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GEOLOGY AND GEOGRAPHY

NEVIN M. FENNEMAN, PH. D., Professor of Geology and Geography.
 J. ERNEST CARMAN, B. S., . . . Assistant Professor of Geology.
 WALTER H. BUCHER, Ph. D., Instructor in Geology.

For Undergraduates

1. An introductory study of minerals and rocks, dynamic geology, origin and classification of topographic forms, atmosphere and ocean; followed by a brief study of the physiography of the United States. Lectures, M., W., F., 8:30-9:30; Laboratory, M., W., 2:00-4:30; T., Th., 9:30-12:00; T., Th., 2:00-4:30; T., Th., 1:00-3:30.

Professor Fenneman and Dr. Bucher.

2. General Geology.—This course is primarily for co-operative engineering students, but Liberal Arts students will also be admitted. An introductory study of minerals and rocks, dynamic geology and topography, followed in the second semester by stratigraphic, structural, and economic geology. M., T., 9:30-10:30; W., 9:30-11:30.

Assistant Professor Carman.

9. Historical Geology.—Chiefly the geology of North America, its physical history, life development and structure; special attention given to the economic deposits of each period. Frequent local (half-day) excursions noting fossils, stratigraphy, physiography, and economic relations. Lectures, T., Th., 8:30-9:30; Laboratory, M., 2:00-4:30. Course 1 is prerequisite.

Assistant Professor Carman.

Geology 9 is accepted as graduate work by agreement with the professor in charge.

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. *Second semester.* Hours to be arranged by agreement with each party. Credit according to number of hours elected. Course 1 is prerequisite.

Assistant Professor Carman.

*7. Mineralogy.—This course embraces (1) geometrical study of crystal forms illustrated by wooden models; (2) description and classification of minerals, about 400 species being used in laboratory study; (3) determinative mineralogy and blowpipe analysis. M., 9:00-10:30; W., 8:30-11:30.

Dr. Bucher.

* Course 1 is not prerequisite to Course 7, but the latter is not accepted as a graduate course for students making Geology a major, unless Course 1 or its equivalent has been taken.

[8. Introductory Paleontology.] The work of this course is mainly with fossil invertebrates, their specific features, the age of the rocks which contain them, their migrations and association in societies. Recognition at sight is emphasized. Three hours, to be announced. Assistant Professor Carman.

Omitted in 1913-14.

[12. Petrology.] This course embraces (1) the optical principles of mineralogy; (2) the microscopic study of minerals in rock sections; (3) a systematic study of rocks, their constitution, structure, origin, and classification. Two or three hours, to be announced.

Course 7 is prerequisite.

Omitted in 1913-14.

13. Special Work in Geology.—Any student in this department may, by agreement with the instructors in charge, register for individual study or investigation not described in the list of courses. Such work must be regularly supervised and approved upon examination or by the preparation of a thesis. Credit according to number of hours elected.

14. Course 14 is outlined under the heading "For Teachers." Open to college students only by special agreement with the professor in charge.

16. Course 16 is outlined under the heading "For Teachers."

For Teachers

14. General Geology for Teachers.—Elements of dynamic, structural, and physiographic geology, being identical with the corresponding parts of Course 1. Lecture, S., 8:30-10:30. Field or Laboratory, 10:30-12:50. Professor Fenneman.

16. Advanced Physiography of the United States.—Course 1 (or Course 14) and Course 9 are prerequisite. Lecture, W., 4:00-6:00; S., 10:30-11:30. Professor Fenneman.

Course 16 runs through more than one year, but may be entered at the beginning of any semester.

Course 9 is also given to teachers who have had Course 14. Lecture, S., 8:30-10:30; Field or Laboratory, 10:30-12:50.

Assistant Professor Carman.

Evening Course

18. Elementary Geology.—Equivalent to the first half of Course 1, but treating certain subjects more fully. Lecture, T., 7:30-9:30; laboratory, Th., 7:30-9:30. Assistant Professor Carman.