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UNIVERSITY OF CINCINNATI BULLETIN

ANNOUNCEMENT OF THE

Graduate School of Arts and Sciences



1945-1946

PUBLISHED BY THE UNIVERSITY OF CINCINNATI
VAN WORMER ADMINISTRATION BUILDING
CINCINNATI 21, OHIO

of the page

For Graduate and Advanced Undergraduate Students

101. Principles of Design in the Decorative Arts.—M., W., 11:30-12:30 at the Art Museum. Two credit hours each semester. Mr. Siple

The development of furniture, textiles, and period styles from the Gothic to the present time. Attention is devoted to function and material and their effect on design.

120. The Potting of Greek Vases.—Two hours a week. Two credit hours each semester. Mr. Nash

Experiments inquiring into materials and methods used by Greek potters in the production of their painted vases.

GEOLOGY AND GEOGRAPHY

Head of Department: Professor J. L. Rich, Room 29, Old Tech Building

Professor Emeritus Fenneman; Professors Barbour, Case; Associate Professors von Schlichten, Bergsmark; Assistant Professor Caster†; Instructors Russell‡, Linehan

This Department offers work in geology leading to the degrees of Master of Arts, Master of Science, and Doctor of Philosophy, and work in geography leading to the degree of Master of Arts.

Not all students admitted to graduate courses are accepted as candidates for degrees. Personal acquaintance and preliminary examinations must first determine their aptitude for self-directed effort. With an adequate basis of undergraduate study it may be possible to finish the work for a master's degree in one year, but the requirement cannot be stated in terms of time or credits.

The thesis required for the master's degree may represent either original research or a compilation and analysis of the literature on the chosen subject, of such a nature as to demonstrate the student's ability to sum up existing knowledge and to organize and express it in an approved manner.

For Graduate and Advanced Undergraduate Students

107. Mineralogy.—Tu., Th., 10:30-11:30; M., 1:10-4:00. Lectures and laboratory. Three credit hours each semester. 34 Old Tech. Mr. _____

108. Invertebrate Paleontology.—Tu., Th., 11:30-12:30; F., 1:10-4:00; and one laboratory to be arranged. Lectures, laboratory, and conferences. Four credit hours each semester. 38 Old Tech. Mr. _____

A systematic survey of the important groups of invertebrate fossils with special emphasis on their zoological character and importance as index fossils.

†Absent on leave.

‡Supplementary work is required of graduate students electing these courses.

‡109. Historical Geology.—Tu., Th., 8:30-9:30; S., 8:30-10:30; and one laboratory to be arranged. Four credit hours each semester. 38 Old Tech.

Mr. _____

The development of the earth and its life, with particular emphasis on the geologic history of North America.

‡11b. Principles of Geomorphology.—Tu., Th., 10:30-11:30; F., 1:10-4:00. Three credit hours. 37 Old Tech.

Mr. Rich

The interpretation of landscapes, especially as governed by geologic conditions and climate. Reading of topographic maps and aerial photographs.

118. World Physiography.—Hours to be arranged. Three credit hours each semester.

Mr. Barbour

‡121b, ‡122b, ‡123b. Geologic Demonstration Trips.—Three credit hours.

Mr. Rich

A two-weeks' field excursion, immediately after spring examinations and before summer school; generally in the Appalachian highland. Conferences once a week during the following semester, and the preparation of a comprehensive report to be submitted at the end of the first semester. The three numbers designate different routes followed in successive years.

‡148a. Common Minerals and Rocks.—Tu., Th., 10:30-11:30; Th., 1:10-4:00. Three credit hours. 32 Old Tech.

Mr. _____

Common minerals and rocks and their mode of occurrence. Identification by means of hand lens.

152b. Glacial Geology.—Hours to be arranged. Three credit hours.

Mr. Rich

The principles of glacial geology; field work in the Cincinnati area.

157a. Sedimentation.—Tu., Th., 9:30-10:30; F., 8:30-11:30. Lectures and laboratory. Three credit hours. 34 Old Tech.

Mr. _____

Factors influencing the supply, transportation, and deposition of sediments.

170. Seminar.—Th., 4:10.

Expected of all advanced students in geology and geography.

‡161a. Geography of Latin America.—W., 4:10-6:00, and conferences. Three credit hours. 6 Old Tech.

Mr. Case

The natural regions and political divisions are studied with regard to the social, political, and economic developments as related to geographic conditions.

‡163a. Geography of Europe.—Tu., 4:10-6:00, and conferences. Three credit hours. 6 Old Tech.

Mr. Bergsmark

Geographic aspects of European participation in world affairs and the relation between human life and natural environment in the various geographic regions and countries of Europe.

‡Supplementary work is required of graduate students electing these courses.

164b. Geography of Asia.—Tu., 4:10-6:00, and conferences. Three credit hours. 6 Old Tech. Mr. Bergsmark

Problems and resources of Asia are studied in much the same manner as in the course on Europe.

165a. International Struggle for Raw Materials.—M., W., F., 10:30-11:30. Three credit hours. 26 Old Tech. Mr. Bergsmark

Raw-material pattern of the commercial world; degree of self-sufficiency among nations.

166b. Geography of World Trade.—M., W., F., 10:30-11:30. Three credit hours. 26 Old Tech. Mr. Bergsmark

Principles of international trade; analysis of current trends and problems, especially with regard to the foreign trade of the United States.

167. Economic Geography of the United States and Canada.—Th., 4:10-6:00, and conferences. Three credit hours each semester. 6 Old Tech.

Mr. Case

The natural regions of North America with regard to the present economic development and future possibilities as related to climate, relief, and resources. Students may enter in the second semester.

168b. Political Geography.—W., 4:10-6:00, and conferences. Three credit hours. 30 Old Tech. Mr. Case

The political pattern of the world as related to present and past adjustments to resources, land forms, and other factors of the natural environment; outlining territorial problems.

This course is given every other year, alternating with Geography 162b.

172b. Climatology.—Tu., Th., S., 10:30-11:30. Three credit hours. Old Tech. Mr. Linehan

The major climatic regions of the world. Description, explanation, and distribution of each type.

Primarily for Graduate Students

212. Petrography.—M., W., 9:30-10:30; M., 1:10-4:00, and three additional hours of laboratory to be arranged. Four credit hours each semester. 32 Old Tech. Mr. von Schlichten

Principles of crystal optics. Rocks in thin sections; qualitative and quantitative classification.

213. Advanced Megascopic Paleontology.—Hours to be arranged. Three credit hours each semester. 38 Old Tech. Mr. _____

216. Advanced Physiography of the United States.—W., 4:10-6:00; S., 10:30-12:30. Four credit hours each semester. 28 Old Tech.

Mr. Fenneman

Runs through two years. Either year may be taken independently.

‡Supplementary work is required of graduate students electing these courses.

249b. **Advanced Crystallography.**—Hours to be arranged. Three credit hours. 32 Old Tech.

Mr. von Schlichten

Crystal morphology. Systematic derivation of crystal classes on basis of symmetry. Introduction to derivation of space groups. Crystal structure of important silicate minerals.

This course is given once in two years, alternating with Geology 251b, Petrology of Igneous Rocks.

256. **Economic Geology.**—M., W., 8:30-9:30; W., 1:10-4:00, and three additional hours of laboratory to be arranged. Four credit hours each semester. 32 Old Tech.

Mr. Rich

Two weeks' field trip during spring recess. Mineral fuels, useful non-metallics, and ore deposits.

This course is given once in two years, beginning in September of odd-numbered years and alternating with Geology 125a, Structural Geology, and Geology 226b, Metamorphism.

271. **Individual Work in Geology.**—

Geology Staff

Credit depends on amount of work done. May be entered either semester.

273. **Field Research in Geology.**—

Summer work in the field under direction of the staff. One to six credit hours.

273. **Field Research in Geology.**—

Summer work in the field under direction of the staff. One to six credit hours.

275. **Individual Work in Geography.**—

Geography Staff

Credit depends on amount of work done. May be entered either semester.

Courses Omitted in 1945-1946

The following courses, offered in alternate years or at longer intervals, will not be given in 1945-1946: 115, Stratigraphy; 125a, Structural Geology; 130b, Interpretation of Aerial Photographs; 162b, Geography of Africa and Australia; s163b, Geography of Europe; s167, Geography of North America; 226b, Metamorphism; 251b, Petrology of Igneous Rocks; 257b, Methods of Sedimentary Analysis.

Courses Offered in the Summer Session of 1945

s164b. **Geography of Asia.**—

Mr. Bergsmark

s275. **Individual Work in Geography.**—

Geography Staff

For further information, see Summer Session Announcement.

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**UNIVERSITY OF CINCINNATI
BULLETIN**

ANNOUNCEMENT OF THE

McMICKEN COLLEGE OF LIBERAL ARTS



1945 - 1946

**PUBLISHED BY THE UNIVERSITY OF CINCINNATI
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18. (3, 3) American Literature before 1900.—M W F 1:10. Teachers College. Mr. Kreider

40. (3, 3) American Literature of the Twentieth Century.—T Th 9:30 and a third hour to be arranged. Teachers College. Mr. Clark

50. (3, 3) Readings for Seniors.—T Th 11:30. Required of all seniors majoring in English; not open to other students.

15. (3, 3) Creative Writing.—M W 3:10-4:30. Teachers College. Individual projects. *This course is to be entered only with the permission of the instructor.* Mr. Byers

26. (3, 3) Play Production.—T Th 3:10-4:30. 101 Wilson. Workshop training in the basic techniques of play production. First semester: Study of the stage as a physical medium of dramatic art; elementary techniques of acting. Second semester: Fundamentals of directing; principles of stage lighting, setting, and costuming. Miss Dowden

Omitted during 1945-1946: 7, Old English: *Beowulf*; 8, Studies in Shakespeare; 9, Argumentation; 13, Intercollegiate Debating; 14, English Drama to 1642; 21, Milton and the Seventeenth Century; 24, Modern European Drama; 27, Literature of the Restoration; 28, New England Writers from Emerson to Frost; 34, English Comedy; 41, Modern Prose; 47, History of the English Language; 48, Bibliography; 51, Elizabethan Nondramatic Literature; 70, Milton and His Age; 80, Journalism; 99, American Romanticism; 220, Main Currents in Literary Criticism; 260, Foreign Backgrounds of English Literature.

FINE ARTS

Associate Professor Coops (Woman's Building)

2. (3, 3) Music Appreciation.—M W 1:10-2:30. 101 Wilson. General approaches to music and study of musical form and expression; trends in musical art; selected musical literature. Miss Coops

For statements regarding credit for work in the Art Academy of Cincinnati, the Cincinnati Conservatory of Music, and the College of Music of Cincinnati, see page 25.

GEOLOGY AND GEOGRAPHY

Professors Fenneman†, Rich (Head of Department, 29 Old Tech), Case (25 Old Tech), Barbour (510 Library); Associate Professors von Schlichten (33 Old Tech), Bergsmark (23 Old Tech); Assistant Professor Caster*; Instructors Russell*, Linehan (36 Old Tech); Curator

Fields of concentration, leading to the degree of *Bachelor of Arts*, are offered in geology and in geography. A student wishing to major in geology must

†Professor Emeritus in part-time service

*Absent on leave.

present Geology 1, including laboratory, or its equivalent. A student wishing to major in geography must present Geography 60 or its equivalent. Suggested sequences of courses following Geology 1 are:

- (a) For those interested in mineralogy and petrography: 7, 48, 12;
- (b) For those interested in historical geology and paleontology: 9, 8;
- (c) For those interested in geomorphology: 48, 11, 16, 30.

Among the bracketed courses recommended to students who will concentrate in geology are the following (preferences depending in part on fields of concentration): Chemistry 1; Physics 1; Zoology 1, 5, and 7; Botany 1, 3, 20, 21; Geography 60 or 501; Mathematics A, 3, 2, 5; Astronomy 1, 2; German 1, 2; Economics 1; Philosophy 2.

Among the bracketed courses recommended to students who will concentrate in geography are the following: Geology 1; History 1 or 10; Economics 1, 24; Political Science 12; Botany 1, 3, 20, 21; Sociology 3, 5, 20.

Five-year co-ordinated program in geology.—Students looking toward a professional career in geology are urged to follow a special co-ordinated program (described on page 25) especially designed to meet their needs, particularly if they intend to seek work involving applications of geology to the search for oil and gas, to mining, or to engineering. In this program, a student receives training in geology, the fundamentals of mathematics through calculus, chemistry through quantitative analysis, physics, mechanics, mechanical drawing, and surveying. Some of the work will be chosen from the "Degree" courses in engineering offered by the Evening College. All courses have been so scheduled as to provide a logical sequence of subjects and produce a uniformly distributed load. A certain latitude of choice is possible, but changes should be made only after consultation with the Head of the Department of Geology. On the satisfactory completion of four years' work, the student will receive the degree of *Bachelor of Science in Geology*, and after an additional year of study in the Graduate School he will receive the degree of Master of Science. (See also page 25.) Students contemplating entering this course should consult in advance the Head of the Department of Geology and Geography who serves as their adviser throughout the course.

Geology

1. (3, 3) **Introduction to Earth Sciences.**—M W F 8:30. 6 Old Tech. This course is designed primarily for beginners. It is prerequisite to all other geology courses except Courses 7 and 10. It is not required for any geography courses, but is required of geography majors.

Messrs. Barbour, von Schlichten, Rich

(2, 2) **Laboratory.**—T Th 1:10-4:00. 24, 26 Old Tech.

The Staff and assistants

With the permission of the instructor, students who do not offer geology as their required science may omit the laboratory course.

2a. (3) **Geology of Mineral Resources.**—M W F 9:30. 24 Old Tech. A survey of the principal natural raw materials with emphasis on their mode of occurrence and distribution. Prerequisites: Geology 1 and high-school or college chemistry. Mr. Rich

7. (3, 3) **Mineralogy.**—T Th 10:30; M 1:10-4:00. 34 Old Tech. Prerequisite: High-school or elementary college chemistry. Mr. _____

8. (4, 4) **Invertebrate Paleontology.**—T Th 11:30; F 1:10-4:00; and one laboratory to be arranged. 38 Old Tech. A systematic survey of the important groups of invertebrate fossils with special emphasis on their zoologic character and importance as index fossils. Prerequisites: Geology 1 or a course in biology, zoology, or botany. Mr. _____

9. (4, 4) **Historical Geology.**—T Th 8:30; S 8:30-10:30 and one laboratory to be arranged. 38 Old Tech. The development of the earth and its life, with particular emphasis on the geologic history of North America. Prerequisite: Geology 1 or permission of instructor. Mr. _____

11b. (3) **Principles of Geomorphology.**—T Th 10:30; F 1:10-4:00. 37 Old Tech. The interpretation of landscapes, especially as governed by geologic conditions and climate. Reading of topographic maps and aerial photographs. Prerequisite: Geology 1 or equivalent. Mr. Rich

12. (4, 4) **Petrography.**—M W 9:30; M 1:10-4:00 and three additional hours of laboratory to be arranged. 32 Old Tech. Principles of crystal optics. Rocks in thin sections; qualitative and quantitative classification. Prerequisite: Geology 7 or equivalent. Mr. von Schlichten

13. (3, 3) **Advanced Megascopic Paleontology.**—Three hours a week to be arranged. 38 Old Tech. Prerequisite: Geology 8 or a course in zoology. By permission of the instructor. Mr. _____

16. (4, 4) **Advanced Physiography of the United States.**—W 4:10-6:00; S 10:30-12:30. 28 Old Tech. Runs through two years. Either year may be taken independently. Prerequisites: Geology 1 and 9. Mr. Fenneman

18. (3, 3) **World Physiography.**—Hours to be arranged. Mr. Barbour

21b, 22b, 23b. (3) **Geologic Demonstration Trips.**—A two-week field excursion, immediately after spring examinations and before Summer School; generally in the Appalachian highland. Conferences once a week during the following semester and the preparation of a comprehensive report to be submitted at the end of first semester. Special work required for graduate credit. The three numbers designate different routes followed in successive years. Prerequisite: Geology 1 or equivalent. Mr. Rich

48a. (3) **Common Minerals and Rocks.**—T Th 10:30; Th 1:10-4:00. 32 Old Tech. Common minerals and rocks and their mode of occurrence. Identification by means of hand lens. Primarily a cultural study for non-professional students. Prerequisite: Geology 1. Mr. _____

49b. (3) **Advanced Crystallography.**—Hours to be arranged. 32 Old Tech. Crystal morphology. Systematic derivation of crystal classes on basis of symmetry. Introduction to derivation of space groups. Crystal structure of important silicate minerals. Prerequisite: Geology 7 or equivalent. This course is given once in two years, alternating with Geology 51b, Petrology of Igneous Rocks. Mr. von Schlichten

52b. (3) **Glacial Geology.**—Hours to be arranged. The principles of glacial geology; field work in the Cincinnati area. Graduates and advanced undergraduates. Prerequisite: Permission of instructor. Mr. Rich

56. (4, 4) **Economic Geology.**—M W 8:30; W 1:10-4:00, and three additional hours of laboratory to be arranged. 32 Old Tech. Two-week field trip during spring recess. Mineral fuels, useful nonmetallics, and ore deposits. Prerequisite: Geology 12 or equivalent. This course is given once in two years, beginning in September of odd-numbered years and alternating with Geology 25a, Structural Geology, and Geology 26b, Metamorphism. Mr. Rich

57a. (3) **Sedimentation.**—Lectures and laboratory. T Th 9:30; F 8:30-11:30. 34 Old Tech. Factors influencing the supply, transportation, and deposition of sediments. Prerequisite: Geology 1 or equivalent. Mr. _____

60. (3, 3) **Readings for Seniors.**—Required of all seniors majoring in geology; not open to other students.

70. **Seminar.**—Th 4:10. Expected of all majors in geology and geography.

71. **Individual Work in Geology.**—Credit depends on amount of work done. May be entered either semester. Geology Staff

Omitted during 1945-1946: 5b, Topographic Mapping; 6, Geology of Cincinnati; 15, Stratigraphy: Principles and Regional; 25a, Structural Geology; 26b, Metamorphism; 30b, Interpretation of Aerial Photographs; 51b, Petrology of the Igneous Rocks; 57b, Methods of Sedimentary Analysis.

Geography

The following year-courses may be entered in February by permission of the instructor: 60, 67, 75.

60. (3, 3) **Elements of World Geography.**—
 Sec. I: M W F 11:30. 6 Old Tech. Mr. Case
 Sec. II: M W F 1:10. 6 Old Tech. Mr. Bergsmark

61a. (3) **Geography of Latin America.**—W 4:10-5:50 and conferences. 6 Old Tech. The natural regions and political divisions are studied with regard to the social, political, and economic developments as related to geographic conditions. Mr. Case