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University of Cincinnati

CATALOGUE

OF THE

Academic Department

1894-95

CINCINNATI, OHIO:
PUBLISHED BY THE UNIVERSITY OF CINCINNATI.
1895
THOMAS HÉRIBERT NORTON, PH. D., PROFESSOR OF CHEMISTRY,
Lorraine and Brookline Avenues, Clifton.
A. B., Hamilton College, N. Y., 1871; Student in the Universities of Heidelberg, Berlin, and Paris, 1872-78; A. M. and Ph. D., University of Heidelberg, 1875; Assistant in the Chemical Laboratory of the University of Berlin, 1876-77; Research Chemist and Superintendent of Manufacture Compagnie Générale des Curnes, Paris, 1878-85; Professor of Chemistry, University of Cincinnati, 1885.

JERMAINE GILDERSLEEVE PORTER, PH. D., DIRECTOR OF THE OBSERVATORY AND PROFESSOR OF ASTRONOMY,
Station C.
A. B., Hamilton College, N. Y., 1871; A. M., Hamilton College, 1874; Ph. D., Hamilton College, 1880; Assistant Professor of Astronomy, Hamilton College, 1875-78; Computer in the U. S. Coast and Geodetic Survey, 1878-81; Astronomer at the Observatory of the University of Cincinnati, 1881.

EDWARD MILES BROWN, PH. D., PROFESSOR OF THE ENGLISH LANGUAGE AND LITERATURE,
Ridgeway Avenue, Avondale.
Ph. B., University of Michigan, 1880; Student at the Universities of Strassburg, Berlin, Halle, Goettingen, 1886-1889; A. M. and Ph. D., Goettingen, 1890; Principal of the High School, Laporte, Ind., 1890-92, and 1894-96; Assistant Professor of English, Cornell University, 1890-94; Professor of Modern Languages, University of Cincinnati, 1890; Professor of the English Language and Literature, University of Cincinnati, 1892.

PHILIP VAN NESS MYERS, LL. D., PROFESSOR OF HISTORY AND POLITICAL ECONOMY,
College Hill.
A. B., Williams College, 1871; A. M., Williams College, 1874; LL. B., Yale University, 1890; LL. D., Belmont College, 1891; LL. D., Miami University, 1891; President of Belmont College, 1890-91; Professor of History and Political Economy, University of Cincinnati, 1891.

WARD BALDWIN, M. S., PROFESSOR OF CIVIL ENGINEERING, AND REGISTRAR,
42 East Auburn Avenue.
C. E., University of Cincinnati, 1870; M. S., University of Cincinnati, 1880; Resident Engineer of Chatterel R. R., 1870; Principal Assistant Engineer, Cincinnati Southern Railway and Associated Roads, 1890-1901; Professor of Civil Engineering, University of Cincinnati, 1901.

CHARLES FREDERICK SEYBOLD, A. B., PROFESSOR OF FRENCH AND GERMAN, AND SECRETARY OF THE FACULTY,
East Ridgeway Avenue, Walnut Hills.
A. B., Harvard University, 1871; LL. B., Cincinnati Law School, 1873; Professor of Languages, Cincinnati Wesleyan College, 1880-82; Assistant Professor of Modern Languages, University of Cincinnati, 1882; Professor of French and German, University of Cincinnati, 1892.
Introductory Statement.

The University of Cincinnati owes its existence to the generosity of Charles McMicken, a native of Pennsylvania, who came to Cincinnati in 1808, accumulated a large fortune, and died here in 1858. By the terms of his will he bequeathed to the city of Cincinnati property worth over $1,000,000, to found an institution of learning in which students should "receive the benefit of a sound, thorough and practical English education, and such as might fit them for the active duties of life, as well as instruction in the higher branches of knowledge, except denominational theology, to the extent that the same are now or may hereafter be taught in any of the secular colleges or universities of the highest grade in the country."

In April, 1870, the General Assembly of Ohio passed an act, "to enable cities of the first class to aid and promote education," under which the city of Cincinnati accepted the bequest of Charles McMicken, and proceeded to establish the University of Cincinnati. Academic instruction was begun in 1873 in the Woodward High School building by the teachers of that school, and the University was formally organized in 1874 by the appointment of a professor of Mathematics and Civil Engineering, a professor of Latin and Greek, and a professor of Physics and Chemistry. During the academic year 1874-5, instruction was given by these professors in the building of the Third Intermediate School on Franklin Street. At the beginning of the year 1875-6, possession was taken of the new building, erected on the grounds of the McMicken homestead, where the institution is still located.

*A large portion of this bequest, consisting of land, valued at nearly $60,000, and located in Louisiana, was taken possession of by the government of that State, which refused to recognize the validity of a bequest of real estate to institutions not situated within its borders.
Baccalaureate Degrees.

The University offers nine groups of studies, each extending over four years, and leading to the following degrees:

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

Graduate Degrees.

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

1. He shall have received the corresponding baccalaureate degree.

   Note.—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 that are satisfactory to the Faculty.

2. He shall have pursued at this University, for not less than one year, a course of study embracing one major and one or more minor subjects, under the direction of the Faculty.

3. 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; *

   Note.—No candidate will be accepted in English whose work is notably deficient in point of spelling, punctuation, idiom, or division into paragraphs.

1. Reading and Practice.—A limited number of books will be set for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter, and to answer simple questions on the lives of the authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may be allowed to present an exercise book, properly certified by his instructor, containing compositions or other written work done in connection with the reading of the books.

   The books set for this part of the examination will be:

   1805: Shakspere's Twelfth Night; The Sir Roger de Coverley Papers in The Spectator; Irving's Sketch Book; Scott's Abbot; Webster's First Bunker Hill Oration; Macaulay's Essay on Milton; Longfellow's Evangeline.

   1806: Shakspere's Midsummer Night's Dream; Defoe's History of the Plague in London; Irving's Tales of a Traveller; Scott's Woodstock; Macaulay's Essay on Milton; Longfellow's Evangeline; George Eliot's Silas Marner.
GROUP IN CIVIL ENGINEERING.

FRESHMAN YEAR.

SEE PAGE 22.

SOPHOMORE YEAR. Hours per week each Semester.

Course. I. II.

Engineering, 2, 3, and 4. 4 4

English, 2 1 1

Physics, 2 and 3. 4 4

Mathematics, 3 and 4. 7 7

JUNIOR YEAR.

Engineering, 5, 6, and 7. 9 8

Physics, 4 2 2

Mathematics, 8 and 9. 2 3

Electives, 1 1

SENIOR YEAR.

Engineering, 8, 9, 10, and 11. 7 7

Mathematics, 11 2 2

Electives, 5 5

Preparation of thesis for graduation.

GROUP IN ASTRONOMY.

FRESHMAN YEAR.

(SEE PAGE 22.)

SOPHOMORE YEAR. Hours per week each Semester.

Course. I. II.

Engineering, 2 and 3. 3 3

English, 2 1 1

Physics, 2 3 3

Mathematics, 3 and 4. 7 7

French, 3 1 1

German, 3 1 1

JUNIOR YEAR.

Mathematics, 8 and 9, 1 2 3

Astronomy, 6 6

Electives, 6 5

SENIOR YEAR.

Mathematics, 11 and 14. 4 4

Geology, 2 2

Astronomy, 2 6 6

Electives, 2 4

Preparation of thesis for graduation.

THE JONES PRIZE.

This Prize, founded in 1893, by Frank J. Jones, and consisting of forty dollars, is awarded to that member of the Senior Class who shall write and pronounce an English oration in the best manner. The subjects are chosen by the Dean of the Faculty, and the Chairman of the Board of Directors. A committee, consisting of three citizens of Cincinnati, shall be appointed by the Chairman of the Board of Directors to award the prize.
CIVIL ENGINEERING.

THE THOMPSON CHAIR OF CIVIL ENGINEERING.

PROFESSOR BALDWIN AND INSTRUCTOR STRAUSS.

The group of studies, leading to the degree of bachelor of Science in Civil Engineering, is given in outline on page 26.

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.

The following courses are given in this department:

1. FREE-HAND DRAWING.—The aim of this course is to acquaint the student with correct methods of sketching, both in designing and in drawing from objects. [Mon., 9.30.]

2. LAND SURVEYING AND TOPOGRAPHY.—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 (Johnson). [Tues., Thurs., 9.30; Wed., 8.30, First Semester.]

3. RAILROAD SURVEYING.—This course includes a study of the methods of making preliminary surveys, locations, and esti-
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 Riché 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.

ASTRONOMY.

CINCINNATI OBSERVATORY.

PROFESSOR PORTER AND ASSISTANT ISHAM.

The Observatory of the University of Cincinnati is located at Mount Lookout, six miles north-east of the center of the city. The grounds comprise four acres on the summit of the hill. The building is of brick. In the center rises the massive masonry pier, which supports the great equatorial of eleven inches aperture and sixteen feet focal length. It is protected by a new iron dome, which can be revolved with great rapidity and ease. The shutter is operated by an endless rope, the opening in the dome being four feet in width, and extending from the horizon to the zenith.

In the western wing is placed the new meridian circle by Fauth & Co. This instrument has an aperture of five inches and a focal length of seventy inches, and is supplied with all modern improvements. The circle is divided to five minutes of arc, and read by four microscopes to single seconds. The sidereal clock, by Molyneux, is also in this wing. The eastern wing is used as a library and computing room. The Observatory possesses also a four-inch equatorial, by Clark, a sidereal chronometer and chronograph, by Bond, and a mean-time clock, by Ritchie. The library contains about 2,000 volumes, including most of the star catalogues, and many valuable works of reference.

The scientific activity of the Observatory has been uninterrupted since its removal, in 1873, to the present site. During this period twelve numbers of the regular publication have been issued, containing over one thousand pages of astronomical observation and research. In addition, numerous memoirs are published every year in the astronomical journals. For some years special prominence has been given to stellar astronomy, and many important discoveries have been made in this field. The meridian circle has been chiefly employed in this work and in the determination of the solar parallax. Observations of planets, comets, nebulae, double stars, occultations, and eclipses have been made with the equatorial.

INSTRUCTION.

The group of studies leading to the degree of Bachelor of Science in Astronomy, is given in outline on page 27.

In addition to the regular scientific work, the Observatory is organized with a view of providing a practical course of training for students of the University wishing to make a specialty of Astronomy. Those taking this group of studies are expected to be thoroughly prepared in mathematics before commencing the special astronomical studies of the third and fourth years. During these two years students will spend a portion of their time at the Observatory.

1. SPHERICAL ASTROLOGY.—This includes the Method of Interpolation, Definite Integrals, the Method of Least Squares, also the theory and use of astronomical instruments. (Chauvenet’s Spherical and Practical Astronomy, Brünnnow’s Spherical Astronomy.) [Six times a week.]
1892.

Clement Aubrey Barbour, . B. A.

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

Frederick Theophilus Deshazy, B. A.

Harold Fowler, . C. E.
Assistant Engineer, Altamont and Manchester RR., Altamont, Ill., 1892.

Leo Morris Franklin, . B. L.
Rabbi, 712 Dodge St., Omaha, 1892.

Abram Gideon, . B. L.
Student of Philosophy, University of Marburg, Germany, 1891.

Esther Kleiner Hingen, . B. S.
Private Teacher. Res. 206 Richmond St.

Daniel Young Hayden, B. L.
M. L., Univ. of C., 1891. Teacher, Thayer, Ind., 1892.

Amie Hastings King, . B. L.
Teacher in the Public Schools, 1894. Res. 406 Morris Place.

Heinrich Mannheimer, . B. L.

Estella May Riley, . B. L.
Student in the Women's Medical College of the Presbyterian Church, 1892. Res. 162 W. Seventh St.

Frank Williamson Stevenson, B. L.

Joseph Baierman Strous, . C. E.
Instructor in Civil Engineering, Univ. of C., 1894. Res. 380 W. Ninth St.

William Mayo Venable, (Phys) B. S.
M. S., Univ. of C., 1891. Electrical Engineer, 120 W. Fifith St., 1892. Res. Tuscumbia.

George Burnham Beaman, . B. A.
Student of Philosophy, University of Tübingen, Germany, 1891.

1893.

William Arnold Christian, . C. E.
Engineer in the office of the U. S. Engineer, Cincinnati. Res. 86 Kemper Lane, Walnut Hills.

Betulie Essethorn, . B. L.
Graduate Student, Univ. of C., 1892. Res. Portland, O.

Charles Fleischer, . B. L.
Rabbi, 38 St. Botolph St., Boston, 1891.

Aaron Friedman, . B. L.
Rabbi, 707 Third Ave., Minneapolis, Minn., 1892.

Julius Fryer, . B. L.
Rabbi, Meridian, Miss., 1890.

John Bruce Hayden, . C. E.
Draughtsman with the King Bridge Co., Cleveland, O., 1891.

Lewis William Hoffman, . B. L.

Phillips Isham, . (Astron.) B. S.
Assistant at the observatory of the University of Cincinnati, 1891. Res. Mt. Lookout.

Emma Brittona Kinsey, . B. L.
Res. Hyde Park, Cincinnati.

William Gustav Langenheim, C. E.
Asst. Engineer with the New Jersey Steel and Iron Co., Trenton, New Jersey, 1891.

Elliot Burton Palmer, . (Biol.) B. S.
Student of Medicine, Med. Col. of Ohio, 1892. Res. Main and Forest Avenues, Avondale.

James Francis Chalfant Robinson, B. L.
Principal of the High School, Napoleon, Ohio, 1892.

Marcus Salmon, . B. A.
Rabbi, Charlestown, W. Va., 1893.

Michael Gabriel Solomon, . B. L.
Rabbi, Youngstown, O., 1890.

Charles Henry Williamson, . (Biol.) B. S.
Student of Medicine, Med. Col. of Ohio, 1892. Res. 14 Front Street, Newport, Ky.

1894.

Paul Victor Christopher Burr, B. L.
Student of Engineering, University of Tübingen, Germany, 1891.

Louis Edward Bogen, . C. E.
Instructor in Physics, Univ. of C., 1893. Res. 85 Kemper Ave., Walnut Hills.

Frank Sumford Brown, . B. L.
Student in the Law School, 1891. Res. 17 McCormick Place, Mt. Auburn.

Frederick Cohn, . B. A.
Graduate Student, Univ. of C., 1894. Res. 206 Richmond Street.

Harry William Cutliff, . B. L.
Instructor in German and English, Univ. of C., 1891. Res. 1159 Vine St.

Mary Louise D'Incro, . B. L.
Asst. Librarian, Univ. of C., 1894. Res. Grand and Murrick Avenues, Price Hill.

Alma Beatrix Dierens, . B. L.
2711 Price Avenue, Price Hill.

Alma Sophia Fick, . B. L.
Teacher in the Agassiz School, 1891. Res. 253 E. Chicago Avenue, Chicago.

Bennett Grad, . B. A.
Rabbi, Harrisburg, Pa., 1891.

Berth Rankin Halie, . (Chem.) B. S.

Philip Hiltzkowitz, . (Biol.) B. S.

William Rice Kemper, . B. A.
Grandview Avenue, Walnut Hills.

Lucy Myers Lambdin, . B. L.
Graduate Student, Univ. of C., 1891. Res. 31 Crown St, Walnut Hills.

Daniel Laurence, . (Biol.) B. S.

Maria Adelaide McReynolds, B. A.
Teacher of Classics and Mathematics at Willard Hall, College Hill, 1891. Res. 30 Clifton Street.

Isaac Edward Marcusson, . B. L.
Rabbi, Mazon, Ga., 1894.

David Marx, . B. L.
B. A., Birmingham, Ala., 1894.

Willard Stones Matta, . B. L.
2 Crescent Place, Walnut Hills.

Mary Sally Miles, . (Biol.) B. S.
Graduate Student, Univ. of C., 1894. Res. 30 Clinton Street.

Jesuless Mose, . B. A.
Rabbi, Port Gibson, Miss., 1894.

Alfred Kunip Nipnert, . B. L.
Student, Cil. Law School, 1891. Res. 14 Front Street.

Jane Sartokis O'Hara, . B. L.
572 West Seventh Street.
## Hours of Lectures and Recitations.

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**Notes:** The numerals refer to the courses enumerated in the Department of Instruction, pages 28-54.