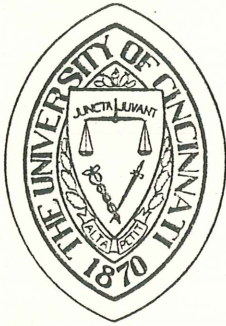


p. 74

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CATALOGUE 1909-1910

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in *Elementary Meteorology*; and *Physiography of the United States* (10 National Geographic Monographs), are recommended as suitable texts.

One unit. For a sufficiently thorough and extended knowledge of the subject, and at the option of the examiner, a credit of one unit may be given. Examinations for one unit's credit assumes a knowledge of the larger text-books, a greater familiarity with laboratory exercises, and such a knowledge of the United States as will enable the candidate readily to cite illustrations of all topographic forms.

ASTRONOMY.

One-half unit. The student should be familiar with:

(a.) Such fundamental notions and definitions as are necessary to locate celestial bodies.

(b.) The names and positions of the most conspicuous stars and constellations and be able to trace the positions of the ecliptic across the sky at certain times during the year.

(c.) The most important facts concerning the form, dimensions, mass, density, rotation and orbital motion of the earth, including seasons, tides, eclipses, and other dependent phenomena; also methods for determining the mass of the earth.

(d.) The essentials concerning the sun, moon, and planets, including methods for determining their respective distances, motions, etc.

(e.) The various hypotheses of the stellar universe and cosmogony.

Every student should visit a well-equipped observatory at least twice, once during the day to examine the apparatus, and once at night to view the heavens.

GEOLOGY.

One-half unit. The scope here intended is that of the text-books appropriate to high schools and preparatory schools, and includes the elements of dynamic, structural, and historical geology. The applicant must be able to distinguish specimens of the more general types of igneous and sedimentary rocks; also to classify in a general way the more common fossils and state the most general facts concerning their place in geological history. Examinations will also involve the interpretation of geologic maps. Laboratory exercises may be given, requiring the interpretations of such diagrams and views as are used for text-book illustration.

A knowledge of Physical Geography is required of all candidates in Geology. Norton's *Elements of Geology*, and Brigham's *Text of Geology*, are suitable texts.

19b. The English and Scottish Popular Ballads.—A study of the characteristics of folk-poetry and of the origin and development of the popular ballad. *Second semester*, T., Th., 9:30-10:30. Associate Professor Miller.

FOR GRADUATES ONLY.

20. English Seminary.—*Beowulf*. W., 3:00-5:00, and hours for conference on other subjects by appointment. Professor Krapp.

FOR TEACHERS.

21. Nineteenth Century Poetry.—S., 9:30-10:30.

Omitted in 1909-10. Dr. Smith.

See also English 1, Sec. VI; English 2, Sec. IV; English 9; English 10; English 20.

GEOLOGY AND GEOGRAPHY.

Professor Fenneman and Mr. Carman.

The Department of Geology and Geography occupies the fourth floor of McMicken Hall, except a part of the space used for a museum of zoology and geology. A general laboratory is used for work with maps and fossils and for work with hand specimens of rocks and minerals, with only such apparatus and reagents as may be carried in the field. A laboratory for determinative mineralogy and another for microscopic petrography of the most modern type are equipped with appliances and instruments.

A seminar room contains the departmental library and current geologic and geographic periodicals, together with all reference maps, topographic, geologic, and geographic, belonging to the department. Graduate students may be allowed private desks in the petrographic laboratory, which communicates with the seminar room. A lecture room, seating thirty-six students, is equipped with a stereopticon of the highest grade and with the customary models and illustrative material.

FOR UNDERGRADUATES.

*1. Physiography.—During the first semester this course is identical with Course 2 (General Geology), embracing a full treatment of the origin and classification of topographic forms. The second semester's work embraces the Atmosphere, the Ocean, and a study of the United States by physiographic provinces. Open to all above freshman year. Lectures, M., W., F., 11:30-12:30; laboratory, T., Th., 2:00-4:00 (or, by special agreement, 10:30-12:30). Professor Fenneman.

*2. General Geology.—First semester, dynamic, structural, and physiographic geology, being identical with Course 1; second

*Students who have already obtained credit for less than five hours in Physiography or General Geology may register for less than five hours' work in Course 1 or 2.

semester, elementary historical and economic geology. By special agreement Course 5b (Field Geology) may be taken in connection with this course, being substituted for the laboratory work of the second semester. Open to all above freshman year. Lectures, M., W., F., 10:30-11:30; laboratory, T., Th., 10:30-12:30 (or, by special agreement, 2:00-4:00). Professor Fenneman.

4. Introduction to Rocks and Fossils.—Primarily for those who wish to take Geology as a second science and who find it impossible to take the five-hour course in General Geology or Physiography. This course is also open, as the first course in Paleontology, to those who have had Course 1 or 2. T., Th., S., 8:30-9:30. Mr. Carman.

FOR UNDERGRADUATES AND GRADUATES

5b. Field Geology and Survey Methods.—The study and mapping of assigned areas in the vicinity of Cincinnati. Students work singly or in parties of two, and submit typewritten reports with topographic and geologic maps. This course is open to those who have had Course 2 and may be taken in connection with the second half of that course. *Second semester.* Three hours credit. Hours to be arranged by agreement with each party. Mr. Carman.

**6a. Crystallography.—First half semester, a study of geometrical forms with laboratory study of crystal models; second half semester, optical principles with microscopic examination of crystals cut in definite orientation. *First semester,* T., Th., S., 8:30-9:30. Professor Fenneman.

**7b. Mineralogy.—System of classification of minerals; laboratory study of specimens of all the more common species; determinative mineralogy and blow-pipe analysis. This course is intended to follow Course 6a, which is prerequisite. *Second semester,* T., Th., S., 8:30-9:30. Professor Fenneman.

12. Petrology.—A study of rocks with reference to their mineral constitution, chemical composition, structure, origin, and classification. The microscopic study of thin sections is united with study of the corresponding hand specimens and of chemical composition when good analyses are available. Course 7b is prerequisite. T., Th., S., 9:30-10:30. Professor Fenneman.

9a. Historical Geology.—The rock formations of each geologic period, chiefly in North America, studied in historical order; their description, geographic distribution, and explanation; physical conditions and events attending the formation of each as known from its character and fossils; life development and faunal migrations. Course 2 is prerequisite. *First semester,* M., T., W., Th., F., 9:30-10:30. Mr. Carman.

10. Paleontology.—The work of 1909-10 is a continuation of that given in 1908-09. Open to those who have had the work of the preceding year. Those desiring to begin Paleontology should enter Course 4. T., Th., S., 8:30-9:30. Mr. Carman.

**Course 2 is not prerequisite to Courses 6a and 7b, but these are not accepted as graduate courses for students making a major, unless Course 2 or its equivalent has been taken.

FOR TEACHERS.

3. Geography for Teachers.—For the year 1909-10 this course embraces the general principles of physical geography. It is given largely by lecture, with frequent use of lantern views. Readings and tests will be required of all who desire University credit. T., 4:00-5:00. Professor Fenneman.

GERMAN.

*Professor Poll, Assistant Professor Lotspeich, Miss Schrader, Dr. Bloomfield, Miss Andriessen.

FOR UNDERGRADUATES.

1. Elementary German.—Grammar, translation from German into English, and elementary exercises in translating into German. Sec. I, T., Th., S., 8:30-9:30; Sec. II, M., W., F., 11:30-12:30. Assistant Professor Lotspeich and Miss Schrader.

2. German Prose and Poetry.—Reading at sight, grammar, composition and dictation. Sec. I, M., W., F., 8:30-9:30; Sec. II, M., W., F., 9:30-10:30. Miss Schrader and Dr. Bloomfield. Course 2 is open to students who have passed in Course 1.

40. Scientific German.—Rapid reading. T., Th., 11:30-12:30. Dr. Bloomfield.

Course 40 is open to students who have passed in German 1.

3. German Composition (Beginners' Course).—German grammar, conversation, and practice in writing German. T., Th., 10:30-11:30. Dr. Bloomfield.

Course 3 is open to students who have passed in Course 1. Courses 2 and 3 may be advantageously taken together.

**4. Introduction to German Literature of the Eighteenth Century.—Lessing's *Emilia Galotti*; Schiller's *Jungfrau von Orleans* and *Maria Stuart*; Goethe's *Iphigenie*, *Egmont*, *Tasso* and *Goetz von Berlichingen*. Translation and reading at sight. Practice in writing German, based on the reading. This course is conducted mainly in German. Sec. I, M., W., F., 9:30-10:30; Sec. II, M., W., F., 10:30-11:30.

Assistant Professor Lotspeich, Miss Schrader, and Miss Andriessen.

Course 4 is open to students who have passed in Course 2. Students in this course are urged to take a composition course in addition.

21. German Composition (Intermediate Course).—Practice in composition, conversation and in writing German. T., Th., 9:30-10:30. Miss Schrader.

Courses 4 and 21 may be advantageously taken together.

*Absent on leave in Europe, 1909-1910.

**Students entering the University, who have done advanced work in German, may anticipate this course by passing an examination on the work as outlined above, within three weeks after matriculation.