

Calendar
Year, 1965-1966

a.m.-3:00 p.m.,
30 p.m.
00 p.m.
p.m.

p.m.,
30 p.m.
00 p.m.
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00 p.m.,
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0 p.m.
p.m.

age department at
these examinations,

UNIVERSITY OF CINCINNATI BULLETIN

Announcement

of



The Graduate School

Published by the University of Cincinnati
Van Wormer Administration Building
Cincinnati, Ohio 45221

Telephone: 475-4335

1965-1966

14-041-784. Urban-Economic Geography: Resources. The current resource revolution; its effect on agricultural, industrial, and urban areas; changing concepts of conservation; resources in area development. 3 gr. cr. Autumn Quarter. MWF 10:00. Mr. Roder.

14-041-785. Urban-Economic Geography: Accessibility. Geographic location theory; transport networks, nodes, and trade areas at varied scales. 3 gr. cr. Winter Quarter. MWF 10:00. Mr. McNee.

14-041-786. Urban-Economic Geography: Production. Theoretical interpretations of the changing patterns of primary, secondary, and tertiary production at varied scales. 3 gr. cr. Spring Quarter. MWF 10:00. Mr. McNee.

14-041-787. Seminar: Geography and Economic Development. Interpretation of differences in economic development among countries and within countries. 3 gr. cr. Spring Quarter. TTh 11:00-12:30. Mr. Roder.

14-041-792. Seminar: Geographic Models. The use of models in current geographic literature, particularly by McCarty, Warntz, Berry, Garrison, and Marble. 3 gr. cr. Winter Quarter. TTh 11:00-12:30. Mr. Roder.

14-041-878. Seminar: Growth of Geographic Thought. Detailed analyses of contemporary methodological problems. 3 gr. cr. Winter Quarter. Hours to be arranged. Mr. Cooper. Prerequisite: Geog. 678.

14-041-871. Thesis Research. Independent individual research in the preparation of the thesis for the M.A. degree. Offered each Quarter. Hours and credits to be arranged. Staff.

14-041-971. Dissertation Research. Preparation of the Ph.D. dissertation. Offered each Quarter. Hours and credits to be arranged. Staff.

Courses Omitted in 1965-1966: 575, Geographics; 576, Resources Conservation; 782, Historical Geography of the U. S.; 791, The Regional Concept and Area Analysis.

Geology

Head of Department: Professor William F. Jenks (20A, Old Tech); Professor Caster (4A, Old Tech); Associate Professors Durrell (35 Old Tech), Koucky (10B, Old Tech), Larsen* (10 Old Tech), Sunderman (31 Old Tech); Assistant Professors Hofmann (33 Old Tech), Huff (36 Old Tech); Research Associate Abbott (108 Biology).

This Department offers work leading to the degrees of Master of Science and Doctor of Philosophy.

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 summer field course in geology or its equivalent, such as a summer at a marine biological station for paleontology majors, is required before admission or early in the graduate program.

Interviews and early exploratory conferences are required in order to determine the student's prior training and aptitude for advanced studies and independent research.

New laboratories for research in mineralogy, petrology, geochemistry, and sedimentology afford modern facilities for study. The Geological Museum provides extensive research collections particularly with respect to the Paleozoic faunas of the Cincinnati region.

*Absent on leave, autumn, winter, and spring quarters 1965-1966.

For Advanced Under

15-040-037,038,039. in geology. No cred

15-040-521,522,523. fossils. 3 gr. cr. each Geol. 101,2,3, 111,2,3

15-040-531,532,533. stratigraphic termino stratigraphic illustrat Hofmann. Prerequis

15-040-541,542. Prim Winter Quarters. M

15-040-547,548. Stru Quarters. MW 8:00

15-040-574. Glacial Mr. Durrell.

15-040-576. Advance summer of 1965. H Quarter. 3 gr. cr. instructor.

15-040-641,642. Op for recognition of t gr. cr. each Quarter Sunderman.

15-040-675. Geology 11:00. Mr. Jenks.

Primarily for Gradu

14-040-743,744. Pal MWF 4:00. Mrs. A

14-040-771. Researc Quarter. Staff.

14-040-774. Region Jenks.

14-040-811,812,813. rock and mineral at etc. 3 gr. cr. each C Mr. Koucky.

14-040-814,815,816. 8:00. Mr. Hofman

14-040-821,822,823. German and French MWF 9:00. Mr. C

14-040-873. Princip economic concentr Mr. Jenks.

For Advanced Undergraduate and Graduate Students

15-040-037,038,039. *Geology Seminar*. Required of all graduate students majoring in geology. No credit. Th 12:00-1:00. Staff.

15-040-521,522,523. *Invertebrate Paleontology*. Paleobiology of common invertebrate fossils. 3 gr. cr. each Quarter. TTh 9:30; W 1:00-4:00. Mr. Caster. Prerequisite: Geol. 101,2,3, 111,2,3, or equivalents, or a full course in biology, zoology, or botany.

15-040-531,532,533. *Stratigraphy*. Principles of sedimentation; lithologic analysis; stratigraphic terminology; lithologic and paleontologic correlation; facies analysis and stratigraphic illustration. 3 gr. cr. each Quarter. MW 11:00; Th 9:30-12:30. Mr. Hofmann. Prerequisite: Geol. 301,2,3, 321,2,3.

15-040-541,542. *Principles of Geomorphology*. 3 gr. cr. each Quarter. Autumn and Winter Quarters. MW 10:00; F 1:00-4:00. Mr. Durrell.

15-040-547,548. *Structural Geology*. 3 gr. cr. each Quarter. Autumn and Winter Quarters. MW 8:00; F 8:00-11:00. Mr. Jenks.

15-040-574. *Glacial Geology*. 3 gr. cr. Spring Quarter. MW 10:00; F 1:00-4:00. Mr. Durrell.

15-040-576. *Advanced Geology Field Trip*. A two weeks' field excursion during the summer of 1965. Historical and regional geology. Conferences and report in Autumn Quarter. 3 gr. cr. Autumn Quarter. Mr. Caster. Prerequisite: Permission of instructor.

15-040-641,642. *Optical Mineralogy*. Crystal optics, use of the polarizing microscope for recognition of transparent substances in immersion media and thin sections. 4 gr. cr. each Quarter. Winter and Spring Quarters. MW 9:00; Th 2:00-5:00. Mr. Sunderman.

15-040-675. *Geology of Ore Deposits*. 3 gr. cr. Spring Quarter. MW 8:00; F 8:00-11:00. Mr. Jenks.

Primarily for Graduate Students

14-040-743,744. *Paleobotany*. 3 gr. cr. each Quarter. Autumn and Winter Quarters. MWF 4:00. Mrs. Abbott.

14-040-771. *Research on Special Problems*. Credit to be arranged. Offered each Quarter. Staff.

14-040-774. *Regional Tectonics*. 3 gr. cr. Winter Quarter. MWF 4:00. Mr. Jenks.

14-040-811,812,813. *Advanced Mineralogy II*. Advanced theory and techniques in rock and mineral analysis; X-ray fluorescence, flame photometry, electron microscopy, etc. 3 gr. cr. each Quarter. TTh 9:30-11:00 and three laboratory hours to be arranged. Mr. Koucky.

14-040-814,815,816. *Advanced Sedimentary Petrology*. 3 gr. cr. each Quarter. TTh 8:00. Mr. Hofmann.

14-040-821,822,823. *Seminar in Megascopic Paleontology*. Reading knowledge of German and French desirable. By the instructor's permission. 3 gr. cr. each Quarter. MWF 9:00. Mr. Caster.

14-040-873. *Principles of Ore Deposition*. Physical and chemical processes producing economic concentration in ore deposits. 3 gr. cr. Autumn Quarter. MWF 4:00. Mr. Jenks.

14-040-874. Universal Stage Microscope Studies. Double variation and thin section techniques. 2 gr. cr. Autumn Quarter. Hours to be arranged. Mr. Sunderman.

14-040-971. Research. By adviser's permission. Credits to be arranged. Offered each Quarter. Staff.

Courses Omitted in 1965-1966: 551,2, World Physiography; 561,2, Interpretation of Aerial Photographs; 575 and 577, Alternate Advanced Geology Field Trips; 801,2,3, Advanced Mineralogy I; 804,5,6, Seminar in Geochemistry, Mineralogy, and Petrology; 807,8,9, Seminar in Stratigraphic Geology; 817,8,9, Seminar in Petrology; 872, Advanced Petrology I: Rock minerals and phase equilibria; 875, Advanced Petrology II: Igneous Rocks; 877, Advanced Petrology III: Metamorphic Rocks.

Germanic Languages and Literatures

Head of Department: Professor Guy Stern (228 McMicken); Professor Merkel (229 McMicken); Associate Professor Syring (230 McMicken); Assistant Professors Rudowski (2619 Clifton Ave.), Slessarev (231 McMicken); Visiting Lecturer Starkulla (231 McMicken).

This Department offers work leading to the degrees of Master of Arts and Doctor of Philosophy in Germanic languages and literatures.

Students electing work in this Department should have completed an undergraduate major in German or its equivalent. All candidates for any graduate degree are required to take Germanic Languages 901-2-3, Methods and Bibliography, and 571-2-3, Methods and Linguistics; all candidates for the doctorate are required to take Early Germanic Philology, Old High German, and Middle High German. The successful completion of a reading course in a second Germanic language is strongly urged by the Department and will satisfy simultaneously The Graduate School's requirement of a second foreign language for the doctorate.* (See page 36.)

For Advanced Undergraduate and Graduate Students

15-010-501,502,503. Survey of German Literature to 1750. Lectures in German. Autumn Quarter, 500-1275. Winter Quarter, 1275-1618. Spring Quarter, 1618-1750. 4 gr. cr. each Quarter. MWF 1:00. Mr. Merkel.

15-010-534,535,536. The Works of Mörike, Stifter, Droste-Hülshoff. An intensive study of their poetry and prose. Lectures in German. 4 gr. cr. each Quarter. MWF 10:00. Mrs. Slessarev.

15-010-571,572,573. Methods and Linguistics. A descriptive analysis of the German language and the practical applicability of linguistics to modern methods of language learning and teaching. Especially recommended for prospective high school and college teachers in modern languages. Lectures in English. 4 gr. cr. each Quarter. Mr. Rudowski.

**15-011-601,602,603. Elementary and Intermediate Swedish.* To be offered in 1966-1967. No gr. cr.

15-010-631,632,633. Advanced Stylistics. A historical study of German prose composition, as exemplified by the popular prints, and practical stylistic exercises emphasizing most recent usage. Lectures in German. 4 gr. cr. each Quarter. TTh 2:30-4:00. Mr. Starkulla.

*See Evening College course 30-011-141,142. Elementary Swedish. Wed. 6:40-8:20. 3 ug. cr. each semester. Mrs. Mosher. Registration for this course must be made at the Evening College.

15-010-661,662,663. relationship of the land movement. Starkulla.

Primarily for Graduate

14-010-731,732,733 Quarter. M 4:00-

14-010-741,742,743 Th 4:00-6:00. Mr.

14-010-971. Research each Quarter. Sta

Courses Omitted in Methods and Bibliography offered in alternate year schedule.)

Language Training

14-010-001,002,003. to acquire a reading per Quarter. W

Head of Department Bradeen (219 Lib. (336 McMicken), DAA Bldg.); Assistant Professor Schrier (335 McMicken), Mr. Micken; Instructor in Philosophical Society,

This Department or in social sciences

A candidate's work in one British, or American, can be fulfilled in one

The degree full-time graduate candidate must Byzantine, Modern minors from wide field of knowledge two foreign languages date will take v

*Absent on I
†Absent on I
‡Absent on I

MON., AUG. 22—SAT., SEPT. 24

Summer School Terms (3½ weeks each)

- First..... Mon., June 20-Tues., July 12
- Second..... Wed., July 13-Wed., Aug. 3
- Third..... Thurs., Aug. 4-Fri., Aug. 26

* Additional calendar items relating to a specific college schedule will be found in Part 2 of the *Bulletin* of that college. Complete calendars of the Evening College and the Summer School will be found in these *Bulletins*.

UNIVERSITY OF CINCINNATI BULLETIN

Announcement

of



McMicken College of Arts and Sciences

Published by the University of Cincinnati
Van Wormer Administration Building
Cincinnati, Ohio 45221
Telephone 475-2431

1965-1966

15-041-679. Field Theory and Methods. Training in field theory, method, and technique, including mapping, air photo use, interviewing, and report writing, with stress on urban areas. 3 ug. cr. Autumn Quarter. M 2:00-5:00. Mr. Roder.

14-041-701, 702, 703. Geographic Research. Independent individual research. Credit varies with work completed. Each Quarter. Hours arranged. Staff.

14-041-783. Seminar: Advanced Geography of the United States. Detailed analysis of selected urban-economic regions of the United States, including the Middle West and the Ohio Valley. 3 ug. cr. Autumn Quarter. TTh 11:00-12:30. Staff.

14-041-784. Urban-Economic Geography: Resources. The current resource revolution; its effect on agricultural, industrial, and urban areas; changing concepts of conservation; resources in area development. 3 ug. cr. Autumn Quarter. MWF 10:00. Mr. Roder.

14-041-785. Urban-Economic Geography: Accessibility. Geographic location theory; transport networks, nodes, and trade areas at varied scales. 3 ug. cr. Winter Quarter. MWF 10:00. Mr. McNee.

14-041-786. Urban-Economic Geography: Production. Theoretical interpretations of the changing patterns of primary, secondary, and tertiary production at varied scales. 3 ug. cr. Spring Quarter. MWF 10:00. Mr. McNee.

14-041-787. Seminar: Geography and Economic Development. Interpretation of differences in economic development among countries and within countries. 3 ug. cr. Spring Quarter. TTh 11:00-12:30. Mr. Roder.

14-041-792. Seminar: Geographic Models. The use of models in current geographic literature, particularly by McCarty, Warntz, Berry, Garrison, and Marble. 3 ug. cr. Winter Quarter. TTh 11:00-12:30. Mr. Roder.

Courses Omitted in 1965-1966: 575, Geographics; 576, Resources Conservation; 782, Historical Geography of the U. S.; 791, The Regional Concept and Area Analysis.

Geology

Professors Jenks (Head of Department, 20 Old Tech), Caster (4A Old Tech); Associate Professors Durrell (35 Old Tech), Koucky (B10 Old Tech), Larsen* (B11 Old Tech), Sunderman (31 Old Tech); Assistant Professor Huff (36 Old Tech).

The student may choose a concentration leading to the B.A. or B.S. in geology.

Geology 101-2-3 and 111-2-3 taken together are preliminary to all advanced courses in geology except 301-2-3 and 521-2-3. Students who have completed 104-5-6 and wish to major in geology must take 111-2-3.

To qualify for the B.A. degree in geology a student shall have completed Geol. 037-8-9, 301-2-3, 281 (or 282 or 283), 321-2-3, 437-8-9, and 9 additional credits in geology, plus at least 27 credits in three of the following disciplines: chemistry, physics, zoology, botany, and mathematics.

To qualify for the B.S. degree with a major in geology a student shall include in his program Geol. 037-8-9, 301-2-3, 281 (or 282 or 283), 321-2-3, 437-8-9; Chem. 101-2-3, 111-2-3, 9 to 14 credits of Calculus and 9 to 15 credits of physics or zoology. In addition to the basic core of geology courses listed above, 18 credits in advanced courses in geology must be elected. A reading knowledge of German, French, or Russian is required prior to the senior year.

*Absent on leave, autumn, winter, and spring quarters 1965-1966.

Both the B.A. and the B.S. majors may lead to graduate work in geology, usually considered essential for a professional career. A properly planned program may lead to the M.S. degree one year after obtaining the B.S. Typical programs may be obtained from the adviser.

For all B.S. candidates and all students planning geology as a profession, a six to eight weeks' summer field course or its equivalent is required. Alternative acceptable field training may be obtained by summer work at a marine biological station or 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, about \$35.

15-040-101, 102, 103. *Introduction to Geology*. Corequisite: Geol. 111-2-3 with which it satisfies the science requirement. Geol. 101-2-3 may be taken alone only with the instructor's permission. 3 ug. cr. ea. Qtr. MWF 8:00. Mr. Durrell.

15-040-111, 112, 113. *Introduction to Geology Laboratory*. A laboratory course to accompany 101-2-3. 2 ug. cr. ea. Qtr. Sections I, MW 1:00-4:00; II, TTh 2:00-5:00. Mr. Durrell and assistants.

15-040-104, 105, 106. *General Geology*. An elementary course for general students and teachers not expecting to major in earth sciences. Designed to fulfill the science requirements when taken with an elementary course in another science. 3 ug. cr. ea. Qtr. Lecture, TTh 8:00; laboratory, Sections I, M 1:00-4:00; II, W 1:00-4:00; III, F 1:00-4:00. Mr. Huff.

15-040-171. *Geology of the Cincinnati Region*. A Saturday field course to introduce nonmajors or teachers to the geology of the Greater Cincinnati area. 2 ug. cr. Autumn Quarter. W 4:00-6:00; S 9:00-4:00. Staff.

15-040-282. *Geologic Demonstration Trip*. A two weeks' field excursion to Wisconsin and Michigan during September 1965. One-hour conference weekly during the Autumn Quarter and a report at the end of the Quarter. 3 ug. cr. Autumn Quarter. Conferences, M 10:00. Mr. Koucky.

15-040-301, 302, 303. *Mineralogy*. Crystallography, crystal chemistry, atomic structures, geochemistry, and systematics of the common minerals. Prerequisite: College chemistry or permission of instructor. 3 ug. cr. ea. Qtr. TTh 11:00; Th 2:00-5:00. Mr. Koucky.

15-040-321, 322, 323. *Historical Geology*. The physical and biological history of the earth with particular emphasis on North America. Field trips. Prerequisite: Geol. 101-2-3, 111-2-3 or 104-5-6. 4 ug. cr. ea. Qtr. TTh 8:00; Tu 2:00-5:00; S 9:00-12:00. Mr. Caster.

15-040-401, 402, 403. *Elementary Petrology*. Occurrence, genesis, and alteration of common igneous, metamorphic, and sedimentary rocks; methods of study. Prerequisite: Geol. 301-2-3. 4 ug. cr. ea. Qtr. TTh 11:00; TTh 2:00-5:00. Mr. Sunderman.

15-040-437, 438, 439. *Readings for Seniors*. Required for seniors majoring in geology; not open to other students. 2 ug. cr. ea. Qtr. Senior thesis to be written in Spring Quarter.

15-040-487, 488, 489. *Individual Work in Geology*. Credit depends on amount of work done. May be entered any Quarter. Staff.

15-040-037, 038, No in geology.

15-040-521, 522, brate fossils. P in biology, zoo Caster and Staff

15-040-531, 532, stratigraphic ter stratigraphic ill ea. Qtr. MW

15-040-541, 542, Winter Quarter

15-040-547, 548, Autumn and W

15-040-574. GL Mr. Durrell.

15-040-576. A of 1965. Hist 3 ug. cr. Aut

15-040-641, 64, for recognition requisite: Geol Quarters. M

15-040-675. G Spring Quarter

Courses Omitt Trip: 551-2, W 577, Alternate

Professors St Associate Pr Clifton Ave.)

German 101 German. C of the requi expected to Part I (Gerr

All c at the begin To enter 100 permission

15-001-221,

15-040-037, 038, 039. *Geology Seminar*. Required of all juniors and seniors majoring in geology. No credit. Th 12:00. Staff.

15-040-521, 522, 523. *Invertebrate Paleontology*. Paleobiology of common invertebrate fossils. Prerequisite: Geol. 101-2-3, Geol. 111-2-3 or equivalents, or a full course in biology, zoology, or botany. 3 ug. cr. ea. Qtr. TTh 9:30; W 1:00-4:00. Mr. Caster and Staff.

15-040-531, 532, 533. *Stratigraphy*. Principles of sedimentation; lithologic analysis; stratigraphic terminology; lithologic and paleontologic correlation; facies analysis and stratigraphic illustration. Field trips. Prerequisite: Geol. 301-2-3, 321-2-3. 3 ug. cr. ea. Qtr. MW 11:00; Th 9:30-12:30. Staff.

15-040-541, 542. *Principles of Geomorphology*. 3 ug. cr. ea. Qtr. Autumn and Winter Quarters. MW 10:00; F 1:00-4:00. Mr. Durrell.

15-040-547, 548. *Structural Geology*. Prerequisite: Geol. 301-2-3, 321-2-3. 3 ug. cr. Autumn and Winter Quarters. MW 8:00; F 8:00-11:00. Mr. Jenks.

15-040-574. *Glacial Geology*. 3 ug. cr. Spring Quarter. MW 10:00; F 1:00-4:00. Mr. Durrell.

15-040-576. *Advanced Geology Field Trip*. A two weeks' field excursion during summer of 1965. Historical and regional geology. Prerequisite: Permission of instructor. 3 ug. cr. Autumn Quarter. Mr. Caster.

15-040-641, 642. *Optical Mineralogy*. Crystal optics, use of the polarizing microscope for recognition of transparent substances in immersion media and thin sections. Prerequisite: Geol. 301-2-3 or permission of the instructor. 4 ug. cr. Winter and Spring Quarters. MW 9:00; TTh 2:00-5:00. Mr. Sunderman.

15-040-675. *Geology of Ore Deposits*. Prerequisite: Geol. 301-2-3, 547, 548. 3 ug. cr. Spring Quarter. MW 8:00; F 8:00-11:00. Mr. Jenks.

Courses Omitted in 1965-1966: 281 and 283, Alternate Routes, Geologic Demonstration Trip; 551-2, World Physiography; 561-2, Interpretation of Aerial Photographs; 575 and 577, Alternate Routes, Advanced Geology Field Trip.

Germanic Languages and Literatures

Professors Stern (Head of Department, 228 McMicken), Merkel (229 McMicken); Associate Professor Syring (230 McMicken); Assistant Professors Rudowski (2619 Clifton Ave.), Slessarev (231 McMicken); Visiting Lecturer Starkulla (228 McMicken).

German 101-2-3, 104-5-6, 201-2-3, and 204-5-6 will not count toward a major in German. German 231-2-3, 401-2-3, 437-8-9 and 501-2-3 shall be offered as a part of the requirement toward a major in German. In addition, German majors are expected to select German 171 as one of their elective courses in preparation for Part I (German Culture) of their Comprehensive Examinations.

All courses in German, except Senior Readings (437-8-9), may be entered at the beginning of the Winter or Spring Quarter, with the instructor's permission. To enter 100- and 200- level courses after the Autumn Quarter, students must obtain permission of the Department Head.

15-001-221, 222, 223. *World Literature*. For description, see page 41.