

University of
Cincinnati

1984-85



Bulletin

Courses of Instruction

- 15-041-771. **Seminar in Planned Urban Development.** 4 gr. cr. Locational strategies in urban complexes of North America and Western Europe: New towns. Win. Qtr.
- 15-041-775. **Seminar in Behavioral Geography.** 4 gr. cr. How people perceive their geographical environment and respond to it, in homeseeking, travel patterns, and migration; innovation diffusion. Spr. Qtr.
- 15-041-778. **Seminar in Geographic Development.** 4 gr. cr. Modernization of traditional societies and economies. Racial and political confrontations over land. Can international agencies help? Win. Qtr.
- 15-041-779. **Multinational Corporations.** 4 gr. cr. Contemporary corporations as change agents in global economic, urban, cultural, and political geography; new developments in location theory. Aut. Qtr.
- 15-041-782. **Seminar in Historical Geography.** 4 gr. cr. Settlement origins and dispersals; evolution of regions and urban networks; use of archival maps; preservation of historic landscapes. Win. Qtr.
- 15-041-788. **Seminar in Manufacturing Geography.** 4 gr. cr. Theory and practice of industrial site selection and transport linkages. Spr. Qtr.
- 15-041-814. **Interdisciplinary Seminar: Frontiers of Urban Research.** 3 gr. cr. Current research trends and techniques in the shared urban aspects of geography, history, political science, and sociology. For advanced graduate students wanting early reactions to theses or dissertations. Admission only with faculty approval.
- 15-041-815. **Interdisciplinary Seminar: Frontiers of Urban Research.** 3 gr. cr. See 15-041-814.
- 15-041-816. **Interdisciplinary Seminar: Frontiers of Urban Research.** 3 gr. cr. See 15-041-814.
- 15-041-878. **Seminar in Growth of Geographic Thought.** 4 gr. cr. Critical examination of guiding philosophies and research-paradigms in the 20th century. Aut. Qtr.

Supervised Individual Research

- 15-041-701. **Geographic Research.** Advanced research projects, pursued individually in the library or laboratories, requiring prior faculty approval. Cr. and hrs. to be arranged. Aut., Win., Spr. Qtrs.
- 15-041-702. **Geographic Research.** See 15-041-701.
- 15-041-703. **Geographic Research.** See 15-041-701.
- 15-041-871. **Thesis Research.** Preparation of the MA thesis, contingent upon faculty approval of a thesis proposal. Credits vary with the research accomplished. Aut., Win., Spr., Sum. Qtrs.
- 15-041-971. **Dissertation Research.** Preparation of the PhD dissertation, following completion of Comprehensive Examinations and faculty approval of a dissertation proposal. Credits may vary with the research accomplished. Aut., Win., Spr., Sum. Qtrs.

Geology

- 15-040-101. **Introduction to Geology.** 5 ug. cr. A survey of physical and historical geology. Fulfills Natural Science requirement. Lec. and Lab. Aut. Qtr. (C)
- 15-040-102. **Introduction to Geology.** 5 ug. cr. See 15-040-101. Win. Qtr.
- 15-040-103. **Introduction to Geology.** 5 ug. cr. See 15-040-101. Spr. Qtr.
- 15-040-104. **Geology of Man's Environment.** 3 ug. cr. An introductory course for those not expecting to major in earth sciences. Will satisfy one 9-credit sequence in the Natural Science requirement. Aut. Qtr. (C)
- 15-040-105. **Geology of Man's Environment.** 3 ug. cr. See 15-040-104. Win. Qtr.
- 15-040-106. **Geology of Man's Environment.** 3 ug. cr. See 15-040-104. Spr. Qtr.
- 15-040-107. **Geology from Space.** 3 ug. cr. Major geologic concepts are explained with the aid of LANDSAT photographs. Aut. Qtr.

The three following topics in geology (Geol. 261,2,3) will satisfy one 9-credit sequence in the Natural Science (C) requirement.

- 15-040-261. **Oceanography.** 3 ug. cr. The history of ocean basins, oceanic and atmospheric circulation, deep-sea sediments, paleoecology, past and future climate. Aut. Qtr.
- 15-040-262. **Plate Tectonics.** 3 ug. cr. The revolutionary concept of Plate Tectonics and its implications as to distribution of earthquakes, volcanoes, hydrocarbons and metallic mineral deposits. Win. Qtr.
- 15-040-263. **Energy.** 3 ug. cr. A survey of energy problems: geology, distribution, consumption, conservation; alternate future sources. Spr. Qtr.
- 15-040-301. **Mineralogy.** 4 ug. cr. Crystallography, crystal chemistry, atomic structures, geochemistry, and systematics of the common minerals. Aut. Qtr. Prereq.: College chemistry or perm. of instr.
- 15-040-302. **Mineralogy.** 4 ug. cr. See 15-040-301. Win. Qtr.
- 15-040-303. **Introduction to Optical Crystallography.** 4 ug. cr. Use of polarizing microscope for recognition of transparent materials in immersion media. Spr. Qtr. Prereq.: Geol. 302 or perm. of instr.
- 15-040-331. **Elementary Structural Geology.** 3 ug. cr. Description of tectonic structures. Laboratory methods in Structural Geology. Field trip. Win. Qtr.
- 15-040-371. **Geologic Demonstration Field Trip.** 3 ug. cr. A two-week field trip. September 1984. One-hour weekly conference with readings and exercises. Aut. Qtr.
- 15-040-374. **Geology for Engineers.** 4 ug. cr. Physical geology pertinent to engineering. Win., Spr. Qtrs.
- 15-040-477. **Introduction to Field Geology.** 3 ug. cr. An introduction to field mapping techniques, section measurement and geologic sampling. Spr. Qtr.
- 15-040-487. **Individual Work in Geology.** Credit depends on amount of work done. May be entered any quarter.
- 15-040-488. **Individual Work in Geology.** See 15-040-487.
- 15-040-489. **Individual Work in Geology.** See 15-040-487.
- 15-040-501. **Elementary Petrology.** 3 ug. or gr. cr. Descriptive petrology of the common rocks; microscope

and hand lens. Aut. Qtr. Prereq.: Geol. 301-2-3.

- 15-040-502. **Elementary Petrology.** 3 ug. or gr. cr. See 15-040-501. Win. Qtr.
- 15-040-504. **Geomorphic Processes.** 4 ug. or gr. cr. Mechanics of earth surface processes. Spr. Qtr.
- 15-040-505. **Landform Development.** 3 ug. or gr. cr. Morphology, origin and development of landforms. Win. Qtr.
- 15-040-510. **Physical and Chemical Processes in Geology.** 3 ug. or gr. cr. Study of interaction of chemicals and mechanical processes in geology. Prereq.: Physics, Chemistry & Calculus. Aut. Qtr.
- 15-040-511. **Physical and Chemical Processes in Geology.** 3 ug. or gr. cr. See 15-040-510. Win. Qtr.
- 15-040-512. **Physical and Chemical Processes in Geology.** 3 ug. or gr. cr. See 15-040-510. Spr. Qtr.
- 15-040-521. **Paleontology.** 4 ug. or gr. cr. Fundamental concepts; paleobiology and the geological occurrence and significance of fossil organisms. Aut. Qtr.
- 15-040-522. **Paleontology.** 4 ug. or gr. cr. See 15-040-521. Win. Qtr.
- 15-040-531. **Stratigraphy and Sedimentation.** 3 ug. or gr. cr. Physical and biological processes, environmental interpretation, facies analysis, stratigraphic analysis, basin analysis, and tectonics. Aut. Qtr.
- 15-040-532. **Stratigraphy and Sedimentation.** 3 ug. or gr. cr. See 15-040-531. Win. Qtr.
- 15-040-533. **Petroleum Geology.** 3 ug. or gr. cr. Introduction to the origin and occurrence of oil and gas, exploration techniques and economics. Spr. Qtr.
- 15-040-551. **Methods of Engineering Geology.** 3 ug. or gr. cr. Introduction to engineering geology through study of engineering projects. Field trips. Aut. Qtr. Prereq.: Geol. 331, 504, or perm. of instr.
- 15-040-553. **Anatomy of Landslides.** 3 ug. or gr. cr. Geologic setting, geometry and mechanisms of large, classic landslides throughout the world. Methods of stability analysis. Spr. Qtr.
- 15-040-555. **Engineering Geologic Mapping.** 3 ug. or gr. cr. Plane-table mapping of one of the fascinating landslides in Cincinnati. Spr. Qtr.
- 15-040-576. **Advanced Geology Field Trip.** 3 ug. or gr. cr. A two-week field excursion during September 1984. Conferences and report in Autumn Quarter. Aut. Qtr. Prereq.: Perm. of instr.
- 15-040-627. **Solution Geochemistry.** 3 ug. or gr. cr. Principles of solution chemistry as applied to sedimentary, hydrothermal and solid state processes. Win. Qtr. Prereq.: Geol. 548, or equiv., or perm. of instr.
- 15-040-628. **Solution Geochemistry.** 3 ug. or gr. cr. See 15-040-627. Spr. Qtr.
- 15-040-631. **Clay Mineralogy.** 3 ug. or gr. cr. Structural mineralogy, X-ray identification, and geologic characteristics of the major groups of clay minerals. Spr. Qtr. Prereq.: Geol. 301, 302.
- 15-040-648. **Thermodynamics in Geological Processes.** 4 ug. or gr. cr. Principles of thermodynamics and their application to geological problems. Aut. Qtr.
- 15-040-651. **Geological Data Analysis.** 3 ug. or gr. cr. Application of statistics and computing to diverse geological and paleontological problems. Many case histories. Spr. Qtr.
- 15-040-653. **Megasedimentology.** 3 ug. or gr. cr. The study of on- and off-shore basins. Methods and principles; case histories and written reports. Prereq.: Geol. 531,2. Aut. Qtr.
- 15-040-662. **Igneous Petrology.** 4 ug. or gr. cr. Geology and petrology of major igneous rock groups. Petrographic demonstrations and exercises. Report. Win. Qtr. Prereq.: Geol. 501.
- 15-040-663. **Metamorphic Petrology.** 4 ug. or gr. cr. Geology and petrology of metamorphic terranes. Petrographic demonstrations and exercises. Report. Spr. Qtr. Prereq.: Geol. 502.
- 15-040-673. **Tectonics I.** 3 ug. or gr. cr. Principles of tectonics: plate tectonics; paleomagnetism; extensional, compressional, wrench tectonics; gravity tectonics. Field trip. Prereq.: Geol. 331 or equiv. Aut. Qtr.
- 15-040-677. **Tectonics II.** 3 ug. or gr. cr. Tectonic evolution of North America; Canadian shelf; Appalachians; Cordillera. Prereq.: Geol. 673 or perm. of instr. Win. Qtr.
- 15-040-678. **Tectonics III.** 3 ug. or gr. cr. Tectonics of the Alpine-Himalayan mountain belt. Applied structural geology—interpretation of seismic sections. Prereq.: Geol. 331 or 677 or perm. of instr. Spr. Qtr.
- 15-040-691. **The Solid Earth.** 3 ug. or gr. cr. Physical and chemical processes of the earth's upper mantle and crust. Phase equilibria of rock systems. Spr. Qtr.
- 15-040-693. **Modern Concepts in Oceanography.** 3 ug. or gr. cr. Water masses, surface and thermohaline circulation, oceanic-atmospheric interactions, productivity and marine life, deep-sea sediments and geological implications. Spr. Qtr.
- 15-040-694. **Paleoecology.** 3 ug. or gr. cr. Fundamental ecological processes. Physical and chemical parameters. Recent marine ecological models and ancient analogs. Prereq.: Geol. 521-522. Aut. Qtr.
- 15-040-695. **Paleoecology.** 3 ug. or gr. cr. See 15-040-694. Win. Qtr.
- 15-040-697. **Paleoceanography.** 3 ug. or gr. cr. Lecture and seminar approach. Spr. Qtr.

Primarily for graduate students

- 15-040-705. **Geology of the Mid-Continent.** 1 gr. cr. Department Fall field trip.
- 15-040-721. **Theory and Application of Finite Strain.** 3 gr. cr. Analysis and measurement of finite strain. Aut. Qtr. Prereq.: Some mechanics.
- 15-040-722. **Theories of Folding and Density Instability.** 3 gr. cr. Folding and diapirism of viscous, powerlaw, elastic, and strain-hardening materials. Win. Qtr. Prereq.: Geol. 721.
- 15-040-723. **Theories of Fracturing, Jointing and Faulting of Rock.** 3 gr. cr. Forms of fractures in porous, ductile and dense, brittle rocks. Foreland thrusting. Spr. Qtr.
- 15-040-732. **Geochemistry of Hydrothermal Ore Deposits.** 2 gr. cr. Spr. Qtr.
- 15-040-741. **Optical Crystallography.** 4 gr. cr. Use of the polarizing microscope for recognition of transparent substances in immersion media. Spr. Qtr.
- 15-040-775. **Field Studies in Modern and Ancient Depositional Environments.** 2 gr. cr. 10 to 14 day field trip during Spring vacation or in June. Report.
- 15-040-780. **Methods of Geological Instruction.** Cr. to be arranged. Offered ea. qtr.

- 15-040-801. **Methods of Geological Analysis.** 3 gr. cr. Introduction to X-ray, microbeam, and atomic absorption analyses of rock and mineral composition. Win. Qtr.
- 15-040-814. **Advanced Sedimentary Petrology.** 4 gr. cr. Advanced study of major groups of sedimentary rocks, composition, origins, geological interpretations. Aut. Qtr.
- 15-040-815. **Advanced Sedimentary Petrology.** 4 gr. cr. See 15-040-814. Win. Qtr.
- 15-040-816. **Sedimentary Ore Deposits.** 3 gr. cr. Petrology, geochemistry and origin of low temperature ore deposits. Spr. Qtr.
- 15-040-821. **Paleontology Seminar.** 3 gr. cr. A graduate seminar dealing with many facets of paleontology; principles, organisms, methods.
- 15-040-822. **Paleontology Seminar.** 3 gr. cr. See 15-040-821. Win. Qtr.
- 15-040-823. **Paleontology Seminar.** 3 gr. cr. See 15-040-821. Spr. Qtr.
- 15-040-833. **Sedimentology Seminar.** 1 gr. cr.
- 15-040-834. **Sedimentology Seminar.** 1 gr. cr.
- 15-040-835. **Sedimentology Seminar.** 1 gr. cr.
- 15-040-874. **Universal Stage Microscope Studies.** 2 gr. cr.
- 15-040-875. **Universal Stage Microscope Studies.** 2 gr. cr.
- 15-040-876. **Universal Stage Microscope Studies.** 2 gr. cr.
- 15-040-881. **Research—Special Problems in Geology.** Cr. arranged. Offered ea. qtr.
- 15-040-893. **Master's Thesis Research.** Cr. arranged. Offered ea. qtr.
- 15-040-971. **Doctoral Dissertation Research.** Cr. arranged. Offered ea. qtr. Perm. of adviser required.

Germanic Languages and Literatures

- 15-000-271. **Professional Development I.** 1 ug. cr. Designed to acquaint students with the Professional Practice Program; basic characteristics, concepts of career planning; methods of relating self-analysis to career options; generalized insights into realities of professional community; development of necessary skills for effective participation in employment process. Prerequisite to participation in Professional Practice Program. Win., Spr. Qtrs.
- 15-010-101. **Elementary German.** 3 ug. cr. This course followed by 201-2; 204-5-6 or 207-8-9, will satisfy the language requirement. Some assignments require attendance in the language laboratory. (B)
- 15-010-102. **Elementary German.** 3 ug. cr. See 15-010-101.
- 15-010-103. **Elementary German.** 3 ug. cr. See 15-010-101.
- 15-010-104. **Elementary German with Conversation.** 5 ug. cr. This course will satisfy the language requirement. Some assignments require attendance in the language laboratory. (B)
- 15-010-105. **Elementary German with Conversation.** 5 ug. cr. See 15-010-104.
- 15-010-106. **Elementary German with Conversation.** 5 ug. cr. See 15-010-104.
- 15-010-111. **Beginning German: Trailer Course.** 5 ug.; 4 ug. cr. (Equivalent of 101-2-3.) Some assignments in language laboratory. Win., Spr. Qtrs. (B)
- 15-010-112. **Beginning German: Trailer Course.** 5 ug.; 4 ug. cr. See 15-010-111.
- 15-010-121. **Elementary German for Music Students.** 3 ug. cr. Material tailored to the needs and interests of students in CCM. Aut., Win., Spr. Qtrs.
- 15-010-122. **Elementary German for Music Students.** 3 ug. cr. See 15-010-121.
- 15-010-123. **Elementary German for Music Students.** 3 ug. cr. See 15-010-121.
- 15-010-151. **Elementary Swedish.** See listing under Scandinavian Studies.
- 15-010-152. **Elementary Swedish.** See listing under Scandinavian Studies.
- 15-010-153. **Elementary Swedish.** See listing under Scandinavian Studies.
- 15-010-181. **Elementary German (Honors).** Open to qualified undergraduates. See Honors Program. (B)
- 15-010-182. **Elementary German (Honors).** See 15-010-181.
- 15-010-183. **Elementary German (Honors).** See 15-010-181.
- 15-010-201. **Intermediate German: General Readings.** 3 ug. cr. Readings and discussions of German literature and culture, with grammar review. Open to students who have successfully completed German 101-2-3 or equivalent. Not open to students who have successfully completed 104-5-6. (B)
- 15-010-202. **Intermediate German: General Readings.** 3 ug. cr. See 15-010-201.
- 15-010-203. **Intermediate German: General Readings.** 3 ug. cr. See 15-010-201.
- 15-010-204. **Intermediate German for Science Majors.** 3 ug. cr. Readings and discussions of German science texts, with grammar review. Open to students who completed German 101-2-3 or equivalent. Not open to students who have completed 104-5-6 or more than 9 credits of 107. (B)
- 15-010-205. **Intermediate German for Science Majors.** 3 ug. cr. See 15-010-204.
- 15-010-206. **Intermediate German for Science Majors.** 3 ug. cr. See 15-010-204.
- 15-010-207. **Intermediate Conversational German.** 3 ug. cr. Emphasis on oral expression and understanding grammar review, culture. Prereq.: Germ. 101-2-3 or equiv. Not open to students who have successfully completed Germ. 104-5-6 or more than 9 cr. of 107. (B)
- 15-010-208. **Intermediate Conversational German.** 3 ug. cr. See 15-010-207.
- 15-010-209. **Intermediate Conversational German.** 3 ug. cr. See 15-010-207.
- 15-010-251. **Intermediate Swedish.** 3 ug. cr. See listing under Scandinavian Studies.
- 15-010-252. **Intermediate Swedish.** 3 ug. cr. See listing under Scandinavian Studies.

- 15-010-253. **Intermediate Swedish.** 3 ug. cr. See listing under Scandinavian Studies.
- 15-010-281. **Intermediate German (Honors).** Open to qualified undergraduates. See Honors Program. (B)
- 15-010-282. **Intermediate German (Honors).** See 15-010-281.
- 15-010-283. **Intermediate German (Honors).** See 15-010-281.
- 15-010-194. **Honors Independent Study and Guided Research.** See Honors Program.*
- 15-010-195. **Honors Independent Study and Guided Research.** See 15-010-194.*
- 15-010-196. **Honors Independent Study and Guided Research.** See 15-010-194.*

Primarily for sophomores and upperclassmen

Any of the following literature courses (plus 524,5,6) will fulfill in part the Humanities requirement of the College.

Prerequisite for these courses: German 106, or 203, 206, 209, or equivalent.

- 15-010-304. **The German-Speaking World Today.** 3 ug. cr. (Modern Topics.) West Germany, East Germany, Austria, and Switzerland: their geography, social structure, political institutions, economics, and cultural achievements. Lectures and discussions in English and German.* (D)
- 15-010-305. **The German-Speaking World Today.** 3 ug. cr. See 15-010-304.*
- 15-010-306. **The German-Speaking World Today.** 3 ug. cr. See 15-010-304.*
- 15-010-314. **Introduction to German Literature.** 3 ug. cr. May be taken concurrently with German 331-2-3. Thematic approach. Autumn: The Outsider and Variation of Conformity; Winter: Heroes and Villains; Spring: Man's Inhumanity to Man.* (D)
- 15-010-315. **Introduction to German Literature.** 3 ug. cr. See 15-010-314.*
- 15-010-316. **Introduction to German Literature.** 3 ug. cr. See 15-010-314.*
- 15-010-331. **German Composition and Conversation.** 3 ug. cr. Practice and use of everyday German at the beginning level, emphasis on active vocabulary; review of grammar, oral expression and practical correspondence.
- 15-010-332. **German Composition and Conversation.** 3 ug. cr. See 15-010-331.
- 15-010-333. **German Composition and Conversation.** 3 ug. cr. See 15-010-331.
- 15-010-341. **Accelerated Composition and Conversation.** 3 ug. cr. Equivalent to 15-010-331 but open only to students in the National Work-Study Program in Germany. Aut. Qtr. (B)
- 15-010-342. **Accelerated Composition and Conversation.** 3 ug. cr. Equivalent to 15-010-332 but only open to students in the National Work-Study Program in Germany. Aut. Qtr. (B)
- 15-010-343. **Accelerated Composition and Conversation.** 3 ug. cr. Equivalent to 15-010-333 but only open to students in the National Work-Study Program in Germany. Aut. Qtr. (B)
- 15-010-499. **Individual Projects.** 3-5 ug. cr. Upon arrangement with Dept. head. Offered ea. qtr. Hrs. to be arranged.
- 15-010-502. **Eighteenth Century Literature: The Classical Period in German Literature.** 3 ug.; 4 gr. cr. Representative works with emphasis on Schiller and Goethe. Spr. Qtr. (D)
- 15-010-503. **Nineteenth Century Literature: German Romanticism.** 3 ug.; 4 gr. cr. Viewed in its European context. Aut. Qtr. (D)
- 15-010-508. **Twentieth Century Literature: Expressionism in German Life, Literature and the Arts.** 3 ug.; 4 gr. cr. An analysis of this movement from 1910-1930 and its manifestation in lyric, prose, film, art and music. Win. Qtr. (D)
- 15-010-510. **Twentieth Century Literature: Literature and Post-War German Society.** 3 ug.; 4 gr. cr. An analysis of German lyrics, prose and drama since 1945. Spr. Qtr. (D)
- 15-010-524. **Business German.** 3 ug.; 4 gr. cr. An advanced language and area studies course, acquainting students with the terminology of German business. Conversational approach to economic structures, the press and advertising. Aut. Qtr. (D)
- 15-010-525. **Business German.** 3 ug.; 4 gr. cr. An advanced language and area studies course, acquainting students with the terminology of German business. Conversational approach to import-export trade, practice in German business-letter writing. Win. Qtr. (D)
- 15-010-526. **Business German.** 3 ug.; 4 gr. cr. An advanced language and area studies course, acquainting students with the terminology of German business. conversational approach to fiscal and corporate reports, stock market, relationship of business with government. Spr. Qtr. (D)
- 15-010-531. **Advanced Composition and Conversation.** 3 ug.; 4 gr. cr. Aut. Qtr.*
- 15-010-532. **Advanced Composition and Conversation.** 3 ug.; 4 gr. cr. Win. Qtr.*
- 15-010-533. **Advanced Composition and Conversation.** 3 ug.; 4 gr. cr. Spr. Qtr.*
- 15-010-541. **Advanced Composition and Conversation. Accelerated.** 3 ug. or gr. cr. Equivalent to 15-010-531 but open only to students in the National Work-Study Program in Germany. Aut. Qtr.
- 15-010-542. **Advanced Composition and Conversation. Accelerated.** 3 ug. or gr. cr. Equivalent to 15-010-532 but open only to students in the National Work-Study Program in Germany. Aut. Qtr.
- 15-010-543. **Advanced Composition and Conversation. Accelerated.** 3 ug. or gr. cr. Equivalent to 15-010-533 but open only to students in the National Work-Study Program in Germany. Aut. Qtr.
- 15-010-551. **Survey of German Literature, Part I.** 3 ug.; 4 gr. cr. Major trends from 750 to 1700 with particular emphasis on the change of ideas and forms. Aut. Qtr. (D)
- 15-010-552. **Survey of German Literature, Part II.** 3 ug.; 4 gr. cr. Major trends of Enlightenment, Storm and Stress, Classicism, Romanticism and Post-Romanticism. Win. Qtr. (D)
- 15-010-553. **Survey of German Literature, Part III.** 3 ug.; 4 gr. cr. Major trends from 1850 to present: Realism, Naturalism, Impressionism, Expressionism, Post-War Literature, Literature of German Democratic Republic. Spr. Qtr. (D)