

UNIVERSITY OF CINCINNATI
BULLETIN

ANNOUNCEMENT OF THE

*Graduate School of Arts and
Sciences*



1958 - 1959

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

Courses Offered in the Summer School in 1958

- ENGL. 255. MODERN EUROPEAN LITERATURE. Mr. Applegate.
- ENGL. 261. LITERATURE OF CANADA. Mr. Maclean.
- ENGL. 288. FAMOUS ESSAYISTS FROM BACON TO THURBER. Mr. Boyce.
- ENGL. 315. THE IMITATION OF NATURE: OLD PROBLEMS FOR NEW CRITICS. Mr. Payne.
- ENGL. 457. CLASSICISM REVISITED: BEN JONSON AND HIS TRIBE. Mr. Maclean.
- ENGL. 461. MILTON: *Paradise Lost*. Mr. Boyce.
- ENGL. 901, 902. RESEARCH IN ENGLISH. Staff.

For further information, see the Announcement of the Summer School.

GEOLOGY AND GEOGRAPHY

Head of Department: Professor WILLIAM F. JENKS (20 Old Tech); Professors BARBOUR (25 Old Tech), CASTER (4-A Old Tech), COULTER (8 Old Tech); Associate Professor SUNDERMAN (31 Old Tech); Assistant Professors DURRELL (35 Old Tech), L. G. WOLF (5 Old Tech), HODGKINS (7 Old Tech), LARSEN (33 Old Tech), LOTKOWSKI (25 Old Tech), R. SCHMIDT (36 Old Tech); Instructor W. SANDERS (1 Old Tech).

In geology this Department offers work leading to the degrees of Master of Science and Doctor of Philosophy; in geography it offers work leading to the degree of Master of Arts.

A student admitted to graduate work in geology is expected to have satisfactorily passed one-year courses in physics and chemistry and an approved course in calculus or statistics. Biology is recommended as preparation for graduate work chiefly in paleontology. A graduate student with inadequate background in geology or related fields may be required to take one or more undergraduate courses without graduate credit. A summer field course in geology or its equivalent is required before admission or early in the graduate program.

During or prior to the first two years of graduate study in geology a student must acquire a basic knowledge of physical and historical geology, mineralogy, paleontology, petrology, geomorphology, structural geology, sedimentology, stratigraphy, and economic geology. He must also demonstrate his ability to do advanced work in his major field. Each year he must participate in a four-day field trip during the fall.

vester: Represented to Hardy. from Conrad to 30-3:00. Mr.

D PROSE. A emphasis on the Mr. Kreider.

DGE IN ELIZABETH and prose of on *The Faerie* Mr. Maclean.

ENTH-CENTURY critical topics attention to the 4 gr. cr. each , 942)

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rs or at longer in Currents in na; 3-4, New 1-2, American r and His Age; teenth-Century d Prose; 431-2, 433-4, English espeare; 463-4, ; 471-2, Litera- s Circle; 561-2, Revival; 571-2, 576, Twentieth- unds of English

Committee on Graduate

A student admitted to graduate studies in geography is expected to have had or to acquire a basic knowledge of the field of geography and an understanding of related fields. An approved course in statistics is recommended. The student must demonstrate an aptitude for advanced study and research in his major field.

Not every student accepted for graduate study is accepted as a candidate for a degree. Interviews and early exploratory examinations are required in order to determine the student's prior training and aptitude for advanced studies and self-directed research. Requirements for degrees cannot be stated in terms of time or credits.

The Geological Museum, in the same building as the Department, provides extensive research collections particularly with respect to the Paleozoic faunas of the Cincinnati region. The departmental library contains 15,000 volumes, including the Depository Library of the Association of American Geographers.

GEOLOGY

For Advanced Undergraduate and Graduate Students

*GEOL. 301, 302. MINERALOGY. Introduction to crystallography, crystal chemistry, atomic structures, and geochemistry. Systematic mineralogy of the common minerals. Methods for mineral study. 3 gr. cr. each semester. T Th 11:00; W 1:00-4:00. Mr. Larsen. (15-040-301, 302)

Prerequisite: High-school or college chemistry.

*GEOL. 321, 322. PRINCIPLES OF HISTORICAL GEOLOGY. An introduction to the study of the physical and biological history of the earth with particular emphasis on North America. T Th 8:00; W 1:00-4:00; S 9:00-12:00. 4 gr cr. each semester. Mr. Caster. (15-040-321, 322)

GEOL. 330. ADVANCED GEOLOGY FIELD TRIP. A two weeks' field excursion immediately after spring examinations and before Summer School. Main emphasis on historical and regional geology. Conferences and comprehensive report during following semester. 3 gr. cr. Mr. Caster. (15-040-330)

Prerequisites: Geol. 217, 218, or 219 and 321-2 or equivalents.

GEOL. 425, 426. INVERTEBRATE PALEONTOLOGY. A systematic survey of the important groups of invertebrate fossils with special emphasis on their zoological character and geologic significance. 3 gr. cr. each semester. Lecture, T Th 9:30; laboratory, Th 1:30-4:30. Mr. Caster. (15-040-425, 426)

Prerequisites: Geol. 101-2, 111-2 or equivalents; or a course in biology, zoology, or botany.

*Open to graduate students from other departments with permission of the instructor and Advisory Department. No graduate credit for students in geology.

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GEOL. 443. PHYSIOGRAPHY OF EASTERN UNITED STATES. First semester, M W 9:00; M 1:00-4:00. 3 gr. cr. Mr. Barbour. (15-040-443)

GEOL. 444. PHYSIOGRAPHY OF WESTERN UNITED STATES. Second semester, M W 9:00; M 1:00-4:00. 3 gr. cr. Mr. Barbour. (15-040-444)

*GEOL. 469. COMMON ROCKS. Use of megascopic characteristics to identify igneous, sedimentary, and metamorphic rocks and to interpret their conditions of origin and subsequent alteration. First semester, T Th 9:30; Th 1:30-4:30. 3 gr cr. Mr. Sunderman. (15-040-469)

Prerequisite: Geol. 301-2 or equivalent.

GEOL. 470. BASIC SEDIMENTOLOGY. Principles governing the origin, transportation, deposition, and subsequent alteration of sediments. 3 gr. cr. First semester, M F 9:00; W 9:00-12:00. Mr. Schmidt. (15-040-470)

Prerequisites: Geol. 301-2, 469 or equivalents.

GEOL. 472. PRINCIPLES OF STRATIGRAPHY. Stratigraphic and biostratigraphic principles and methods, with emphasis on geochronology, paleoecology, and paleogeography. 3 gr cr. Second semester, M F 9:00; W 9:00-12:00. Mr. Schmidt. (15-040-472)

Prerequisites: Geol. 301-2, 425-6, 470 or equivalents.

GEOL. 474. THE POLARIZING MICROSCOPE. Crystal optics; use of the polarizing microscope for recognition of transparent substances in immersion media. 4 gr. cr. Second semester, M W 8:00; M F 1:00-4:00. Mr. Sunderman. (15-040-474)

Prerequisite: Geol. 301-2 or permission of the instructor.

GEOL. 480. INTERPRETATION OF AERIAL PHOTOGRAPHS. The geologic and geographic interpretation of aerial photographs and their use in mapping. 3 gr. cr. First semester, T Th 8:00; F 1:00-4:00. Mr. Durrell. (15-040-480)

Prerequisite: Geol. 321-2 or equivalent.

GEOL. 503, 504. SEMINAR. Required of all graduate students in geology. 1 gr. cr. each semester. M 4:00. Staff. (15-040-503, 504)

GEOL. 511. PETROLOGY. Occurrence and thin section study of the common igneous, metamorphic, and sedimentary rocks. 4 gr. cr. First semester, M F 10:00; T Th 1:00-4:00. Mr. Larsen. (15-040-511)

Prerequisites: Geol. 301-2, 469, and 474 or equivalents.

*Open to graduate students from other departments with permission of the instructor and Advisory Department. No graduate credit for students in geology.

GEOL. 566. PETROLEUM GEOLOGY. Geology of oil and natural gas. 3 gr. cr. Second semester, T Th 11:00; W 1:00-4:00. Mr. Jenks. (15-040-566)

GEOL. 589. STRUCTURAL GEOLOGY. Principles of rock deformation; applications of descriptive geometry; methods of determination of structure in the field. 3 gr. cr. Second semester, T Th 9:00; Th 1:00-4:00. Mr. Sunderman. (15-040-589)
Prerequisite: Geol. 301-2 or equivalent.

Primarily for Graduate Students

GEOL. 921, 922. SEMINAR IN STRATIGRAPHIC GEOLOGY. Study and integration of stratigraphic information on North America and the world. Due to the non-repetitive nature of the material covered this course may be elected more than once. 3 gr. cr. each semester. W F 4:00-5:30. Mr. Schmidt. (14-040-921, 922)
Prerequisites: Geol. 470, 472; 425, 426 recommended.

GEOL. 925, 926. ADVANCED MEGASCOPIC PALEONTOLOGY. By the instructor's permission. 3 gr. cr. each semester. T Th 4:30. Mr. Caster. (14-040-925, 926)
Prerequisite: Geol. 425-6 or a course in zoology.

GEOL. 950. PETROLOGY OF THE IGNEOUS ROCKS. Petrogenesis and advanced methods of study of the igneous rocks. 4 gr. cr. Second semester, M F 10:00; T Th 1:30-4:30. Mr. Larsen. (14-040-950)
Prerequisites: Geol. 469, 474, and 511 or equivalents or permission of instructor.

GEOL. 958. SEMINAR IN MEGATECTONICS. 3 gr. cr. Second semester. Hours to be arranged. Mr. Schmidt. (14-040-958)
Prerequisite: Permission of the instructor.

GEOL. 971, 972. RESEARCH. Credit depends on amount of work done. Geology Staff. (14-040-971, 972)

GEOL. 973. FIELD RESEARCH. Work in the field under direction of the staff. 1-6 gr. cr. (14-040-973)

GEOGRAPHY

*For Advanced Undergraduate and Graduate Students**

GEOL. 331. URBAN GEOGRAPHY. Geographical factors related to the origin, structure, and functions of urban centers. 3 gr. cr. First semester, T Th 9:30. Mr. Sander. (15-041-331)

*Supplementary work is usually required of graduate students electing these courses.

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Poetry; 429, Renaissance English Prose; 431-2, English Drama from the Beginnings to 1700; 433-4, English Comedy; 439, Spenser; 443-4, Studies in Shakespeare; 463-4, Seventeenth-Century Poetry: Jonson to Dryden; 471-2, Literature of the Restoration; 485-6, Johnson and His Circle; 562, The Drama of the Irish Literary Revival; 571-2, Modern Prose; 573-4, Twentieth-Century Fiction; 576, Twentieth-Century English Poetry; 911-2, Foreign Backgrounds of English Literature; Speech 162, History and Principles of Radio and Television Broadcasting; 213-4, Intercollegiate Debate.

FINE ARTS

Assistant Professors HORNYAK (100 Wilson), SINGLETON (305 Teachers College).

465-6. HISTORY AND LITERATURE OF MUSIC. Approaches to the enjoyment of music; art of music and its materials; the composer as a product and creator of his time; contemporaries in the arts, sciences, and politics and their philosophies and influence on music. Students are expected to attend selected symphony concerts on Friday afternoons. MW 2:00-3:30. Mr. Hornyak. (Code: 18-224)

667-8. MUSIC IN THE FINE ARTS. Music in relation to such movements as romanticism, impressionism, and realism; aspects of music related to line, color, and design in the visual arts and to description, imagery, and general style in literature; readings from European and American writers, visits to art galleries, listening to music. For graduates and advanced undergraduates. Th 4:10-5:50. 2 cr. each sem. Mr. Singleton. (Code: 18-224)

The following courses in the history of art are offered in the Department of Classics: Classical Civilization 247-8 (The Near East and Greece); 443 (Greek Architecture); 442 (Roman Art). See pages 55, 56.

For statements regarding credit for work in the Art Academy of Cincinnati or the College-Conservatory of Music of Cincinnati, see pages 36, 37.

GEOLOGY AND GEOGRAPHY

Professors JENKS (*Head of Department*, 20 Old Tech), BARBOUR (25 Old Tech), CASTER (4-A Old Tech), COULTER (8 Old Tech); Associate Professor SUNDERMAN (31 Old Tech); Assistant Professors DURRELL (35 Old Tech), LARSEN (33 Old Tech), WOLF (23 Old Tech), HODGKINS (7 Old Tech), LOTKOWSKI (25 Old Tech), SCHMIDT (36 Old Tech); Instructor SANDERS (1 Old Tech).

The student may choose a concentration leading to the B.A. or B.S. in Geology, or to the B.A. in Geography.

GEOLOGY

15-040

Geol. 101-2 and 111-2 taken together are the basic preliminary courses to all advanced courses in geology except Geol. 301-2.

To qualify for the B.S. degree with a major in geology a student shall include in his program Geol. 301-2, 217 (218, 219), 321-2, 425-6, 469, 501, 503-4, 589; Chem. 101-2, 111-2, and 6 to 9 hours of calculus and 6 to 10 hours of physics or zoology. Additional advanced courses in geology must be selected as electives. A reading knowledge of German or French is required by the end of the junior year.

To qualify for the B.A. degree in geology a student shall have completed Geol. 301-2, 217 (218, 219), 321-2, 501, 503-4, and 6 additional credits in geology, plus at least 18 hours in chemistry, physics, zoology, botany, and mathematics.

Both the B.S. and B.A. majors may lead to graduate work in geology. Typical programs may be obtained from the Head of the Department.

For all students planning geology as a profession, a six-to-eight-week summer field course or its equivalent is required. Alternative acceptable field training may be obtained by summer work with one of the geological surveys or by summer field employment by a mining or oil company, with the approval of the adviser.

Each autumn all students majoring in geology are expected to attend a four-day field trip and should anticipate the cost of the trip.

- ✓ 101-2. INTRODUCTION TO GEOLOGY. Prerequisite to all other geology courses except Geol. 103-4 and 301-2. It is not prerequisite to any geography courses, but is required of geography majors. With Geol. 111-2, it satisfies the science requirement. Geol. 101-2 and 111-2 form two parts of a single ten-credit course. With the instructor's permission, however, students who do not offer geology in fulfillment of the science requirement may take 101-2 alone. Lecture, MWF 8:00. Mr. Durrell.

- ✓ 111-2. INTRODUCTION TO GEOLOGY LABORATORY. A laboratory course to accompany Geol. 101-2. With the instructor's permission, transfer students and other qualified students may take the course without the lectures (101-2). MW 1:00-4:00; TTh 2:00-5:00. 2 cr. each sem. Mr. Durrell and assistants.

103-4. GENERAL GEOLOGY. Prerequisite to all geology students not majoring in geology. This course fulfills the science requirement for the B.A. with an emphasis in geology. F 1:00-4:00.

✓ 215. (1st semester) GENERAL GEOLOGY. Prerequisite to 103-4. TT 10:00-12:00.

218. GEOLOGY OF THE APPALACHIAN REGION. Prerequisite to 301-2. This course is a study of the geology of the Appalachian region. It is a half of the course at the end of the semester. 219; each semester. M 10:00.

301-2. MINERALOGY. Prerequisite to 321-2. This course covers the principles of mineralogy and petrology. Prerequisite to 321-2. 11:00; W 10:00.

321-2. PRINCIPLES OF GEOLOGY. Prerequisite to 301-2. This course covers the principles of geology. Prerequisite to 301-2. 1:00-4:00.

330. ADVANCED GEOLOGY. Prerequisite to 321-2. This course is a study of the geology of the Appalachian region. It is a half of the course at the end of the semester. School. M 10:00. Conference. Prerequisite to 321-2. Caster.

425-6. INVERSE GEOLOGY. Prerequisite to 301-2. This course covers the importance of geology in the study of biology, zoology, and botany. Prerequisite to 301-2. Each semester.

443. (1st semester) GENERAL GEOLOGY. Prerequisite to 103-4. M 1:00-4:00.

444. (2nd semester) GENERAL GEOLOGY. Prerequisite to 103-4. M 1:00-4:00.

- 103-4. GENERAL GEOLOGY. An elementary course for general students not expecting to do further work in the subject; fulfills the science requirement only if taken in combination with an elementary course in another science. TTh 8:00; F 1:00-4:00. 3 cr. each sem. Mr. Barbour.
215. (1st sem.) ECONOMIC MINERAL DEPOSITS. A survey of the nature and origin of metallic and nonmetallic mineral deposits including the mineral fuels. Prerequisite: Geol. 101-2 or Geol. 103-4. TTh 11:00; W 1:00-4:00. Mr. Jenks.
218. GEOLOGIC DEMONSTRATION TRIP. A two weeks' field excursion in May and June 1958; the excursion is generally in the Appalachians. One-hour conference weekly during the first half of the following semester and a report to be submitted at the end of the semester. (Alternates with Geol. 217 and 219; each number designates a different route.) Conferences, M 10:00. Mr. Durrell.
- 301-2. MINERALOGY. Introduction to crystallography, crystal chemistry, atomic structures, and geochemistry. Systematic mineralogy of the common minerals. Methods for mineral study. Prerequisite: High-school or college chemistry. TTh 11:00; W 1:00-4:00. Mr. Larsen.
- 321-2. PRINCIPLES OF HISTORICAL GEOLOGY. An introduction to the study of the physical and biological history of the earth with particular emphasis on North America. TTh 8:00; ~~W 1:00-4:00~~ ^{W 2-5}; S 9:00-12:00. 4 cr. each sem. Mr. Caster.
330. ADVANCED GEOLOGY FIELD TRIP. A two weeks' field excursion immediately after spring examinations and before Summer School. Main emphasis on historical and regional geology. Conferences and comprehensive report during following semester. Prerequisites: Geol. 217, 218, or 219 and 321-2. Mr. Caster.
- 425-6. INVERTEBRATE PALEONTOLOGY. A systematic survey of the important groups of invertebrate fossils with special emphasis on their zoological character and geologic significance. Prerequisite: Geol. 101-2, 111-2 or equivalent, or a course in biology, zoology, or botany. TTh 9:30; Th 2:00-5:00. 3 cr. each sem. Mr. Caster.
443. (1st sem.) PHYSIOGRAPHY OF EASTERN UNITED STATES. M 1:00-4:00. 3 cr. Mr. Barbour.
444. (2nd sem.) PHYSIOGRAPHY OF WESTERN UNITED STATES. M 1:00-4:00. 3 cr. Mr. Barbour.

469. (1st sem.) COMMON ROCKS. Use of megascopic characteristics to identify igneous, sedimentary, and metamorphic rocks and to interpret their conditions of origin and subsequent alteration. Prerequisite: Geol. 301-2 or equivalent. TTh 8:00; F 1:00-4:00. 3 cr. Mr. Sunderman. *237-32*
470. (1st sem.) BASIC SEDIMENTOLOGY. Principles governing the origin, transportation, deposition, and subsequent alteration of sediments. Prerequisites: Geol. 301-2 and 469 or equivalents. MF 9:00; W 9:00-12:00. Mr. Schmidt. *34-38*
472. (2nd sem.) PRINCIPLES OF STRATIGRAPHY. Stratigraphic and biostratigraphic principles and methods, with emphasis on geochronology, paleoecology, and paleogeography. Prerequisites: Geol. 301-2, 425-6, and 470 or equivalents. MF 9:00; W 9:00-12:00. Mr. Schmidt.
474. (2nd sem.) THE POLARIZING MICROSCOPE. Crystal optics; use of the polarizing microscope for recognition of transparent substances in immersion media. Prerequisites: Geol. 301-2, or permission of the instructor. MW 8:00; MF 1:00-4:00. 4 cr. Mr. Sunderman. *W*
- 1st*
480. (2nd sem.) INTERPRETATION OF AERIAL PHOTOGRAPHS. The geologic and geographic interpretation of aerial photographs and their use in mapping. Lecture and laboratory. Prerequisite: Geol. 301-2, or equivalent. TTh 8:00; F 1:00-4:00. Mr. Durrell.
501. (1st sem.) READINGS FOR SENIORS. Required of all seniors majoring in geology. Not open to other students. 2 cr. Staff.
- 503-4. GEOLOGY SEMINAR. Required of all juniors and seniors majoring in geology. No additional credit except during second semester of senior year, when students will actively participate and receive 1 credit. M 4:00. *237* *Larsen*
511. (1st sem.) PETROLOGY. Occurrence and thin section study of the common igneous, metamorphic, and sedimentary rocks. Prerequisites: Geol. 301-2, 469, and 474 or equivalents. MF 10:00; TTh 2:00-5:00. 4 cr. Mr. Larsen.
566. (2nd sem.) PETROLEUM GEOLOGY. Geology of oil and natural gas. Prerequisite: Geol. 472. TTh 11:00; W 1:00-4:00. Mr. Jenks.
- 571-2. INDIVIDUAL WORK IN GEOLOGY. Credit depends on amount of work done. May be entered either semester. Geology Staff.
589. (2nd sem.) STRUCTURAL GEOLOGY. Principles of rock deformation; applications of descriptive geometry; methods of

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determination of structure in the field. Prerequisites: Geol. 301-2 and 321-2 or equivalents. TTh 8:00; F 1:00-4:00. Mr. Sunderman.

921-2. SEMINAR IN STRATIGRAPHIC GEOLOGY. Study and integration of stratigraphic information on North America and the world. Due to the nonrepetitive nature of the material covered this course may be elected more than once. Prerequisites: Geol. 470, 472; 425-6 recommended. ~~MF 4:00-5:30.~~ Mr. Schmidt. (Code: 14-040) *4 permission of instructor*

has arranged

925-6. ADVANCED MEGASCOPIC PALEONTOLOGY. By the instructor's permission. Prerequisite: Geol. 425-6 or a course in zoology. TTh 4:30. Mr. Caster. (Code: 14-040)

950. (2nd sem.) PETROLOGY OF THE IGNEOUS ROCKS. Petrogenesis and advanced methods of study of the igneous rocks. Prerequisites: Geol. 469, 474, and 511 or equivalents or permission of instructor. MF 10:00; TTh 2:00-5:00. 4 cr. Mr. Larsen. (Code: 14-040)

Omitted during 1958-59: 448, World Physiography; 449, Principles of Geomorphology; 481, Glacial Geology; 563, Principles of Economic Geology; 564, Geology of Ore Deposits; 565, Nonmetallic Mineral Deposits; 909, Metamorphic Geology; 910, Advanced Mineralogy; 924, Micropaleontology; 952, Petrology of Sedimentary and Metamorphic Rocks; 960, Ground Water; 963-4, Advanced Sedimentology.

GEOGRAPHY

15-041

Students majoring in geography shall present Geog. 101-2 or its equivalent, Geog. 205-6, 211, and 495-6. The student should aim toward a balanced program of regional and systematic courses in geography and a wide selection of electives in related subjects, in consultation with the adviser in geography. The science requirement is to be satisfied by Geol. 101-2, 111-2, or its equivalent. A reading knowledge of a foreign language is required by the end of the junior year. A course in statistics is strongly recommended.

Nongeographical courses recommended to students majoring in geography are in the Departments of Sociology, Political Science, Geology, Economics, and History.

101-2. PRINCIPLES OF HUMAN GEOGRAPHY. A regional analysis of the earth as the home of man, with special reference to the spatial environments and resources of the earth. MWF 11:00; MWF 2:00. Messrs. Hodgkins, Sanders.