University of Cincinnati

CATALOGUE

OF THE

Academic Department

1893-94

CINCINNATI, OHIO:
Published by the University of Cincinnati.
1894.
Students, 1893-94.

GRADUATE STUDENTS, CANDIDATES FOR DEGREES.

FOR MASTER OF ARTS.

Holterhoff, Charles Robert, B. A. (University of Cincinnati, 1889), LL. B. (Harvard University, 1891), Avondale, O.

Kline, Ella Guy, B. A. (University of Cincinnati, 1889), LL. B. (Cincinnati Law School, 1891), 57 Gest Street, Cincinnati.


Kuester, Herbert Albert Predestick, B. A. (University of Cincinnati, 1888), Riddle Road, Clifton Heights.

Kuhn, Oscar William, B. A. (University of Cincinnati, 1888), LL. B. (Cincinnati Law School, 1888), Forest Avenue, Walnut Hills.

Langdale, Thomas G., B. A. (University of Cincinnati, 1889), Clark, Clark County, South Dakota.

Powell, Ralph Carr, B. A. (Walc University, 1892), 192 Auburn Avenue, Mt. Auburn.

FOR MASTER OF LETTERS.

Donnelly, Alice Moore, B. L. (University of Cincinnati, 1890), 381 Hamilton Avenue.

Gideon, Abraham, B. L. (University of Cincinnati, 1892), 268 Richmond St.

Haydon, Daniel Young, B. L. (University of Cincinnati, 1892), Pleasant Ridge, O.

King, Anne Hastings, B. L. (University of Cincinnati, 1892), 58 Morris Place.

Kaschel, Nellie, B. L. (University of Cincinnati, 1891), North Fairmount.

Riley, Estella May, B. L. (University of Cincinnati, 1892), 402 West Seventh Street.

Sutton, Howard Andrews, B. L. (University of Cincinnati, 1891), LL. B. (Cincinnati Law School, 1892), Wyoming, O.

FOR MASTER OF SCIENCE.

Bauer, Louis Agricola, C. E. (University of Cincinnati, 1888), 90 Dorotheen Strasse, Berlin, Germany.

UNDERGRADUATE STUDENTS.

The letter (B) indicates Course in Biology; (C) Course in Chemistry; (E) in the Junior and Sophomore lists, Course in Civil Engineering; (P) Course in Physics.

The letter (S) following the letters indicating the course to which a student has been admitted by examination, denotes that such student is taking selected studies, and is not at present a candidate for a degree.

SENIORS.


Bogen, Louis Edward, ............... C. E., .................. Keeser Ave., Walnut Hills.

Brown, Frank Sanford, ......... R. L., 17 McCormick Place, Mt. Auburn.

Cohn, Frederick, ................ B. A., .................. 296 Richmond St.

Cuth, Harry William, ......... R. L., .................. 1159 Vine St.

De Luce, Mary Louise, .............. R. L., .................. Eberon Ave., Price Hill.


Fick, Ada Sophia, ................ B. A., .................. 65 Spring St., Walnut Hills.

Grad, Bennett, ................ B. A., .................. 51 Kenyon St.

Hacken, Bert Rankin, .............. B. S., (C), .............. 95 Broadway.

Stover, Joseph Baergmoun, C. E. (University of Cincinnati, 1893), 291 West Seventh Street.

Waldhott, Sigmund, Ph. D. (University of Barea, 1889), 342 West Seventh Street.

Yowell, Everett Irving, C. E. (University of Cincinnati, 1891), M. S. (University of Cincinnati, 1893), Mt. Lookout.
will be required to pay beforehand, a fee of one dollar, which will not be returned under any circumstances.

Tuition.—Instruction is free to bona fide residents of Cincinnati. Non-residents will be charged sixty dollars a year for any full course of study, or for special studies involving more than seven recitations a week. Non-resident special students, not college graduates, taking seven hours a week or less, will be charged thirty dollars a year. Graduate students, not alumni of this University and residing outside of the city limits, will be charged for instruction in special studies (involving less than seven recitations a week), a fee of four dollars a year for a course of one hour a week; eight dollars a year for a course of two hours a week, and pro rata for courses having more hours a week. Tuition fees for the year are to be paid in advance to the Clerk of the Board of Directors.

Incidentals.—Each student in the University will be charged an annual fee of five dollars for library privileges and incidental expenses.

Receipts for tuition and incidental fees must be presented to the Registrar before the student can be enrolled in his classes.

Chemistry.—Students taking Laboratory Work in Chemistry, will be charged five dollars a year for wear and tear of apparatus.

Special students in Chemistry, taking more than three laboratory exercises a week, will be charged forty-five dollars a year for chemicals, plus breakage. Other laboratory students in Chemistry will be charged twelve dollars a semester for chemicals, plus breakage.

Physics.—Students taking Laboratory Work in Physics will be charged five dollars a year for wear and tear of apparatus.

Biology.—Students taking Laboratory Work in Biology will be charged five dollars a year for wear and tear of apparatus. Students in third and fourth-year Biology will be charged an additional five dollars a year for use of materials.

Civil Engineering.—A fee of five dollars a year will be charged the students in Civil Engineering, after the first year of the course, for the use of apparatus and materials.

Examinations.—A fee of two dollars will be charged for each supplemental examination given to any student. This fee will not be charged for supplemental entrance examinations which shall be passed before the second week in the January succeeding matriculation.

Graduation.—A fee of five dollars will be charged each recipient of a baccalaureate degree; and a fee of ten dollars will be charged each recipient of a graduate degree. This fee shall be paid one week before the day of graduation.

Undergraduate Studies.

With reference to the choice of studies, the following regulations have been adopted by the Faculty:

1. All students in attendance during the second semester, and proposing to continue their studies, shall personally present to the Registrar, before the fifteenth of May, satisfactory schemes of study for the ensuing year.

2. The choice of studies is always subject to the approval of the Faculty.

3. Each study will be continued throughout the year for which it is chosen, except in special cases, where permission to discontinue may be granted by the Faculty upon request in writing.

4. It is a general requirement that all students shall pursue one of the courses leading to a degree. Matriculates who do not desire to take all of the studies of a course leading to a degree may, by permission of the Faculty, make a special selection of studies.

Graduate Studies.

Graduates of this University and of other institutions of equal standing, are permitted to study any subject which is regularly taught in the University, and for which they may be adequately prepared.

Baccalaureate Degrees.

The University offers eight courses of study of four years each, leading to the following degrees:

1. Bachelor of Arts.
2. Bachelor of Letters.
3. Bachelor of Science in Mathematics.
4. Bachelor of Science in Physics.
5. Bachelor of Science in Chemistry.
6. Bachelor of Science in Biology.
7. Bachelor of Science in Civil Engineering.
8. Bachelor of Science in Astronomy.
Graduate Degrees.

Master of Arts, Letters, or Science.—The Faculty will recommend for a Master's degree any candidate on the following conditions:

1. He shall have received the corresponding baccalaureate degree.
   If he has not received the corresponding baccalaureate degree he shall make up all deficiencies in the studies leading to this degree, or offer substitutes therefore that are satisfactory to the Faculty.

2. He shall have pursued at this University, for not less than one year, a prescribed course of study, consisting of one major and one minor subject, under the direction of the Faculty.
   Any student not in residence at the University will be required to take at least two years to complete the work.

3. He shall have passed a satisfactory examination upon the course of study pursued.

4. He shall have presented a satisfactory thesis.

Civil Engineer.—The Faculty will recommend for the degree of Civil Engineer any Bachelor of Science in Civil Engineering of this University who, in the practice of his profession, shall have given satisfactory evidence of his ability to design and direct engineering work of importance, and who shall have presented a satisfactory thesis.

GENERAL REQUIREMENTS FOR ADMISSION.

All candidates for admission will be examined in the following subjects:

English: The candidate will be required to write a short English composition upon one of several subjects announced at the time of the examination, and also to correct specimens of bad English. The candidate is expected to have read all the books prescribed. In 1894 the subjects will be taken from one or more of the following works:

Requirements for Admission to the Course in Arts.

In addition to the General requirements, candidates will be examined in:

Latin: Caesar, first four books; Cicero, six Orations, including the four against Catiline; Vergil, first six books of the Æneid; Sallust, Catiline, or Cicero, De Amicitia (or an equivalent); Jones' Latin Prose Composition (or an equivalent); General Rules of Prosody, also Hexameter Verse: Translation at sight; Pronunciation according to the Roman Method.

Greek: Xenophon, Anabasis, four books; Homer, Iliad, three books, with the Prosody, Greek Grammar; Jones' Greek Prose Composition (or an equivalent); Translation at sight of any of the less difficult passages in the Anabasis.

History: Myers' Roman History (or an equivalent); Myers' Eastern Nations and Greece (or an equivalent).
### Courses of Study

#### Course in Civil Engineering

**First Year**

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<tr>
<th>Subject</th>
<th>First Semester</th>
<th>Second Semester</th>
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<td>Surveying</td>
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<td>Rhetoric</td>
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<td>Physics</td>
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<td>Physical Measurements</td>
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<td>Descriptive Geometry</td>
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<td>Differential Calculus</td>
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<td>Scientific French or German</td>
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**Second Year**

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<tr>
<td>Drafting</td>
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<tr>
<td>Municipal and Railway Engineering</td>
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<td>Stresses and Strains</td>
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<td>Logic</td>
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<td>Applied Heat and Electricity</td>
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<td>Integral Calculus</td>
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<td>Solid Analytic Geometry</td>
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<tr>
<td>Method of Least Squares</td>
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**Third Year**

| Subject                        | 2              | 2               |
| English Prose                  |                |                 |
| Morphology of the Vertebrata   | 6              | 6               |
| Electives                      | 7              | 7               |

**Fourth Year**

| Subject                        | 2              | 2               |
|English Prose                   |                |                 |
| Morphology of the Invertebrata | 6              | 6               |
| Geology                        | 2              |                 |
| Political Economy              | 3              | 3               |
| Descriptive Astronomy          | 2              |                 |
| Electives                      | 3              | 3               |
MEDICAL PREPARATORY COURSE.

The Course in Biology, as above outlined, offers special opportunities for students who intend later to pursue a medical course. Attention is directed to the course of the third year, which has been especially framed for the advantage of such students.

THE BIOLOGICAL LABORATORY.

The Biological Laboratory is equipped with a supply of both compound and simple microscopes, as well as with microtomes, and all reagents necessary for morphological work, while the more important text-books and morphological journals are in its library. It is also provided with a very complete equipment of bacteriological apparatus, as well as with complete sets of some of the more important bacteriological periodicals.

The Laboratory is thus able to offer facilities to special students, who may desire to carry on advanced studies or pursue special lines of investigation in animal morphology or bacteriology.

GEOLoGY.

PROFESSOR MCMURRICH.

Instruction in Geology is given during the senior year, attention being directed principally to Dynamical and Historical Geology. LeConte’s Elements of Geology will serve as a textbook. [First Semester, Mon., Fri., 10.30]

CIVIL ENGINEERING.

PROFESSOR BALDWIN.

The course of study leading to the degree of Bachelor of Science in Civil Engineering covers a period of four years, and is given in outline on page 29.

THE DEPARTMENTS OF INSTRUCTION.

The instruction in engineering studies is given by means of models, lectures, recitations, practice in field-work, drafting, and visits to works of engineering interest; the special aim being to give the student not only a sound knowledge of general principles, but also a clear perception of their relation to practical problems.

FIRST YEAR.

FREE-HAND DRAWING.—The aim of this course is to give the student some practice in free-hand mechanical drawing. [Mon., 9.30.]

SECOND YEAR.

LAND SURVEYING AND TOPOGRAPHY (Johnson). This course includes a study of the methods of land, hydrographic, mining, and city surveying; with practice in the computation of earthwork, and in the use of the Slide-rule, Planimeter, Compass, Transit, Level, Plane-table, Solar Compass, and Sextant. [Tues., Thurs., 9.30, Wed., 8.30, First Semester.]

RAILROAD SURVEYING (Sealtles, Wellington). This course includes a study of the methods of making preliminary surveys, locations, and estimates, with field practice in location and cross-sectioning, and practice in platting maps and turnouts. [Tues., Thurs., 9.30, Wed., 8.30, Second Semester.]

ARCHITECTURAL DRAFTING.—The object of this course is to give the student a knowledge of the “Five Orders,” and of the elementary principles of architectural design, together with practice in lettering, tracing, and blue-printing. [Fri., 9.30.]

THIRD YEAR.


RAILWAY ENGINEERING.—Masonry and Foundations (Baker); The Economic Theory of Location of Railways (Wellington). The student also makes Laboratory tests of the strength of cements and mortars. [Mon., Fri., 8.30, First Semester.]

MUNICIPAL ENGINEERING.—This course consists of a series of lectures on City Surveying, the Construction of Streets, and Sanitary Engineering. [Fri., 8.30, Second Semester.]
DRAFTING.—Lectures on Topography, Shades and Shadows, Perspective, and Stereotomy. The student is required to present for criticism a finished drawing of the subject-matter of each lecture at the succeeding class exercise. [Tues., Thurs., 9.30, Wed., 8.30.]

FOURTH YEAR.


PRIME MOVERS.—Books of reference: Cotterill's Steam Engine; Peabody's Thermodynamics of the Steam Engine; Whitham's Steam Engine Design; Zeuner's Treatise on Valve-Gears. [Mon., Tues., Thurs., Fri., 11.30, Second Semester.]


MACHINE DESIGN.—Lectures. [Tues., Thurs., 10.30, Second Semester.]

STRUCTURES.—This course comprises the study both analytically and graphically of the Continuous Girder, Arch, Cantilever, and Suspension Bridge. (Eddy, Greene.) [Mon., Fri., 8.30.]

DRAFTING.—This course consists of the drawing of Structural Designs, Valve Diagrams, and Map Projections. [Wed., 11.30.]

EQUIPMENT.

The department has a well-lighted drafting room furnished with convenient drafting tables, a cement-testing laboratory, provided with the most approved appliances, including a Riehle machine of 2,000 pounds capacity, and a room provided with an outfit for making prints of drawings. The instrumental equipment includes a full set of engineering field instruments of the finest construction, drafting instruments, slide rules, and models of masonry structures.

The working library of the department contains a growing collection of standard works of reference, files of technical periodicals, construction drawings, and maps.
Samuel Greenfield, B. L.
Rabid, 354 Westerly Ave., Allegheny, Pa., 1892.

George Daniel Harper, B. L.

Samuel Geo. Heckmann, B. A.
Student in the Yale Divinity School, New Haven, Conn., 1891.

Charles Judson Herrick, (Biol.) B. S.
Professor of Natural Science, Ottawa University, Ottawa, Kans., 1892.

Samuel Hirsberg, B. L.
Rabbi, 56 West Wayne St., Fort Wayne, Ind., 1901.

Israel Joseph, B. A.
Rabbi, Wilkesbarre, Pa., 1891.

Margaret Elinor Layman, B. A.
Teacher in Woodward High School, 1892. Res. 41 Crown St., Walnut Hills.

Alexander Lyons, B. L.
Rabbi, Tere Haute, Ind., 1901.

Irving McAvo, C. E.
Engineer, Owensboro, Falls of Rough and Green River RR., 1892. Res. Horse Branch, Ky.

Alice Emily Murray-Howard, B. L.
Hawthorne Ave., Price Hill.

Nellie Passel, B. L.

Islam Pichel, R. L.
Reporter on the Staff of the Cincinnati Enquirer, 1892. Res. 125 W. Seventh Street.

Charles Aaron Rubenstein, B. L.
Rabbi, Litte Rock, Ark., 1891.

Alice May Schoff, B. L.
Ph. M., University of Michigan, 1892. 59 Locust St., Cin.

Howard Andrews Sutton, B. L.

William Robert Todd, B. A.

Charles Henry Turner, (Biol.) B. S.
M. S., Univ. of Cin., 1892. Assistant in Biology in same, 1892-1893; Professor of Natural Science in Clark Univ., South Atlanta, Ga., 1893.

Bruce Stevens Weeks, B. A.

Everett Irving Yowell, C. E.
M. S., Univ. of Cin., 1892. Instructor in Mathematics and Asst. Librarian, Univ. of Cin., 1891. Res. Mt. Lookout.

1892.

Clement Aubrey Barbour, B. A.
Student, Cinc. Law School, 1892. Res. 225 E. Sixth St., Newport, Ky.

Daniel Brownelee, B. A.
Student in the Western Theological Seminary, Allegheny City, Pa., 1892.

Frederick Theophilus Des Bisay, B. A.

Hulio Fowler, C. E.
Assistant Engineer, Altamont and Manchester RR., Altamont, Ky., 1893.

Leo Morris Franklin, B. L.
Rabbi, 2528 Harney St., Omaha, Neb., 1892.

Abram Gideon, B. S.
Graduate Student, Univ. of Cin. Res. 5 South Auburn Ave., Mt. Auburn.

Esther Kleinen Hagen, B. S.
Private Teacher. Res. 260 Richmond St.

Daniel Young Hayden, B. L.
Graduate Student, Univ. of Cin. Res. Pleasant Ridge, O.

Anne Hastings King, B. L.
Graduate Student, Univ. of Cin. Res. 58 Morris Place.

Jennie Mannheimer, B. L.

Estella May Riley, B. L.
Student in the Woman’s Medical College, 1902. Res. 125 W. Seventh St.

Frank Williamson Stevenson, B. L.

Joseph Baerlein Strauss, C. E.
Draughtsmen with the New Jersey Steel and Iron Co., Trenton, N. J., 1902-1904. Res. 500 W. Ninth St., Cin.

William Mayo Venable, (Phys.) B. S.
M. S., Univ. of Cin., 1902. Electrical Engineer, 154 W. Fifth St., 1895. Res. Tuscaloosa.

1893.

George Burnham Beaman, B. A.
Student of Philology, University of Jena, Germany, 1893.

William Arnold Christian, C. E.
Engineer in the office of the U. S. Engineer at Carrolton, Ky., 1903. Res. 306 Kemper Lane, Walnut Hills.

Emile Esselborn, B. L.
Portsmouth, O.

Charles Fleischer, B. L.

Aaron Friedman, B. L.
Rabbi, 350 Fifth Ave., Minneapolis, 1893.

Julius Fryer, B. L.
Rabbi, Meridian, Miss., 1893.

John Bruce Hayden, C. E.
Res. Cor. John and Hopkins Sts.

Lewis William Hoffman, B. L.

Phillips Isham, (Astron.) B. S.
Assistant at the Observatory of the University of Cincinnati, 1893. Res. Mt. Lookout.

Emma Britomarte Kinney, B. L.
Res. 4 Morris St., Walnut Hills.

William Gustav Langenheim, C. E.
Res. 50 Orchard St.

Elliot Burt Palmer, (Biol.) B. S.
Student of Medicine, Univ. of Cin. (Med. Col. of Ohio), 1893. Res. 208 W. Seventh St.

James Francis Chalfant Robinson, B. L.
Principal of the High School, Napoleon, O., 1893.

Marcus Salzman, B. A.
Rabbi, Charleston, W. Virginia, 1893.

Michael Gabriel Solomon, B. L.
Rabbi, Youngstown, O., 1893.

Charles Henry Williamson, (Biol) B. S.
Student of Medicine, Univ. of Cin. (Med. Col. of Ohio), 1893. Res. 118 Front St., Newport, Ky.

ALUMNAL ASSOCIATION.

Oscar W. Kuhm, ’86. President.
Henry W. Bettmann, ’88. Vice-President.
William O. Mussey, ’89. Recording Secretary.
Margaret E. Layman, ’91. Corresponding Secretary.
## Hours of Lectures

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
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<td>II. Mathematics (B. S.)</td>
<td>III. Elem. Biology (2d Sem.)</td>
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<td>IV. Psychology (IV R. A.)</td>
<td>II. Descriptive Geometry</td>
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<td>III. Manic. and R. R. Eng.</td>
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<td>IV. Structures</td>
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<td>II. Political Economy</td>
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<td>III. Differential Calculus</td>
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<td>III. Solid Anal. Geom. (2d Sem.)</td>
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<td>III. Latin, Course A</td>
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<td>10:30</td>
<td>IV. Geography (1st Sem.)</td>
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<td>IV. Mineral Design (1st Sem.)</td>
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<td>IV. Astronomy (2d Sem.)</td>
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<td>II. Physics (B. S., B. L.)</td>
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<td>III. Method of Least Squares (2d</td>
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<td>IV. Dynamics and Hydraulics</td>
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<td>I. Inorganic Chemistry (1st</td>
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<td>II. Organic Chemistry (2d Sem.)</td>
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*The figure before a subject indicates the year of the Course in which it is taken.

Laboratory Work in Physics, Chemistry, and Biology.

*The figure after a subject indicates the number of recitations a week.