out deposits, etc. Constant reference is required to the standard works and to the leading technical journals, with practice in designing mine plants, draughting and estimates. Five times a week through the year.
6. **PLANS AND SPECIFICATIONS.** Five times a week. Third term. [Professors Lord and Ray.]

PHARMACY

[CHEMICAL HALL, Rooms 13 and 12]

Professor Kauffman, Assistant Professor Landacre, Assistant Professor Dye

6. **PHARMACY.** General pharmaceutical processes. Lectures three times a week. First term.
7. **PHARMACY.** United States Pharmacopeia official preparations. Lectures twice a week. Laboratory practice daily. Second term.
8. **DISPENSATORIES.** Official preparations. Lectures twice a week. Laboratory practice daily. Third term.
9. **PHARMACEUTICAL CHEMISTRY.** Unofficial preparations. The National Formulary. Lectures twice a week. Laboratory practice daily. First term.
10. **EXTEMPORANEOUS PHARMACY.** Prescription practice. Lectures once a week. Laboratory practice three times a week. Second term.
11. **GENERAL PRACTICE.** Lectures twice a week. Dispensing practice daily. Prescription practice daily. Third term.
12. **MATERIA MEDICA.** Official drugs and classification. Three times a week. First term.
13. **MATERIA MEDICA.** Official and unofficial drugs. Three times a week. Second term.
14. **MATERIA MEDICA AND THERAPEUTICS.** Synthetic Products. Poisons and Antidotes. Three times a week. Third term.
15. **PHARMACEUTICAL ASSAYING.** Three times a week. First term.
16. **METHODS OF MANUFACTURE.** Three times a week. Second and third terms.
17. **GENERAL PHARMACY.** Two lectures, three laboratory periods a week. Through the year.
18. **LABORATORY.** Special work for veterinary students. Five times a week. Third term.

PHILOSOPHY

[UNIVERSITY HALL, Rooms 33, 50, 49 and 51]

Professor Scott, Mr. Hamilton

FIRST SEMESTER

51. **GENERAL PSYCHOLOGY.** Logic Begun. Four times a week. Required in the Courses for B. A., B. Ph. (L), and B. Ph. (M. L.)
53. **GENERAL PSYCHOLOGY.** Three times a week. Required in the Courses for B. Ph. (E.), B. Sc., for Law and Journalism.
55. **ETHICS.** Three times a week. Required in Course for B. Ph. (E.).
57. **HISTORY OF ANCIENT AND MEDIÆVAL PHILOSOPHY.** Three times a week. Elective after Courses 51 and 52.
59. **INTRODUCTION TO PHILOSOPHY.** Twice a week. Elective after Courses 51, 52, 56 and 57 or after Courses 53, 54, 55 and 56.
61. **PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY.** Twice a week. Elective. This course begins with a general survey of the organic basis of personality, attention, etc., taking up in turn the sense organs and perception, motor processes and the personal equation.
63. **LEADING WORKS IN PHILOSOPHY.** Twice a week. Elective on the same conditions as Course 59.

SECOND SEMESTER

52. **LOGIC COMPLETED, ETHICS.** Four times a week. Follows Course 51.
54. **LOGIC.** Three times a week. Follows Course 53.
56. **HISTORY OF MODERN PHILOSOPHY.** Three times a week. Required after Course 55. Also elective after Courses 51 and 52.
60. **METAPHYSICS.** Twice a week. Elective after Courses 51, 52, 57 and 56 or after Courses 53, 54, 55 and 56.
62. **PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY.** Twice a week. Elective. The work of this semester presupposes Course 61. Individual topics will be assigned and the student will be required to report upon the general literature of the subject as well as to make an experimental study of some of the controverted points.
64. **LEADING WORKS IN PHILOSOPHY.** Twice a week. Elective on the same conditions as Course 60.

PHYSICS

[UNIVERSITY HALL, Rooms 10, 14, 23 and 24]

Professor Thomas, Assistant Professor Boyd, Mr. Kester

COLLEGES OF AGRICULTURE, ENGINEERING AND PHARMACY

- ELEMENTARY PHYSICS.** Recitations and experimental lectures. Five times a week. First and Second Terms. Text: Carhart & Chate's "Elements of Physics." (Required in all Short Courses.)
- MECHANICS AND HEAT.** Electricity and Magnetism, Sound and Light. Lectures and recitations. Three times a week. Through the year.
- PHYSICS.** Extension of Course 2, with practice in solution of problems. Twice a week. Through the year.
- ELECTRICITY AND MAGNETISM.** Lectures and recitations. Three times a week. First term. (Third year, Electrical Engineering).
- PHYSICAL LABORATORY.** Elementary manipulation. Length, mass and time measurements. Work in density, elasticity and heat. Three times a week. Second and third terms.
- PHYSICAL LABORATORY.** Theory and practice of magnetic and electrical measurement, including the testing and standardizing of instruments; conductivity of conductors; insulation, capacity and resistance of insulated conductors and cables; temperature co-efficients; commercial measuring and testing instruments; strength and distribution of magnetic fields, magnetic moments, permeability; work in light including optical constants; spectroscopy; photometry of gas, electric and other lights. Five times a week. First, second and third terms. (Third year, Electrical Engineering.)
- PHYSICAL LABORATORY.** Two to three times a week. Through the year. Course 7 must be preceded by Course 2.
- PHYSICAL LABORATORY.** A second year's work in the Physical Laboratory. Three times a week, with five hours' credit. Course 9 must be preceded by Course 7.

The work in the Physical Laboratory begins with exercises in length, mass and time measurement, making use of scales, tapes and bars, micrometer screws, micrometer microscopes, the dividing engine, the cathetometer, the balance, chronometers, chronoscopes, etc. This course is intended to give the student facility in the use of instruments and knowledge of the theory of their construction and adjustment.

The determination of various physical constants follows, with elementary exercises in heat, light, electricity and magnetism; after which the student takes up such advanced work as his taste and skill permit. The experimental work is accompanied by instruction in methods and in the discussion of results.

11. **MECHANICS, SOUND AND HEAT.** One lecture, two laboratory periods a week. Required in the Course in Pharmacy.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FIRST SEMESTER

51. **MECHANICS, HEAT, ETC.** Three times a week. Second year. Science Course. Elective in the first year of the Courses of Arts and Philosophy.
53. **MECHANICS, SOUND AND HEAT.** One lecture, two laboratory periods a week. Elective in the First year of the Courses of Arts and Philosophy.
55. **LABORATORY.** Three to five times a week.
57. **LABORATORY.** Three to five times a week. Course 57 must be preceded by Course 55.
59. **THEORETICAL PHYSICS.** Five times a week. Lectures and assigned readings. Graduate and advanced undergraduate course.
61. **LABORATORY.** Five hours a week. To be preceded by Courses 55, 56, 57 and 58.

SECOND SEMESTER

52. **ELECTRICITY, MAGNETISM, ETC.** Three times a week. Follows Course 51.
54. **ELECTRICITY, MAGNETISM, ETC.** One lecture, two laboratory periods a week. Follows Course 53.
56. **LABORATORY.** Continuation of Course 55.
58. **LABORATORY.** Continuation of Course 57.
62. **THEORETICAL PHYSICS.** Five times a week. Follows Course 59.
64. **LABORATORY.** Five hours a week. Continuation of Course 61.

PHYSIOLOGY

(See Anatomy and Physiology)

POLITICAL ECONOMY

(See Economics)

POLITICAL SCIENCE

[UNIVERSITY HALL, Room 27]

Professor Knight

(All Courses in Political Science must be preceded by History 55 or 56)

FIRST SEMESTER

51. **INTERNATIONAL LAW.** Lectures and text-book. A study of public international law. Lawrence's *Principles of International Law*. Twice a week. (Given biennially. Not open in 1900-1901.)
53. **POLITICAL INSTITUTIONS OF THE UNITED STATES.** Lectures and recitations. A study of the origin, nature and workings of the political institutions of the United States, and an analysis of the form and powers of the government. Bryce's *American Commonwealth*. Three times a week.

55. **GOVERNMENT OF DEPENDENCIES.** A study of the political institutions of the leading colonial governments. Lectures, assigned readings and special reports. Twice a week.
(Given biennially. Not offered in 1900-1901.)

SECOND SEMESTER

52. **MUNICIPAL GOVERNMENT.** Lectures, collateral readings and special reports. A study of the development and status of modern municipalities, and a comparative study of recent American municipal charters. Twice a week. This Course forms a good sequent to Political Science 55, but is not dependent upon it.
54. **COMPARATIVE POLITICAL INSTITUTIONS OF EUROPE AND AMERICA.** Lectures, recitations, collateral readings and special reports. A comparative study of the political institutions and governmental forms and powers in the United States, England, Germany, France and Switzerland. Three times a week. Course 54 must be preceded by Course 53.
56. **HISTORY OF TREATIES AND MODERN DIPLOMACY.** A study of the leading treaties of modern times with special reference to their bearing upon international law. Accompanied by collateral reading and special reports. Twice a week. This course must be preceded by Course 51.

RHETORIC AND ENGLISH LANGUAGE

[UNIVERSITY HALL, Rooms 38, 40, 42, 44, 55.]

Professor Denney, Assistant Professors Graves, McKnight, Allen, Mr. Parker

Courses 51, 52, and either 53 or 54 are fundamental; Courses 55, 56, and 60, are advanced courses in composition; Courses 57, 58, 75 and 76 are advanced courses in public speaking; Courses 69, 70, 71, 72, 73 and 74 are philological; Courses 67 and 68 are pedagogical. Courses 59, 61, 62, 73 and 74 are usually found suitable for graduate students as well as for advanced undergraduates. Further courses of study exclusively for graduate students are arranged at the beginning of each year to meet individual needs and purposes.

FIRST SEMESTER

51. **ENGLISH COMPOSITION.** Three times a week. Credit two and one-half hours.
(a) Scott and Denney's "Paragraph Writing." Themes. Twice a week.
(b) Oral Practice. Once a week with the instructor in public speaking.
53. **STUDIES IN EXPOSITION.** Four times a week.
(a) Rhetorical analysis of prose; with essay-writing. Three times a week.
(b) Oral composition. Once a week with the instructor in public speaking. Course 53 must be preceded by Course 52.
55. **RAPID WRITING.** Once a week. The preparation of articles for the press, with exercises in observation, reporting, abstracting, condensation, expansion, interviewing, proof-reading, correspondence, and a study of newspaper forms. A special course for students preparing for journalism. Open to those who have passed Course 53 or 54.
57. **BRIEF MAKING AND ARGUMENTATION.** Three times a week. Practice in making briefs of noted speeches and original briefs for debate; lectures on logical analysis, evidence and argumentation. Class debates once a week, criticised by the instructor in public speaking. Course 57 must be preceded by Course 53 or 54.

59. **POETICS.** Twice a week. Lectures, prescribed readings, and reports. Gummere's "Hand-book" and Aristotle's "Theory of Poetry" used for reference. Course 57 must be preceded by Course 53 or 54.
61. **RHETORICAL THEORY.** Two hours a week. Lectures on the principles of style, and theories of rhetoric as historically developed, accompanied by special investigations of rhetorical problems with reports and discussions. An introduction to methods of research and the use of material. Exclusively for advanced undergraduates and graduates, who are making their theses in one of the English Departments.
67. **TEACHERS' COURSE IN RHETORIC.** Two hours a week. Lectures, conferences and prescribed readings on the teachings of composition and rhetoric in the schools. A special course for teachers and those intending to teach. Open only to advanced undergraduates, and to teachers who hold auditors' tickets.
69. **HISTORY OF THE ENGLISH LANGUAGE.** Twice a week. Emerson's "Brief History," with lectures and reading.
71. **OLD ENGLISH PROSE.** Twice a week. Bright's "Anglo-Saxon Reader." Course 71 must be preceded by Courses 69 and 70.
73. **OLD AND MIDDLE ENGLISH PHILOLOGY.** Two hours a week. Course 73 must be preceded by Courses 71 and 72.
75. **EXTEMPORE SPEAKING.** Two hours a week. Speaking from briefs and topical outlines on subjects previously mastered. Course 75 must be preceded by Courses 57 and 58.

SECOND SEMESTER

52. **ENGLISH COMPOSITION.** Three times a week. Credit two and one-half hours.
- (a) Cairns' "The Forms of Discourse." Themes. Twice a week.
- (b) Oral Practice. Once a week with the instructor in public speaking. Course 52 must be preceded by Course 51.
54. **STUDIES IN EXPOSITION.** Four times a week. Repetition of Course 53. Course 54 must be preceded by Course 52.
56. **RAPID WRITING.** Once a week. Continuation of Course 55, and must be preceded by Course 55.
58. **BRIEF-MAKING AND ARGUMENTATION.** Three times a week. Continuation of Course 57 and must be preceded by Course 57.
60. **SHORT STORIES.** Twice a week. Lectures, prescribed readings, reports, and practice under criticism. A study of the plan, purpose, diction, and structure of selected narratives, with plot analysis. Course 60 must be preceded by Course 53 or 54.
62. **PROBLEMS IN CRITICISM.** Two hours a week. Special research work, reports and a thesis. Course 62 must be preceded by Course 61.
68. **TEACHERS' COURSE IN ENGLISH LANGUAGE AND GRAMMAR.** Two hours a week. A special course for those engaged in teaching and those intending to teach. Open only to advanced undergraduates, and to teachers who hold auditors' tickets.
70. **DEVELOPMENT OF ENGLISH PROSE.** Twice a week. A rapid survey of the history of English idiom, with lectures and readings. Course 70 must be preceded by Course 69.
72. **OLD ENGLISH PROSE AND POETRY.** Continuation of Course 71 and must be preceded by Course 71.

74. **OLD AND MIDDLE ENGLISH PHILOLOGY.** Continuation of Course 73 and must be preceded by Course 73.
76. **EXTEMPORE SPEAKING.** Continuation of Course 75 and must be preceded by Course 75.

COLLEGES OF AGRICULTURE AND DOMESTIC SCIENCE, ENGINEERING AND PHARMACY

6. **ADVANCED RHETORIC.** Twice a week.

A. Prescribed readings in the literature of technology and science; and the analysis of specimens of this literature. Once a week.

B. Reports, abstracts, memoranda, and notes of lectures and of articles in the technical journals; practice in drawing specifications and writing brief papers on technical and scientific subjects. Once a week.

Two hours a week. (First, Second and Third Terms, second year, Courses in Industrial Arts, Manual Training, and Electrical and Mechanical Engineering; third year, Courses in Architecture, Ceramics, Chemistry, and Civil and Mining Engineering.)

5. **ENGLISH COMPOSITION.**

A. Scott and Denney's Paragraph-Writing; Macaulay's Warren Hastings; Cairn's Forms of Discourse; Themes. Twice a week.

B. Oral practice with the instructor in public speaking. Once a week. (First, Second and Third Terms, first year.) Three times a week. Credit two and one-half hours. All four-year courses.

4. **ADVANCED COMPOSITION.** Twice a week. Elective.

ROMANCE LANGUAGES AND LITERATURES

[UNIVERSITY HALL, Rooms 35 and 34.]

Professor Bowen, Assistant Professor Bruce

The Department of Romance Languages and Literature offers courses of instruction and research in the three leading languages of the group whose origin is to be traced to the Latin or Roman idiom. These three languages are the French, Italian and Spanish. The foremost place in the work of the Department is naturally assigned to the French. In the study of this language the first desideratum is a thorough reading knowledge, which shall lead directly to the study of the literature. For all the languages taught in this department, it is assumed that the highest educational value lies in the acquiring of the ability to read them intelligently, to translate them correctly, to understand, appreciate and compare the various phases of their literatures, and to grasp the principles of their historic development. The practical side of the work, that which deals mainly with the acquiring of the ability to speak these languages with accuracy and ease, is regarded as supplementary, and as such receives due attention.

Exclusive of library facilities, the Department possesses, as aids in illustrating and supplementing the work, the following collections: Complete set of maps (including Paris); illustrated volumes showing various phases of the arts and sciences, costumes and manners, public instruction, dramatic representations, etc., in France at different epochs; large photographs and engravings of the principal French writers; collections of French prose extracts for use in sight reading.

I. FRENCH

FIRST SEMESTER

51. **ELEMENTARY FRENCH.** Four hours a week. Grammar: Edgren's (Part I), Grandgent's Essentials, or Joynes' Minimum, with written exercises. Reader: Super's (from Part II) or Whitney's (Parts I and II) or Kuhns' French Reading for Beginners. In this course the study of the language is taken up from the beginning. Stress is laid at first upon the acquisition of a correct pronunciation, after which the entire energy of the student is directed toward the attainment of a full and accurate reading knowledge of the language. Grammar and composition are made to contribute to this end.
53. **SCIENCE READING.** Two hours a week. A course introductory to the vocabulary of scientific literature, designed to familiarize the student with technical terms and style. Open to those who have completed Courses 51 and 52, or who have received credit for French as an entrance subject.
55. **MODERN FRENCH LITERATURE.** Four hours a week. Contes and Novels: Bercy's *Contes et nouvelles modernes*. Balzac, Eugénie Grandet. Prose Composition: Edgren's French Grammar [Syntax] or Chardenal's French Exercises for Advanced Pupils. Lectures supplement the work; private reading required; systematic attention given to syntax and idiom. Open to those who have completed Courses 51 and 52, or who have received credit for French as an entrance subject.
57. **FRENCH COMEDY.** Three hours a week. Study of the growth of French Comedy, with work centering upon Molière [four plays], Regnard [le Joueur] and Beaumarchais [le Barbier de Séville]. Lectures and collateral reading. Open to those who have completed Courses 55 and 56.
59. **ADVANCED PROSE COMPOSITION.** One hour a week. Practice in speaking and writing French. Intended for advanced students who desire special training on the practical side of the language. Open to those who have completed Courses 55 and 56.
61. **FRENCH TRAGEDY.** Three hours a week. Racine and Voltaire. Lectures and readings, with assigned topics, reports and discussions. Part of the lectures given in French. Practical work continued. An advanced Course intended for students who have completed Courses 57, 58, 59 and 60. Any others must have the special consent of the head of the Department.
63. **FRENCH LITERATURE BEFORE THE SEVENTEENTH CENTURY.** Three hours a week. Special study of la Chanson de Roland. General Survey of the Old French period. Critical study of Montaigne [De l'institution des enfans]. Lectures (partly in French) on the literature of the sixteenth century. Assigned topics and reports. An advanced Course with the same conditions as in Course 61.
(Given biennially. Not offered in 1900-1901.)
65. **LITERARY CRITICISM IN FRANCE.** Two hours a week. Readings and lectures. Selections from Sainte-Beuve, Lemaitre, Brunetière and others. Open to those who have completed Courses 55 and 56.

SECOND SEMESTER

52. **MODERN PROSE AND PLAYS.** Continuation of Course 51. Four hours a week. Historical and narrative prose; one or more prose comedies. Sight reading is emphasized.

54. **SCIENCE READING.** Continuation of Course 53. Two hours a week.
56. **MODERN FRENCH LITERATURE.** Continuation of Course 55. Four hours a week. Lyric Poetry: Bowen's Modern French Lyrics. Drama: Comparative study of the classical and the romantic drama: Corneille, Horace; Hugo, Hernani. Private reading: Hugo's *la Chute*.
58. **RECENT FRENCH PROSE.** Three hours a week. Rapid reading with lectures. Critical study of some of the leading prose writers of the present, such as Bourget [Selections ed. Van Daell], *Coppée* [On rend l'argent], Daudet [le Nabab], Zola [la Débacle]. Open to those who have completed Courses 55 and 56.
60. **ADVANCED PROSE COMPOSITION.** Continuation of Course 59. One hour a week.
62. **CHATEAUBRIAND AND THE PRECURSORS OF THE ROMANTIC MOVEMENT.** Three hours a week. Lectures and readings, with assigned topics, reports and discussions. Part of the work conducted in French. Practical drill continued. An advanced course intended for students who have completed Courses 57, 58, 59, 60 and 61 (or 63.) Any others must have the special consent of the head of the Department.
64. **THE DEVELOPMENT OF THE FRENCH NOVEL.** Three hours a week. An advanced course with the same plan of work and the same conditions as in Course 62.
(Given biennially. Not offered in 1900-1901.)
Courses 62 and 64 are supplemented, toward the close of the year, by several lectures on: Methods of teaching French and the teacher's equipment.
66. **FRENCH TRAVEL - WRITERS.** Two hours a week. Readings and lectures. Scenes of travel from Gautier, Hugo and Dumas. Open to those who have completed Courses 55 and 56.

II. ITALIAN

51. **GRAMMAR AND READINGS.** Two hours a week. First Semester. Grandgent's or Edgren's Italian Grammar and Bowen's First Italian Readings. Open to those who have completed Courses 51 and 52 (or an equivalent) in French.
52. **GOLDONI AND DANTE.** Continuation of Course 51. Two hours a week. Second Semester.
(Italian is given biennially. Above Courses not offered in 1899-1900.)

III. SPANISH

51. **GRAMMAR AND READINGS.** Two hours a week. First Semester. Edgren's Spanish Grammar and Matze's First Spanish Readings.
52. **MODERN PROSE AND DRAMA.** Continuation of Course 51. Two hours a week. Second Semester. Alarcón el Capitán Veneno (Ford); Galdós, *Dona Perfecta*; Cortina, *el Indiano*. Brief talks on Spanish literature and philology.
(Spanish is given biennially. Above Courses not offered in 1900-1901.)

SANSKRIT

(See Germanic Languages)

SHOPWORK

(See Industrial Arts)

SOCIOLOGY

(See Economics and Sociology)

VETERINARY MEDICINE

[VETERINARY HOSPITAL AND TOWNSHEND HALL]

Professor White, Dr. Lavery, Dr. Frederick, Dr. Brumley

COLLEGES OF VETERINARY MEDICINE AND AGRICULTURE

11. **VETERINARY ANATOMY:** Osteology. Lectures illustrated with skeletons and anatomical preparations. Dissections. Five times a week. First term.
12. **MYOLOGY, SPLANCHNOLOGY.** Practical dissections and demonstrations on cadavers. Five times a week. Second term.
13. **ANGIOLOGY AND NEUROLOGY.** Lectures illustrated by drawings, in the dissecting room, and on anatomical models. Five times a week. Third term. Books recommended for reference and study: Strangeway's Veterinary Anatomy (new edition); Chauvau's Comparative Anatomy; McFay-dean.
14. **GENERAL PATHOLOGY AND MORBID ANATOMY.** Lectures four times a week. First term. Text-book: Green's Morbid Anatomy.
15. **THEORY AND PRACTICE OF VETERINARY MEDICINE.** Sporadic, non-infectious diseases. Four times a week. Second term.
16. **THEORY AND PRACTICE OF VETERINARY MEDICINE.** Four times a week. Third term.
17. **THEORY AND PRACTICE OF VETERINARY MEDICINE.** Four hours a week. First term.
18. **THEORY AND PRACTICE OF VETERINARY MEDICINE.** Infectious and contagious diseases. Four times a week. Second term. Text book: Friedberger and Froehner
19. **GENERAL THERAPUETICS.** Lectures. Five times a week. Third term.
20. **GENERAL SURGERY.** Lectures and demonstrations on the use of antiseptics in wound healing; suturing and bandaging; use of local and general anesthesia, etc. Five hours a week. First term.
21. **SURGICAL DISEASES'** Lectures; illustrated by practical demonstrations, by drawings, on clinical cases. Head and neck. Five hours a week. Second term.
22. **SURGICAL DISEASES.** Continuation of 21. Trunk and limbs. Five hours a week. Third term.
23. **SURGICAL DISEASES.** Continuation of 22. Five hours a week. First term.
24. **OPERATIVE SURGERY.** Practical operations on narcotized subjects. Three hours a week. Second term. Text books: Moeller; Liautard; Fleming.
25. **PRINCIPLES OF HORSESHOEING.** Lectures and demonstrations. Includes diseases of the foot and pathological shoeing. Four hours a week. First term. Text book: Dollar.
26. **MEAT INSPECTION.** Lectures and recitations. Text book: Peter's Meat Inspection.
27. **CANINE DISEASES.** Lectures and recitations. Three times a week. First term.

28. **CANINE DISEASES.** Continuation of 27. Three times a week. Second term. Text book: Mueller Glass.
29. **VETERINARY OBSTETRICS.** Lectures, recitations, and clinical practice. Three hours a week. Second term. Text books: Fleming; Dalrymple.
30. **OPHTHALMOLOGY.** Diseases of the Eye. Two hours a week. Third term.
31. **CLINIC IN THE VETERINARY HOSPITAL:** Stationary and Ambulatory. Daily at 10 to 12 m. Students of the second and third years are required to take part in the clinics. First, second and third terms.
32. **DISEASES OF THE COW:** Special Course for dairy students. Three times a week. Second term.
33. **VETERINARY MEDICINE FOR AGRICULTURAL STUDENTS.** Veterinary anatomy. Five times a week. First term.
34. **VETERINARY MEDICINE FOR AGRICULTURAL STUDENTS.** Contagious and non-infectious diseases. Five hours a week (one hour devoted to practical, clinical work). Second term.
35. **VETERINARY MEDICINE FOR AGRICULTURAL STUDENTS.** Contagious and non-infectious diseases. Five hours a week (one hour devoted to practical, clinical work). Second term.

ZOOLOGY AND ENTOMOLOGY

[BIOLOGICAL HALL, Rooms 3, 4, 7, 8, 9 and Third Floor]

Professor Osborn, Assistant Professor Hine, Mr. Landacre

COLLEGE OF AGRICULTURE

1. **INVERTEBRATE AND VERTEBRATE.** Three times a week. Invertebrate, first and second term; Vertebrate, third term. This course includes a general discussion of groups, dissection of types and an outline of classification. Especial attention is given to forms of economic importance either from their detrimental effects on crops, stock, etc., or from their utility in various industries or as domesticated species.
3. **ECONOMIC ENTOMOLOGY.** Insects of Forest, Orchard and Garden. Three times a week. Third term. A detailed study of injurious species intended particularly for students of Horticulture. The work includes field studies, collections, reports on observation, etc.
4. **ECONOMIC ENTOMOLOGY.** Twice a week, through the year. This Course must be preceded by Course 1. A systematic study of the group of insects with special reference to injurious and beneficial species. A foundation is laid for special study in Entomology. Preparation of collections, essays, life history studies and use of remedial measures along with laboratory studies on general anatomy and class recitations and lectures.
7. **SYSTEMATIC AND PRACTICAL ENTOMOLOGY.** Two lectures and one laboratory period a week. Third term. An elementary practical Course for students in the Short Course in Agriculture.
8. **PARASITES OF DOMESTIC ANIMALS.** A lecture course devoted to the principal parasitic animals affecting domestic animals intended especially to meet the needs of those who intend to give particular attention to stock raising. Once a week. First term.
9. **SPECIAL ENTOMOLOGY.** Studies of life-histories, collection and classification in selected groups. Field work and lectures. Four periods each week. Elective. Fall term.

10. **SPECIAL ENTOMOLOGY.** Studies of winter condition of Insects, Insecticides, Insecticide machinery, Methods of preparing insect illustrations, Greenhouse pests, etc. Four periods each week. Elective. Winter term.
11. **SPECIAL ENTOMOLOGY.** Investigations of selected groups or species. Lectures on Insects legislation, distribution, natural enemies, special methods of control, etc. Four periods each week. Elective. Spring term.
- Courses 9, 10 and 11 are intended as practical courses in entomological research adapted especially for those who wish to give special attention to this branch with reference to future work in Agriculture or Horticulture and to furnish a preparation for those who have in view work as entomological investigators in experiment stations or as teachers in agricultural schools. They may be taken as graduate courses if not elected earlier or continued as special lines of research during a graduate course embracing other special subjects.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

Courses 57, 58, 59, 60, 61, 62 must be preceded by 51 and 52, 53 and 54, 64 or Zool. 1, of College of Agriculture.

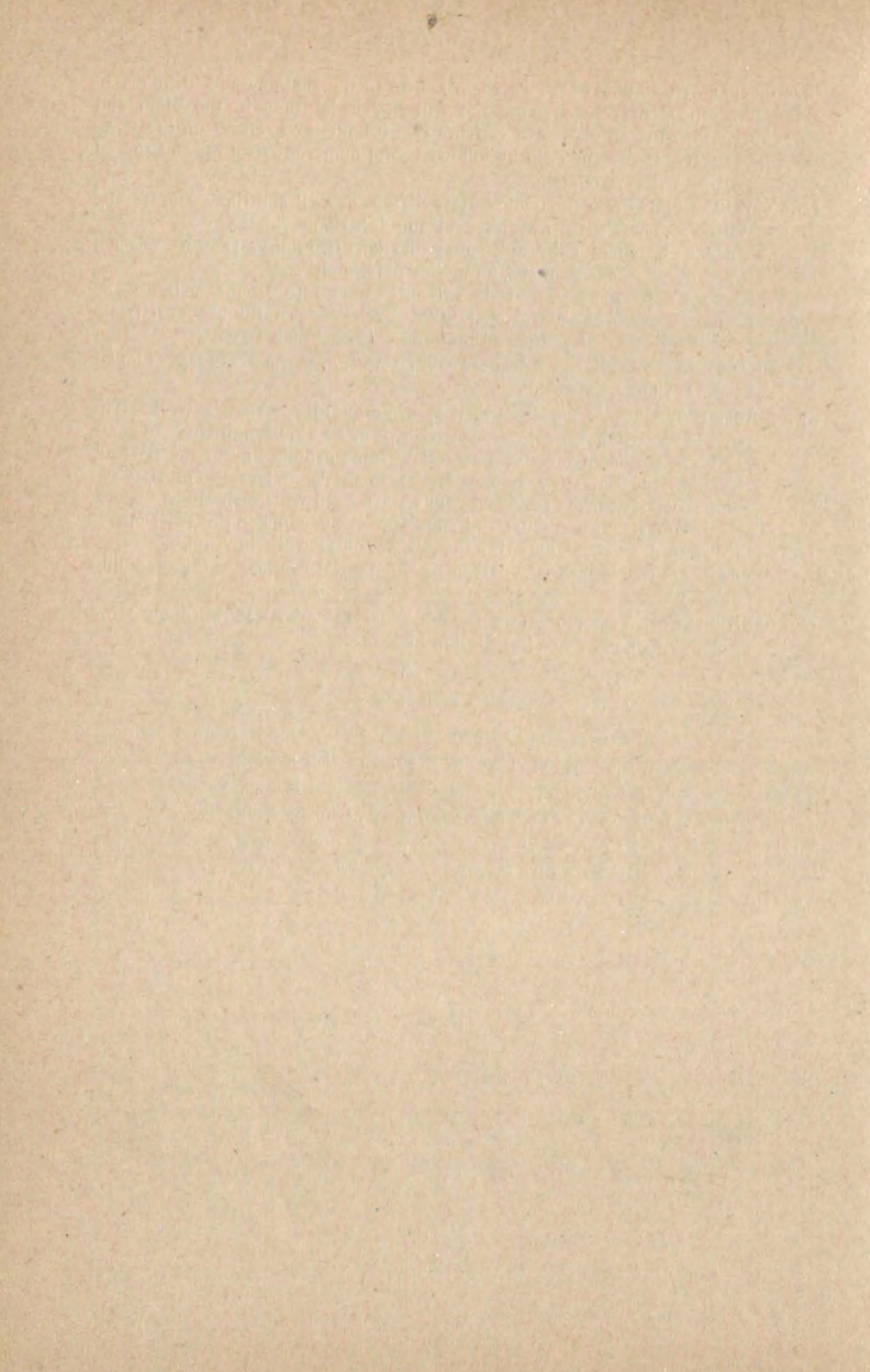
FIRST SEMESTER

41. **COMPARATIVE ZOOLOGY.** Two lectures and one laboratory period a week. This course includes studies of types of different groups, discussions of principles and an outline of classification. Thomson's "Outlines" used as a basis.
53. **COMPARATIVE ANATOMY OF VERTEBRATES.** A laboratory course. Two laboratory periods and one quiz each week; devoted to Osteology, Myology, Splanchnology, Neurology and a full study of certain type forms. Weidersheim's "Comparative Anatomy of Vertebrates" is followed as a basis.
55. **COMPARATIVE ANATOMY OF VERTEBRATES.** A laboratory course. Four laboratory periods and one quiz each week. Similar to 53, but more extended.
57. **ZOOLOGY AND ANATOMY.** Advanced laboratory. Three laboratory periods a week.
- On entering this course one may choose his work from any of the following lines:
- (a). **ANATOMY OF THE FROG.** The guides used are Ecker's "Anatomy of the Frog," and Huxley and Martin's "Practical Biology." Both the gross anatomy and the histology will be studied, the student himself preparing the tissues, as directed; as time may permit, comparisons will be made with other Amphibia.
- (b). **COMPARATIVE ANATOMY OF INVERTEBRATES.** The manuals used are: Shipley's "Invertebrate Zoology," Lang's "Text-book of Comparative Anatomy," McMurrich's "Invertebrate Morphology" and Parker and Haswell's "Text-book of Zoology."
- (c). **INVERTEBRATE EMBRYOLOGY.** Text-book, Translation of Korschelt and Heider's "Embryology of Invertebrates."
- (d). **VERTEBRATE EMBRYOLOGY.** The embryology of the chick or frog will be thoroughly studied as a basis; this will be followed by a study of the embryology of the fish, amphibian, and mammal. The course aims to give thorough drill in embryological and histological technique. The books used are Foster and Balfour's "Elements of Embryology," and the works of Hertwig, Minot, Balfour and Marshall.

- (e). **COMPARATIVE NEUROLOGY.** This is a course in the anatomy and histology of the central nervous system, and will include a study of the brain and spinal cord of all classes of vertebrates. Edinger's "Lectures on the Central Nervous System" will be followed, and numerous treatises and special papers used as a reference.
- (f). **CELLULAR BIOLOGY.** Text-books, Hertwig's "The Cell and the Tissues;" and Wilson's "The Cell in Development and Inheritance."
A student whose major lies in Zoology may take two full years' work selected from subjects named in the foregoing paragraph.
Zoological Seminar. The class will meet weekly to discuss methods and present reviews of current literature. Each student will be expected to present at least one major and one minor review each term.
59. **ZOOLOGY AND ANATOMY.** Advanced laboratory. Five times a week. Similar to 57, but more extended.
61. **ENTOMOLOGY.** An advanced Practical Course. Five periods a week. The courses are designed for those who wish to make a thorough study of some particular group of insects or to follow some definite line of the science, either morphological or systematic, or to fit themselves for professional entomological work. The work will be arranged with each student.
The collections, monographs, and apparatus at the command of the Department afford excellent opportunities for advanced work in Entomology. Students are required to take part in the Zoological Seminar of the preceding paragraph.
65. **ORNITHOLOGY.** Two laboratory periods a week. Advanced work on Morphology, Ecology and Classification of Birds.

SECOND SEMESTER

52. Continuation of Course 51. Lectures twice a week. One laboratory period.
54. Continuation of Course 53. Three laboratory periods a week.
56. Continuation of Course 55. Five laboratory periods a week.
58. Continuation of Course 57. Three laboratory periods a week.
60. Continuation of Course 59. Five laboratory periods a week.
62. Continuation of Course 61. Five laboratory periods a week.
66. Continuation of Course 65. Two periods a week.



ENROLLMENT

1899-1900

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE

GRADUATE STUDENTS—4

Derby, Florence, B. Ph.....	Columbus
Gilmore, William Henry, B. Sc. (Agr.).....	Millersport
Nichol, Gertrude, B. Ph.....	Columbus
Sheldon, Helen Griswold, A. B. (Vassar College).....	Shepard

UNDERGRADUATES—153.

	Course	Course Hours	Credit Hours	Home Address
*Abbott, George Franklin.....	Agr.	210½	56	Medina
Abbott, Carl B.....	Agr.	206	112	Medina
Adcock, James G.....	Agr. S.	98	...	Webb Summit
Armstrong, Edgar Manley.....	Dairying	...	...	Zanesville
Armstrong, Clara.....	Dom. Sci.	203	150	Columbus
*Arnold, Frank Washington.....	Agr.	210½	49½	Somerset
*Atherton, William Thomas.....	Agr.	210½	71	Carrollton
Baldwin, Ethel Florence.....	Dom. Sci.	202½	47	Columbus
Bauman, Christian William.....	Dairying.	...	...	Axtel
*Beale, Harry Glenn.....	Agr.	206	99	Mt. Sterling
*Beatty, Madge.....	Dom. Sci.	202½	41½	Columbus
Bencker, Robert Edgar.....	Agr.	210½	54½	Cincinnati
Boggs, Howard Shannon.....	Agr. S.	98	60½	Kingston
Bratton, Alice May.....	Dom. Sci.	203	144	Columbus
Breckenridge, William Kemper.....	Agr. S.	98	98+5	Watertown
Breese, Clarence Nye.....	Agr. S.	98	97+6	Lima
Bugby, Morris O.....	Agr.	210½	51½	Kingsville
*Bundy, Lyman Edmund.....	Special	...	47	Colerain
Byers, William Gerald.....	Agr. S.	98	48	Lilly Chapel
Cahill, Verrill W.....	Agr. S.	98	44	Tiro
Candy, Ella Belle.....	Special	...	24	Columbus
Carey, Nathan Harold.....	Dairying	...	...	Gurneyville
*Church, James Scott.....	Agr.	206	55½	Palmyra
Clark, Herman Alfred.....	H. & F.	206	96	Medina
Clark, Ollie Dwight.....	Agr. S.	98	48	Wheaton
Clawson, Lucy Blanche.....	Dom. Sci. S.	90	90+11½	Okeana
Coberly, Edward D.....	Agr. S.	98	50+2	Georgesville
Conradi, Albert Frederick.....	Agr.	206	98	New Bremen
*Cotton, Edwin Charles.....	H. & F.	206	115½	Elyria
Cotton, George Washington.....	Dairying	...	...	Elyria
Crabb, James Byel.....	Agr. S.	98	98+11	Mt. Sterling
Crawford, Mary B.....	Dom. Sci.	203	195+10	Blaine
Creamer, Jesse Carlton.....	Agr. S.	98	54	Jeffersonville
Dallas, John Thomas, B. Sc.....	(Agr.)	...	...	Pine Valley
Davis, Carrie Samantha.....	Special	...	...	Rio Grande
*Davis, Ella Augusta.....	Dom. Sci.	202½	52½	Constantia

* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Davis, Vernon Hayes, B. Sc.....	(Agr.)	...	...	Byesville
Day, Albert Edward.....	Agr. S.	98	89+29	Mt. Carmel
*Demorest, Herbert Russell.....	Agr.	206	91	Columbus
Dixon, Eva Nicholson.....	Dom. Sci.	203	122	Columbus
Dock, Norton	Agr. S.	98	59+2	Cincinnati
*Dresbach, Mary	Dom. Sci.	203	132	Columbus
Dunlap, Frederick	Special	...	19	Chillicothe
Dunn, Hattie Franklin.....	Special	...	29	Columbus
Everett, William Russell.....	Dairying	...	...	Gnadenhuetten
Ewart, John Weston.....	Dairying	...	...	Mogadore
*Ferguson, Ollie	Agr.	210½	33½	Steubenville
*Finlay, Annetta Jane.....	Dom. Sci.	203	104	Keene
Fippin, Elmer Otterbein, B. Sc.....	(Agr.)	...	...	Galloway
Fisher, Milo Eddison.....	Agr. S.	98	44	Chili
Flory, Charles Henry.....	H. & F.	206	73	Arcanum
*Foster, Emma Warwick.....	Dom. Sci. S.	90	68½	Higbys
Foster, John Cook, Jr.....	Agr. S.	98	61+1½	Higbys
Foster, Michael Leander.....	Dairying	...	...	Axtel
Frank, John Nicholas.....	Agr. S.	98	32+4	North Amherst.
*Galehouse, David William.....	Agr.	206	142	Doylestown
*Gibson, Herbert R.....	Agr. S.	98	34+48	Camp Chase
*Gladding, Maynard Marcus.....	Agr.	206	93	Windsor
Graber, Christian	Dairying	...	...	Burton
*Hamilton, Frank Edward.....	Agr.	206	93	Brownsville
Hanna, Charles Mitchell.....	Agr. S.	98	47	Tiro
*Hard, Jesse M.....	Agr.	210½	21	Olentangy
Harper, Merritt	Agr.	206	150	Grove City
Hatfield, Clifford Christian.....	Agr. S.	98	52	Lebanon
Hayden, Cassius Clay, B. Sc.....	(Agr.)	...	...	Oakdale
Heller, John	Dairying	...	...	Ona, W. Va.
Henderson, Harry Harold.....	Agr. S.	98	16	West Cairo
*Hess, Flora Louise.....	Dom. Sci.	203	65	North Columbus.
*Hill, Mamie Faye.....	Dom. Sci.	203	116	Columbus
*Holloway, Carrie	Dom. Sci.	203	50	Columbus
Holt, David C.....	Dairying	...	...	Galloway
Hoover, Clarence Boal.....	Agr.	210½	46½	Venice
*Hoover, Edna Brown.....	Dom. Sci.	202½	24	Columbus
Hunt, Jay Horatio.....	Dairying	...	...	Columbus
Hyatt, James Vernon.....	Agr. S.	98	44	Augusta
Immell, Woodford Elias.....	Agr. S.	98	29+3	Chillicothe
Innis, Byron Schofield.....	Agr. S.	98	51	Wagram
*Irwin, Arthur Milton.....	Agr.	210½	37½	Parkman
*James, Harold Francis.....	H. & F.	210½	32½	Pekin, China
Jennings, Otto Emery.....	Agr.	206	93	Olena
Jones, Lloyd	Agr. S.	98	98+7½	Columbus
Karrer, Carl	Agr. S.	98	5	Dublin
Kaylor, Rollie Washington.....	Dairying	...	...	Bellefontaine
*Kelley, William Lester.....	Agr.	206	85	Newark
Kinney, Charles C.....	Dairying	...	...	Yellow Springs
Klein, Edith May.....	Special	...	11	Columbus
Kynett, Albert Gardner.....	Dairying	...	...	Collier, W. Va.

* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Ladrach, John J.....	Dairying	...	...	Birmingham
Langdon, Elmer	Agr. S.	98	63+3	Sabina
Lanman, Faith Robinson.....	Dom. Sci.	202½	52½	Columbus
Lindley, Lulu	Dom. Sci.	202½	38	Fredericktown
*Linsley, Frank Preston.....	Agr.	210½	15½	Gallipolis
*Long, Frank C.....	Agr.	206	73	West Sonora
Mallow, Harry Campbell.....	Agr. S.	98	40	Washington C. H.
Marshall, Ida	Dom. Sci.	203	89	Hemlock
Mason, Arthur Devillo.....	Agr.	206	119	Wellington
Mears, William Holt.....	Agr. S.	98	48+3	Moscow
Meek, Eunice	Dom. Sci. S.	90	45	Afton
Meiche, Louis	Agr. S.	98	98+7	North Royalton
Mesloh, Harry Smith.....	Agr. S.	98	55	New Bremen
Miller, Merritt Finley, B. Sc.....	(Agr.)	...	...	Ridpath
Miller, Maynard Everett, B. Sc.....	Dairying	...	...	Dodgeville
Miner, Charles Austin.....	Agr. S.	98	98+16	Bristolville
Mooney, Charles Napoleon, B. Sc.....	(Agr.)	...	...	Milan
Murray, Edna Earl.....	Dom. Sci.	203	132	Columbus
*McAlister, Lee Paden.....	Agr.	210½	31	Thornville
McCall, Arthur Gillet, B. Sc.....	(Agr.)	...	...	McGraw
McClelland, Chester Arthur.....	Agr.	210½	48	Terrace Park
McKinley, Ira Esdras.....	Agr. S.	98	20	Vaughnsville
McMahon, Mary Gertrude.....	Dom. Sci. S.	90	80½	Columbus
*McOwen, James Jr.....	H. & F.	206	157	Ovid
*Neill, Nelson Prentice.....	Agr.	206	150	Venice
Nelson, Fred Burgess.....	Agr. S.	98	79	Coe Ridge
Nelson, Fred Walker.....	Agr. S.	98	52	Salem Center
Nelson, Homer Thrall.....	Agr. S.	98	...	Selma
Oliver, Charley Ray.....	Dairying	...	...	Portersville, Pa.
Orton, Louise Taft.....	Special	...	4	Columbus
Osborn, Alice	Dom. Sci. S.	90	90+43	Cadiz
*Osborn, Harry Lester.....	Agr.	210½	48	Chardon
Oswald, Rudolph	Dairying	...	...	Aurora
Perry, Elma Brooks.....	Dom. Sci.	203	176	Troy
Perry, John Cole.....	Agr.	206	165	Columbia Station
Peters, Frances Bush.....	Dom. Sci. S.	94½	44½	Columbus
Poindexter, Charles Cardoga.....	Agr.	210½	51½	Park'sb'g, W. Va.
Postle, Stuart A.....	Dairying	...	...	Camp Chase
Richards, Don Arthur.....	Dairying	...	...	Medina
*Riley, Valeria	Dom. Sci.	203	131	Washington C. H.
*Ruhlen, La Mott.....	Agr.	206	104½	Plain City
*Schaeffer, Freelan Wilbert.....	Agr.	206	188	Spanker
*Scott, Edith Clare.....	Dom. Sci.	202½	26	Mt. Pleasant
Senter, Pearl	Special	...	45	Shepard
Shaffer, Jesse	Dairying	...	...	Black Lick
Shaw, Edward Lee.....	Agr.	206	108	Newark
Shepard, Allen Day.....	Dairying	...	...	Conneaut
*Sigrist, John Larkum.....	Agr.	206	107½	Congress
*Skiles, Blanche Gertrude.....	Dom. Sci.	203	115	Shelby
*Smith, Wilford B.....	Agr.	210½	36	Chesterhill
Snyder, Addison Hogan	Agr.	206	158	Tacoma

* Preparatory work incomplete.

	Course		Credit Hours	Home Address
	Course	Hours		
Stahl, Price Ewing.....	Agr. S.	98	47+2½	Jewett
Steward, Charles Benjamin, B. Sc....	(Agr.)	...	...	Marcy
Stiers, Thomas Vernon.....	Agr. S.	98	26	Zaleski
Sumner, Mrs. R. M.....	Special	...	12	Columbus
Taylor, Frederick Wellington, B. Sc..	(Agr.)	...	...	Wooster
Thomas, Elmer Ellsworth.....	Dairying	...	...	Newark
Thompson, Jesse Eugene.....	Agr. S.	98	53	Bristolville
Trowbridge, Warner Wesley.....	Agr. S.	98	98+6	Painesville
Tyler, Fred J., B. Sc.....	(H. & F.)	...	...	Perry
*Walker, William.....	Agr.	210½	36	West Canaan
Wampler, Milton Eugene.....	Agr. S.	98	55+3	Dayton
Weisman, Laura Anna, B. Sc.....	(Dom.Sci.)	...	...	Columbus
Wheeler, Leroy Thomas.....	Agr. S.	98	58+6	Chillicothe
Williamson, Frances Glade.....	Dom.Sci.S.	94½	36	Columbus
Wolfe, La Verne Florence.....	Dom.Sci.S.	94½	45	Lucas

* Preparatory work incomplete.

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

GRADUATE STUDENTS—25

Allen, Lucy, B. A., 1897.....	Columbus
Barrows, Sarah Tracy, M. L.....	Columbus
Blakiston, Mary, B. Ph., 1893.....	Columbus
Bohn, William Edward, B. A. (German Wallace College).....	Olmsted Falls
Brown, Harold Warner, B. Sc. (Cornell University).....	Oberlin
Collett, Samuel William, M. Sc. (Moore's Hill College).....	Columbus
Converse, Edward Jasper, B. A., 1886, B. D. (Yale University).....	Columbus
Doney, Carl Gregg, B. Sc., 1891, LL. B., M. A.....	Delaware
Good, Paul Revere, B. A., 1899.....	Westerville
Gore, Herbert Charles, B. Sc. (University of Michigan).....	Chicago, Ill.
Hannum, William H., B. A., 1887.....	Columbus
Hirst, Anna Brewster, B. A. (Antioch College).....	Yellow Springs
Huddleson, Don Carlos, G. Ph., 1897.....	Columbus
Jeffrey, Maude Dorothy, B. Ph., 1895.....	Columbus
Kirby, Harriet Rebecca, B. A., 1898.....	Columbus
Maag, Benjamin (Wooster University).....	Mt. Eaton
Machwart, Washington J., B. S. (Muskingum College).....	Mt. Eaton
Mann, Wilbur Edwin, B. Ph., 1899.....	Columbus
Milligan, Mrs. Clara F., B. A., 1886.....	Columbus
Parker, John Bernard, B. A., 1898.....	Danville
Raymond, Maude, B. Ph., 1899.....	Columbus
Robinson, Zella Vina, B. Ph., 1898.....	Columbus
Rogers, Ellen Chapin, Ph. B. (University of Michigan).....	Grand Rapids
Williams, Herber Oswald, B. A., 1894.....	Columbus
Young, John Wesley, B. Ph., 1899.....	Columbus

UNDERGRADUATES—419

	Course	Course Hours	Credit Hours	Home Address
Abbott, Roy A., B. Ph.....				Columbus
*Adams, Elizabeth Jane.....	Arts	126	68	Columbus
*Adams, Margaret E.....	Arts	126	58	Columbus
*Adamson, James Manley.....	L. & J.	99	15	Dayton
*Aldrich, Wesley Richard.....	L. & J.	99	17	Columbus
*Althausen, Louis Girod.....	Arts	127	...	Kenton
*Alward, Benjamin Clyde.....	E. Ph.	129	12	Pataskala
Andress, Edna Alice, B. Ph.....				Birmingham
*Andrews, John Davis.....	Arts	127	9	Hamilton
Armstrong, Dan Hinkle.....	Special	...	33	Jackson
Ash, Ray Charles.....	Prep. Med.	100	54	Ashland
Baldwin, Mabel Dennison.....	Special	...	13½	Columbus
*Ball, Danforth Ewers.....	Science	135	111	Columbus
*Ball, Ernestine Faye.....	Arts	127	32	Columbus
*Ballard, Marion Imrie.....	L. & J.	99	...	Canton
Barcus, Eliza, B. A.....				Columbus
*Barnet, Clarence Elwood.....	Special	...	80	New Paris
*Bartram, Faith Alberta.....	L. & J.	99	22	Columbus
Bauman, Samuel.....	Special	...	31	Birmingham
Beck, Edwin Long.....	L. Ph.	126	92	Lithopolis
*Beebe, Carl Vorhees.....	L. & J.	99	3	Mt. Gilead
*Beer, James Anderson.....	Prep. Med.	100	61+20	Ashland
Beery, Harry Reber.....	Arts	127	24	Canal Winchester
Bell, Florence Louise, B. Ph.....				Columbus
Bell, Mary Edith.....	Special	...	11	Columbus
*Bellows, Gertrude Halm.....	E. Ph.	128	65	Columbus
*Bigelow, Bernard Barton.....	L. Ph.	127	30	Findlay
*Bigelow, Hosea Bradley.....	Arts	127	24	Columbus
Bittner, William Pitt.....	L. & J.	98	68+2	Sandusky
Bohn, Frank, B. Ph.....				Olmsted Falls
Bonnet, Alvin Cook.....	Arts	127	33	Columbus
Booth, Carl Howard.....	L. Ph.	127	25	Columbus
*Booth, Cora Vrooman.....	L. Ph.	126	52	Columbus
*Booth, George Hamilton.....	L. Ph.	127	4	Columbus
Bostwick, Homer Z., B. A.....				Columbus
Bostwick, Valeria.....	Arts	126	64	Columbus
*Bower, Alice Ethel.....	E. Ph.	129	...	Worthington
*Bowles, John Porter.....	L. & J.	98	65	Columbus
Bradford, Frances Elizabeth.....	E. Ph.	129	29	Columbus
*Braun, Bertha Elizabeth.....	M. L. Ph.	127	...	Columbus
*Bridge, Effie Irene.....	Arts	127	33	Columbus
Brooks, Stanley Grange.....	Science	133	70	Columbus
Brown, Alexander Lackey.....	Special	...	...	Catlettsburg, Ky.
Brown, Jessie L. P.....	Arts	126	60	Columbus
Brown, Winfred.....	Special	...	...	Moscow
*Bryant, William Cheney.....	L. Ph.	126	65	King's Creek
*Buck, Ralph William.....	Science	132	29	Cardington
*Bulen, Elwood Joseph.....	Com. & Ad.	131	5½	Columbus
Burgess, James Henry, B. Ph.....				Big Horn, Wv.

* Preparatory work incomplete.

	Course		Credit Hours	Home Address
	Course	Hours		
Burgess, Norman Almon.....	Prep. Med.	100	16½	Parkman
*Burkey, Charles Paul.....	Special	...	41+11	Pleasantville
*Burr, Mary	E. Ph.	129	29	Worthington
Butler, Blanche Woodruff.....	Arts	126	102	Wellsville
*Cannon, Anna Cathrine.....	L. & J.	98	86+11	Columbus
Carpenter, Jessie Marie.....	E. Ph.	128	66	Columbus
Carson, Nellie Eliza.....	L. Ph.	126	86	Harrisburg
Chamberlain, Robert M.....	Science	133	92	Columbus
*Chaney, James William.....	E. Ph.	128	77	Columbus
*Clagett, Arthur E.....	Science	135	66	Dayton
*Clapp, Katharine B.....	Special	...	64	Norwalk
*Clevenger, Charles Henry.....	Science	131	55+19	Fletcher
*Clevenger, Joseph Franklin.....	Science	131	57	Fletcher
*Coad, James Earl.....	L. Ph.	127	12	St. Lewisville
*Coates, Elmer William.....	Arts	127	25	Pomeroy
Cockerill, Orville Porter.....	Special	...	75	Washington C. H.
*Coe, Bertha L.....	Special	...	12	North Columbus
Cole, Fred	M. L. Ph.	127	18½	Zanesville
Colgan, Lillian Katharine.....	Special	...	71	Columbus
Collins, Walter Scott.....	Arts	126	95	Columbus
*Compton, Edward Cass.....	L. & J.	99	27+12	Coshocton
*Connolley, Augusta	L. Ph.	126	72	Columbus
Connor, Alice Marie, B. Ph.....	.....	.....	.....	Columbus
Connor, Ellen Josephine, B. Ph.....	.....	.....	.....	Columbus
*Connors, John Leo.....	L. & J.	99	14	Columbus
Cooke, Levi	Arts	127	20	Columbus
*Corkery, Thomas Jefferson.....	Arts	127	25	Toledo
Corner, Edith	L. Ph.	127	87	Columbus
Cottom, Frank W.....	Prep. Med.	100	59+6	Dayton
Courtright, Elizabeth Pauline.....	Arts	128	107	Columbus
Courtright, J. Loring, B. A.....	.....	.....	.....	Circleville
Courtright, Stella Van.....	L. Ph.	126	96	Columbus
Coy, William Stacey.....	Arts	127	30	Columbus
Craig, Francis Miron.....	Special	...	25	Clarion
*Cunningham, Charles Gilman.....	E. Ph.	128	103	Fostoria
*Davidson, Harold Glenn.....	L. & J.	99	20	Dayton
*Davidson, Ruth Emily.....	E. Ph.	129	23½	Chicago, Ill.
*Davis, William Edgar.....	Arts	128	64	Columbus
Dean, Wilbur Spencer.....	Special	...	97	Warsaw
*Dean, Ethel Sourbray.....	L. & J.	99	41	Columbus
*DeNune, Ethel	Arts	126	58	Columbus
Derby, Alice G.....	L. Ph.	126	101	Columbus
Dickinson, George Codwice.....	Arts	126	89	Columbus
*Diehl, William Ross.....	E. Ph.	129	...	Columbus
Dill, Augusta Dille, B. Ph.....	.....	.....	.....	Columbus
Dollison, Harvey Clinton, B. Sc.....	.....	.....	.....	Zanesville
*Dolson, Benjamin Reimmund.....	L. & J.	99	25	Lancaster
Donovan, Dennis Aloysius.....	E. Ph.	128	78	Columbus
Dow, Mary Edna.....	Special	...	...	Bellefontaine
Dowd, Charles Fuller, B. Ph.....	.....	.....	.....	Toledo
Dubois, Wilbur L., B. Sc.....	.....	.....	.....	Cincinnati

* Preparatory work incomplete.

	Course	Hours	Credit Hours	Home Address
Dufour, Alice	Special	...	93	Columbus
Durbin, Samuel Clyde.....	E. Ph.	128	100	McConnelssville
Dyer, Clarkson Werter.....	Arts	127	25	Plano
Eagleson, John Hervey, B. A.....	.....	.....	.....	Columbus
Eagleson, Joseph Pentecost, B. A.....	.....	.....	.....	Columbus
*Eastman, Katharine	L. Ph.	127	27	Columbus
Easton, Ernest Doane.....	B. Sc.	129	77	Springboro
*Ebright, Bessie	E. Ph.	129	17	Columbus
Edwards, Norma	Special	...	27	Columbus
Eisenbise, Bertha, B. Ph.....	.....	.....	.....	Columbus
Enderlin, Louis Charles.....	Special	...	.....	Allegheny, Pa.
Ewalt, Clara Converse.....	E. Ph.	130	100	Columbus
*Farrar, Morton	L. Ph.	127	...	London
*Ferenbaugh, Burchard Blaine.....	Arts	127	33	Buckeye City
*Fink, Henry Emil.....	L. & J.	99	30	New Bremen
Fisher, Ida May, B. Ph.....	.....	.....	.....	Columbus
Follett, Mary Pelton.....	L. Ph.	127	33	Columbus
Foster, Asa Emmanuel.....	Arts	126	58	New Salem
Fox, Ross Garfield, B. Ph.....	.....	.....	.....	Columbus
Frederick, Albert Augustus.....	Special	...	.....	Millersburg
French, Louis Vincent.....	E. Ph.	129	22	Jefferson
*Fullerton, Rutherford	L. & J.	99	33+3	Columbus
*Game, Francis Harvey.....	E. Ph.	128	60	Canal Winchester
Gamper, Hattie, B. Ph.....	.....	.....	.....	Columbus
Gardner, Blanche	Arts	127	...	Columbus
Garman, Susan Editha.....	E. Ph.	131	41	Dayton
Gauch, James Arlando.....	Arts	126	64	West Manchester
Gayman, Charles Welton, B. Ph.....	.....	.....	.....	Canal Winchester
Ginder, Floyd Edwin.....	Prep. Med.	100	25	Lancaster
*Godman, Leroy Hayes.....	L. & J.	98	57	Columbus
*Gordon, Earl Augustus.....	Prep. Med.	100	34	Junction City
*Gordon, Sarah Bryarly.....	Special	...	86	St. Mary's
*Gorham, Ira Garfield.....	Arts	126	44	Perrysville
*Graham, Reuben Jacob.....	E. Ph.	128	77	Northup
Greener, Gussie Howe.....	L. Ph.	126	102	Columbus
Griggs, Robert Fiske.....	Science	130	41	Columbus
Guittard, Claude B.....	M. L. Ph.	126	41	New Bedford
Haecker, Christofer Frederick.....	Special	...	31	Sandusky
Hagenbach, George Edwin.....	L. Ph.	127	25	Urbana
Hahn, George Philip.....	Com. & Ad.	131	33	Napoleon
Hambleton, Ethel Ada.....	L. Ph.	126	91	Columbus
*Hambleton, Charles Reverdy.....	E. Ph.	129	2½	Hooksburg
*Hammond, Harvey George.....	L. & J.	99	...	Millwood
*Harbine, Sarah Smith.....	E. Ph.	129	41	Xenia
*Hard, Ansel Shallcross.....	L. & J.	99	22½	Bowling Green
Hardy, Caroline Church.....	Special	...	48	Columbus
Harward, Arthur Byron, B. A.....	.....	.....	.....	Columbus
Hatcher, Wesley	Special	...	.....	Raymond
*Hauk, Will Comrie.....	Arts	126	101	South Charleston
Heitman, William L.....	Science	132	29	New Bremen
Henderson, Herbert B.....	Special	...	91	Laceyville

* Preparatory work incomplete.

	Course	Hours	Credit Hours	Home Address
Hensel, Donald Dean.....	Com. & Ad.	131	69	Eaton
Herrick, Sara Ethel.....	E. Ph.	128	83	Wellington
*Herrman, Bessie.....	E. Ph.	128	69	Worthington
Hertlein, Alice Kelley.....	Special	...	6½	Sandusky
*Hicks, Blanche.....	L. Ph.	129	27	Centerburg
Hicks, Nellie.....	Arts	128	99	Centerburg
*Hickey, Thomas Owen.....	Prep. Med.	100	...	Caylick
Hirsch, Rudolph.....	Science	133	91	Columbus
Hite, Bertha.....	Special	...	14	Columbus
Hoffmann, Hattie DeLong, B. Ph. ....	.....	.....	.....	Columbus
*Holcomb, Harry John.....	Arts	128	90	Columbus
*Hommon, Harry Britton.....	E. Ph.	129	17	Marble Cliff
Honline, Mose A.....	Special	...	50	Columbus
Hopkins, Bertha Marie.....	L. Ph.	126	64	Columbus
Hopkins, Clara M.....	L. Ph.	126	61	Columbus
Hopkins, Edith Estelle.....	L. Ph.	126	65	Columbus
Houghton, Henry Spencer.....	Special	...	99	Columbus
Howard, Anna Faye, B. Ph.....	.....	.....	.....	Columbus
*Hubbard, Desha Darling.....	L. Ph.	127	19	Columbus
Huddleson, Mabel Lee.....	Special	...	9	Columbus
Hudson, Clara Putnam.....	E. Ph.	128	58	Middleport
Huling, Frank.....	Arts	127	26½	Columbus
Humphrey, Stella Hale.....	Special	...	40½	Peninsula
Hungelmann, Arthur.....	Science	129	74	Columbus
*Hunt, Mary Fulton.....	L. Ph.	126	90	Columbus
Hunter, Anna Eliza.....	M. L. Ph.	126	66	Columbus
*Hunter, Joseph Symmes.....	Arts	126	87	Seven Mile
Hurst, Louise Kate.....	Special	...	17	Piketon
*Huston, Frank Arilda.....	M. L. Ph.	126	87	Columbus
*Jacoby, Benjamin.....	Science	130	33	Marion
*Jacoby, Ethelwyn.....	Arts	127	22	Columbus
Jacoby, Mrs. S. C.....	Special	...	17	Columbus
Jaynes, Allan Brown, B. Ph.....	.....	.....	.....	Columbus
Jeffrey, James Fred, B. Sc.....	.....	.....	.....	Columbus
Jefferey, John Ralston.....	Special	...	80	Huron
*Jennings, Elma.....	M. L. Ph.	126	65	Eaton
*Jones, Daniel C.....	E. Ph.	128	60	Jackson
*Jones, Gilbert Haren.....	Arts	127	27½	Columbus
*Jones, John William.....	E. Ph.	128	87	Jackson
Jones, Richard Thomas, B. Ph.....	.....	.....	.....	Columbus
Jones, Victor Waite.....	E. Ph.	128	88	Columbus
*Jordon, Homer Garfield.....	Arts	127	22½	Columbus
*Justice, Charles Lloyd.....	Arts	126	22	Leipsic
Karshner, George Melville, B. A.....	.....	.....	.....	Columbus
Kauffman, Margaret Glenn.....	M. L. Ph.	126	78	Columbus
Kauffman, Henrietta Christine.....	M. L. Ph.	126	92	Columbus
Keiser, Forest Le Grand.....	Science	130	22	Bryan
Kennedy, Herbert Welles.....	E. Ph.	128	...	Coe Ridge
Kerr, May Lizzie.....	E. Ph.	129	25	Rushville, Ill.
*Kimball, Mabel Fawn.....	E. Ph.	129	19½	Woodstock
Kinder, Gordon Donald, B. Ph.....	.....	.....	.....	Ottawa

* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
King, Bernice	Arts	126	48	Columbus
Kirk, George Barlow.....	Arts	126	82	Columbus
Klein, David, B. Ph.....	.....	.....	.....	Columbus
Knight, Caroline Estell, B. Ph.....	.....	.....	.....	Columbus
Knight, Margaret Amanda.....	Special	...	28	Columbus
Kohl, Clayton Charles.....	L. Ph.	126	90	Perryburg
*Kohr, Paul Homer.....	Arts	127	26½	Columbus
Lambert, Elza Jay.....	Special	...	33	Plantsville
Latimer, Thomas Erwin.....	L. & J.	99	25+3	Hilliards
*Lawrence, Osa Alonzo.....	M. L. Ph.	127	37	Oxford
*Leeper, Charles	E. Ph.	129	3	
*Lentz, Florence	M. L. Ph.	126	80	Marysville
Leonard, Hannah Margaret.....	L. Ph.	127	19	Columbus
†*Lincoln, Elsie	E. Ph.	129	17½	Woodstock
Lisle, Charles Howard, B. Ph.....	.....	.....	.....	Pataskala
Lisle, Thomas G.....	Com. & Ad.	131	22	Columbus
Long, Mila Myrtle.....	Special	...	2½	Columbus
Loren, Mary	Special	...	40	Columbus
*Loughrey, John Larison.....	L. & J.	99	15½	Marysville
Luse, Jessie Edna.....	E. Ph.	128	99	Columbus
Lyon, Maud Eliose.....	Special	...	29	Westfield, N. Y.
MacAdam, Lida Allison.....	Special	...	8	Worthington
Mack, Egbert Hiram.....	E. Ph.	129	30	Sandusky
Mark, Mary Louise.....	Arts	127	35	Columbus
Marriott, Robert Henry.....	Science	129	89	Richwood
*Martin, Franklin Ewing.....	L. Ph.	127	7	Columbus
Martin, William Kooken.....	L. Ph.	127	25	Lancaster
Martz, Velorus	Arts	126	103	Columbus
*Matthews, Max Moses.....	E. Ph.	129	49	Vinton
Mayfield, Victor Hugo.....	Special	...	3	Prospect
Meade, Caroline Annis.....	M. L. Ph.	126	78	Columbus
Merkle, Albert Edward.....	Prep. Med.	100	31	Chillicothe
*Merrick, Lawrence Hildreth.....	Arts	127	22½	Zanesville
*Miesse, Frank H.....	L. Ph.	127	49	Chillicothe
Miller, Albert Morris.....	Special	...	22	Columbus
*Miller, Charles Reed.....	E. Ph.	128	57	Bellville
Miller, Fred A.....	E. Ph.	128	104	Columbus
Miller, Gretchen Pauline, B. Ph.....	.....	.....	.....	Columbus
*Miller, Paul Scott.....	Science	130	24½	Marion
Mills, Donald P.....	Special	...	36	Norwalk
Mitchell, Lynn Boal.....	Arts	127	41	Piqua
Mitzenberg, Allena May.....	L. Ph.	126	94	Columbus
Mitzenberg, Fannie Katheryn.....	L. Ph.	127	33	Columbus
Mock, Marcia Inez.....	L. Ph.	126	102	Columbus
Malloy, Mary Aloysia.....	L. Ph.	127	25	Sandusky
Maloney, William Patrick.....	Special	...	72	Prospect
Moon, Clarence Victor, B. Ph.....	.....	.....	.....	Farmer's Station
Moore, Clarence L. E.....	Science	129	98	Washington C. H.
Moore, Edgar Howard, B. Sc.....	.....	.....	.....	Columbus
*Morgan, Roy	E. Ph.	128	70	Greenland
Morse, Max Withrow.....	Science	130	27	London

† Died March 13, 1900.

* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Morton, Max De Los.....	Special	...	33	Ashtabula
*Muirie, Frederick John.....	Arts	126	61	Youngstown
Mull, Ernest Clinton.....	L. & J.	99	30	Lebanon
Mumma, Marion W.....	Science	133	108	Dayton
McAllister, Earl Saddler.....	E. Ph.	128	86	Columbus
McAlpine, Maude A.....	Special	...	12	Columbus
McCallum, Raymond, B. Ph.....	.....	.....	.....	Dayton
McDonald, Joseph Sylvester.....	E. Ph.	128	98	Rendville
McDowell, James Keen.....	L. Ph.	127	41	Columbus
*McGugin, Elizabeth Winifred.....	Arts	127	45	Ohio Furnace
*McKinley, Mary Ann.....	L. Ph.	127	19½	Trinway
McKinney, Frank C.....	Arts	126	108	Columbus
McPherson, Clarence Githeus.....	Science	130	...	Xenia
*McQuigg, Charles Wesley.....	L. & J.	99	15+8	Pomeroy
*Nachtrieb, Clarence R.....	L. Ph.	127	22½	Wauseon
Nash, Simeon	Arts	126	103	Columbus
*Needles, Ada Ruckle.....	Science	129	38	Groveport
Neiswender, Lisle W.....	Prep. Med.	100	68+2	Grove City
Nichols, Ada May.....	M. L. Ph.	126	68	Chillicothe
*Nida, William Lewis.....	E. Ph.	128	92	Lincoln
Norris, John S.....	M. L. Ph.	126	80	Columbus
*O'Brien, Charles Francis.....	L. & J.	99	33	Urbana
*Orndorf, Earl Luther.....	E. Ph.	129	35	Wauseon
*Ortman, Earl Hill.....	L. Ph.	127	25	New Salem
Orton, Samuel Torrey.....	Science	133	83	Columbus
Osborn, Abner Andrews, B. Sc.....	.....	.....	.....	Columbus
Parmenter, William Watt, B. A.....	.....	.....	.....	Mt. Vernon
Parsons, George McLellan.....	L. Ph.	126	98	Columbus
Patterson, Bertha Gildersheve.....	Arts	126	105	Columbus
*Pavlicek, Frank J.....	L. Ph.	126	85	Toledo
*Peoples, Emmet W.....	Arts	126	21	Pomeroy
Pitts, Grace Lenore, B. Ph.....	.....	.....	.....	Columbus
*Plum, Harley Martin.....	Arts	126	67	Ashville
Plummer, Alice Greenwood.....	Special	...	17	Columbus
*Pocock, Lucy Hunt.....	E. Ph.	128	68	Columbus
Porter, George Henry.....	L. Ph.	126	98	New Philadelphia
*Postle, Carlton David.....	Prep. Med.	100	33+6	Alton
Postle, Carl Haldy.....	Com. & Ad.	131	17	Columbus
Potts, Beulah Josephine.....	Arts	127	29	Columbus
*Potts, Helen Georgiana.....	Special	...	32	Columbus
Powell, Blanche	Special	...	...	Mt. Cory
*Powell, Cornelia	Arts	127	60	Columbus
*Powell, Raymond Thompson.....	L. Ph.	127	6	Columbus
*Pratt, Edna Stuart.....	Arts	127	...	Columbus
Pulling, Margaret Glaze, B. Ph.....	.....	.....	.....	Columbus
Pumphrey, Josiah Merton.....	Prep. Med.	100	64	Martinsburg
*Rathburn, James Irwin.....	Prep. Med.	100	16	Gallipolis
*Raymond, Maybelle	E. Ph.	128	77	Columbus
*Raymond, Stockton	L. Ph.	127	22	Columbus
Redrow, Clara M.....	M. L. Ph.	126	50	Williamsburg
Redrow, Walter Leffingwell, B. Sc.....	.....	.....	.....	Williamsburg

* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Rees, Edith Celeste.....	Arts	126	104	Columbus
*Reese, David R.....	Arts	126	94	Shawnee
Reinhard, Frank J., Jr.....	E. Ph.	128	40	Columbus
Reütinger, Ernest Victor.....	Prep. Med.	100	62+8	Chillicothe
Rice, Mary Washington, B. A.....	.....	.....	.....	Columbus
Rickard, Alexander.....	Special	.....	5	Columbus
Rickey, Tallmadge Archer, B. Ph.....	.....	.....	.....	Columbus
*Ridenour, Walter Ashton.....	L. & J.	98	52+13	Jackson
*Robinson, John Fletcher.....	Prep. Med.	100	26+5	Columbus
*Rockey, Noble Warren.....	E. Ph.	129	21	Dayton
*Rodebaugh, Mabel Mary.....	M. L. Ph.	127	22	Marysville
Roebuck, Carl Fletcher, B. Ph.....	.....	.....	.....	Dalton
Roekel, Frederick Augustus.....	Prep. Med.	100	27	Zanesville
Roney, Mary Malvina.....	L. Ph.	126	103	Columbus
Ruebesh, Joseph Keiffer.....	Special	.....	31½	Dayton
*Rushton, Norman.....	Com. & Ad.	131	56	Selkirk, Ontario
*Sadler, Anna Belle.....	L. Ph.	126	74	Columbus
Salm, Edna Esther.....	L. Ph.	127	39	Columbus
Sayre, Charles Boyd, B. A.....	.....	.....	.....	Columbus
Schaff, Mae B., B. Ph.....	.....	.....	.....	Columbus
*Schantz, Albert J.....	Science	135	66	Dayton
Schilling, Emelia Jahana.....	Special	.....	10	Columbus
*Schneider, Earnest True.....	L. & J.	99	25½	Dayton
Schoedinger, Ferdinand P.....	Arts	126	74	Columbus
*Schönthal, Derso Clarence.....	E. Ph.	128	60	Columbus
Scott, Dudley, B. Ph.....	.....	.....	.....	Columbus
*Seymour, Edith Lillian.....	Arts	127	27	Columbus
Seymour, Raymond Jesse, B. Sc.....	.....	.....	.....	Columbus
*Schaeffer, Ray.....	Arts	127	19½	Coshocton
*Shaw, Harry R.....	E. Ph.	128	85	Zanesville
*Sherman, Richard Jay.....	Arts	127	35	Toledo
Shigley, Anna B.....	Special	.....	29	Jamestown
Simpson, Warner Pike.....	Prep. Med.	100	34	Worthington
Singleton, Charles T., B. Ph.....	.....	.....	.....	Columbus
Smith, Albertine Charleen, B. Ph..	.....	.....	.....	Columbus
*Smith, Harold Osborn.....	L. Ph.	126	64	Columbus
Smith, Lida May.....	Special	.....	1	Columbus
Smith, Ralph Harvey.....	Prep. Med.	100	19	Columbus
Smith, Stanley Robb.....	Special	.....	18	Columbus
Smith, Virginia Roletta, B. Ph....	.....	.....	.....	Columbus
*Snyder, Henry Williams.....	E. Ph.	129	24½	Ironton
Souder, Charles Granville.....	Science	130	5½	Logansport, Ind.
*Southwick, Myrtle Minerva.....	E. Ph.	129	16	Kendallville, Ind.
*Southworth, Ruth.....	E. Ph.	129	27	Columbus
Sperry, Wilmot, Jr.....	E. Ph.	128	91	Mt. Vernon
Sproat, Martha Evans.....	L. Ph.	127	37	Columbus
*Staley, Homer F.....	Arts	126	48	Columbus
Stephenson, Bertram Sheaver.....	L. Ph.	126	96	Jackson
*Stevenson, Ray David.....	Special	.....	62	Fostoria
*Steward, James Clarence.....	E. Ph.	129	29	Marcy
*Stewart, George Francis.....	L. & J.	99	9½	Coshocton

* Preparatory work incomplete.

	Course		Credit Hours	Home Address
	Course	Hours		
*Stewart, Gilbert H., Jr.....	L. & J.	98	47	Columbus
Stimson, George, B. A.....	.....	...	...	Columbus
*Stults, Newton Delano.....	E. Ph.	129	...	Fremont
Sullivan, Oscar M.....	Arts	126	72	Columbus
Swaney, Sara C.....	L. & J.	98	61+1	East Liverpool
*Swift, Samuel Ferguson.....	E. Ph.	128	47	Jackson
*Tarbill, John Wesley.....	Arts	126	114	Atlanta
*Tatje, Oral D.....	Prep. Med.	100	34	Columbus
Taylor, Bessie Battelle.....	L. Ph.	126	70	Columbus
*Taylor, Mary Hill.....	L. Ph.	127	33	Columbus
*Taylor, William Harry.....	E. Ph.	128	74	Columbus
Teter, Sumner.....	Science	129	63	Columbus
*Teter, Millicent.....	M. L. Ph.	127	12	Columbus
Thomas, Lawrence David, B. Ph.....	.....	...	...	Lancaster
Thomas, Robert Park.....	Special	...	...	Kennard
*Thompson, King Gibson.....	Special	...	74	Georgetown
*Thompson, Roy Washington.....	L. Ph.	127	27	Gallipolis
Tietjens, Otto.....	Com. & Ad.	131	...	Napoleon
Tilden, Samuel Jay.....	Special	...	28½	Garrettsville
*Tilton, Josephus Howard.....	E. Ph.	128	110	Jelloway
Timberman, Andrew.....	Special	...	...	Columbus
Tipton, Robert.....	Special	...	...	Milo
Trauger, Bertha Elizabeth.....	Special	...	6	Columbus
Trauger, Clara Salome.....	Special	...	7	Columbus
Travis, Fred L., B. A.....	.....	...	...	Pana, Ill.
Travis, John F., B. A.....	.....	...	...	Green Camp
Türcke, Therese.....	Special	...	12	Columbus
Turner, Bertha Louise.....	M. L. Ph.	126	33	Columbus
Turner, Lucile E.....	Special	...	...	Columbus
*Ulsamer, Fritz Martin.....	M. L. Ph.	127	5½	Gallipolis
*Veach, Esther Louise.....	E. Ph.	129	23½	Newark
Vinson, Albert E.....	Special	...	116	Dayton
Wagner, Charles John.....	Special	...	13	Belle Centre
Wallace, William Garvey.....	Special	...	...	Bellefontaine
Walsh, Frances Lyon.....	Arts	126	40	Columbus
Walters, Barton.....	Special	...	32	Circleville
Ward, Annette Persis.....	Special	...	26	Columbus
*Ward, Lila Lucile.....	L. Ph.	126	90	Reynoldsburg
*Warner, John Howell.....	Arts	127	25	W. Shelby, N. Y.
Waugh, Helen Grace.....	L. Ph.	129	16	Bowling Green
*Weaver, Mima Jacobs.....	E. Ph.	131	41	Dayton
Weber, Sophia Frances.....	Special	...	31	Columbus
Weick, Carrie Rosina.....	Science	129	104	Columbus
Weld, Harry Porter, B. Ph.....	.....	...	...	Marysville
*Weller, Charles Ralph.....	L. Ph.	127	...	Portsmouth
Welling, Faith Cornelia.....	Arts	126	94	Worthington
*Wells, Byron Bliss.....	Science	129	59	Ostrander
*Wells, Harry B.....	Arts	126	40	Columbus
West, Earle Downs, B. A.....	.....	...	...	Columbus
Whetsel, James Anderson Garfield....	Arts	127	30	Columbus
*Whitaker, William Earl.....	E. Ph.	128	99	Wauseon

* Preparatory work incomplete.

	Course	Coursé Hours	Credit Hours	Home Address
*White, Carroll Agnew.....	L. Ph.	126	45	Marysville
Whiteside, John Wesley.....	E. Ph.	128	93	Bloomingsburg
Wilkinson, John Anderson.....	L. Ph.	127	33	Piqua
*Williams, Anna Florence.....	E. Ph.	129	26	Jackson
Williams, Clara Maude, B. Ph.....	.....	.....	.....	Columbus
Wilson, Charles Robert.....	L. & J.	99	26	Circleville
*Wilson, Willard Aleck.....	Com.&Ad.	131	25	Columbus
Wing, Lucius Arthur.....	Science	130	35	Columbus
*Woods, William Burroughs.....	L. & J.	99	36+3	Garrettsville
Wright, Nellie.....	E. Ph.	128	80	Worthington
Yoder, Harvey Elmer.....	Special	...	11	North Industry
*Young, Claude Burnett.....	L. Ph.	127	27	West Rushville
*Young, Mary Grace, B. Ph.....	.....	.....	.....	Mt. Vernon

* Preparatory work incomplete.

COLLEGE OF ENGINEERING

GRADUATE STUDENTS — 11

	Course	Home Address
Edwards, Clarence J.....	Cer. S.....	Newberg, Ore.
B. S. Pacific College.		
Ford, Nile Otis.....	E. M.....	Wheeling, W.Va.
A. B. Washington and Jefferson.		
Grate, Charles A.....	M. E.....	Yale.
M. E. Ohio State University.		
Groves, John Wesley.....	E. M.....	Batavia.
C. E. Ohio State University.		
Hale, Frederick James.....	M. E.....	Mogadore.
M. E. Ohio State University.		
Ludlow, Stephen H.....	*Cer.....	Union City, Ind.
B. S. Albion College.		
McIntire, Alfred Heber.....	M. E.....	Mt. Vernon
E. E. Ohio State University.		
Schlochtermeyer, Carl Fred.....	E. E.....	Cincinnati
A. B. St. Xavier College.		
Somermeir, Edward Everett.....	E. M.....	Westwood
G. Ph. Ohio State University.		
Williams, Ira A.....	*Cer.....	Ames, Iowa
B. S. Iowa State College.		
Wynne, Francis Edmund.....	E. E.....	Bethany, W. Va.
B. A. and M. A. Bethany.		

* Pursuing a special course.

UNDERGRADUATES — 394

	Course	Course Hours	Credit Hours	Home Address
Albin, Carl	E. E.	219½	52	Columbus
Alford, Arthur Milton.....	M. E.	22	138+4	Windham
*Ames, Holiday	C. E.	209	34+3	Ashland
*Archer, Carl Hunter.....	E. E.	219½	...	Columbus
Armstrong, Hugh Cook.....	E. E.	219½	43½+3	Clintonville
Arndt, Mrs. Mary Korst.....	Special	...	2	Columbus
*Arnold, Charles H.....	M. E.	222	91	New London
Bahrke, Charles Frederick.....	I. A., S.	96	35	Columbus
Pailey, Ervin George.....	E. E.	218	92	Damascus
*Bailey, Edward Harding.....	†M. E.	...	66	Damascus
*Bailey, Purdy Sanford.....	C. E.	210½	29½+5	Warren
*Baker, Charles Carroll.....	E. E.	219½	...	St. Paris
*Balz, Ernest	C. E.	209	98	Columbus
*Balz, Louis Christian Fred.....	C. E.	209	98	Columbus
Barker, Russel David.....	M. E.	223½	43½	Brooklyn, N. Y.
Barlow, Moses Henry.....	C. E.	209	159	Columbus
*Barringer, John Martin.....	Chem.	202	136	Washingt'n, D.C.
Barringer, Lawrence Eugene.....	Cer.	211	170+5	Washingt'n, D.C.
*Barry, William John.....	C. E.	209	78	New Straitsville
*Battenfield, John Milton.....	E. E.	218	68½	Delaware
*Baughman, Norman	E. E.	219½	42	Roseville
Baumann, John Carl Bernhardt.....	†Min'g, S.	...	59+21	Gütersloh, Germ.
*Bauroth, Walter John.....	M. E.	222	83	Springfield
Beard, Frank Andrew.....	I. A.	222	38	Jacksontown
*Bedwell, Charles Francis.....	E. E.	218	46	Columbus
Benbow, James D.....	I. A., S.	96	47	Milo
Berndroth, Geary Martin.....	M. E.	223½	45	Geneva
*Berry, Charles Watson.....	E. E.	219½	19	Columbus
Besse, Thomas Samuel.....	E. E.	219½	...	Pataskala
*Bigelow, Clarence C.....	E. M.	208	103½	Findlay
Billingsley, Robert Wallace.....	M. E.	222	99	Lisbon
*Bleining, Albert Victor.....	†Chem.	...	126+31	Columbus
Boehme, Adolph Joe.....	M. E.	222	157+3	Youngstown
Bomesberger, Walter Nelson.....	E. E.	219½	45½+5	Columbiana
Boothman, Dale Maxwell.....	M. E.	223½	55½	Bryan
*Bostwick, Oliver Newton.....	C. E.	209	93	Mt. Sterling
Bott, George Robert.....	M. E.	222	156	Columbus
Bowden, Harry William, C. E.....				Minerva
*Boynton, Henry Percy.....	E. M.	209½	14½+1	Elyria
Bradshaw, Eugene Bingham.....	Special	...	...	East Liverpool
*Bramble, Bennett Glenn.....	Chem.	209½	...	Bellefontaine
Brannan, Thomas Hayes.....	C. E.	210½	42+3	Marysville
*Brashear, Edward Rosemond.....	C. E.	210½	54½	Columbus
*Bridinger, Leon A.....	E. M.	209½	22½	Tiffin
*Britton, William Miller.....	E. E.	219½	28+13	Columbus
Britton, Lloyd C.....	C. E.	209	88	Williamsburg
Brooks, Herbert Barton.....	E. E.	218	111+6	Piqua
Buchenberg, Alvin Ernest, M. E. in E. E.....	.....	...	...	Holgate

† Pursuing a special course.

* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Burch, Orrin	E. E.	218	63½	Columbus
Buydden, Wade Jennings, Jr.....	E. M.	209½	7	Dayton
*Cameron, James L.....	Arch.	217½	47½+2	Malvern
Cameron, Harry Ezra.....	C. E.	209	159	Lisbon
Cameron, Gaylor Malcomb.....	E. E.	219½	41	Jeromeville
Campbell, Willis Elmer.....	Chem.	208	92	Fostoria
Campbell, Rolo Wilbur.....	C. E.	209	53	Fostoria
Cannan, William	†Cer.	...	75	Plymouth
*Carmichael, Robert	M. E.	223½	29	Columbus
*Carr, William Brewster.....	E. E.	219½	...	Yellow Springs
Cartzdafner, Roy Edwin.....	M. E.	223½	53	London
*Caskey, George Alexander.....	M. E.	222	96	Columbus
Cavanaugh, Andrew Francis.....	M. E.	...	...	Dayton
*Cavin, Frank Thomas.....	E. E.	218	116	Spencer
*Chaffin, Wendel Wilson.....	C. E.	209	57+12	Dayton
*Chamberlain, John Ross.....	C. E.	209	56	Tiffin
Chandler, Homer Payne.....	E. E.	218	95+13	Columbus
*Chandler, William H.....	C. E.	210½	...	Bellefontaine
Chenoweth, Howard	†E. E.	...	56	Range
Childs, Harry Jesse.....	C. E.	210½	21½+6	Troy
Chubb, Joseph Horace.....	C. E.	210½	47	Columbus
Clarke, James Ulrick.....	E. E.	218	111	Lancaster
Colgan, Frank J.....	Cer., S.	90	30+52	Columbus
Conrad, Vern Louis.....	C. E.	209	104+6	Columbus
*Cook, Spencer Nye.....	E. M.	208	50½	Chillicothe
*Cooke, Royal Alstan.....	E. E.	219	132+10	Wyoming
Cooley, James Riddile.....	E. E.	219½	50½	Nelsonville
Cooper, Ralph McClelland.....	I. A., S.	96	15	Struthers
*Copland, James Samuel, Jr.....	†M. E.	...	7	Dresden
Cosley, Harvey Harter.....	C. E.	209	154	Troy
Crabill, Pearl P.....	†M. E.	...	86	Springfield
Crable, Arthur	C. E.	209	180+5	Columbus
Crable, George	E. M.	208	107	Columbus
Creed, Frank Roy.....	Mining, S.	91	27	Struthers
Cridland, Harry Clifford.....	E. E.	219½	55½	Dayton
Crooks, Thomas Elliott.....	E. E.	219½	55½	Van Wert
Cryder, Howard Michael.....	Arch.	215	69	Chillicothe
Cryder, Ross Warner.....	E. E.	219½	35½	London
Damon, Owen H., C. E.....	.....	...	...	Hinckley
*Dann, Walter M.....	E. E.	218	112	Columbus
Darraha, John Francy.....	E. E.	219	31½+2	Toronto
Davison, Holmes Bergen.....	Cer., S.	90	...	South River, N.J.
*Day, Stanley Frank.....	E. E.	219½	9½	Columbus
*Denmead, Edward Graham.....	M. E.	223½	32+3	Columbus
*Denny, Charles Wampler.....	E. E.	219	136	Middletown
DeWolf, Roger Dennison.....	E. E.	219	164+2	Madison, Ga.
Dick, Owen Quinton.....	I. A., S.	96	33+4	Marshall
Dickenson, Morris L.....	†I. A.	...	...	Columbus
*Diehl, Joseph A.....	C. E.	209	81+8	Defiance
*Dierdorff, Percy Cyrus.....	M. E.	222	70	Columbus
Dill, Raymond	E. E.	219	162+3	Columbus

† Pursuing a special course.
* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
*Doty, Charles Wilgerson.....	E. M.	209½	11+5	Hanging Rock
Drummond, William George, M. E. ....	.....	.....	.....	Cleveland
Dunlop, Robert Rowse, M. E. in E. E. ....	.....	.....	.....	Columbus
*Dupuy, Benjamin Francis.....	C. E.	210½	52½+8	Ironton
*Ecker, Harrison Grant.....	E. E.	218	53½	Columbus
*Edgerly, Raymond John.....	C. E.	210½	39½+6	Pataskala
*Elliott, Emmett Foster.....	Arch.	215	103	Chester Hill
Elsner, Richard E.....	C. E.	209	61+4	Newark
Emswiler, John Edwin.....	E. E.	219½	54½	Morgan Center
Erdmann, William.....	I. A.	201	191+10	Chillicothe
Escobar, Raphael.....	†Min'g. S.	...	22	Puerto Principe,
*Espy, Frank.....	†E. E.	...	104	Kenton [Cuba
Euchenhofer, Albert John.....	E. E.	219½	39	Dayton
Evans, Charles Hopkins.....	Mining, S.	91	45	Evanston
*Evans, William Ruthrauff.....	M. E.	223½	...	Salem, Va.
*Eysenbach, Louis, Jr.....	Ceramics	214½	51½	Delphos
*Faulkner, Eldridge Rhodes.....	E. M.	209½	9½	Tippecanoe City
Faulkner, Samuel Starrett.....	E. E.	219½	...	Troy
*Fay, Sherman.....	M. E.	223½	55½	Wyoming
Fickes, Walter M., E. M. in Ceramics..	.....	.....	.....	Steubenville
Fleming, Joseph Hamilton.....	C. E.	209	99+24	Olentangy
Follett, George Alfred.....	C. E.	209	83+17	Columbus
Foster, George C.....	E. M.	208	107+2	Schooley
Foster, Vause.....	E. M.	209½	51½	Higby
*Fox, Lewis.....	C. E.	210½	26½+6	Payne
Frame, Rollo St. Clair.....	C. E.	209	159	Washington
Frankenberg, George T.....	M. E.	222	109	Columbus
Frechtling, Arthur George.....	M. E.	222	166+4	Hamilton
Freer, Will Davis.....	Cer.	211	49+4	Cortland
*Friedland, Francis William.....	M. E.	222	64½	Coalton
Frost, George Winfield, M. E.....	.....	.....	.....	Columbus
Fulton, James Stewart.....	M. E.	223½	55½	Steubenville
*Funk, Leo William.....	M. E.	223½	41½+5	Chester Hill
Gates, Ellis Day.....	Cer., S.	90	45+25	Hinsdale, Ill.
Geren, Arthur G.....	Mining, S.	91	33+10	Columbus
Gilchrist, Edward Luce.....	E. E.	218	76	Ashtabula
*Gleichauf, Frank S.....	Arch.	215	103	Newark
*Goodell, Frank Herbert.....	Chem.	211	93	Columbus
*Gould, William Stewart.....	M. E.	223½	50½	Wyoming
*Gray, Thomas M.....	M. E.	223½	30	Pittsburg, Pa.
Green, Homer Stewart.....	E. E.	218	122	Raymond
Grindel, Charles Stanton.....	E. E.	219½	39½	Jacksontown
Hager, LeRoy William.....	C. E.	209	132	Piqua
*Hall, Robert Gilbert.....	E. M.	209½	21	Dayton
Halsema, Eusebius J.....	C. E.	210½	52+4	New Bremen
Halverstadt, Herbert.....	Cer.	214½	34½	Columbiana
Hamilton, Ross Elroy.....	C. E.	210½	52	Keene
Hammond, John Miller.....	C. E.	209	104+2	Columbus
Hance, Harry Thomas.....	Chem.	202	156	Columbus
Hapgood, Eugene Palmer.....	Chem.	202	118	Sabina
Hardy, Paul.....	E. M.	208	87½+5	Columbus

† Pursuing a special course.

* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Harkins, Robert Rusk, M. E.	.....	.....	.....	Columbus
Harmar, Frederick Sturgis	Mining, S.	91	20	Columbus
Harrop, Carl B.	E. M.	208	107	Columbus
Harvey, Clarke Kenerly	C. E.	210½	53+3	Brownsville
*Hatton, Frederic George	Arch.	217½	11	Columbus
Hayman, Will Clayton, M. E. in E. E.	.....	.....	.....	Holgate
Hayes, Charles Bradford	E. E.	219½	55½	Hilliards
Hedges, Benson Rice	M. E.	222	107	Columbus
Helvey, George Stanley	M. E.	223½	53	Hamilton
*Herrick, Hobert C.	Chem.	209½	19	Wellington
*Hershey, Herbert Clover	I. A.	222	4	Columbus
Hill, Harry Earl	C. E.	210½	100	Richwood
Hill, Cortland Latimer	C. E.	209	47	Berlin Heights
Hirst, Harry	E. M.	208	93	Midvale
Hitch, James Frank	C. E.	209	104	Batavia
Holbrook, George Frederic	E. M.	208	97	Bucyrus
*Holloway, Thurman Welferd	E. E.	219½	42½	Zanesville
Horn, Charles Curtis	E. E.	219½	...	Pipesville
Hoster, Herman A.	M. E.	222	43½+6	Columbus
*Howard, Oscar David	Arch.	212	100+40	Circleville
*Huddleson, Frank	†E. M.	...	129	Columbus
Hulbert, William Rowsell	M. E.	222	79½+3	New York, N. Y.
Hull, Walter Austin	Cer.	211	107+8	Orangeville
Hummel, Edmund Ray	E. E.	219½	2	Carroll
*Hunter, James Williamson	C. E.	210½	54½+5	Zanesville
Hunter, Madone Carrington, M. E. in E. E.	.....	.....	.....	Norwich
*Hylton, Gratwoods Walter	†M. E.	...	60	Springfield
Jackson, Charles Edwin	Cer. S.	90	45+3	Wheeling, W. Va.
Jackson, Elmer Collins	C. E.	210½	4½	Columbus
*James, Frank Richard	E. M.	208	82	Columbus
Johnson, Earl S., M. E. in E. E.	.....	.....	.....	Plants
Johnson, Walter A.	M. E.	222	109	Columbus
*Johnston, Edward G.	M. E.	223½	23+3	Bangor, Mich.
Jones, Howard Martin	E. E.	218	113	Marysville
*Jones, James Albert	C. E.	210½	38	New Straitsville
Judson, Walter Raymond	E. E.	219½	55½	Dayton
Kanmacher, Samuel Houston, M. E. in E. E.	.....	.....	.....	Columbus
*Keating, Harvey Thomas	Chem.	208	100	Columbus
Keim, Herbert Edward	C. E.	210½	37½+2	Cleveland
Keller, Daniel Casteel	E. E.	218	54	Washington C. H.
Keller, William	E. E.	219½	20½	Washington C. H.
Kennedy, William McCreery	Cer. S.	90	10	New Brighton,
Kern, William Frederick	Chem.	208	107	Bellaire [Pa.
Kettering, Charles Franklin	E. E.	218	54	Loudonville
Kettler, Frank Christian	E. E.	209	155	New Bremen
*Kidder, Leonard	C. E.	210½	...	Woodstock
*Killinger, Claud H.	C. E.	210½	7	Toledo
*Kimmel, Fred Bernham	E. E.	219½	46½+3	Van Wert
King, Francis Emmet	Mining, S.	91	89+10	Leisenring, Pa.

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* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
King, Herbert Sumner.....	C. E.	209	181+9	Medina
*Kinnear, Harry Baldwin.....	Chem.	208	88	Mt. Sterling
*Kinnison, Ernest Eugene.....	C. E.	209	99	Jackson
Kirker, Gaylord B.....	Mining, S.	91	88+19	Catlettsburg, Ky.
Kittle, James Monroe.....	M. E.	223½	66½	Columbus
Klie, Walter	M. E.	223½	48	Columbus
Knieling, Charles August.....	E. E.	218	103+2	Willoughby
*Knies, Daniel	E. E.	218	71½	Columbus
Knight, William Abner, M. E.....	.....	.....	.....	Columbus
*Knoderer, Homer Guy.....	E. E.	218	112	Columbus
Knox, Frank S., E. M.....	.....	.....	.....	Columbus
Krumm, Thomas Zettler.....	C. E.	209	83	Columbus
Kunkle, Fred Raymond.....	E. E.	218	79+14	Bryan
*Laiblin, Garfield	M. E.	222	80	Canton
Lamb, Whitney Earl, M. E. in E. E..	.....	.....	.....	Commercial Point
*Lampert, John Martin.....	M. E.	222	96	Xenia
*Lanning, Adrian Roy.....	C. E.	209	17	Dennison
Lee, Corlis Edgar, M. E. in E. E.....	.....	.....	.....	Pugh Postoffice
*Leinbaugh, George Gurden.....	M. E.	220	160+3	Bellevue
*Lesh, John Howard.....	M. E.	220	146	Louisville
*Lied, Ernst Mitchell.....	E. E.	218	72	Columbus
Linville, Clarence Philander, B. Sc. in Chemistry .....	.....	.....	.....	Urbana
Linxweiler, Otto	M. E.	223½	43½	Dayton
Lloyd, Donald K.....	Mining, S.	91	5	Columbus
Lockwood, Howard Thomas.....	C. E.	209	92	Batavia
Loewensohn, David	C. E.	210½	42½	Urbana
Long, George Garfield.....	E. M.	209½	54½	Tipppecanoe City
*Luse, Herbert James.....	M. E.	223½	12	Columbus
Lyon, Arthur Hollingshead, M. E.....	.....	.....	.....	Wauseon
*Marckworth, Otto Stanley.....	†Chem.	...	168	Cincinnati
Marietta, Harry Riefsnyder.....	E. E.	218	100+3	Dayton
Mariott, John Minges.....	Arch.	215	82½	Delaware
*Marshall, Charles Howard.....	M. E.	223½	41	Fair Haven
Marshall, Willard Beverly, M. E. in E. E .....	.....	.....	.....	Piqua
Martin, John D., Jr.....	M. E.	222	174+19	New Straitsville
Marting, Samuel Arthur.....	†Chem.	...	7	Portsmouth
Mason, John T.....	†Chem.	...	25	Columbus
Maxwell, Howard McGee.....	E. E.	219½	10½	Columbus
*Melick, Cyrus Alan.....	C. E.	210½	54½	Columbus
Melick, Neil Albert, C. E.....	.....	.....	.....	Columbus
Mercer, Robert Wood.....	E. M.	209½	51½	Chester Hill
*Miller, Albert Sanford.....	E. M.	209½	20½	Tiffin
Miller, Charles Emmitt.....	Arch.	212	150+5	Spencer
*Miller, Ralph Charles.....	C. E.	209	138+11	Zanesville
*Minor, Wells Hammond.....	E. M.	209½	54½	Akron
Moist, Harvey Clinton.....	E. E.	219½	...	Kinsey
Monserrat, Charles R.....	M. E.	223½	31	Columbus
Mooney, George Lewis.....	E. E.	219½	55½	Woodsfield
*Mooney, William Joseph.....	C. E.	210½	11½+3	Cleveland

† Pursuing a special course.

* Preparatory work incomplete.

	Course	Hours	Credit Hours	Home Address
*Morlan, Wilbert	†M. E.	...	91+7	Rogers
Morris, Robert Hamilton.....	E. M.	209½	135+20	Columbus
Morris, Samuel	E. E.	219½	12½	Bloomingsburg
Morris, Willard Bernard.....	M. E.	222	91	Columbus
*Morris, William Blaine.....	M. E.	222	109	Massillon
Morrison, Franklin Houston.....	Cer. S.	90	45+10	Denver, Col.
*Murphy, Joseph Lincoln.....	C. E.	210½	49½	McArthur
Myers, Albert B., E. M.....	.....	.....	.....	Columbus
Myers, Fred	C. E.	210½	44½	Louisville
McComb, Hoyts Sherman.....	E. E.	219½	41	Columbus
*McEowen, Hugh Elsworth.....	C. E.	210½	17+9	Greenville
*McFarland, Horace M.....	E. M.	208	97	Columbus
McIntosh, Roscoe Everitt.....	E. E.	219	158+5	Ravenna
McKeon, Robert Dale.....	C. E.	209	99	Arcanum
*McKinlay, William Shields.....	E. E.	218	7	Denver, Col.
*McMullin, Roy	E. E.	219½	24	Columbus
*McOwen, Thomas	C. E.	210½	47+34	Ovid
*McWhinney, Harry Ozias.....	E. E.	219½	18½+15	Lewisburg
*Nauss, Ralph Welty.....	Chem.	202	153	Greenville
Needham, Harry Smithson, M. E.....	.....	.....	.....	Columbus
Nicholson, Charles Marion, M. E. in E. E. ....	.....	.....	.....	Columbus
*Nidy, Herbert C.....	E. E.	219	162+2	Greentown
Nobles, Edwin Earl.....	†C. E.	...	24	Flint, Mich.
Nold, John H., E. M.....	.....	.....	.....	Columbiana
*Nye, Ralph D.....	E. E.	219½	52	Zanesville
Ogden, Ellsworth	M. E.	223½	64½	Columbus
*Ohliger, Clyde C.....	C. E.	210½	14	Wellsville
Osborn, Liphe Andrews.....	M. E.	223½	47	Columbus
O'Shaughnessy, Joseph	I. A., S.	...	96	Columbus
*Panter, Thomas Alfred.....	E. E.	218	104	Niagara Falls,
*Parkin, William Z.....	M. E.	222	77	Columbus [N. Y.]
Parrett, Benjamin Creamer.....	Chem.	208	91	Washington C. H.
Patton, William Arthur.....	M. E.	223½	9½	Circleville
Peck, Alfred Steven.....	Mining, S.	91	53	Cleveland
*Perks, George Wheldon.....	M. E.	222	85	Springfield
Peterson, John William.....	Arch.	217½	54½	Port Clinton
Pleukharp, Erwin Hiram.....	I. A., S.	91	42	Columbus
Pope, Mrs. Edna L.....	Special	...	2	Columbus
*Post, Malcolm Phelps.....	Cer.	211	83+10	St. Louis, Mo.
Poto, Frank B.....	Chem.	202	167	Alliance
Potts, Royal Warren.....	†C. E.	...	29	Columbus
Pratt, Fred Kellogg, C. E.....	.....	.....	.....	New Philadelphia
Price, Fred Raymond.....	E. E.	219½	34½	Columbus
Reed, Nathaniel Garfield.....	M. E.	223½	55½	Youngstown
Reel, Walter C.....	C. E.	210½	9½+3	Columbus
Rennard, John Hiram.....	Mining, S.	91	44+1	Wheeling, W. Va.
*Riebel, Leroy Clemens.....	Arch.	217½	37½	Columbus
Rightmire, Robert Elwood.....	M. E.	222	120+6	Wheelersburg
Ritchie, George Alexander.....	C. E.	210½	38½	Hudson
Robinson, Robert Thane.....	E. E.	219½	17½	Bryan

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* Preparatory work incomplete.

	Course	Course Hours	Credit Hours	Home Address
Rogers, Rutherford Hayes.....	E. E.	218	46+5	Columbus
*Romick, Howard Samuel.....	M. E.	223½	...	Hilliards
*Ross, Calvin Burt.....	E. E.	219½	55½	Urbana
† *Ross, Edward McKinstry.....	M. E.	223½	24½	Jerseyville, Ill
*Roth, George Lewis.....	E. E.	219½	16	Port Clinton
*Roudebush, Howard John.....	E. E.	219½	26	Owensville
*Rupert, Jesse Solomon.....	E. E.	219½	7	New Waterford
*Ryland, Paul Dillen.....	C. E.	209	189+2	Columbus
Sanderson, Clarence Herbert.....	E. E.	218	94	Logan
*Sanderson, Ray Rochester.....	E. M.	208	70+6	Washington C. H.
Sayers, Delbert Bancroft.....	E. M.	208	105+9	Marits
*Schlafly, Raydeon Karl.....	C. E.	210½	69½	Mt. Eaton
Schoenlaub, Thomas Jacob.....	C. E.	209	77	Marion
*Schott, Alvin Christian.....	Chem.	208	56	Massillon
Schreiber, George Ernest, M. E. in E.E. .....	.....	.....	.....	Ironton
Schubert, Charles Wesley.....	C. E.	210½	54½	Columbus
Schwab, Frank Wilbert.....	Chem.	208	94	New Philadelphiha
*Scott, Cyrus Ellison.....	E. M.	209½	39½+9	Columbus
Scott, James Blaine.....	E. E.	219½	10½	Batavia
Senter, Herbert Pike.....	C. E.	209	104	Columbus
Sessions, Elizabeth.....	Special	.....	.....	Columbus
Sharp, John McDowell.....	C. E.	210½	36½+2	Columbus
*Shaw, Lucian.....	C. E.	209	72+3	West Lafayette
Shepherd, Charles William, C. E. .....	.....	.....	.....	Huron
Sherman, John K.....	C. E.	209	154	Columbus
*Sherwood, Frank Porter.....	†E. E.	...	128	Ashtabula
Shumate, Frank Douglass.....	M. E.	222	94+2	Urbana
Siddall, John William.....	Mining, S.	91	45	Streator, Ill.
*Sigrist, Charles Ferdinand.....	C. E.	210½	42½+10	Congress
*Simpson, Henry Jerome.....	C. E.	209	58+3	Worthington
*Singer, Lewis Parmlee.....	E. E.	219½	16½	Lewisburg
*Sinks, George Theodore.....	M. E.	223½	20	Youngstown
Smith, Harry Ford.....	M. E.	222	109	Lexington
Smith, Roy Brooke.....	M. E.	223½	56½+2	Columbus
Sosman, Robert Browning.....	Chem.	209½	56½	Chillicothe
Sowers, Emory Blose.....	I. A.	222	52	Westville
Spangler, Thomas McClellan.....	†C. E.	...	23	Pleasantville
Sproat, Amasa Delano.....	E. M.	208	107+8	Chillicothe
Stanton, Frederic Moses.....	Chem.	209½	21+15	Ridgeville
Starbuck, John Clancy.....	I. A., S.	96	16	Somerton
*Sterling, James Gilman.....	M. E.	222	101	Springfield
*Stocker, James Arthur.....	C. E.	209	104	Gnadenhutten
Stone, Thomas Wade.....	M. E.	222	100½	New Bremen
Stout, Wilber.....	Cer., S.	90	40+15	Sciotoville
Strong, Harry Miller.....	†Min'g, S.	...	39	Wilkesville
Strong, Jonathan Edgar.....	M. E.	223½	16½	Columbus
*Stull, Raymond Thomas.....	Cer.	211	101	Elkland, Pa.
*Talbot, Edgar Carl.....	E. E.	219½	...	Columbus
*Tanner, Edward Wood.....	M. E.	222	104	Zanesville
Taylor, William Oliver.....	E. E.	219½	55½	Urbana

† Pursuing a special course.

* Preparatory work incomplete.

† Died August 13, 1860.

	Course	Course Hours	Credit Hours	Home Address
*Templin, John Richard.....	E. E.	219½	42½	Salem
Thomas, Alfred Redman.....	Mining, S.	91	87	Glouster
*Thomas, Edward	Chem.	209½	37½	Navarre
*Thornton, Nyman	M. E.	223½	47½	Wyoming
Trish, George	Mining, S.	91	88	Nevada
Tubbs, Alfred Stowe.....	Mining, S.	91	38	Tubbsville
*Tudor, Glenn E.....	C. E.	210½	42½+3	Chicago
Tyler, John Sherrerd.....	M. E.	223½	42+12	Dayton
Van Dyke, Clifford Steel.....	E. E.	219	160	Ansonia
*Van Schoyck, Ray.....	M. E.	223½	...	Hilliards
*Van Tine, Charles Hovey.....	M. E.	223½	62	Tiffin
Vosskuehler, Joseph Henry.....	M. E.	...	...	Dayton
*Waddell, Starling	E. E.	218	55	Columbus
*Walker, Walter Hamilton.....	E. E.	219½	2	West Canaan
*Walsh, George E.....	M. E.	223½	13	Columbus
*Ward, Samuel Edwin.....	M. E.	223½	56	Green Spring
*Ward, Vernon C., Jr.....	M. E.	222	72	Columbus
*Warnock, David Ross.....	E. E.	219½	4½	Urbana
*Webber, Frank Merrill.....	E. E.	219½	32	West Richfield
Weber, Frederick Clarence.....	Chem.	202	138	Evanston
*Weidman, Charles Albert.....	E. E.	219½	21	Navarre
*Weiss, William Winfred.....	C. E.	210½	33½	Canal Dover
Wellbaum, Arvy E.....	M. E.	222	109	Brookville
*Wells, Ralph P.....	M. E.	223½	14½	Lisbon
*Whetsel, Emerson Jay.....	C. E.	209	82+5	Jackson
*White, Frederick Lewis.....	M. E.	223½	...	Gambier
Wiel, Arthur Bernard.....	Special	...	17	Cleveland
Wilcox, Carl Clifford.....	M. E.	223½	47	Columbus
*Wildermuth, Troy Dreslan.....	M. E.	223½	2	Columbus
Williams, Harry Ernest.....	M. E.	222	109	Harlem
*Williams, Howard Insko.....	C. E.	209	39+4	Dayton
Williamson, Homer Davison.....	Chem.	202	179	Monroe
*Wilson, James Sommerville.....	M. E.	222	162+22	Columbus
Winger, Stanley DuBoise.....	M. E.	222	92½	Springfield
Wittich, Manuel	Cer., S.	90	20+5	Mt. Sterling
Wolf, Richard Ludwig.....	Cer., S.	90	45+17	Detroit, Mich.
Wright, John	Cer., S.	90	20	Antrim, Pa.
Wright, Lawrence Robert.....	E. E.	219½	30½+18	Gambier.
Wright, Otis H.....	E. E.	219½	47½	Worthington
*Wyer, Samuel S.....	M. E.	223½	48½	Barberton
Yost, Benjamin Franklin.....	†Min'g, S.	...	...	Columbus
Yost, Lloyd	M. E.	222	103	Somersset
Youmans, W. Raymond.....	E. E.	219½	53½	Pataskala
Zbinden, Hermann Christian.....	C. E.	210½	130+6	Toledo
*Zeller, Ralph	E. M.	209½	66½	Ottawa
Zwerner, Fred George.....	E. E.	219½	54+6	Columbus

† Pursuing a special course.

* Preparatory work incomplete.

COLLEGE OF LAW

UNDERGRADUATES — 201

	Year	Home Address
Addison, Arthur Everet.....	Third	Columbus
Addison, Clarence Maywood.....	Third	Columbus
Alvord, Justus Elvin.....	Second	Bryan
Amos, Frank Craig.....	Second	Sidney
Anderson, Ralph.....	First	Dennison
Armstrong, Russel Livingston.....	Third	Celina
Arnold, Harry Crumley.....	Second	Columbus
Ashman, Frank.....	Second	Coshocton
Baggott, Roland Webb.....	Third	Dayton
Bamer, Merton Leonard.....	Second	Grand Rapids
Barnet, Clarence Elwood.....	First	New Paris
Beatty, Robert Jay.....	Second	Cardington
Bechtol, John M.....	First	Fayette
Beetham, Rupert Rennison.....	Third	Cadiz
Benedict, Charles Yeddo.....	Third	Mansfield
Berry, Edmond Franklin.....	Second	Celina
Bininger, James Wolfgang.....	Third	Lancaster
Bock, Theodore E.....	Second	Hamilton
Bolton, Thomas Bennett.....	First	Cleveland
Bostwick, Homer Z.....	First	Columbus
Bowden, Harry W.....	Special	Minerva
Bowers, Walton S.....	Second	Hamilton
Branum, Frank C.....	First	Bridgeport
Bright, Frederick Ijams.....	Third	Logan
Brown, Albert Marion.....	First	Wauseon
Brown, James Earl.....	Second	De Graff
Burgess, James Henry.....	Second	Big Horn, Wy.
Burkey, Charles Paul.....	First	Pleasantville
Byers, William E.....	Third	Loudonville
Calderwood, Charles Barton.....	Second	Columbus
Calkins, Frank Elwood.....	Third	Grand Rapids
Calvin, Anthony B.....	Third	Youngstown
Carey, John T.....	Second	Upper Sandusky
Cary, Charles Ross.....	Third	Millersburg
Clark, Lawrence Hayes.....	First	Cumberland
Clark, William Whittier.....	First	Canton
Clum, Harry Ernest.....	Second	Thornville
Cockerill, Orville Porter.....	First	Washington C. H.
Courtright, Thurman Thomas.....	Third	Greencastle
Crawford, William Harry.....	Third	Massillon
Croll, Alfred Jacobs.....	Third	Tontogany
Crout, Ray Durand.....	First	Columbus
Cullen, William Barnes.....	First	Hamilton
Curran, Bernard Franklin.....	Second	Corning
Damon, Owen H.....	Special	Hinckley
Darby, Roscoe Bryant.....	Third	Wauseon
Dawson, Nathan Charles.....	Second	Columbus
Determan, Hugo Philip.....	First	Columbus
De Witt, Claude Bennett.....	Third	Sandusky

	Year	Home Address
Donley, Russell Lee.....	Third	West Bedford
Doud, Harry L.....	Second	Norwalk
Downing, Earl Summerville.....	Second	Middleport
Du Bois, Aaron Smock.....	Third	Franklin
Duff, Alfred L.....	Second	Port Clinton
Dunlap, Carl Reed.....	Second	Columbus
Eagleson, Joseph Pentecost.....	First	Columbus
Euans, William Weldon.....	First	Columbus
Evans, Thomas Daniel.....	First	Newark
Feibel, Louis.....	Second	Hillsboro
Fippin, Elmer Otterbein.....	First	Galloway
Frankenberg, Don Juan.....	Second	Tempe, Arizona
Foster, George Gruel.....	First	Columbus
Friedlich, Alfred.....	Third	Troy
Galloway, Arthur Clyde.....	Second	Columbus
Gardner, Howard Julius.....	First	Kent
Graven, D. Homer.....	Third	Nashville
Haberer, Harry Andrew.....	Second	Dayton
Hahn, Howard Edward.....	Third	Coshocton
Hammond, Frank Nathan.....	Second	Smithfield
Hammond, Frederic Mathas.....	Second	Smithfield
Hancock, Winfield Scott.....	Third	Marietta
Harper, Ellahue Ansile.....	Third	Columbus
Harris, Claudius Earl.....	First	Martinsville
Hershey, Harry Hartman.....	Third	East Greenville
Hertlein, John F.....	Third	Sandusky
Hite, William A.....	First	Thornville
Hornbeck, Ross Garfield.....	First	London
Houss, Eugene Augustus.....	First	Wapakoneta
Howells, George A.....	Third	Massillon
Hummell, Edwin Ray.....	First	Carroll
Jacobs, Horace K.....	Third	Waynesville
Jahn, Nan.....	Third	Columbus
Johnson, Charles Foster.....	First	New Albany
Jones, Abbe Linhart.....	Second	South Zanesville
Jones, David Thomas.....	First	Youngstown
Jones, Hanby Raymond.....	Second	Westerville
Jones, Victor Waite.....	First	Columbus
Judge, James.....	First	Columbus
Keating, David Thatcher.....	First	Columbus
Keith, Donald Roscoe.....	First	Spencerville
Kellison, Edward Lafayette.....	Third	Quincy
Kennard, Oron Ellsworth.....	First	Chester Hill
Kinzel, Harry Gilbert.....	Second	Eagleport
Kistler, Charles Edward.....	First	Carroll
Kistler, Jonathan Aaron.....	First	Carroll
Lane, Quinton R.....	Third	Canal Winchester
Lash, Henry Lloyd.....	Second	Bolivar
Laybourne, Lawrence E.....	First	Springfield
Layne, Andrew J.....	Second	Ironton
Leonard, Ralph Sherman.....	First	Granville
Lloyd, Erastus Guy.....	Second	Westerville
Long, Albert Taylor.....	First	West Carrollton

	Year	Home Address
Loup, Thomas M.....	Third	Steubenville
Lynch, John Woods.....	Second	Greenville
Mallow, Lewis Earl.....	Second	Washington C. H.
Marquis, Fred Samuel.....	Third	Mansfield
Mattison, George C.....	Second	Wauseon
Meier, William Henry.....	Third	Mt. Carmel
Melick, Neal A.....	Special	Columbus
Minshall, Thaddeus Ellis.....	Second	Chillicothe
Minshall, William Edwin.....	Third	Coshocton
Moore, Henry Curtis.....	Third	Bainbridge
Morgan, Lewis W.....	Third	Gibsonburg
Morris, Ingle Alman.....	Third	Columbus
Murphy, Frank Hayes.....	Second	New Comerstown
McCleary, Clayton Asa.....	Third	Science Hill
McClure, Robert Edward.....	Third	Dayton
McCray, Thomas Yates.....	Third	Mansfield
McCulloch, Roscoe Conkling.....	First	Millersburg
McGarry, James F.....	First	East Liverpool
Nesbitt, David M.....	First	Bellaire
Nevin, Lurton K.....	First	Dayton
Nicholas, Edward Mithoff.....	First	Columbus
Nicholas, William Renfrew.....	Second	Columbus
Nicola, Benjamin Di.....	Third	Barnhill
Norpell, Ralph.....	Second	Newark
Peck, Foreman Jacob.....	Third	Clarksburg
Pence, William D.....	Second	Columbus
Plagman, Lester W.....	First	Fremont
Folk, Winfred Whittington.....	Third	New Vienna
Poole, Loren Winfield.....	First	De Graff
Pratt, Fred Kellogg.....	Special	New Philadelphia
Price, Jonathan A.....	Second	Chili
Ramsey, Russell Kenney.....	Second	Columbus
Ranney, Jesse Fred.....	First	Columbus
Reed, Bert.....	Second	Piqua
Rightmire, George Washington.....	Second	Wheelersburg
Roebuck, Carl Fletcher.....	First	Dalton
Royon, Joseph Charles.....	First	Houston
Ryland, Paul Dillen.....	Special	Columbus
Sackett, Carl Leroy.....	Second	Big Horn City,
Sampson, John Henry.....	First	Columbus [Wy.
Scarlett, Henry Launcelot.....	First	Columbus
Schantz, Edwin Michael.....	First	Zimmerman
Schoedinger, Frederick H.....	First	Columbus
Schwenck, William Jennings.....	Third	Kenton
Shaw, John William.....	Second	Troy
Sheetenhelm, Curtis Cicero.....	First	Columbus
Sheetz, George W.....	First	New Washington
Shepherd, Charles William.....	Special	Huron
Shepherd, George Harvey.....	Second	Dayton
Shoemaker, William Allen.....	First	Zanesville
Shotwell, Franklin Albert.....	First	Marengo
Sigrist, Charles Ferdinand.....	Special	Congress
Skiles, Roscoe Carleton.....	Second	Shelby

	Year	Home Address
Smith, Wellington Cornell.....	Second	Lytle
Snow, Mason J.....	First	Columbus
Southworth, Ferdinand Leek.....	Third	Alliance
Sparks, Homer H.....	First	Columbus
Sprague, William Ralph.....	Second	Columbus
Springer, Nevada Weston.....	First	Columbus
Spurrier, Emery Allen.....	First	Chester Hill
Steinemann, George Charles.....	First	Minster
Sterrett, Frank Marion.....	First	Troy
Stevenson, Amos Claude.....	Third	Fostoria
Stewart, Gabrielle Townshend.....	Third	Cleveland
Stoolfire, Henri Stanton.....	Third	Columbus
Strader, Maynard.....	First	Zuber
Tangemann, Theodore H.....	Second	Kettersville
Tanner, John Robert.....	Third	Mt. Sterling
Taylor, Everett Buren.....	First	New Albany
Taylor, Frank Stewart.....	First	Alliance
Terwilliger, Meeker.....	Second	Circleville
Thomas, Herbert Spencer.....	First	Wheeling, W.Va.
Tipton, Robert.....	First	Milo
Toland, Harford Aquilla.....	Third	Columbus
Turner, Edward C.....	Second	Columbus
Veneman, Nevin Edward.....	First	Dayton
Voegele, William Frederick, Jr.....	Third	Mansfield
Wakefield, George W.....	Second	Reynoldsburg
Walker, Mary Ray.....	First	Dayton
Warden, Hosea Gilford.....	Second	Columbus
Wertz, Edward Sleser.....	Third	Dalton
West, Frederick Rollin.....	Second	Columbus
Westwater, James Gulick.....	First	Columbus
Wharton, Homer Franklin.....	Second	Washington
Wheeler, Newberry William, Jr.....	Second	Portland
Williams, John William.....	Second	Roseville
Williams, Lloyd Thomas.....	Third	Jackson
Williamson, Allen Thurman.....	Second	Grandview
Wilmot, Charles Austin.....	Third	Claridon
Wilson, Frank.....	Third	Jolly
Wilson, Lewis Ernest.....	First	Columbus
Wise, Charles Clifton.....	First	Millersburg
Wolf, Edward Christofer.....	First	Circleville
Woods, Charles Howard.....	Third	Chillicothe
Worcester, Wood Frank.....	First	Columbus
Worman, Horace Dye.....	Second	Dayton
Wulff, August R.....	Second	Dayton
Yockey, Paul B.....	Third	Columbus
Young, Samuel N.....	Third	Lima

COLLEGE OF PHARMACY

UNDERGRADUATES — 39

	Course	Course Hours	Credit Hours	Home Address
*Ashinger, William E.....	Long	208½	...	Uphur
Barrick, Alfred Ashberry.....	Special	...	144	Columbus
Block, Arthur William.....	Short	112	49	Galion
Bodman, Edgar Sereno.....	Long	208½	49½	Bement, Ill.
*Bowen, Charles Flood.....	Long	206	171+24	Columbus
Briggs, Claude Nicholas.....	Short	112	...	Briggsville
Canfield, Delos Wilford.....	Short	112	105+26	Chardon
Cassady, Clyde Brint.....	Short	112	69	Alliance
Crosson, Stanley Berry.....	Short	112	40	Blanchester
Day, Levi Wille.....	Short	112	...	Mt. Oreb
*Funk, Roy William.....	Long	206	137+12	Chesterhill
Gardner, Charles Alfred.....	Short	112	107	Danville
Haudenschild, Harry J.....	Short	112	43+6	Loudonville
Harvey, Lucy Manola.....	Short	112	107+60	Pomeroy
Hollingsworth, Clyde Evans.....	Short	112	37	Mt. Gilead
Hoover, Walter Emmett.....	Short	112	67	Ashville
Horst, Herman Henry.....	Short	112	28	Marysville
Hurst, Grace.....	Short	112	...	Piketon
*Keller, Charles Franklin.....	Short	112	38	Arcanum
Kerr, Franklin Pierce, Jr.....	Special	...	110+19	Columbus
Kimberly, Charles Hubbell, B. Sc.....	.....	.....	.....	N. Fairfield
Knowlton, Fred A.....	Short	112	57	Granville
Krebs, Otto.....	Short	112	48	Cleveland
Lefferson, Charles Henry.....	Short	112	36+10	Middleton
Morris, Harry Long.....	Special	...	161	Springfield
*Naddy, Charles Joseph.....	Long	206	114	Columbus
Oglesby, Nicholas Perkins.....	Short	112	102+6	Lucretia, Va.
Phillips, James McIlvaine.....	Special	...	3	Columbus
Pope, Harry Bentley.....	Short	112	53	E. Liverpool
Roush, Katherine Layzelle.....	Short	112	10	Syracuse
Sherman, James Garfield.....	Short	112	38+12	Columbus
Snyder, Roy Bernard.....	Short	112	43	London
Squire, Clarence W.....	Short	112	73	Ashville
Stoelzel, Julius Frederick.....	Short	112	15	Loudonville
Tracy, John Baptist.....	Short	112	68	Circleville
Wagstaff, Harry Garfield.....	Special	...	112	Niles
Ware, George H.....	Short	112	20	Dayton
Webb, Edward Nathan.....	Long	206	113	Rome
Young, Cyrus Homer.....	Long	206	118	Wooster

* Preparatory work incomplete.

COLLEGE OF VETERINARY MEDICINE

GRADUATE STUDENTS—5

	Home Address
Clawson, Clarence Alfred, B. Sc. (Agr.).....	Okena
Hanawalt, David Christopher, V. S. (Ontario).....	Greenfield
Hart, Arthur Clark, V. S. (Ontario).....	West Richfield
Imes, Marion, B. Sc. (Agr.).....	Bashan
Murray, Frank Erskine, D. V. M.....	Greenfield

UNDERGRADUATES—17

	Course Hours	Credit Hours	Home Address
*Auer, Curtiss	172	18	Lewisville
Brown, Harry Wilbur.....	172	54	Columbus
Eddy, William D. V. M.....	...	...	East Cleveland
*Forrester, Harry Arthur.....	172	54	Reynoldsburg
*Griffin, Frank	177	165	Columbus
Hammond, Harry James, D. V. M.....	...	...	Sharon
*Henderson, Charles Logan.....	172	54	Crescent
*Irwin, Albert N.....	177	112	Columbus
*Johnson, Theodore Charlemagne.....	177	106	Akron
*Lamb, Morgan Baxter.....	172	34	Barlow
*Metzger, Edward Louis.....	177	108	Louisville
Morrow, Charles James, D. V. M.....	...	...	Tiro
*McClelland, Robert Lyle.....	172	66	Andover
*Pettiford, Oscar Collins.....	172	54	Wauseon
*Sater, Clinton Huron.....	172	54	Sater
*Severn, Warren	172	54	Cuba, N. Y.
Worcester, Warner	Special	...	186 Columbus

* Preparatory work incomplete.

GENERAL SUMMARY

COLLEGE OF AGRICULTURE AND DOMESTIC SCIENCE—		
Graduate Students	4	
Undergraduates	153	
	—	157
COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE—		
Graduate Students	25	
Undergraduates	419	
	—	444
COLLEGE OF ENGINEERING—		
Graduate Students	11	
Undergraduates	394	
	—	405
COLLEGE OF LAW—		201
COLLEGE OF PHARMACY—		39
COLLEGE OF VETERINARY MEDICINE—		
Graduate Students	5	
Undergraduates	17	
	—	22
Total		1,286
Names counted twice.....		16
Net total		1,252

SUMMARY BY COUNTIES

Adams	1	Guernsey	4	Morrow	6
Allen	5	Hamilton	13	Muskingum	18
Ashland	9	Hancock	3	Ottawa	3
Ashtabula	11	Hardin	3	Paulding	1
Athens	3	Harrison	5	Perry	13
Auglaize	10	Henry	5	Pickaway	14
Belmont	9	Highland	4	Pike	2
Brown	2	Hocking	3	Portage	8
Butler	14	Holmes	5	Preble	10
Carroll	3	Huron	9	Putnam	4
Champaign	14	Jackson	11	Richland	10
Clark	10	Jefferson	9	Ross	24
Clermont	12	Knox	17	Sandusky	4
Clinton	8	Lake	3	Scioto	6
Columbiana	16	Lawrence	6	Seneca	10
Coshocton	13	Licking	22	Shelby	3
Crawford	5	Logan	10	Stark	22
Cuyahoga	15	Lorain	8	Summit	9
Darke	6	Lucas	6	Trumbull	6
Defiance	1	Madison	17	Tuscarawas	12
Delaware	6	Mahoning	9	Union	12
Erie	16	Marion	6	Vinton	3
Fairfield	20	Medina	9	Van Wert	2
Fayette	14	Meigs	11	Warren	7
*Franklin	423	Mercer	2	Washington	5
Fulton	9	Miami	16	Wayne	11
Gallia	8	Monroe	2	Williams	5
Geauga	6	Montgomery	39	Wood	7
Greene	9	Morgan	11	Wyandot	2

SUMMARY BY STATES AND COUNTRIES

(As far as known)

Alabama	1	Iowa	1	Ontario	1
Colorado	2	Kentucky	2	Oregon	1
Cuba	1	Michigan	5	Pennsylvania	6
Georgia	1	Missouri	1	Virginia	3
Germany	1	New Jersey	1	Washington, D. C.	2
Illinois	9	New York	6	West Virginia	7
Indiana	2	Ohio	1197	Wyoming	2

^a Nearly forty-two per cent. of the students registered from Franklin county are those whose homes are at Columbus only during their University course.

GRADUATES

GRADUATES

The faculty of the Ohio State University are anxious to place a copy of each annual catalogue in the hands of every graduate. They will esteem it a favor of any alumnus who changes his residence will notify the Executive office of his new address and occupation. They will also be grateful for any information from any source, that may assist in making or keeping the Directory of the Alumni complete and correct.

ALUMNI ASSOCIATION

OFFICERS FOR 1900-1901

MRS. ANNIE W. SIEBERT, '84, Columbus.....	<i>President</i>
FRANK RAY, '87, Columbus.....	<i>Vice-President</i>
LOWRY, F. SATER, '95, Columbus.....	<i>Secretary</i>
MIRON A. SMITH, '92, Columbus.....	<i>Treasurer</i>
G. GLEN ATKINS, '88, Greenfield, Mass.....	<i>Orator</i>

COMMITTEE ON COLLEGE AFFAIRS

FLORIZEL SMITH, '80, Columbus.....	Term expires	1901
MRS. HARRY I. ABBOTT, '93, Columbus.....	"	1902
LORING HAPGOOD GODDARD, '92, Manora, Ohio.....	"	1903
KARL T. WEBER, '97, Columbus.....	"	1904
BERTHOLD A. EISENLOHR, '98, Corning.....	"	1905

COMMITTEE ON NECROLOGY

LOWRY F. SATER, '95, Columbus.....	Term expires	1901
DAISY M. SCOTT, '87, Columbus.....	"	1902
EDWARD J. CONVERSE, '86, Columbus.....	"	1903

DIRECTORY

A

- Abbott, Arthur Grant, 1899, B. Sc. (Agr.), Medina.
Abbott, Royal A., 1900, B. Ph., Columbus.
Ackerman, Eli Osborn, 1884, C. E., 2664 North High street, Columbus, Columbus Street Railway Co.
Ackerman, Fremont, 1883, C. E., Los Angeles, Cal., civil engineer.
Addison, Arthur Everett, 1895, B. Ph., 1900, LL. B., Columbus, teacher East High School.
Addison, Louis Granville, 1892, LL. B., Columbus, attorney-at-law.
Addison, Clarence Maywood, 1896, B. Ph., 1900, LL. B., Columbus, teacher Central High School.
Agler, Eulalia, 1895, G. Ph., Columbus, with Columbus Pharmacal Company.
Albert, Louisa Mary, 1895, B. A. (Ohio Wesleyan University), 1896, G. Ph., Mrs. A. E. Vinson, Columbus.
Aldrich, Chester H., 1888, B. A., LL. B., David City, Neb., attorney-at-law.
Aldrich, Edgar S., 1897, M. E. in EE., Proprietor and Manager Electric Light Plant, Waynetown, Ohio.
Alexander, St. Clair, 1893, M. E. in EE., Bridgeport.
Alexander, Charles P., 1896, M. E. in EE., Canton, O., District Manager Northwestern Mutual Life Insurance Company.
Allaman, William Ernest, 1896, G. Ph., Columbus, Student O. M. U.
Allen, Edward Harrison, B. A. (Ohio Wesleyan University), 1899, LL. B., Lena.
Allen, Lucy, 1897, B. A., 1900, M. A., Columbus, library assistant, State University.
Alsdorf, Percy Reed, E. M., Central City, Col., Standard Assay office.
Alsdorf, Frederick Charles, 1892, E. M., Central City., Col., Superintendent Mt. Wilson Gold and Silver Mining Co.
Alspach, Rufus Edwin, 1897, M. A. (B. A. Heidelberg), Thornville.
Anderson, James T., 1884, B. A., Colorado Springs, Col., 1st Lieutenant U. S. Army.
Anderson, Newton M., 1879, B. Sc., Cleveland, Principal of the University School.
Andress, Edna A., 1900, B. Ph. (Mrs. Julius Stone) Columbus.
Andrews, Albion Joseph, Jr., 1893, LL. B. (B. S., Ohio Wesleyan University), Zanesville.
Andrews, Lincoln Elmer, 1893, LL. B., 1895, B. Ph., Columbus, attorney-at-law.
Armstrong, Edna, 1897, B. Ph., Columbus.
Armstrong, William H., 1890, G. Ph., Marysville, druggist.
Arnold, Charles Lincoln, 1890, B. Sc., 1894, M. Sc., West Eighth ave., Columbus, assistant professor in mathematics, State University.
Arnold, Edwin E., 1898, M. E., Westinghouse Machine Co., Pittsburg, Pa.
Atkins, G. Glenn, 1898, B. A., Greenfield, Mass., pastor Congregational Church
Atkinson, Warren, 1899, M. E., Tester of steam pumping engines at works of H. R. Worthington, Brooklyn, N. Y.
Auld, James A., 1897, M. E. in EE., Columbus, with D. S. Auld, 76 East Gay street.
Austin, John Gustave, 1899, LL. B., Sparta.

B

- Bachtell, Nellie May, 1895, B. A., New London, teacher.
- Backhaus, Henry Ward, 1894, B. A., Wapakoneta, cashier People's National Bank.
- Baer, Philip, Jr., 1897, B. Sc. (Agr.), Canal Dover, Dairy Farmer.
- Bagley, Anna Gertrude, 1894, G. Ph., Columbus, with Hallwood Cash Register Company.
- Baker, James Burt, 1898, LL. B., Salem.
- Baker, John Ezra, 1897, B. A., 1898, LL. B., St. Paris.
- Baker, William Hollister, 1892, B. Agr., Hazelhurst, Mo., farmer and stock raiser.
- Baldwin, Elizabeth Grant, 1899, B. Ph., Columbus.
- Baldwin, Zoa Belle, 1896, B. A., Neil Av. Columbus.
- Ball, Emma Leanna, 1895, B. Sc., 1896, M. Sc., Columbus.
- Ball, Fred S., 1888, B. Ph., Montgomery, Ala., attorney-at-law.
- Bancroft, Gay, 1898, B. A., Columbus, 26 West Gay street.
- Barcus, Eliza D., 1900, B. A., Columbus.
- Barcus, Miner, 1897, M. E., in EE., Schenectady, N. Y., with General Electric Company.
- Barlow, Helen M., 1898, B. Ph., Columbus.
- Barnaby, Charles L., 1898, C. E., 37 South Ninth street, assistant on Engineer Corps, Cincinnati Division, P. C. C. & St. L. Ry.
- Barnaby, Josephine, 1896, B. Ph., Warren, teacher.
- Barrows, Harry Holbrooke, 1898, C. E., Lexington, Ky., resident engineer Cincinnati Southwestern R'y.
- *Bartholomew, Clyde Stanley, 1896, C. E., died June 23rd, 1900.
- Basterdes, Ada Mabel, 1890, B. Ph., Plano, Ill., teacher in High School.
- *Bates, Josephine M., 1881, B. Ph., Mrs. Florizel Smith, died —, 1900.
- Bates, Wesley, C., 1882, LL. B., 35½ N. High street, Columbus, Attorney.
- Baughman, George W., 1897, G. Ph., Springfield, Pharmacist.
- Beach, David Price, 1895, C. E., Wellsville, in employ of Pennsylvania Railroad.
- Beach, Margaret Alice, 1891, B. Ph., Mrs. Wilson Holman, Bayonne, N. J.
- Bearsley, Orsamus D., 1898, B. Ph., Garrettsville.
- Beattie, William Renick, 1894, B. Sc., 1897, M. Sc. (in Horticulture), Washington, D. C., U. S. Department of Agriculture.
- Beck, Arthur Andrew, 1893, C. E., Columbus, county surveyor's office.
- Belden, Sanford Bonner, 1895, E. M., Manager Pittsburg Office Jeffrey Manufacturing Company.
- Bell, Florence Louise, 1900, B. Ph., Columbus, 382 East Town street.
- Bell, Mary Edith, 1894, B. Ph., teacher in Central High School, Columbus.
- Bennet, Henry C., 1890, B. A., 100 Washington street, Chicago, Ill, Attorney-at-law.
- Bennett, Samuel E., 1890, D. V. M., Kansas City, Mo., Government Meat Inspector.
- Bently, William Preston, 1885, B. Agr. (B. A. 1890, M. A. 1893, Bethany College) 15 Miller Road, Shanghai, China, missionary.
- Bertsch, Joseph Franz, 1896, LL. B., Columbus, 124 West Ninth avenue.
- Bibbee, George E., 1897, LL. B. (A. B. Ohio Wesleyan University), Columbus, 41 King avenue.
- Biebel, Herman Matthews, 1896, M. E. in EE., Chicago, Ill., electrical engineer with Western Electric Co.
- Bischoff, John Wallace, 1899, E. M., Thomas, W. Va., assistant engineer Davis Coal and Coke Co.

- Bissing, William, 1893, M. E. in E.E. (A. B. Johns Hopkins University), examiner in U. S. patent office, Baltimore, Md.
- Blackburn, Frank H., 1896, M. E. in E.E., Fostoria, Electric Engineer, Fostoria Incandescent Lamp Co.
- Blaire, Edward Grey, 1895, G. Ph., Shawnee, pharmacist.
- Blakiston, Anna Houston, 1897, B. Ph., Mrs. Powell.
- Blakiston, Mary, 1893, B. Ph., Columbus, teacher in East High School.
- Blinn, Ray S., 1893, B. S.
- *Bloom, Edwin M., 1893, B. Sc., died, 1894.
- Bloom, J. George, 1889, C. E., Chillicothe, division engineer B. & O. S. W. Ry.
- Bloomfield, Lloyd Morris, 1891, B. Agr., Central America.
- Bock, Harrison W., 1898, LL. B., 1899, B. Ph., Canton.
- Bockius, Harry Graham, Ph. B. (Yale University), 1899, LL. B., Canton.
- Bodman, Mary E., 1898, B. Ph., Bement, Ill.
- Boesche, Felix John, 1896, G. Ph., Denver, Col.
- Boesel, Frank Tilden, 1896, B. Ph., student, Harvard Law School.
- Bogue, Ernest Everett, 1894, B. Sc. H. & F., 1896, M. Sc., Professor of Botany and Horticulture, Agricultural and Mechanical College, Stillwater, Okla.
- Bohn, Frank A., 1900, B. Ph., Olmsted Falls.
- Bohn, William Edward, B. A. (German Wallace College), 1900, M. A., Olmsted Falls.
- Bond, Charles Grosvenor, 1899, LL. B., Columbus, 595 Oak street.
- Bone, John H., 1893, B. Sc., 1896, B. Sc. (Agr.), New Richmond, Ind.
- Booth, Lucy Adelaide, 1892, M. A. (B. A., Ohio Wesleyan University), 1894, Ph. D., Columbus.
- Bope, George W., 1897, LL. B., Columbus, third assistant director of law, 275 East State street.
- Bostwick, Homer Z., 1900, B. A., Columbus, Student O. S. U. Law School.
- Bowden, Harry W., 1900., C. E., Minerva.
- Bower, Jerome G., 1897, M. E., 295 North High, Columbus.
- Bownocker, John A., 1889, B. Sc., 1897, D. Sc., Columbus, associate professor of Inorganic Geology, State University.
- Boyd, Emma, 1888, B. Ph., 38 W. Woodruff ave., Columbus, teacher in the North High School.
- Boyd, James Ellsworth, 1891, B. Sc., Columbus, assistant professor of Physics, State University.
- Boyd, James G., 1897, D. V. M. Columbus.
- Boyd, Martin L., 1897, LL. B., Columbus, 265 East Eleventh Ave.
- Bradford, Ernst, 1892, G. Ph., Columbus, chemist, with N. W. Lord, O. S. U.
- Bradford, Joseph Nelson, 1883, M. E., 54 West Tenth Ave., Columbus, associate professor of drawing, State University.
- Brand, Harry Frank, 1896, B. Ph., 1897, LL. B., Worthington.
- Brandt, James Herbert, 1899, B. A., Greencastle.
- Brandt, Ulysses Sherman, 1895, B. A., Canal Winchester.
- Braun, Joseph G., 1897, G. Ph., Columbus, 802 South Champion avenue, Pharmacist.
- Brelsford, Harley, 1898, B. Ph., Christiansburg.
- Brewer, Charles Reed, LL. B., Bowling Green.
- Brewer, John Whitney, 1896, G. Ph., Columbus, 126 West Tompkins street, Pharmacist.
- Bright, Frederick I., 1900., LL. B., Logan.
- Britton, John Carr, 1898, B. Sc. (Agr.), Buffalo, N. Y.
- Brier, Harvey E., 1890, D. V. M., Tippecanoe City, veterinary surgeon.

- Bronson, Herman S., 1897, LL. B. (B. L., Cornell University), Columbus, Attorney, 120 Wilson avenue.
- Brophy, James Francis, 1899, E. M., Sun, W. Va., Sun Coal and Coke Co.
- Brown, Frank, 1899, M. A. (A. B., Macalester College), Columbus, teacher in High School.
- Brown, Frederick W., 1888, E. M., Superintendent of Colorado Portland Cement Co., Florence, Colorado.
- Brown, Newton H., 1893, M. E. in EE., Newark, Del., professor of Electrical Engineering, Delaware College.
- Bruce, Charles A., 1895, B. A., Columbus, assistant professor of Romance Languages, State University.
- Brumley, David, 1895, C. E., Louisville, Ky., with L. & N. Ry.
- Bruning, Henry Dietrick, 1896, C. E. Pittsburg, Pa., engineer on P., C., C. & St. L. R. R.
- Buchenberg, Alvin E., 1900, M. E. in E. E., Holgate.
- Buckman, Arthur Leslie, 1897, M. E., in EE., Central Union Telephone Co., Toledo.
- Buckman, Ola., 1895, B. Sc. (M. D., Cleveland University of Medicine and Surgery), Norwalk.
- Bunnell, Larone A., 1898, G. Ph., Dayton, Pharmacist.
- Burgess, James Henry, 1900, B. Ph., Big Horn, Wyo.
- Burkett, Charles William, 1895, B. Sc. (Agr.), 1898, M. Sc. (Agr.), Durham, N. H., professor of Agriculture, New Hampshire State College.
- Burkett, Dora Van Buren, 1897, B. Ph., Columbus.
- Burns, James Ferguson, 1891, C. E., Hopkinsville, Ky., assistant engineer L. & N. Ry.
- Burr, Harriett G., 1897, B. A., Worthington.
- Butler, James Marion, 1894, LL. B. (A. B., Ohio Wesleyan University), Carmel.
- Butterworth, William H., 1898, B. A., Columbus, 45 North Seventeenth street.
- Bygate, Harry Goldsmith, 1899, M. E., Draftsman, Homestead Steel Works, Homestead, Pa.
- Byers, Clara, 1894, B. Ph., Mrs. Coles A. Raymond, Youngstown, O.

C

- Cahen, Alfred, 1894, LL. B., Allegheny, Pa.
- Calkins, George Herbert, 1895, M. E. in EE., with Gen. Electric Co. Testing Department, Schenectady, N. Y.
- Calkins, William Bartlett, 1898, G. Ph., New Straitsville, Chemist, Steel Works.
- Callender, Sherman D., Ph. B. (Oberlin College), 1898, LL. B., 326-330, The Nasby, Toledo, Attorney.
- Calvin, Anthony B. (A. B. Northeastern Ohio Normal), 1900, LL. B., Youngstown.
- Canfield, Charles H., 1897, D. V. M., Government Meat Inspector, Kansas City, Mo.
- Canfield, Dorothea Francis, 1899, B. Ph., graduate student, Columbia University, New York City.
- Canfield, Leander Randall, 1896, B. Ph., Chardon.
- Capron, Marshall Fremont, 1888, M. E., architect, Cleveland.
- Carr, Hugh Stanley, 1896, M. E. in EE., assistant professor Electrical Engineer, Lawrence, Kansas.
- Carr, James Gray, 1897, B. A., Coshocton.
- Carroll, Patrick Henry, 1894, E. M., Herrin, Illinois, Supt. Big Muddy Coal and Iron Co.

- Carroll, William Hunt, 1894, LL. B., Wilmington.
- Carson, Samuel King, 1895, M. E. in EE., M. D. (Ohio Medical University),
Acting Assistant Surgeon U. S. A., Manila, P. I.
- Cary, Charles R., 1900, LL. B., Millersburg.
- Cathcart, Josephine M., 1888, B. Sc., 1131 Cedar avenue, Cleveland, accountant.
- Catlin, Homer Clark, 1896, C. E., Bridge Department, N. Y. C. R. R., Grand
Central Station, N. Y.
- Canaga, George Orlando, 1895, LL. B. (B. A., Scio College).
- Cartwright, Henry Gilroy, 1895, LL. B.
- Cavanaugh, Andrew F., 1900, M. E., Dayton.
- Cellarius, Frederick Julius, 1888, C. E., Dayton, civil engineer.
- Chamberlain, Helena W., 1884, B. A., Mrs. Ellis Lovejoy, Union Furnace.
- Chalmers, Agnes Florida, 1895, B. Ph., Bay City, Mich., teacher in High School.
- Chappell, Walter Evans, 1898, M. E. in EE., first-class electrician, U. S. S.
Chicago, care U. S. Despatch Agent, New York.
- Charters, William Filson, 1887, B. Ph., Sidney, tax inquisitor.
- Cherryholmes, W. K., 1881, B. Sc., M. D., Hamilton, physician.
- Cilley, Raymond, 1896, C. E.
- Clark, Alexander B., A. B. (Yale University), 1899, LL. B., Canton.
- Clark, Clarence J., 1899, C. E.
- Clawson, Clarence Alfred, 1899, B. Sc. (Agr.), 1900, D. V. M., Okena.
- Clay, Albert Arlington, 1893, LL. B. (B. A., Tri-State Normal College), Hicks-
ville.
- Claypoole, Bessie Smith, 1895, B. Ph., Columbus, student, 1080 North High St.
- Claypool, Charlotte Lake, 1892, B. Ph., Columbus, 1080 North High St.
- Clements, Frank Orville, 1899, M. Sc. (M. A., Otterbein University), Westerville.
- Clum, George V., 1893, B. A., Mendota, Ill., president of Mendota College.
- Clum, Harry Ernest, 1899, B. Ph., Westerville.
- Cockins, Edith D., 1894, B. A., Columbus, registrar, State University.
- Coddington, Edwin F., 1896, C. E., 1897, M. Sc., fellow in Astronomy, Lick
Observatory, Mount Hamilton, California.
- Cole, George Nathan, 1891, M. E. in EE., Chicago, Ill., 112 Clark street.
- Cole, Marietta C., 1897, B. Ph., Columbus, 897 Franklin avenue.
- Collins, Curtis, 1895, M. E. in EE., Salesman, General Electric Co., Baltimore,
Maryland.
- Coney, William Hawks, 1894, B. Sc., Honolulu, S. I.
- Connell, Laura Jewell, 1896, B. Ph., Columbus, teacher of German, 433½ Long
street.
- Connell, William A., 1886, E. M.
- Connor, Alice M., 1900, B. Ph., Columbus.
- Connor, Ellen J., 1900, B. Ph., Columbus.
- Converse, Edward Jasper, 1886, B. A. (B. D., Yale University), Columbus,
assistant pastor, First Congregational Church, 808 North High street.
- Converse, Howard Pendleton, 1887, B. Sc., 166 Devonshire street, Boston,
Mass., manager Boston office Cooper, Hewitt & Co., steel and iron man-
ufacturers.
- Converse, Walter, 1899, B. A., Plain City.
- Conway, Hugh Lawrence, 1896, C. E., assistant engineer, Water Works, Cin-
cinnati.
- Cope, Albert N., 1897, M. E. in EE., Columbus, foreman Columbus Street R. R.
Corner, Florence, 1897, B. Ph., Columbus, 642 East Rich street.
- Corns, Harry, 1887, B. A., Columbus, teacher in Central High School.
- Corwin, Edwin E., 1880, B. A., Columbus, attorney-at-law, 1462 Neil avenue.

- Cotes, Albert E., 1897, B. Sc., Columbus, medical student, Ohio Medical University.
- Courtright, J. Loring, 1900, B. A., Circleville.
- Coursault, Ida May, 1899, B. Ph., Columbus, 770 East Long street.
- Coursault, Jesse H., 1893, B. A., 1898, M. A., Columbus, teacher in Central High School.
- Covell, Vernon Royce, 1895, C. E., Pittsburg, Pa., county engineer's office.
- Craig, Moses, 1889, B. Sc. (M. S., Cornell University, 1890), 1896, M. Sc. (H. F.), Auburn, Ala., assistant in Horticulture Experiment Station.
- Cratty, John Mason, 1897, B. Sc., Cincinnati, chemist.
- Crawford, Ira, Jr., 1893, LL. B. (B. S., Denison University), Dayton.
- Crawford, William Sterling, 1888, B. Ph.
- Croll, Alfred J. (A. B., Ohio Normal University), 1900, LL. B., Tontogany.
- Cromley, Alva M., 1897, G. Ph., pharmacist, Circleville.
- Crooks, Charles Melvis, 1892, B. A. (D. D., Harvard University, 1896), Colerain, Mass., pastor Congregational church.
- Crowner, Delbert Alonzo, 1896, B. Sc. (Agr.), Wellsville, N. Y.
- Cummins, Henry Rollins, 1891, G. Ph., Akron, pharmacist.
- Cunningham, Arthur, 1880, B. A., 107 Lincoln street, Columbus, book-keeper.
- Cunningham, Edward Walker, 1894, C. E., civil engineer, Schoenberger Wks. Am. Steel and Wire Co., Pittsburg, Pa.
- Cunningham, George S., 1886, B. Ph., LL. B., Lancaster, attorney-at-law.
- Cunningham, John Ferguson, 1897, B. Sc. (H. & F.), 1899, M. Sc. (H. & F.), Cleveland, assistant editor "Ohio Farmer."
- Curtis, Leigh Goodrich, 1899, C. E., Zanesville, Dept. M. of U., B. & O. R. R.

D

- Daily, Henry G., 1892, D. V. M., Wooster, veterinary surgeon.
- Dally, John Randolph, 1899, LL. B., Centerburg.
- Damron, Carson W., 1897, M. E., Columbus, Jeffrey Mfg. Co.
- Daniels, David Edwin, 1893, LL. B., B. Ph., (Denison University), 1896, LL. M., Columbus, 1326 Madison avenue.
- Darby, Roscoe B., 1900, LL. B., Wauseon.
- Davenport, Adrian E., 1897, B. A., Columbus, 1449 Franklin avenue.
- Davidson, David Millen, 1894, B. A.
- Davidson, George Edwin, 1899, LL. B., East Liverpool.
- Davies, Jennie C., 1897, B. Ph., Columbus, 590 East Spring street.
- Davies, John Lodwick, 1894, LL. B., Columbus.
- Davis, Charles William, 1894, E. M., Colorado Springs, Col., care J. Mck. Terriday & Co.
- Davis, Oscar Allen, 1897, M. E. in EE., Alliance, draughtsman Morgan Engineering Co.
- Davis, Vernon Hays, 1900, B. Sc. (Agr.), Byesville.
- Deahl, Walter Smith, 1896, C. E., 268 Fisk St., Pittsburg, Pa., Pittsburg Bridge Co.
- Deardurff, Carl Mason, 1895, B. A.
- DeLamater, Clayton William, 1884, A. B., LL. B., Omaha, Neb., attorney-at-law.
- DeLoffre, Andre, 1896, M. E. in EE., Schenectady, N. Y., Engineering Department General Electric Co.
- DeLoffre, Samuel Middleton, 1895, B. A.
- Dennis, Jerry, 1892, LL. B., 1893, LL. M., Columbus, attorney-at-law, 690 Franklin avenue.

- Derby, Florence Harlow, 1896, B. Ph., Columbus, graduate student, State University, 93 East Fifteenth avenue.
- Detmers, Frederica, 1887, B. Sc., 1891, M. Sc., 1315 Neil avenue, Columbus, teacher.
- Devol, William Stowe, 1886, B. Agr., Riverside, Cal.
- Dice, Jesse Peck, 1898, LL. B., Akron.
- Dickinson, Thomas Herbert, 1899, B. Ph., N. Y. City, graduate student Columbia College.
- Diemer, Hugo, 1896, M. E. in EE., Greenwood, N. C., professor of mechanical engineering, A. & M. College.
- Dietrich, Charles Henry, 1878, B. Sc., with American Book Co., general manager for Kentucky.
- Dietrich, George C., 1898, B. Ph., Groveport, principal of High School.
- Dill, Dille Augusta, 1900, B. Ph., Columbus.
- Doan, Frank C., 1898, B. Ph., Athens, professor of philosophy, Ohio University.
- Dollison, Harvey C., 1900, B. Sc., Columbus.
- Doney, Carl Gregg, 1891, B. Sc., 1893, LL. B., Delaware, pastor M. E. Church.
- Donham, Maurice, 1896, M. E., Struthers, Wells & Co., Warren, Pa.
- Donham, William W., 1882, B. Sc.
- Dowd, Charles F., 1900, B. Ph., Toledo.
- Dresbach, Melvin, 1897, B. Sc., Columbus, Fellow in Physiology, State University.
- Drummond, William G., 1900 M. E., Cleveland.
- Dubois, Wilbur L., 1900, B. Sc., Columbus, Fellow in Chemistry, State University.
- Dun, George William, 1884, B. Sc., Columbus, business manager "Columbus Citizen."
- Dun, John J., 1883, E. M., Fifteenth avenue, Columbus, consulting engineer.
- *Dun, Walter Angus, 1878, B. Sc., M. D., died November 7, 1887.
- Dungan, Irvine Laird, 1892, B. Ph., Cincinnati, Lane Theological Seminary.
- Dunlap, Thaddeus Cox, 1895, M. E. in EE., consulting engineer, 8 West Seventh street, Chattanooga, Tenn.
- Dunlap, William Renick, 1895, B. Sc., Kingston, farmer.
- Dunlap, Robert R., 1900, M. E. in EE., Columbus.
- Dunnick, Edward, 1897, C. E., Mt. Vernon Bridge Co., Mt. Vernon, O.
- Duvel, Joseph W. T., 1897, B. Sc., Wapakoneta
- Dye, Clair, Albert, 1891, G. Ph., Bern, Switzerland, student at University.

E

- Eagleson, Grace, 1897, B. Ph., Columbus, 601 Oak street.
- Eagleson, John H., 1900, B. A., Columbus, 601 Oak street.
- Eagleson, Joseph P., 1900, B. A., Columbus, 601 Oak street, student O. S. U. Law School
- Early, Franklin E., 1893, D. V. M.
- Easterday, Charles Todd, 1891, G. Ph., Wellston, Druggist.
- Eddy, William, 1900, D. V. M., Cleveland.
- Edwards, Mary Winifreda, 1897, B. A., New Richmond, Prin. of High School.
- Egbert, Knott C., 1890, B. Agr., Yainax, Oregon, Supt. Indian Boarding School
- Eisenbise, Bertha, 1900, B. Ph., Columbus.
- Eisenlohr, Berthold A., 1898, B. Ph., Corning, mining engineer.
- Ellis, Charles, 1898, D. V. M., 3230 Locust street, St. Louis Mo., veterinarian.
- Emery, Peyton Randolph, 1893, LL. B., London.
- Emery, Vernon Judson, 1887, B. A. (A. M., University of Nebraska), Cleveland, assistant professor of Latin, Western Reserve University.

- Erf, Oscar, 1899, B. Sc. (Agr.), Champaign, Ill., Instructor in Dairying, University of Illinois.
- Erskine, John H., 1886, E. M., Lowellville, fire brick manufacturer.
- Estep, Frank Leslie, 1898, M. E. in EE., Draughtsman, Schoenberger Works, American Steel and Wire Co., Pittsburg, Pa.
- Evans, Ernest, 1892, B. Sc., Mingo Junction, chemist, Laughlin Junction Steel Co.
- Evans, Peter Platter, 1892, C. E., Boston, Mass., with King Bridge Co.
- Evans, William Lloyd, 1892, B. Sc., 1896, M. Sc., Colorado Springs, Col., teacher of chemistry in High School.
- Eysenbach, Ernest E., 1896, E. M., Columbus, Superintendent Columbus Gas Co.

F

- Fairchild, Harmon Scott, 1894, LL. B., Springfield.
- Farber, Charles Harker, 1894, B. A., Columbus, with State Savings Association.
- Fassig, Oliver L., 1882, B. Sc., Baltimore, Md., instructor in Climatology, Johns Hopkins University.
- *Fay, Frederick Willis, 1882, B. A., B. Arch., died August, 1892.
- Fay, Mona, 1897, B. Ph. (Mrs. Eugene Gee), Wheeling, W. Va.
- Feicht, Russell Stimson, 1890, M. E. in EE., Engineering Department Westinghouse E. & M. Co., Pittsburg, Pa.
- Feiel, Ida Louise, 1898, B. Ph., Columbus, 520 East Main street.
- Fenner, Jessie Albertus, A. B. (Wittenberg College), 1898, LL. B., Shiloh.
- Fergus, Guy Carlton, 1898, M. E. in EE., partner in Zanesville Electrical Co.
- Fergus, John Franklin, 1892, LL. B., Columbus, attorney-at-law.
- Fickes, Walter M., 1900, E. M. (Ceramics) Steubenville.
- Finley, Harry Marshall, 1894, B. A., McConnellsville, principal of High School.
- Fippin, Elmer Otterbein, 1900, B. Sc. (Agr.) Briggsdale.
- Fischer, Paul, 1891, B. Agr., D. V. M., professor of Veterinary Medicine, Manhattan, Kas.
- Fischer, Robert, 1895, G. Ph., 1896, M. Ph., 1898, B. Sc., Ithaca, N. Y., laboratory assistant, Cornell University.
- Fischer, Walter, 1897, B. Sc., Columbus, 810 Franklin avenue.
- Fish, Fred Alan, 1898, M. E. in EE., Columbus.
- Fisher, Clara, 1886, B. A., Mrs. J. Porter Milligan, Columbus.
- Fisher, Georgietta, 1895, B. A., teacher in High School, Ottumwa, Iowa.
- Fisher, Ida May, 1900, B. Ph., Columbus.
- Fitzgibbon, James Robert, 1894, LL. B., Newark.
- Fitterer, John Conrad, 1898, B. Sc., Butler.
- Flickinger, George A., 1898, B. Sc., (Agr.), Knoxville, Tenn., Dairyman at University of Tennessee.
- Floto, Julius, 1889, E. M., Chicago, Ill., Monadnock Building, with C. L. Strabel.
- Flynn, Benjamin H., 1898, C. E., Columbus, with State Board of Health.
- Flynn, Harry Franklin, 1892, C. E., Washington, D. C., U. S. Geodetic and Coast Survey.
- Flynn, Maud, 1896, B. Sc., Columbus, student, Columbus Normal School, 40 East Fifth avenue.
- Flynn, Oscar Rodgers, 1896, B. Sc., teacher in High School, Columbus.
- Foley, William J., 1894, D. V. M., Lexington, Ky.
- Ford, Ruth L., 1898, B. A., Ashtabula, teacher in High School.
- Ford, Stanley Hamer, 1898, B. Ph., 1st Lieut. in U. S. Army.
- *Forgy, Ralph Morris, 1896, B. Ph., died March, 1899.

- Foster, Dudley Hampton, 1895, B. Ph., LL. B., attorney-at-law, Corning.
- Foster, Frank McMillan, 1894, M. E. in EE., with John N. Poage, Cincinnati, manufacturer water columns and valves.
- Foster, Israel Moore, 1898, LL. B., Athens.
- Foulk, Charles William, 1894, B. A., student, in Germany.
- Fowler, Harry R., 1894, M. E. in EE., Toledo, electrical contractor.
- Fox, Charles P., 1890, B. Agr., 1895, M. Agr., Columbus.
- Fox, Frederick Hugh, 1896, B. Ph., McConnellsville.
- Fox, John Herbert, 1897, M. E., Cleveland, Brown Hoisting Machine Co.
- Fox, Ross G., 1900, B. Ph., Columbus.
- Francis, Edward, 1894, B. Sc., M. D. (Ohio Medical College), Assistant Surgeon, U. S. Marine Hospital, Stapleton, S. I., N. Y.
- Francis, Mark, 1887, D. V. M., College Station, Brazos Co., Tex., professor of Veterinary Medicine, Agricultural and Mechanical College.
- Frankenberg, John Theodore, 1899, M. E., in EE., Columbus, 851 Neil avenue.
- Fravel, George B., 1888, M. E., Road Foreman of Panhandle Lines, Cincinnati, O.
- Frayser, Lee Ambrose, 1896, M. E., Columbus, Rarig Engineering Co.
- Freeman, Stanton Sholes, 1898, E. M., St. Carbon Iron and Steel Co., Parryville, Pa.
- French, Thomas Ewing, 1895, M. E., Columbus, assistant professor of drawing, State University, 1458 Worthington street.
- Fritchle, Oliver Parker, 1896, B. Sc., Mt. Hope.
- Frost, George W., 1900, M. E., Columbus.
- Fullmer, Edward L., 1897, B. Sc., 1898, M. Sc., Mitchell, S. D., University of South Dakota, professor of sciences.
- Fullerton, Charles Haywood, 1898, B. Ph., Wheelersburg.

G

- Gains, Charles E., 1889, B. Ph., London, physician.
- Galbraith, John Howard, 1883, B. Ph., Columbus, journalist, 1087 Oak street.
- Gale, Cora C., 1893, B. Ph., Columbus, Oak street, near Grant.
- Gale, Franklin Henry, 1893, LL. M. (LL. B., University of Michigan), Columbus, 324 Oak street.
- Gallen, William Francis, 1897, M. E., Columbus, Jeffrey Manufacturing Co.
- Game, Reed Haskell, 1896, B. Ph., 1899, LL. B., Columbus.
- Gamper, Hedwig E., 1900, B. Ph., Columbus.
- Gamper, Herman, 1899, M. E., Ingersoll-Sargent Drill Co., Easton, Pa.
- Gayman, Charles W., 1900, B. Ph., Van Wert, Principal of the High School.
- Garber, Alberta D., 1889, B. Ph., A. M.
- Garber, John Murray, 1897, C. E., Columbus, Mt. Vernon Bridge Co.
- Garber, Levi L., 1898, B. A., Belleville.
- Garst, William Augustus, A. B. (Otterbein University and Harvard University), 1898, LL. B., Westerville.
- Gee, Eugene C., 1897, M. E. in EE., Wheeling, W. Va., with Telephone Co.
- Gehrkens, Edward Frederick, 1894, M. E. in EE., Schenectady, N. Y., with General Electric Co.
- Geissinger, James Allen, 1895, B. A., Pastor Centenary M. E. Church, Ripley, Ohio.
- Genheimer, Eli Thomas, 1896, B. Ph., Portsmouth, teacher in High School.
- Genheimer, William F., 1897, LL. B., Portsmouth, attorney.
- Gibbs, George C., 1893, B. A., Columbus, with Green, Joyce & Co.
- Given, James Byron, 1896, M. E. in EE., Western Electric Co., Chicago, Ill.
- Givens, Newton Edgar, A. B., 1896, LL. B., Waverly.

- Glover, Sioux, 1882, B. Sc., Mrs. Horton, Errid, Pa.
 Goddard, Loring Hapgood, 1892, C. E., farmer. Manora, O.
 Good, Paul Revere, 1899, B. A., 1900, M. A., Westerville.
 Goodell, Ralph Spencer, 1892, C. E., Mt. Vernon, Mt. Vernon Bridge Co.
 Goodman, Joseph Clarence, 1896, LL. M., Columbus, 375 East Town street.
 Goodman, Sylvester Jacob, 1896, G. Ph., Philadelphia, Pa., student of Medicine, W. & J., Medical College.
 Gordon, Adelaide Cummins, 1896, B. Ph., Columbus.
 Graham, Emery Eugene, 1898, M. E. in EE., Alliance, Morgan Engineering Co.
 Grandle, Frank Albert, 1891, G. Ph., Centerburg, pharmacist.
 Grate, Charles Artemis, 1898, M. E.
 Graves, William L., 1893, B. A., 1897, M. A., assistant professor in Rhetoric, State University.
 Gray, Genevieve, 1898, B. Ph., Columbus.
 Gray, James Collam, 1892, LL. B., 1893, LL. M., Pittsburg, Pa., attorney P. R. Ry.
 Graven, D. Homer (A. B., Ohio Normal University), 1900, LL. B., Nashville.
 Green, Charles C., 1885, B. Sc., M. D., Beaver City, Neb., physician.
 Green, Jerome Joseph, 1893, M. E. in EE., Notre Dame, Ind., Notre Dame University, professor of Physics and Elec. Engineering.
 Green, Joseph Faust, 1899, M. E. in EE., Moline, Ill., electrical engineer, Moline Electric Elevator Co.
 Green, Robert Lee, 1892, G. Ph., Somerset.
 Gregg, Frank B., 1889, B. Ph., M. D.
 Gregory, Hiram D., 1880, E. M., attorney-at-law, Covington, Ky.
 Griffin, Mark H., 1897, M. E. in EE., Xenia, electrical engineer, Soldiers' and Sailors' Orphans' Home.
 Griffin, Theodore L., 1889, B. Sc., M. Sc., Columbus, chemist, 760 Mt. Vernon avenue.
 Griffith, David Mathias, 1896, LL. B., Kecksburg, Pa.
 Griffith, Wellington John, 1892, LL. B., Tiffin.
 Griffiths, Benjamin Lincoln, 1898, LL. B., Vaughnsville.
 Grimsley, George Perry, 1890, B. A., 1891, M. A. (Ph. D., Johns Hopkins University, 1894), Topeka, Kan., professor Natural History, Washburn College.
 Griswold, Lawrence William, 1892, B. A., New York City, London Assurance Co.
 Groff, Orsylla Ann, 1894, G. Ph., North High street, Columbus, pharmacist.
 Groff, Warren Noble, 1896, B. A., 1899, LL. B., Tiffin.
 Groves, John Wesley, 1898, C. E., engineer for Sunday Creek Coal Co., Corning.
 Gruen, Francis William, 1899, B. Ph., 1899, LL. B.
 Guerin, Martha, 1896, B. Ph., Columbus.
 Gugle, George Linville, 1896, LL. B., Columbus, attorney.
 Gugle, Marie, 1897, B. A., Alexandria, Ind., teacher.
 Guitard, Virgil, 1894, B. Sc., New Bedford.
 Guitteau, William B., 1897, B. Ph., Toledo, teacher in High School.
 Guss, Sherman Hamlin, 1892, B. A., Clarksburg, W. Va., principal of the colored schools.

H

- Haas, Frank, 1895, C. E., 1896, E. M., Middlesboro, Ky., Virginia Iron, Coal and Coke Co.
 Hagler, Howard, 1889, B. Sc., Washington C. H., farmer.
 Haigler, Charles Edmund, 1898, B. Sc., Xenia, O.
 Hale, Frederick James, 1898, M. E., 1900, M. Sc., Columbus.

- Hall, Harry R., 1889, E. M., Middlesboro, Ky., Virginia Coal, Iron and Coke Co.
- Halterman, Oscar Elmore, 1895, LL. B., B. S. (National Normal University).
- Hamilton, Charles R., 1893, B. A., Zanesville, Dun's Commercial Agency.
- Hamilton, Frank Alexander, 1895, D. V. M., Dubois, Pa., veterinary surgeon
- Hammond, Bessie B., 1897, B. Ph., Columbus, 443 Mt. Vernon avenue.
- Hammond, Harry J., 1900, D. V. M., Sharon Centre.
- Hammond, Rose Lyttle, 1896, B. Ph., Columbus, teacher, 90 North Twenty-second street.
- Hancock, Winfield Scott (A. B., Marietta), 1900, LL. B., Marietta.
- Hancock, David R., 1889, G. Ph., M. D., Columbus, Physician.
- Haney, Thomas Carlyle, 1894, G. Ph., Columbus, pharmacist, corner Schiller and Third streets.
- Hannum, William Hamilton, 1897, B. A., India, missionary.
- Harbage, Arnett, 1893, D. V. M., West Jefferson, farmer.
- Harkins, Robert R., 1900, M. E. Columbus.
- Harlor, John David, 1895, B. A., Columbus, teacher in Central High School.
- Harper, Ellahue A. (B. A., Ohio Wesleyan University), 1900, LL. B., Columbus.
- Harris, Charles Pearl, 1899, B. Ph., West Liberty.
- Harris, Frank Laverne, 1894, LL. B. (Ph. B., Tri-State Normal University), Payne.
- Harris, Walter Conger, 1893, B. Sc., New York, with Art Department of Herald, 104 West 114th St.
- Harrison, Warner, 1892, LL. B., East Town street, Columbus, attorney and solicitor C., A. & C. Railway.
- Harrison, William Henry, 1885, C. E., Butte, Montana, assistant engineer Butte City Water Works.
- Harrold, Ernst Ellwood, 1895, G. Ph., dispenser chemical store-room, State University.
- Harrop, Herbert Bailey, 1898, B. Sc., Columbus, 1323 Forsythe avenue.
- Hartsough, William H., Jr., 1898, B. Ph., Columbus, 1356 Hunter avenue.
- Hartwell, Arthur, 1888, M. E., Chicago, Ill., manager Chicago office Westinghouse E. & M. Co.
- Hartwick, Louis M., 1897, M. E., Draftsman in Steel Works, Johnstown, Pa.
- Harvey, Arlington Corylle, 1896, B. Ph., 1897, M. A., 1899, LL. B., Columbus, 145 King avenue.
- Harvey, Emory Wayland, 1896, B. Ph., 11 East Sixteenth street, New York City, Milton Bradley Co.
- Harvey, Florence Danford, 1898, B. Ph., Mt. Perry.
- Harvey, Sherman Lee, 1896, G. Ph., Harrisburg, Druggist.
- Harward, Arthur B., 1900, B. A., Columbus.
- Hassler, Robert Hanich, 1892, M. E. in EE., electrical engineer, Indiana Bicycle Co., Indianapolis, Ind.
- Hastings, Edwin George, 1898, B. Sc., Austinburg.
- Hayes, Seth, 1892, B. Sc., Fremont, principal of High School.
- Hayman, William C., 1900, M. E. in EE., Holgate.
- Hayward, George E., 1893, C. E., New Philadelphia, surveyor of Tuscarawas county, Ohio.
- Hazelton, Bird, 1898, B. Ph., New Straitsville.
- Hazlett, Robert, Jr., 1887, C. E., Wheeling, W. Va., engineer for Ohio Company.
- Heacock, William Preston, 1898, LL. B., Cardington.
- Heath, Arthur T., 1887, G. Ph., Oak Harbor, analytic chemist, consulting engineer and contractor.
- Hebble, Charles Roy, 1896, M. E. in EE., Cincinnati, electrical engineer.

- Hedges, Harry, 1888, B. A.
 Heller, Albert Henry, 1890, C. E., Youngstown, Youngstown Bridge Co.
 Henderson, Adelbert Andrew, 1898, C. E., Columbus, City Engineer Corps.
 Henretta, Charles Michael, 1896, E. M., Buffalo, engineer J. W. Ellsworth Coal Co.
 Herbert, Charles T., 1897, LL. B., Columbia, South America.
 Herms, Edith S., 1898, B. Ph., Portsmouth.
 Herrick, Louise, 1893, B. A. (Mrs. Harry Abbott), Columbus, 1454 Highland St.
 Hershey, Harry Hartman (A. B., Mt. Union College) 1900, LL. B., East Greenville.
 Hertner, John H., 1899, M. E. in EE., Dayton.
 Hess, Florence Louise, 1895, B. Ph., Columbus.
 Hewitt, Strafford Reaves, 1898, M. E. in EE., Columbus Belting and Packing Co.
 Hiatt, William Arthur, 1895, B. Ph., New York City, teacher in Stevens School, Hoboken, N. J.
 Higbee, Charles E., 1883, B. Sc.
 High, Odessa, 1896, B. A., West Jefferson.
 Hill, Frank E., 1886, B. Sc., M. D., Muncie, Ind.
 Hill, I. T. Reynolds, 1896, B. Sc. (H. & F.), Toledo, O., paymaster for Woolson Spice Co.
 Hine, James S., 1893, B. Sc., Columbus, assistant professor of Entomology, State University.
 Hine, Lucius A., 1888, E. M., 140 50th street, Chicago, Ill., President and Treasurer Hine-Watt Manufacturing Co.
 Hipple, John Merton, 1898, M. E. in EE., Westinghouse E. & M. Co., Wilkinsburg, Pa.
 Hirsch, Gustav, 1897, M. E. in EE., Columbus, engineer, Citizen's Telephone Co.
 Hirst, Anna Brewster, B. A. (Antioch College), 1900, M. A., Yellow Springs.
 Hoel, Sarah Elizabeth, 1893, B. Sc. (Mrs. W. M. Mills), North Tonawanda, N. Y.
 Hoffman, Arthur Sullivant, 1897, B. A., Troy.
 Hoffman, Hattie D., 1900, B. Ph., Columbus.
 Homan, Frank, 1895, C. E., Cannelton, W. Va., Raven Coal and Coke Co.
 Hood, Sherman, 1894, B. Sc., Meander, gardner.
 Hoover, Frederic Roland, 1899, B. Ph., Columbus.
 Hopkins, Charles Delnow, 1893, LL. B. (B. A., Ohio Wesleyan University), Athens.
 Horton, Henry Pomeroy, 1889, B. Ph.
 Hough, Benson Walker, 1899, LL. B., Delaware.
 Houseman, Ruth U., 1897, B. Ph., Painesville, teacher in High School.
 Houston, Anna Christine, 1892, B. Ph., 1895, M. A., Marysville.
 Hovey, Clark Samuel, B. A. (Buchtell College), 1898, LL. B.,
 Howald, Ferdinand, 1878, B. Sc., Rush Run, W. Va., manager of mining operations.
 Howard, A. B., 1883, B. Ph., Jackson, Miss., clergyman.
 Howard, Anna F., 1900, B. Ph., Columbus, 307 West Seventh avenue.
 Howard, Curtis C., 1878, B. Sc., M. Sc., 115 Jefferson avenue, Columbus, professor of Chemistry in Starling Medical College.
 Howard, Fanny Fern, 1896, B. A., Columbus.
 Howard, Edward Davenport, 1894, LL. B., 1896, LL. M., Columbus, attorney.
 Howard, John Wilmot, 1895, B. Sc., Columbus, assistant secretary, Board of Trade.
 Howells, E. S., 1884, E. M., Massillon, Howells Mining Company.
 Howells, Thomas J., 1897, E. M., Steubenville, O., Mingo Works National Steel Co., Mingo Junction, O.

- Hubbard, Ralph Newton, 1891, B. Sc., Columbus, Columbus Machine Co.
- Hughes, Raymond Mollyneaux, A. B. (Miami University), 1897, M. Sc., Miami University, professor of Chemistry.
- Huddleson, Don Carlos, 1897, G. Ph., Columbus, assistant in Gymnasium, State University.
- Huffman, Lillian Stuart, 1899, B. Ph., Columbus, 389 East Rich St.
- Huggins, Burch Delaplaine, 1899 B. Ph., Hillsboro.
- Hull, Mary Louise, 1894, B. A. (Mrs. C. H. Farber), Columbus, 392 West Seventh avenue.
- Humphrey, J. Scott, 1879, B. Sc., Findlay, civil engineer.
- Humphreys, Leona, 1895, B. A., Plain City, teacher in High School.
- Hunt, William Franklin, 1887, M. E., attorney-at-law, New York Life Building, St. Paul, Minn.
- Hunter, Madone C., 1900, M. E. in EE., Salt Creek.
- Huntington, Arthur, 1899, M. E., Turtle Creek, Pa., Westinghouse Electric Manufacturing Co.
- Huston, Charles H., 1897, LL. B. (B. S., Tri-State College. Ind.), Mansfield.
- Hyde, Wilby Grimes, 1887, B. A. (LL. B., Cincinnati), Chillicothe, attorney-at-law
- Hyle, Charles A., 1896, M. E. in EE., U. S. Weather Bureau, Mt. Tamalpais, California.

I

- Imes, Marion, 1899, B. Sc. (Agr.), Durham, N. H., New Hampshire State College, student.
- Ingram, Imogene, 1897, B. Ph., Columbus.
- Innis, Lyman H., 1893, B. A., 1895, LL. B., Columbus, attorney, 323½ South High.
- Ireland, Guy Llewellyn, 1895, M. E.
- Irvin, Chadwick H., 1897, M. E., Lima, Draftsman, The Solar Refining Co.

J

- Jackson, Frank Pierce, 1892, LL. B., 1893, LL. M., Columbus, attorney, 82 South Washington avenue.
- James, Florence May, 1896, B. A. (Mrs. Oscar R. Flynn), Chicago, Ill.
- Jaynes, Allan B., 1900, Washington, D. C., Census Department.
- Jeffrey, James Fred, 1900, B. Sc., Columbus.
- Jeffrey, Maud Dorothy, 1895, B. Ph., assistant in library, State University.
- Jenkins, William B., 1893, C. E., Bellefontaine, District Agent Interstate Savings Investment Co.
- Jenkins, Willis H., 1894, C. E., Columbus, Transitman, P., C., C. & St. L. Ry.
- Jennings, Irvin G., 1899, LL. B., Zanesville.
- Jennings, Levi E., 1897, M. E. in EE., Indianapolis, Ind., Central Union Telephone Co.
- Johnson, Charles W., 1896, M. E. in EE., Norwood, Cincinnati, chief draughtsman Bullock Electric Mfg. Co.
- Johnson, Earle S., 1900, M. E. in EE., Plants.
- Johnson, George Edward, 1892, C. E., L. & N. R. R., Louisville, Ky.
- Johnson, Herbert Lincoln R., 1892, M. E. in EE.
- Johnston, Frederick Symmes, 1899, B. Sc. (Agr.), Durham, N. H., assistant professor of Agriculture, New Hampshire State College.
- *Jones, A. A., 1886, C. E., died May, 1894.
- Jones, Arthur James, 1898, M. E. in EE., Turtle Creek, Pa., Westinghouse Electric and Manufacturing Company.

- Jones, Aaron Wesley, 1891, B. Sc., Columbus, Gardner Insurance Agency.
 Jones, Alexander Houston, 1895, M. E. in EE.
 Jones, Benner, 1897, LL. B., Jackson.
 Jones, Daniel D., 1893, G. Ph., Gallipolis, pharmacist, Epileptic Hospital.
 Jones, Jesse Lee, 1890, B. A., Philadelphia, Pa., chemist, William Cramp & Sons, Ship Builders.
 Jones, Paul, 1880, B. A., Columbus, attorney-at-law.
 Jones, Pearl N., 1892, M. E. in EE., Pittsburg, Pa., engineer and salesman, Westinghouse E. & M. Co.
 Jones, Richard Thomas, 1900, B. Ph., Columbus.
 Jones, Smiley, 1894, E. M., Prescott, A. T.
 Jones, William Francis, 1896, D. V. M., Cincinnati, Miami Medical College.
 Judd, Horace, 1897, M. E., 1899, M. Sc., Brooklyn, N. Y., Instructor, Pratt Institute.
 Judkins, Clyde H., 1897, LL. B. (A. B., Scio College), Flushing.
 Junk, Harry Prior, 1895, LL. B., Columbus, attorney-at-law, 387 Oak street.

K

- Kanmacher, Samuel H., 1900, M. E. in EE., Columbus, Superintendent Empire Gold Mining and Milling Company.
 Karshner, George M., 1900, B. A., Columbus, student, O. S. U. Law College.
 Keagle, Anna Brown, 1895, B. Ph., Columbus, teacher North High School, 59 West Fourth avenue.
 Keating, David Thatcher, 1899, B. Ph., Columbus, 1317 East Broad street.
 Keffler, Frederick, 1892, M. E., Anaconda, British Columbia, General Manager the British Columbia Copper Co., Ltd.
 Keifer, William White, 1886, B. A. (LL. B., Cincinnati), Springfield, attorney-at-law.
 Keiser, Romeo Orpheus, 1892, B. Sc., 1896, G. Ph., '98, M. D., O. M. U., '99 M. D., Cleveland Homeopathic Medical College, physician, Columbus.
 Kellerman, Ivy, 1898, B. A., 1899, M. A. (Cornell University), Ithaca, N. Y., student, Cornell University.
 Kellicott, William E., 1898, B. Ph., Columbia University, New York.
 Kellison, Edward Lafayette, 1897, B. Ph., 1900, LL. B., Quincy.
 Kemmler, Edward A., 1888, C. E., 895 S. High street, Columbus, assistant city engineer.
 Kerr, Samuel Thompson, 1894, M. E. in EE., Martins Ferry, superintendent Municipal Electric Light Plant.
 Kersey, William Rufus, 1899, M. A. (B. A., Earlham College), Columbus, 433 East Town street.
 Kershaw, Francis Stewart, 1891, B. Ph., Boston, Mass.
 Kershaw, Samuel Charles, 1892, B. Ph., Columbus, book-keeper, Columbus Bolt Works.
 Kester, Fred. Edward, 1895, M. E. in EE., Columbus, assistant in Physics, Ohio State University.
 Kiesewetter, Louis Frank, 1891, C. E. (A. B., Harvard, '92, and A. M., '93), Columbus, Cashier Ohio National Bank.
 Kiler, Abdel William, 1896, G. Ph., druggist, Columbus, Eighth and High streets.
 Kinder, Gordon D., 1900, B. Ph., Ottawa.
 Kimberley, Charles H., 1900, B. Sc., Pharmacy, Columbus.
 King, Robert James, 1899, B. A., Zanesville.
 Kirby, Harriet R., 1898, B. A., Columbus, teacher in North High School.

- Kirker, Harry L., 1889, B. Sc., with the Westinghouse Company, Sodelee-Boite 56, Havre, France.
- Kiser, Katherine Daniel, 1895, B. A., Columbus, teacher in High School.
- Klein, David, 1900, B. Ph., Columbus.
- Kline, Charles H., 1897, M. E. in EE., Dayton, city engineer and deputy county surveyor.
- Knauss, William Henry, 1895, B. Sc., student, Starling Medical College, 1317 Dennison avenue.
- Knecht, Arthur Edward, 1898, M. E., Akron, Stirling Company, Barberton, O.
- Knight, Caroline E., 1900, B. Ph., Columbus.
- Knight, Ruby Ray, 1895, B. Sc., Middleport.
- Knight, William A., 1900, M. E., Columbus, instructor in shopwork, State University.
- Knopf, Eva S., 1895, B. Ph., Columbus, teacher in North High School.
- Knopf, George W., 1883, B. Sc., Pittsburg, Pa., bridge builder.
- Knox, Frank Stewart, 1900, E. M., Columbus.
- Kohr, Donald Alexis, 1898, B. Ph., Westerville.
- Krauss, Bertha Katherine, 1892, B. Ph., Ottawa.
- Kreiger, Charles Henry, 1887, G. Ph., Columbus, superintendent the Kauffman-Lattimer Co.
- Krumm, Charles S. M., 1896, B. Ph., 1898, LL. B., Columbus, attorney, 277 South Eighteenth street.
- Krumm, Herbert Zettler, 1898, B. Ph., Columbus, 975 South High street.
- Krumm, Lillian Louise, 1895, B. Ph. (Mrs. Harry Rush Wilson), Columbus, 1459 Bryden Road.
- Krumm, Louis Ralph, 1898, M. E. in EE., Engineering Department Central Union Telephone Co., Chicago, Ill.
- Krupp, William Emil, 1899, LL. B., Urichsville.
- Kuhn, Valley Howard, 1896, M. E. in EE., Etna.
- Kuhn, Harry Waldo, 1897, B. Sc., graduate student, Cornell University.

L

- Lamb, Whitney E., 1900, M. E., in EE., Commercial Point.
- Lamme, Benjamin G., 1888, M. E., Pittsburg, Pa., engineer, Westinghouse E. & M. Co.
- Lamme, Bertha A., 1893, M. E. in EE., Pittsburg, Pa., Westinghouse E. & M. Co.
- Landacre, Francis Leroy, 1895, B. A., assistant professor of Zoology and Entomology, State University.
- Landacre, Walter Alexander, 1891, G. Ph., Columbus, assistant professor of pharmacy.
- Landis, Walter Victor Titus, 1895, B. Ph., Dayton.
- Lane, Quinton R., 1898, B. Ph., 1900, LL. B., Attorney, Columbus.
- Large, Joseph H., 1890, C. E., Whigville, O.
- Laughlin, Hugh Clarence, 1890, B. A. (A. M., 1895, University of Nebraska), 1712 Bathgate avenue, New York, teacher in High School for Boys and Girls.
- Lavery, William F., 1890, D. V. M., veterinary surgeon, State University.
- Lawrence, Arthur K., 1897, G. Ph., Columbus, 69 North Seventeenth street, Pharmacist.
- Layton, Roy Everett, 1895, B. A., 1897, LL. B., Wapakoneta, attorney.
- Lee, Corless E., 1900, M. E. in EE., Speidel.
- Lee, Edwin S., 1893, G. Ph., Columbus, druggist, 144 West Ninth avenue.
- Lee, Robert M., 1897, M. E., Columbus.

- Leffler, Edward Victor, 1896, G. Ph., Leipsic.
- Lehman, John Wesley, 1899, B. Ph., Canal Winchester.
- Lemert, Helen Ora, 1894, B. A., Columbus, teacher High School, 81 Twenty-second street.
- Lentz, Alice B., 1897, B. Ph., Lloydsville.
- Lentz, Theresa, 1893, B. Ph., Bellaire, teacher in High School.
- Leonard, James Lincoln, 1893, LL. B. (B. S., Ohio Normal University), Welcome.
- Levering, Orpheus D., 1893, M. E.
- Lewis, Charles Montgomery, 1881, B. A., Columbus, with Columbus Evening Dispatch.
- Lewis, Thomas K., 1894, B. Sc., Columbus, assistant in drawing State University.
- Lincoln, Paul Martyn, 1892, M. E. in EE., Niagara, N. Y., assistant superintendent Niagara Falls Power Co.
- Lindo, William C., 1896, C. E., Port Antonio, Jamaica, W. I., civil engineer.
- Linebaugh, Jesse J., 1899, M. E. in EE., Schenectady, N. Y., General Electric Co.
- Linson, Irvin, 1882, B. A.
- Linville, Clarence P., 1900, B. Sc., Chemistry, Columbus, Fellow in Chemistry.
- Lisle, Charles H., 1900, B. Ph., Pataskala.
- Lisle, Dallas Gypsi, 1899, B. Ph., Ashland, Ky.
- Lisle, Leslie Mae, 1899, B. Ph., Columbus.
- Logan, Lavallette Lasea, 1896, E. M., Scranton, Pa., professor mine surveying. National Correspondence School.
- Logsdon, Carey Lignori, 1899, B. Ph., Columbus.
- Logsdon, Clement Jay, 1898, G. Ph., Newark, with Dr. J. H. Beatty.
- Loomis, John Cooper, 1898, LL. B., Tiffin.
- Lott, Charles Milford, 1895, M. E. in EE., Paulding, Supt. Electric Light Plant.
- Loveberry, Clarence, 1896, D. V. M.
- Lovejoy, Ellis, 1885, E. M., Union Furnace, chemist and superintendent Columbus Brick and Terra Cotta Co.
- Lovejoy, Jesse R., 1884, B. Sc., Schenectady, N. Y., with General Electric Light Co.
- Luce, George Ernest, 1897, LL. B. (A. B., Ohio Wesleyan University), Columbus, 95 Hamilton avenue.
- Luse, Clara E., 1897, B. Ph., Mrs. Herbert Scott, Columbus.
- Lusk, William Vinton, 1893, D. V. M., Ft. Wingate, New Mexico, veterinary surgeon, Ind. cavalry.
- Lydenberg, Walter B., 1898, B. A., Dayton.
- Lynas, Caroline, 1898, B. A., Columbus, 109 West Gay street.
- Lynas, Charles E., 1898, B. A., Columbus, 109 West Gay street.
- Lyon, Arthur H., 1900, M. E., Wauseon.

M

- Maag, Benjamin Franklin, 1899, M. Sc. (B. Ph., Wooster University), Mt. Eaton.
- MacGuire, Charles White, 1895, G. Ph., '97, M. D., Toledo Medical College. Toledo, Ohio.
- Machwart, Washington J., B. Sc. (Muskingum College), 1900, M. A., Mt. Eaton.
- Mackey, Ure LaVerne, 1893, M. E. in EE. (B. A., Wooster University).
- Magly, Robert A., 1897, G. Ph., 1896, LL. M., chemist, Bessie Iron Furnace, O.
- Magruder, Leonard Anthony, 1895, B. Ph., 1896, LL. M.

- Maier, John Valentine, 1895, LL. B. (B. S., Northern Indiana Normal University).
- Malone, William Ruskin, 1885, B. A., Toledo, with New York Life Insurance Co.
- Manecke, Gilbert, 1897, LL. B., Fostoria.
- Manley, Rush Emmett, 1894, M. E. in EE., manager of Exchange Central Union Telephone Co., Mt. Vernon.
- Mann, Wilber Edwin, 1899, B. Ph., 1900, M. A., Columbus.
- Marple, Charles Allen, 1885, B. Sc., Louisville, Ky., teacher of Science, Male High School.
- Marquard, Frank Fred, B. L., 1896, C. E., Sharon, Pa., chemist, National Co.
- Marshall, George Sidney, 1894, B. Ph., 1897, LL. B., Columbus, attorney, Second Assistant Director of Law, 1566 Neil avenue.
- Marshall, William B., 1900, M. E. in EE., Columbus.
- Martell, Leonard Roland, 1898, B. A., Columbus, 1665 South High street.
- Martin, Edwin Dunlevy, 1891, B. Ph., Lee Centre, Ill., teacher.
- Martin, George, 1897, M. E. in EE., Massillon, Central Union Telephone Co.
- Martin, Percy, 1892, M. E. in EE., Milan, Italy, Mediterranean Electric Co.
- Marvin, Charles Frederick, 1883, M. E., Washington, D. C., U. S. Weather Bureau.
- Mason, George F., 1890, G. Ph., Milwaukee, Wis., student of medicine, Milwaukee Medical College.
- Masters, George Albert, 1886, C. E., Chicago, Ill., Western Library Association.
- Mathers, John Harrison, 1895, B. Ph., Conover.
- Mathias, Frederick W., 1893, B. Sc., Toledo, teacher High School.
- Matson, George H., 1892, G. Ph., 169 Hamilton avenue, Columbus, professor of Pharmacy, Ohio Medical University.
- Matson, William Edgar, 1896, M. E. in EE., Lynn, Mass., with General Electric Co.
- Mauer, George Clifford, 1892, D. V. M., Oak Harbor, veterinarian.
- Mays, James Wesley, 1897, B. Ph., Columbus, student in College of Law, State University.
- McAllen, William Johnson, 1894, C. E., engineer, Chicago, Ill., Illinois Steel Co.
- McCall, Arthur Gillett, 1900, B. Sc. (Agr.), McGaw.
- McCallum, Raymond, 1900, B. Ph., Dayton.
- McCarter, Edward Bancroft, 1892, B. A., 1894, LL. B., Columbus, attorney, 737 Bryden Road.
- McCarter, Flora, 1897, B. A., Columbus.
- McCarter, Robert Dale, Jr., 1895, M. E. in EE., London, England, representing General Electric Co.
- McCleary, Clayton A. (Ph. B. Franklin College) 1900, LL. B., Lorain.
- McClelland, Chalmer Kirk, 1898, B. Sc. (Agr.), Andover.
- McClure, Robert E., 1900, LL. B., Dayton.
- McCormick, J. H., 1880, M. E., Dayton, National Cash Register Co.
- McCormick, William Francis, 1896, M. E., Columbus, Cleveland avenue.
- McCulloch, George Elmer, 1891, B. Sc.
- McDowell, John Andrew, 1882, B. Sc., 949 Neil avenue, Columbus, cement engineer.
- McFadden, John Franklin, 1878, B. A., Columbus, attorney-at-law, 92 North Twenty-first street.
- McGregor, James Howard, 1894, B. Sc., New York, assistant in Zoology, Columbia University.
- McGrew, John Alexander, 1895, C. E., M. of W., Pennsylvania Railroad Co., Logansport, Ind.

- McGuffey, Francis Hoyt, 1894, M. E. in EE., New Lexington, O., U. S. Telephone Co.
- McIntire, Alfred Heber, 1898, M. E. in EE., 1900, M. E., Schenectady, N. Y., General Electric Co.
- McLaughlin, Annis, 1897, B. Ph., Columbus.
- McLaughlin, James Audley, 1895, LL. B. (B. A., Monmouth College).
- *McMakin, Amasa Brown, 1879, B. Sc., died May 22, 1891.
- McNary, George Bull, Jr., 1896, M. E. in EE., Toledo, with Bissel & Co.
- McPherson, William, 1887, B. Sc., 1891, M. Sc., 1895, D. Sc., 1899, Ph. D., University of Chicago, Columbus, State University, professor of Chemistry.
- Mead, Clinton V., 1884, B. Ph., Denver, Col., attorney-at-law.
- Mead, Rollo Nooman, 1895, D. V. M., Grand Rapids.
- Mebs, George H., 1897, G. Ph., Columbus, Pharmacist, Columbus State Hospital.
- Meek, Charles Wesley, 1894, LL. B., Toledo.
- Meek, Edward Duncan, 1896, B. A., 1899, M. A. Glencoe.
- Meek, William W., 1899, B. Ph., 121 Fifteenth avenue, Columbus, J. W. Meek & Co.
- Mendenhall, Maurice H., 1893, D. V. M., West Elkton.
- Menough, Arthur George, 1894, E. M., Apartado 17, Zacatecas, Mexico, assayer and chemist
- Mercer, Frank Emmet, 1896, M. E. in EE., Lima, Ohio.
- Merrill, Alice Louise, 1893, B. A., 6565 Yale ave., Chicago, Ill., Station O, teacher.
- Merrill, Charles Wesley, A. B. (Denison University), 1898, LL. B., 326-330 The Nasby, Toledo, attorney.
- Mershon, Ralph D., 1890, M. E., New York office Westinghouse E. & M. Co.
- Mesloh, Charles W., 1889, B. A., 1895, M. A., assistant professor of German, State University.
- *Metters, Allen, 1896, B. A., died January 22, 1898.
- Metzger, Edward H., 1897, G. Ph., Columbus, assistant pharmacist, State Epileptic Hospital.
- Mickey, Blanche D., 1898, B. Ph., Shelby, teacher.
- Middleswart, Clarence Coulter, A. B. (Marietta College), 1898, LL. B., Constitution.
- Middleton, Ambrose, 1895, G. Ph., Malta, pharmacist.
- Miller, Carl James, 1898, B. Sc. (Agr.), Franklin.
- Miller, Charles C., 1883, B. A., Lima, superintendent schools.
- Miller, Daniel Elmer, 1890, G. Ph., Dayton, druggist.
- Miller, Frank Case, 1893, C. E., Dwight, Ill., Supervisor, Chicago and Alton R. R.
- Miller, Gretchen P., 1900, B. Ph., Columbus.
- Miller, Harry Franklin, 1889, M. E., South Bethlehem, Pa.
- Miller, Henry P., 1897, D. V. M. Sunbury.
- Miller, Merritt Finley, 1900, B. Sc. (Agr.) Ridpath.
- Miller, Walter McNab, B. Sc., 1885, Reno, Nev., professor of Anatomy and Physiology, State University.
- *Milligan, James Porter, 1886, B. A., died, February, 1899.
- Mills, William C., 1898, B. Sc. (H. & F.), Columbus, curator Archæological collection, State University.
- Milne, Alexander, B. D. (Yale University), 1898, M. A., Duluth, Minn., pastor Pilgrim Congregational Church.
- Mix, Edward W., 1888, B. Sc., Paris, France, superintendent "Le Societi des Establishments."

- Mix, Melvin Noble, 1895, B. Ph., New York, The World, journalist.
- Mock, George Herbert, 1891, B. Sc., Ohio State Savings Bank, Columbus.
- Montgomery, Howard, 1896, B. Ph.
- Moodie, Alice Haynes, 1890, B. A., Mrs. Arthur Hartwell, Chicago, Ill.
- Moon, Victor C., 1900, B. Ph., Columbus.
- Mooney, Charles Napoleon, 1900, B. Sc. (Agr.) Milan.
- Mooney, Daniel Francis, 1894, LL. B., St. Mary's.
- Moore, Edgar Howard, 1900, B. Sc., Columbus.
- Moore, Henry Curtis, 1897, B. Sc., Washington C. H.
- Moore, Virgil Owen, 1895, B. Sc., M. D., Toledo, 710 Starr ave., physician.
- Morhart, Katherine Elizabeth, 1893, B. Ph., Pomeroy.
- Morrey, Annie Eliza, 1896, B. A., Chester Hill.
- Morrey, Charles B., 1890, B. A., 1896, M. D., Columbus, assistant professor
Physiology, State University.
- Morrey, William T., 1888, B. A.
- Morris, Ingle H., 1900, LL. B., Columbus.
- Morris, Clyde T., 1898, C. E., Youngstown, Youngstown Bridge Co.
- Morrison, M. Frank, 1879, B. A., Mrs. S. H. Short, London, England.
- Morrison, Robt. O., 1893, C. E., assistant on engineer corps, Erie and Ashtabula
division of Pennsylvania Lines west of Pittsburg.
- Morrow, Charles James, 1900, D. V. M., Tiro.
- Morton, George L., 1884, M. E. (LL. B., National Law School), chief examiner,
patent office, Washington, D. C.
- Moses, Martha Allston, 1891, B. Ph., 1111 Hinman ave., Evanston, Ill., book-
keeper.
- Moss, Blanche, 1898, B. A., Columbus.
- Moss, William, 1898, G. Ph., Cambridge, O., Pharmacist.
- Moyer, Henry E., 1893, B. Sc., Youngstown, chemist, Youngstown Steel Co.
- Mull, Bert LaForrest, 1898, LL. B., Columbus, 114 Herman street.
- Mullay, Annie, 1887, B. Ph., Chicago, teacher.
- Mundhenk, Fred., 1896, B. Ph., Columbus, life insurance agent, 233 North
Eleventh avenue.
- Mundhenk, Herbert C., 1889, B. Ph., Brookville.
- Mundhenk, Ruth, 1899, B. Ph., Dayton.
- Munn, Mortimer Adam, 1894, C. E., Cleveland, Cleveland & Eastern Ry. Co.
- Munson, Theodore, 1898, B. Sc., Zanesville.
- Murray, Claude R., 1895, B. A., Middleport, principal of High School.
- Murray, Frank Erskine, 1892, D. V. M., Greenfield, veterinary surgeon.
- Myers, Albert B., 1900, E. M., Columbus.
- Myers, Joseph Simmons, 1887, B. A., Pittsburg, editor Pittsburg Post.
- Myers, Ord, 1895, M. E. in EE., inspector Metropolitan St. Ry. Co., New York.
- Myers, Roy V., 1893, C. E., Dayton, Tenn., Dayton Coal and Iron Co., Ltd.
- Myers, Uriah H., 1887, E. M., Pittsburg, Pa., Myers, Shinkle & Co.

N

- Nagel, William G., 1895, M. E. in EE., Toledo, W. G. Nagel & Co., electrical
supplies.
- Needham, Harry J., 1900, M. E., Columbus.
- Needles, Mana R., 1890, B. Ph. (Mrs. Kilpatrick), Owosso, Mich.
- Nettleton, Arthur Warren, 1898, B. Sc. (Agr.), Medina.
- Newton, Henry S., 1889, B. Sc., Syracuse, N. Y., general manager Syracuse,
Lakeside and Baldwinville Ry.
- Newton, Samuel Donald, 1895, C. E., engineer on Southern R. R., Knoxville,
Tenn.

- Nichol, Gertrude Belle, 1899, B. Ph., Columbus.
 Nicholson, Charles M., 1900, M. E. in EE., Columbus.
 Nicola, Benjamin Di, 1900, LL. B., Barnhill.
 Niewahner, John Henry, 1891, B. A., Jackson, assistant cashier, First National Bank.
 Noble, W. F., 1879, B. A., Tiffin, attorney-at-law.
 Nold, John H., 1900, E. M., Columbus.
 Nurian, Kerson, 1899, M. E., Turtle Creek, Pa., Westinghouse E. & M. Co.
 Nutt, Arthur Chase, 1897, B. Ph., Worcester, Mass., instructor in English and German, Worcester Polytechnic Institute.

O

- Obetz, Francis Henry, 1896, G. Ph., '99, M. D., Starling Medical College, Columbus, physician.
 O'Brine, David, 1881, B. Sc., M. Sc., E. M., D. Sc., M. D., Urbana, physician.
 Odebrecht, August, 1895, G. Ph., Columbus, with H. Braun & Sons.
 O'Kane, Sarah Eliza, 1891, B. Ph. (Mrs. F. M. Raymond), 215 West Tenth ave., Columbus.
 O'Kane, Walter Collins, 1897, B. O., Troy, journalist.
 Orton, Clara Gregory, 1897, B. Ph., Columbus, 100 North Twentieth street.
 Orton, Edward Jr., 1894, E. M., Columbus, director of the department of Clay-working and Ceramics, State University.
 Orton, Walter Edwin, 1899, LL. B., Williamstown, Mass.
 Osborn, Abner A., 1900, B. Sc., Columbus.
 Osborn, Samuel Galloway, 1897, LL. B., Columbus, attorney, 275 East State street.
 Osborn, Raymond Carroll, 1898, B. Sc., 1900, M. Sc., Columbus.
 Ozias, Albert N., 1889, M. Sc., Principal High School, Minneapolis, Minn.

P

- Pabodie, Robert Jewett, 1899, M. E., Watertown, N. Y., Watertown Steam Engine Company.
 Page, William Herbert, 1892, LL. B., 1894, LL. M. (B. A., Yale), Columbus, professor of Elementary Law, State University.
 Palmer, Walter K., 1893, M. E., State University, Lawrence, Kan., associate professor, Department of Mechanical Engineering, University of Kansas.
 Parker, John Bernard, 1898, B. A., 1900, M. A., Danville.
 Parmenter, William W., 1900, B. A., Mt. Vernon.
 Patch, Homer Austin, 1896, C. E., Minneapolis, Minn., Draftsman, Gillette-Herzog Manufacturing Co.
 Patchell, Owen P., 1889, B. Ph., Paul's Valley, Indian Ter., attorney-at-law.
 Patchin, Rufus Harry, 1898, LL. B., Chardon, attorney-at-law.
 Payne, Halbert Edwin, 1887, M. E., 256 Broadway, New York City, American Typewriter Co.
 Peal, Allen Saunders, 1895, B. A., Chicago, Ill.
 Pearce, George Downer, 1892, G. Ph., Pharmacist, South Charleston.
 Pearl, Allen Sexton, 1894, M. E. in EE., Columbus, O., representative of Central Electric Company.
 Pease, Edward Livingstone, 1895, B. A., 1899, LL. B., Columbus, 30 Monroe avenue.
 Pedlow, Edward Benjamin, 1893, C. E., New Straitsville, superintendent Columbus and Hocking Coal and Iron Co.

- Peppel, Samuel Vernon, 1899, B. Sc. (Chem.), Madison, Wis., Wisconsin Geological Survey, assistant in Ceramics, State University, Columbus.
- Pence, David Arrel 1894, M. E., Lowellville.
- Perkins, Earl Harley, 1893, LL. B., Wellington.
- Peters, William Lincoln, 1885, M. E., Riverside, Cal., merchant.
- Pfarr, Philip Lewis, 1896, B. Sc. (Agr.), Dennison, Iowa.
- Phelps, Cyrus Alba, 1892, B. Sc., Sombereto, Jacataccas, Mexico, with Sombereto Mining and Milling Co.
- Pierce, John Mattison, 1895, M. E. in EE., South Charleston.
- Pilcher, Hastings Moore, 1895, M. E. in EE., Athens, telegraph operator and billing clerk.
- Pitts, Grace Lenore, 1900, B. Ph., Columbus, graduate student, State University.
- Plantz, Wyatt Garfield, 1894, B. A., Pomeroy.
- Pleukharp, Chas. V., 1885, M. E., Lacanada, California.
- Plimmer, Gertrude Alice, 1896, B. Ph., Columbus, 1188 Oak street.
- Polk, Walter C., 1895, C. E., Indianapolis, Ind., assistant general foreman, Central Union Telephone Co.
- Pomerene, Frank Etherington, 1891, B. Ph., 1895, LL. B., Coshocton, attorney-at-law.
- Pool, Harwood Redington, 1881, B. Ph., LL. B., 62 Cedar street, New York City.
- Porter, Mary Baxter, 1897, B. Ph.
- Postle, Herman R., 1894, C. E., Joplin, Mo., civil engineer.
- Postle, Kenneth F., 1894, B. A., Lancaster, Ky., teacher.
- Powell, Chas. S., 1893, M. E. in EE., Cleveland, representing Westinghouse E. & M. Co.
- Powell, Edward Thompson, 1896, LL. B., Columbus, attorney, 518 East Broad street.
- Powell, Norman Clemson, 1895, D. V. M., Damascus.
- Prall, Anna Dickson, 1898, B. A., Columbus.
- Pratt, Fred K., 1900, C. E., New Philadelphia.
- Price, Homer Charles, 1897, B. Sc. (Agr.), assistant horticulturist, O. S. U.
- Priest, Frederick, 1895, D. V. M., Newark, veterinary surgeon.
- Pryor, Charles Foster, 1898, LL. B., Columbus.
- Pugh, Lawrence Randolph Whetzel, 1893, B. Ph., 1895, LL. B., Columbus, attorney-at-law, 13 Board of Trade.
- Pulling, Margaret G., 1900, B. Ph., Columbus.
- Pumphrey, John Homer, 1898, B. Sc., Clayton.
- Putnam, Abbey Slocum, 1897, B. Ph., Fisher, Ill.

R

- Radcliff, Charles Anson, 1895, B. Ph., attorney, Jackson.
- Randall, Emilius Oviatt, 1892, LL. M. (B. Ph., Cornell University), Columbus, attorney-at-law, professor in Law School, State University.
- Randolph, Edward S., 1897, LL. B. (A. B., Ohio Wesleyan University), Somers.
- Rane, Frank William, 1891, B. Agr. (1892, M. Sc., Cornell), Durham, N. H., professor of Horticulture, New Hampshire College.
- Rarick, Murray M., 1896, B. Sc. (Agr.), Jacksontown, physician.
- Razor, Samuel Eugene, 1898, B. Sc., College Springs, Iowa, Professor of Mathematics, Amity College.
- Rawson, Levi, 1899, C. E., Sistersville, W. Va., Carter Oil Co.
- Ray, Frank A., 1887, E. M., Columbus, professor of mine engineering, State University.

- Ray, William M., 1893, C. E., room 825, Hickox Building, Cleveland, C. L. & W. R. R.
- Raymond, Coles Abel, 1894, C. E., Wauseon, bridge draughtsman.
- Raymond, Frank M., 1888, B. A., Columbus, attorney-at-law, 215 West Tenth avenue.
- Raymond, Maud, 1899, B. Ph., Columbus, 558 Rich St.
- Redick, Mary Glisson, 1898, B. Ph., Findlay.
- Redrow, Walter L., 1900, B. Sc., Columbus.
- Reed, Robert Browning, 1896, M. E. in EE., Zanesville, electrical contractor.
- Reed, William Allen, 1897, E. M., Querida, Colorado, assayer and surveyor, Bassick G. M. Co.
- Reese, William Daniel, 1891, B. A.
- Reese, William Henry, 1896, G. Ph., Glen Roy, Pharmacist.
- Reeves, Archibald C., 1887, C. E., 153 Superior avenue, Dayton, civil engineer.
- Resler, Edwin D. (B. A., Otterbein), 1897, M. A. Westerville.
- Rice, Herbert A., 1897, C. E., Jackson, teacher.
- Rice, Mabel Elise, 1898, B. A., Columbus, student, Hubbard avenue.
- Rice, Mary Washington, 1900, B. A., Columbus, Fellow in Economics, Ohio State University.
- Rice, Susan Esther, 1899, B. A., Columbus, 111 West Fifth avenue.
- Richardson, Hamilton Hutchinson, 1892, B. Agr., Brooklyn, gardner.
- Richardson, William Waddle, 1899, B. Ph., Washington, D. C.
- Richey, Luzerne A., 1897, B. Ph., Denver, Col., attorney.
- Rickey, Alla B., 1889, B. Ph. (Mrs. Geo. H. Cless), Broad street, Columbus.
- Rickey, Tallmadge A., 1900, B. Ph., Columbus.
- Riddle, Howard Sterling, 1897, M. E. in EE., Akron, Diamond Rubber Co.
- Riddle, Lumina C., 1897, B. Sc., 1898, M. Sc., Grand Haven, Mich., teacher in Science and Mathematics in the Akeley Institute.
- Rietz, Henry Lewis, 1899, B. Ph., Gilmore.
- Riggs, Ernest Jacob, 1895, B. Sc. (Agr.), M. Sc. (H. & F.), Raccoon Island, O.
- Rightmire, George Washington, 1895, B. Ph., 1898, M. A., Columbus, teacher in High School and fellow and assistant in American History, State University.
- Ritchey, Joseph C., 1890, B. Sc., Mingo Junction, with Junction Iron and Steel Co..
- Roach, Simeon Andrew, 1899, B. Ph., Cleveland, New York Life Insurance Co.
- Robbins, George A., 1899, B. Ph., Columbus, Lexington avenue.
- Roberts, Cyrus Swan, 1898, E. M., San Lui Potosi, Mexico, with the Cia Metaturica Mexicana.
- Robinson, Eckla Mazola, 1892, B. Sc. (Mrs. George Rowe).
- Robinson, Erdis Geroska, 1893, C. E., Mexico, D. F., Mexico, Engineering Department of Mexican Central Railway.
- Robinson, Zella Vina, 1898, B. Ph., 1900, M. A., Columbus, Highland street.
- Rockwell, Mary Fannie, 1899, B. Ph., Columbus.
- Roebuck, Carl Fletcher, 1900, B. Ph., Columbus, student State University Law College.
- Rogers, Andrews, 1896, B. Ph., New York City, student, College of Physicians and Surgeons.
- Rogers, Frank Persons, 1899, B. A., Columbus, 140 Warren street.
- Rogers, James Bertrand, 1896, E. M., Steubenville, National Steel Co., Mingo Junction.
- Root, Willis J., 1885, E. M., Columbus, chemist, National Steel Co.
- Rowlee, Henry A., 1897, M. E., Columbus, inspector Ordnance Department U. S. A., The Rarig Eng. Co.

- Ruhlen, Carl Marble, 1898, M. E., Honolulu, H. I., assistant inspector construction department, U. S. Army.
- Ruhlen, Frank, 1896, B. Sc. (Agr.), Columbus, assistant in Agriculture, State University.
- Rule, Ralph R., 1897, LL. B. (B. S., Tri-State College, Ind.), Greenspring.
- Ruppersburg, Emma Anna, 1891, B. Sc., 1896, M. Sc., Columbus, teacher in High School, 842 South High street
- Russell, Ralston, 1896, B. Ph., Pomeroy.

S

- Sabine, Annie Ware, 1884, B. A., 1886, A. M., (1888, B. Sc., Mass. Institute Technology), (Mrs. W. H. Siebert), Columbus
- Sabine, Wallace Clement, 1886, B. A. (M. A., Harvard), 53 Trowbridge street, Cambridge, Mass., assistant professor in Physics, Harvard University.
- Safford, Robert Edwin, 1894, B. Sc., New York City, Mexican Metallurgico Co.
- Sandoe, Lydora Olivia, 1893, LL. B., Mrs. Bachman, 1425 Bryden Road, Columbus.
- Sater, Lowry Francis, 1895, B. Ph., 1897, LL. B., Columbus, attorney, 114 Buttes avenue.
- Sayre, Charles B., 1900, B. A., Columbus.
- Schaff, Mae B., 1900, B. Ph., Columbus.
- Schaub, Edward Louis Tascher, 1885, M. E., Columbus, assistant superintendent Associated Charities.
- Schaub, Charles E., 1897, E. M., Phillippi, W. Va.
- Scheibell, William O., 1888, E. M., Columbus, secretary and general manager, The American Art Tile Co.
- Schlesinger, Hugo Nathan, 1899, LL. B., Xenia.
- Schreiber, George E., 1900, M. E. in EE., Ironton.
- Schreiber, John Martin, 1899, M. E. in EE., Cleveland, Cleveland Electric Street Railway.
- Schroll, Otto, 1886, C. E., Wheeling, W. Va., civil engineer, M. of W., W. B. & T. Ry. Co.
- Schueler, Erwin Waldemar, 1892, B. A., M. D., 1894, Columbus, physician, 439 South High street.
- Schwier, Minona, 1897, B. A., Columbus, 212 East Mound street.
- Scott, Anna Neill, 1886, B. A., 1274 Summit street, Columbus.
- Scott, Bertha, 1890, B. Ph., Indianola Place, Columbus.
- Scott, Herbert, 1893, B. Sc., Columbus, pastor North M. E. Church, 2533 East avenue.
- Scott, Charles Felton, 1885, B. A., Pittsburg, Pa., chief electrician Westinghouse E. & M. C., 6214 Sellers street.
- Scott, Daisy Medill, 1887, B. A., Columbus, teacher in High School.
- Scott, Dudley, 1900, B. Ph., Columbus.
- Scott, Emma, 1888, B. Sc., Brindiban, India Missionary.
- Scott, Ernest, 1897, B. Sc. (Agr.), Columbus, student, Ohio Medical University, 131 East Fifteenth avenue.
- Scott, Mary Odella, 1885, B. A., Columbus, teacher in High School, 87 West Fourth avenue.
- Scott, Mary Mermon, 1887, B. A., 1274 Summit street, Columbus.
- Scott, Mary Bole, 1896, B. A., Columbus, teacher, 926 Oak street.
- Sears, Walter James, 1894, B. Ph., Chillicothe, with Sears and Nichols Co.
- Sedgwick, Edward Crayton, 1895, M. E. in EE., Columbus, Case Mfg. Co.

- Selby, Augustine D., 1893, B. Sc., Wooster, botanist and chemist, Ohio Experiment Station.
- Sellenings, Albert Eugene, 1896, B. Ph., M. D., Bellevue Interne, New York.
- Seney, Allen J. (B. Ph., University of Michigan), 1899, LL. B., North Baltimore.
- Serva, Adam A., 1893, M. E. in EE., Ft. Wayne, Ind., Fort Wayne Electric Works.
- Seymour, Raymond J., 1900, B. Sc., Fellow in Natural History, Tuft's College.
- Shark, Robert J., 1897, LL. B., Hamilton.
- Sharp, Charles C., 1888, C. E., Corning, superintendent Mining Department Sunday Creek Coal Co.
- Sharp, David Barton, 1893, LL. B., Columbus, 335 West Fourth avenue.
- Shellabarger, Marley Rolin, 1897, B. Sc. (Agr.), Garland, Ohio.
- *Shepard, Frank Reed, 1893, B. A., died August, 1893.
- Shepherd, Charles W., 1900, C. E., Huron.
- Sherman, Christopher Elias, 1894, C. E., Columbus, assistant professor in Civil Engineering, State University.
- Shield, Wallace B., 1898, B. A., Kansas City, Mo., Manual Training High School.
- Short, Sidney H., 1880, B. Sc., London, England.
- Shuck, Carey Lucas, 1898, B. Ph., Columbus, "Columbus Evening Dispatch."
- Shurtz, Olive L., 1898, B. Ph., Columbus, 26 King avenue.
- Siebert, Wilbur H., 1888, B. A. (M. A., Harvard), Columbus, associate professor History, State University.
- Sigerfoos, Charles Peter, 1889, B. Sc., 1897, Ph. D. (Johns Hopkins University), Minneapolis, Minn., professor of Zoology, University of Minnesota.
- Sigerfoos, Edward, 1891, B. Ph., ^{Ohio} Fort Sheridan, 1st Lieut. Fifth Infantry, U. S. Army.
- Simonton, Mark, 1895, M. E. in EE., Columbus, Electric Supply and Construction Co. *Vigam, Illinois Ser. P. & L.*
- Simpson, Abigail Ellen, 1895, B. A., London, teacher in High School.
- Singleton, Charles Tod, 1900, B. Ph., student State University Law College.
- Sinks, Frederick Nicholas, Ph. L. (Yale University), 1898, LL. B., Columbus, 714 East Broad street.
- Skinner, Chas. E., 1890, M. E., box 435, Pittsburg, Pa., Westinghouse E. & M. Co.
- Slater, Burr Homer, 1895, G. Ph., Chesterville, Pharmacist.
- Slyh, Emma Almeida, 1892, B. Sc., Marble Cliff.
- Smith, Albertine, 1900, B. Ph., Columbus.
- Smith, Alice May, 1897, B. Ph.
- Smith, Burton Griffin, 1895, G. Ph., Detroit, Mich., chemist for the Ray Chemical Co.
- Smith, Carl Clyde, 1890, B. Ph., Marietta.
- Smith, Clarence Elmer, 1898, G. Ph., Columbus, student O. M. U.
- Smith, David William, 1899, C. E., Columbus, Hocking Valley Ry. Co.
- Smith, Edward E., 1897, G. Ph., Indian Territory.
- Smith, Edward Trevett, 1898, LL. B., Holden, Mo.
- Smith, Florizel, 1880, B. A., Spahr Building, Columbus, attorney-at-law, 970 Bryden Road.
- Smith, Horace Prescott, 1886, B. Sc.
- Smith, Maud Virginia, 1894, B. A. (Mrs. Thomas Chalmers), Port Huron, Mich.
- Smith, Myron Alphonso, 1892, B. Ph., Columbus, with Keyes & Thomas. real estate agents.
- Smith, Nathaniel B., 1893, D. V. M.
- Smith, Philo Christopher, 1885, B. Sc., Middlebranch, farmer.
- Smith, Virginia Roletta, 1900, B. Ph., Columbus.

- Smith, Warren Lee, 1899, LL. B., Columbus, 29 East Dodridge street.
- Snider, Charles M., 1897, B. Sc. (Ind. Arts), Columbus, 162 West Mound St.
- Snider, Jesse Worthington, 1893, LL. B., LL. M., Columbus, 340 Denmead ave.
- Snively, Harry H., 1895, B. A., Columbus, teacher in High School, 1332 Highland street.
- Snow, Walter A., 1897, B. Ph., Park Place, Minneapolis, Minn., Pastor Congregational Church.
- *Snyder, Henry, 1879, B. Sc., 1892, M. Sc. Died September, 1898.
- Snyder, James Edward, 1892, LL. B. (B. A., Wooster University).
- Snyder, Walter S., 1897, LL. B., Columbus, Attorney, 69 North Fourth street.
- Somermeir, Edward Everett, 1898, G. Ph., Columbus, assistant in Mining and Metallurgy, State University.
- Southard, Eustace Elden, 1895, G. Ph., Columbus, pharmacist, 470 Oak street.
- Southard, Thomas Campbell, 1896, B. A., Columbus, 470 Oak street.
- Sparks, Edwin Earle, 1884, B. A., 1892, M. A., Chicago University, assistant professor, Chicago, Ill.
- Spencer, William Henry, 1891, G. Ph., Sandusky, with Strong and Spencer.
- Spencer, Ralph Oliver, 1899, B. A., Columbus.
- Sperr, Frederick W., 1883, E. M., Houghton, Mich., professor of Civil and Mining Engineering, Michigan School of Mines.
- Sprague, Charles Franklin, 1896, B. A., 1899, LL. B., Wapakoneta.
- Sprague, Clarence Milton, 1899, C. E., Columbus, Room 2, Union Station, Assistant on Engineers' Corps, P., C., C. & St. L., Indianapolis Div.
- Sprague, William Ralph, 1899, B. Ph., Columbus, 71 West Tenth avenue
- Spurrier, John Randolph, 1896, M. E. in EE., Wilksburg, Pa., Westinghouse E. & M. Co.
- Staley, Marcellus, 1899, M. E. in EE., U. S. Transport Meade, chief electrician.
- Stanberry, Charles L., 1892, G. Ph., Pharmacist, McConnellsville.
- Starbuck, Daniel Carl, 1899, M. E. in EE., Care U. S. Despatch Agent, N. Y., U. S. S. Chicago.
- Steeb, Carl Eckert, 1899, B. Ph., Columbus, accountant, O. S. U.
- Stephenson, Henry Thew, 1894, B. Sc., Bloomington, Ind., instructor in English, University of Indiana.
- Stevens, Frank M., 1897, LL. B., Elyria.
- Stevenson, Amos Claude (A. B., Oberlin College), 1900, LL. B., Fostoria.
- Steward, Charles Benjamin, 1900, B. Sc. (Agr.), Marcy.
- Stewart, Edwin Earle, 1895, LL. B. (M. A., Antioch College), attorney, Springfield.
- Stewart, Lee Raymond, 1896, C. E., Philadelphia, Pa., N. Y. Ship Building Co.
- Stewart, Harford Toland, 1896, M. E. in EE., Agent General Electric Co., Columbus.
- Stiger, Thomas A., 1899, LL. B., Bucyrus.
- Stimson, Charles Leslie, 1899, B. A., Columbus, 737 Bryden Road.
- Stimson, George, 1900, B. A., Columbus, 737 Bryden Road.
- Stinebaugh, Isaac Long, 1892, C. E., Port Clinton, deputy to county surveyor
- Stone, Carlton Elijah, 1899, C. E., Gallipolis, civil engineer.
- Storer, Norman Wilson, 1891, M. E. in EE., Pittsburg, Pa., Westinghouse E. & M. Co.
- Storer, Simon B., 1893, M. E. in EE., Syracuse, N. Y., engineering and salesman, Westinghouse E. & M. Co.
- Stouffer, Charles Irwin, 1893, LL. B., Columbus, 387 Oak street.
- Stoughton, George L., 1895, LL. B. (B. A., Otterbein University).
- Stull, Emmett Willet, 1894, M. E. in EE., Johnstown, Pa., draughtsman Motor Department The Lorain Steel Co.

- Stump, Franklin Pierce, 1892, B. Agr., Convoy, farmer.
 Stump, John William, 1895, C. E., county engineer, Fairfield, Co., Ohio.
 Stump, William Lisle, 1897, G. Ph., 1898, M. Ph., Columbus, Pharmacist.
 Surface, Harvey Adam, 1891, B. Sc., 1892, M. Sc.
 Sutherland, Margaret, 1898, B. Ph., (Mrs. Benj. Flynn), Columbus, Neil ave.
 Sutphen, James Leonard, 1897, G. Ph., Columbus, 673 Livingston avenue.
 *Swartzel, Earl Glenn, 1895, B. Sc., died March, 1899.
 Swartzel, Karl Dale, 1893, B. Sc., 1894, M. Sc., Columbus, assistant professor of Mathematics, State University.
 Swisher, William Henry, 1896, G. Ph., M. D., Eaton, Physician.
 Sykes, William Edgar, 1898, LL. B., Marietta.
 Sylvester, John E., Jr., 1898, B. Ph., Wellston, editor "Wellston Telegram."

T

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 Talbot, Herbert Swan, 1898, B. Ph., Columbus, clerk Columbus Board of Trade, 640 Franklin avenue.
 Talbot, Mignon, 1892, B. A., 640 Franklin ave., Columbus, teacher in High School.
 Talar, Fred Lant, 1900, B. A., Pana, Ill., teacher.
 Travis, John F., 1900, B. A., Columbus, Fellow in Mathematics, Ohio State University.
 Taylor, Arthur W., 1894, E. M., Cleveland, chemist for Otis Steel Co., Ltd.
 *Taylor, Francis Asbury, 1885, B. A., died July 25, 1891.
 Taylor, Alexander R., 1895, B. Sc.
 Taylor, Fredric Wellington, 1900, B. Sc. (Agr.), Wooster.
 Taylor, Ralph Buren, 1895, B. A.
 Taylor, Joseph Russell, 1887, B. A., M. A. (Columbia University), Columbus, assistant professor English Literature, State University.
 Taylor, Pearl V., 1897, B. A., Columbus, 46 West Noble.
 Teter, Anstie Welsh, 1896, G. Ph., Bainbridge, Pharmacist.
 Thomas, James O., 1897, C. E., Columbus, 404 West Goodale
 Thomas, Lawrence David, 1900, B. Ph., Lancaster.
 Thompson, Carmi A., B. Ph., 1895, LL. B., Ironton, city solicitor.
 Thompson, Howard N., 1888, B. Ph., Washington, D. C., correspondent Associated Press.
 Tomlinson, James Rowe, 1892, C. E., Cleveland, Forest City Iron Works.
 Towne, Robert S., 1879, B. Sc., E. M., New York, N. Y., president Mexican Northern Railway.
 Townshend, Alice Margaret, 1880, B. A. (Mrs. Charles Wing), Columbus.
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 Tufts, Charles Hill, 1899, E. M., Cleveland, assistant chemist Otis Steel Co., Ltd.
 Tupper, Eugene L., 1893, G. Ph., Ottawa, physician.
 Turner, Arthur M., 1893, M. E. in E.E., 281 Oak street, Chicago, Ill.
 Turner, Frederick Lewis, 1897, B. A., 1898, M. A., Oak Park Hills, teacher in High School.
 Twiss, George R., 1885, B. Sc., Cleveland, teacher of Physics in High School.
 Twiss, Edith Minot, 1895, B. A., Mt. Vernon, teacher in High School
 Twiss, Marion Evans, 1897, B. A., Columbus, State Library.
 Tyler, Frederic Jared, 1900, B. Sc. (H. & F.), Perry.

U

- Uncles, Margaret Anna, 1897, B. A., Columbus, Gill street.
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 Urban, Harry Marshall, 1898, C. E., Pittsburg, Pa., "Pan Handle" R. R.,
 assistant engineer corps.

V

- Vance, Mary Grace, 1898, B. A., Danville, Ky., Caldwell College.
 Vandervoort, William P., 1886, E. M., Morrow, superintendent of schools.
 Van Harlingen, Edward M., B. Sc., 1883, M. Sc., 1897, Columbus.
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 Voorhees, Burt Fisk, 1894, LL. B., Coshocton.
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 Voorhees, Isaac M., 1894, B. Ph., Cadiz, journalist, editor of "Harrison News."
 Vornholt, Julius Franklin, 1898, B. A., New Bremen.
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 Walker, Frederick William, 1896, B. A., Columbus, 46 North Lazelle St.
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 B. & O. R. R. Co.
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 Warren, Grant Alexander, 1894, LL. B.
 Watson, Bensen Gruber, 1896, B. Ph., Columbus, attorney, The Garland.
 Watson, Edward T., 1897, B. Sc., Chillicothe, teacher in High School.
 Watt, Sern P., 1886, M. E., Chicago, Ill., Vice President and Mechanical
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 Weisman, Laura A., B. Sc. (Dom. Sci.), Columbus.

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- Weld, Harry P., 1900, B. Ph., Marysville.
- Wendt, William Carl, 1889, G. Ph., 901 South High street, Columbus, Heer's Pharmacy.
- Wertz, Edwin Slusser, 1899, B. Ph., 1900, LL. B., Dalton.
- West, Earle Downs, 1900, B. A., Columbus.
- Whitacre, Horace J., 1891, B. Sc., 1895, M. D., Columbia University, Cincinnati (Mt. Auburn), physician.
- Whitacre, Marion, 1894, B. Sc., 1899, M. D., Columbia University, Cincinnati, physician.
- White, David S., 1890, D. V. M., Columbus, professor in Veterinary Medicine, State University.
- Wiggins, Sherman Tecumseh, 1894, LL. M. (LL. B., University of Michigan), 1897, B. Ph., Coffeyville, Kan.
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- Wilcox, Alvah Newton, 1895, M. E., Dayton.
- Wilcox, Edwin Mead, 1896, B. Sc., Harvard University.
- Wilcox, McAllister, 1898, LL. B., Sunbury.
- Wildermuth, Andrew Lee Roy, 1899, LL. B., Columbus.
- Wilgus, Horace Lafayette, 1882, B. Sc., 1884, M. Sc., Ann Arbor, Mich., professor of Law, University of Michigan.
- Wilgus, James A., 1888, B. Ph., M. A., Plattville, Wis., professor of History and Economics in the State Normal School.
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- Williams, Clara M., 1900, B. Ph., Columbus.
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- Williams, Guy Rulon, 1895, LL. B., Columbus, attorney-at-law.
- Williams, Loyd Thomas, 1896, B. Ph., 1900, LL. B., Toledo, attorney.
- Williamson, Edward Bruce, 1898, B. Sc., Bluffton, Ind.
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- Wolcott, Roy C., 1895, B. Ph., 1896, M. D., Columbus, physician.
- Wolf, Herman Howard, 1895, C. E., Lieut. U. S. Revenue Cutter Service.
- Wood, Francis Carter, 1891, B. Sc., 8 East 49th street, New York City, Pathologist to St. Luke Hospital.
- Wood, Kenneth Dodge, 1881, B. A., Columbus, secretary of the Central Ohio Paper Company.
- Wood, Willard B., 1893, B. Sc., Columbus, in Columbus Postoffice.
- Woods, Charles H., 1900, LL. B., Chillicothe.
- Woodworth, Henry Julian, 1887, B. Sc., Logan.
- Worcester, Wood Frank, 1899, B. Ph., Columbus, O. S. U. Dormitory.
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Young, John Wesley, 1899, B. Ph., Ithaca, N. Y., Fellow in Mathematics, Cornell University.
Young, Mary Grace, 1900, B. Ph., Mt. Vernon.

Z

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