taphonomy, and evolution of fossil and modern marine assemblages; adaptations and functional morphology; organism-environment relationships.

7117 Biostatistics (3) Prereq.: GEOL 2061 or equivalent. 2 hrs. lecture; 2 hrs. lab. Statistitical concepts; modern rules of inference; governing formation, deposition, and diagenesis of carbonate rocks; lab stresses textural, fabric, and mineral relationships of depositional environments and mineral paragenesis of ancient carbonate sequences.

7134 Clay Mineralogy (3) 2 hrs. lecture; 3 hrs. lab. Classical and modern methods of study, with emphasis on geology of clay minerals; argillaceous sediments and rocks.

7195 Reservoir Characterization (3) Prereq.: GEOL 4182 or PETE 4051 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Also offered as PETE 7195. Origin, description, exploration, and development of oil and gas reservoirs; topics include accommodation space, reservoir occurrence, origin of petroleum, oil and gas properties, rock properties, drilling exploration, and appraisal; reservoir flow modeling and production engineering; emphasis on integration of geology, geophysics, and petroleum engineering.

7200 Scientific Communication and Visualization (3) Methods for written, oral, and visual communication with an emphasis on scientific approaches, analysis and presentation of scientific quantitative information.

7900 Special Topics in Geology and Geophysics (3) V May be taken for a max. of 12 sem. hrs. of credit when topics vary. Advanced and/or emerging topics in geology and geophysics.

7990 Directed Research in Geology and Geophysics (1-6) May be taken for a max. of 6 sem. hrs. of credit when topics vary. General student-selected research topics and focused group research, including all topics in geology and geophysics.

7991 Seminar in Geology: Paleontology (2) May be repeated for credit.

7993 Seminar in Geology: Sedimentology (2) May be repeated for credit. Fall semester: carbonate sedimentology; spring semester: clastic sedimentology and sedimentary environment.

7941 Seminar in Geology: Igneous and Metamorphic Petrology (2) May be repeated for credit.

7961 Seminar in Geology: Structural Geology (2) May be repeated for credit.

7966 Field Work (1-9) 7971 Seminar in Tectonics (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Plate tectonics, diapirism, isostasy, and the tectonics of specific areas.

7972 Seminar in Geophysics (3) May be taken for a max. of 9 sem. hrs. of credit when topics vary. Structure and composition of the mantle; physical processes at ridges, trenches, and transform faults; dynamics of plate interiors; intraplate seismology; histories of the earth and other terrestrial planets; physics of rock magnetism; and hydrodynamics of sedimentary basins.

7981 Seminar in Chemical Geology (3) Prereq.: consent of instructor. May be taken for a max. of 6 hrs. of credit. Mineralogy, paragenesis, geochemistry, and natural occurrence of sediments; other topics such as hydrogeochemistry, isotope geochemistry, and the geochemistry of carbonates.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

GERMAN • GERM

Native speakers of German will not receive credit for courses marked with an asterisk (*).

General education courses are marked with stars (★).  

★1101 Elementary German (4) Basic lexicon and structures of German; emphasis on communicative language use; supplementary work in language and computer laboratories.

★1102 Elementary German (4) Prereq.: GERM 1101 or equivalent. Continuation of GERM 1101. Basic lexicon and structures of German; emphasis on communicative language use. Supplementary work in language and computer laboratories.

2001 German for Travelers (3) German for travelers is not applicable towards a major or minor in German and does not fulfill foreign language requirements for undergraduates. The course introduces basic communication patterns, focuses on practical everyday vocabulary through exercises, role-playing, and situational activities.

★2100 Intermediate German (3) Prereq.: GERM 1102 or equivalent. Reading, conversation, composition; review of lexicology and supplementary work in language and computer laboratories.

★2101 Intermediate German (3) Prereq.: GERM 2101 or equivalent. Continuation of GERM 2101. Reading, conversation, composition; emphasis on lexicology of spoken German; supplementary work in language and computer laboratories.

★2115 Readings in German Literature (3) Prereq.: GERM 2102 or equivalent. Analysis of literary texts; expansion of lexicology, comprehension, and composition skills.

3060 German for Business (3) Prereq.: GERM 2102 or equivalent. Introduction to German in a business context; emphasis on linguistic structures and vocabulary, forms of business communication, reading of business text, and social customs.

3061 German Discourse (3) Prereq.: GERM 2102. Intensive practice in listening comprehension, oral and written communication; special problems in German structure; thematic treatment of contemporary issues in German-speaking countries.

3062 Advanced German Discourse (3) Prereq.: GERM 3061. Continued intensive practice in listening comprehension, oral and written communication; special problems in German structure; thematic treatment of contemporary issues in German-speaking countries.

3083 Survey of German Literature and Culture (3) Beginning to 1700 (3) Prereq.: GERM 2155 or equivalent. Readings from, and an historical overview of, the Middle Ages, the Renaissance, the Reformation, and the Baroque periods.

3082 Survey of German Literature and Culture (3) 1700-1830 (3) Prereq.: GERM 2155 or equivalent. Readings from, and an overview of, the Enlightenment, Storm and Stress, Weimer Classicism, and Romanticism.

3083 Survey of German Literature and Culture (3) 1830-1890 (3) Prereq.: GERM 2155 or equivalent. Readings from, and a historical overview of, Biedermeier/Vormarz, Realism, and Naturalism.

3084 Survey of German Literature and Culture (3) 1890-to the Present (3) Prereq.: GERM 2155 or equivalent. New Objectivity, the Group 47, GDR literature, and Post-Modernism.

3090 Friedrich Nietzsche (3) Knowledge of German not required. Also offered as PHIL 3090. Major works of Nietzsche studied in the context of the three periods of productivity and evolution of his thought.

3091 Special Topics in German Literature in Translation (3) Knowledge of German not required. May be taken for a max. of 6 hrs. of credit when topics vary.

4005 German for Reading Knowledge (5) S Specialized course intended to satisfy departmental foreign language reading requirements for graduate students. This course will not count toward a graduate degree. Undergraduates may enroll on a pass-fail basis only. Does not count toward satisfactory foreign language requirements for undergraduates, although hours may count toward baccalaureate credit. Credit will not be given for both this course and introductory German courses.

4030 German Drama (3) Dramatic literature in German.

4031 German Poetry (3) Study of German poetic expression.

4032 German Prose (3) Study of stylistic analyses and narrative theories.

4041 Special Topics in Older Germanic Literature and Culture (3) May be taken for a max. of 6 hrs. of credit when topics vary.

4042 Special Topics in 18th Century German Literature and Culture (3) May be taken for a max. of 6 hrs. of credit when topics vary.

4043 Special Topics in 19th Century German Literature and Culture (3) May be taken for a max. of 6 hrs. of credit when topics vary.

4044 Special Topics in 20th Century German Literature and Culture (3) May be taken for a max. of 6 hrs. of credit when topics vary.

4045 Special Topics in Contemporary German Literature and Culture (3) May be taken for a max. of 6 hrs. of credit when topics vary.

4046 German Film (3) Knowledge of German not required. German film in its socio-historic contexts with some attention to cinematic technique.

4062 Advanced German Discourse (3) Prereq.: GERM 3061 or equivalent. Continuation intensive practice in complex grammar and structures. Analysis and synthesis of authentic German material with focus on reading and writing.

4091 Special Topics in German Literature and Culture in Translation (3) May be taken for a max. of 6 hrs. of credit when topics vary. Knowledge of German not required.

4915 Independent Work (1-3) May be taken for a max. of 3 sem. hrs. credit. Permission of department required.

GREEK • GREK

General education courses are marked with stars (★).

1001 Elementary Greek (4) Credit will not be given for this course and GREK 1002. Introduction to the core vocabulary and grammar for reading and writing Ancient Greek; basic readings in Classical and Biblical Greek.

1002 HONORS: Elementary Greek (4) Same as GREK 1001, with special honors emphasis for qualified students. Credit will not be given for this course and GREK 1001. Homerian dialect, grammar, and meter, while reading basic passages from Homer’s Iliad.

2051 Intermediate Greek (4) Prereq.: GREK 1001 or equivalent. Credit will not be given for this course and GREK 2051. Application of grammar, vocabulary and concepts from the first year of Greek. Readings in ancient Greek prose.

2102 Intermediate Greek (4) Prereq.: GREK 2051 or equivalent. Readings from Plato’s dialogues.

2103 Intermediate Greek (4) Prereq.: GREK 2051 or equivalent. Readings from the Iliad or Odyssey; selected passages from various books; some attention to aesthetic and historical development.

★2155 Greek Drama (3) Prereq.: GREK 2103 or equivalent. Readings in Greek drama including a representative play of Sophocles or Euripides.


2165 Plato's Dialogues (3) Prereq.: GREK 2103 or equivalent.

2166 Attic Oratory (3) Prereq.: GREK 2103 or equivalent. Readings from Attic orators such as Demosthenes, Andocides, Antiphon, Lysias.

4023 Special Topics in Greek Poetry (3) May be taken for a max. of 6 hrs. of credit. Readings and studies in one or more of the following: Homer, Pindar, Bacchylides, lyric poetry, Aeschylus, Sophocles, Euripides, Aristophanes.

4024 Special Topics in Greek Prose (3) May be taken for a max. of 6 hrs. of credit. Readings and studies in one or more of the following: Herodotus, Thucydides, the Pro-Socratics, the orators, Plato, Aristotle.

4915 Independent Work (1-3) May be taken for a max. of 6 sem. hrs. of credit. Permission of department required. Readings in Greek literature directed by a senior faculty member.

7003 Seminar in Greek Literature (3) May be taken for a max. of 15 hrs. of credit as a tutorial.