

- GEL 4700-3 Subsurface Geology (3 + 0)**
 Prerequisites: GEL 3700 and GEL 3710, or permission of instructor
 This course guides students through geological interpretation using field observations, well logs, samples, cores, seismic sections, and other indirect methods. The course then teaches the students how to present the interpretations in a meaningful way. Well log analysis and subsurface mapping use computer methods where they are appropriate.
- GEL 4950-2-15 Internship in Geology (0 + 6-45)**
 Prerequisites: land use major with geology emphasis with upper division standing plus 12 upper-division hours in geology, permission of the chair of the earth and atmospheric science department
 This course provides an on-the-job internship experience with a geology-related company or agency. The experience must be done under qualified supervision and the auspices of an earth and atmospheric sciences faculty member.

GERMAN

- GER 1000-3 German for Travel I (3 + 0)**
 This course is designed to concentrate on basic conversational skills for travelers. It does not fulfill the prerequisite requirements for any 2000-level course.
- GER 1001-3 German for Travel II (3 + 0)**
 Prerequisite: GER 1000 or equivalent or permission of instructor
 This course is a continuation of GER 1000 and includes modes of travel, hotel/restaurant operations, and etiquette in the world of travel and hospitality. It does not fulfill the prerequisite requirements for any 2000-level course.
- GER 1010-5 Elementary German I (5 + 0)**
 This is an introductory course in German, including pronunciation, grammar, and reading, with emphasis on speaking and understanding.
- GER 1020-5 Elementary German II (5 + 0)** (This course is not approved for guaranteed transfer to other Colorado colleges and universities)
 Prerequisite: GER 1010, or one or two years of high school German
 This is a continuation of GER 1010. (General Studies—Level I, Communications)
- GER 1800-1-15 International German Year I (1-15 + 0)**
 This is a variable-credit course for first-year students learning German in a study-abroad setting. It recognizes an approved study-abroad educational experience in German speaking, comprehension, reading, and writing.
- GER 2110-3 German Reading and Conversation (3 + 0)**
 Prerequisite: one year of college German or equivalent or permission of instructor
 This course prepares the student to read and to communicate with ease in German. It emphasizes vocabulary and idiomatic phrases used in everyday language.
- GER 2120-3 German Civilization (3 + 0)**
 Prerequisite: one year of college German or equivalent or permission of instructor
 This course emphasizes the broadening of reading and conversational skills. It introduces the student to various aspects of German civilization, from its geography and history to its philosophical and political thought, arts, music, and modern living.
- GER 2310-3 German Vocabulary Building and Grammar (3 + 0)**
 Prerequisite: one year of college German or equivalent or permission of instructor
 This course is designed to strengthen the student's grammatical background by reinforcing old principles and introducing new, more advanced principles of grammar and to increase vocabulary.
- GER 2320-3 German Composition and Free Writing (3 + 0)**
 Prerequisite: one year of college German or equivalent or permission of instructor
 This course is designed to strengthen the student's writing skills. It exposes the student to various topics of interest to today's college student. In addition to the textbook, informative films will be presented and articles from German newspapers and magazines will be used.

460 COURSE DESCRIPTIONS

- GER 2800-1-15 International German Year II (1-15 + 0)**
Prerequisite: one year of college German or equivalent
This variable-credit course recognizes second-year study of German language and culture in an approved study-abroad setting.
- GER 3010-3 Third Year German Conversation (3 + 0)**
Prerequisite: GER 2110 or 2120 or four years of high school German
This course strengthens conversational ability with more complicated idiomatic and structural elements, using techniques such as skits, debates, and small-group discussions to improve fluency and broaden the scope of communication. Conducted in German.
- GER 3050-3 Cultural Crossroads: France, Germany, Spain (3 + 0) (FRE 3050, MDL 3050, SPA 3050)**
Prerequisite: ENG 1020
This course gives students the cultural background necessary to understand and appreciate those spiritual and intellectual developments that have given today's three European nations (representing our language disciplines) their characteristics. Main topics include the Indo-European language family, the cultural and technological development of Germanic and Romance-speaking countries, the causes for the rise and fall of these countries throughout the 2000 years under consideration, the role of women in politics and the arts, the development of differing social etiquette, reasons for mass emigrations, and contributions of immigrants to their new countries, and the effect that the European Union has on the educational social welfare of its member nations. Students can get credit for only one prefix.
- GER 3150-3 German Phonetics: Theory and Practice (3 + 0)**
Prerequisite: two years of college German or equivalent or permission of instructor
This course covers improvement of pronunciation and speech habits based on an understanding of the phonetics of German. After an introduction to the basic speech mechanism through principles of linguistics, the course offers practice in pronunciation through the declamation of selected texts.
- GER 3200-3 German Culture and Civilization (3 + 0)**
Prerequisites: two years of college German or equivalent or permission of instructor and satisfaction of Level I General Studies course requirements
This course is an advanced German conversational approach to the main cultural events that have shaped German lifestyles. Historical events, as well as modern German lifestyles of Germany, Austria, and Switzerland are discussed. The format is reading-discussion, conducted in German. Students are required to give oral presentations. (General Studies—Level II, Arts and Letters)
- GER 3210-3 Survey of German Literature I (3 + 0)**
Prerequisite: two years of college German or equivalent or permission of instructor
This course provides an insight into German historical and cultural development through selected readings in German literature, from its beginning to the 18th century.
- GER 3220-3 Survey of German Literature II (3 + 0)**
Prerequisite: two years of college German or equivalent or permission of instructor
This course covers the history of German literature of the 18th, 19th, and early 20th centuries, including selected readings of principle German authors, lectures on biography and criticism, and recitation. Conducted in German.
- GER 3230-3 Contemporary German Writers (3 + 0)**
Prerequisite: two years of college German or equivalent or permission of instructor
After a rapid survey of philosophical, political, economic, and social backgrounds, this course emphasizes works of distinguished contemporary authors. Lectures on biography and criticism are interspersed as convenient. A term paper is assigned. Conducted in German.
- GER 3300-3 Advanced German Grammar (3 + 0)**
Prerequisites: GER 2310, 2320 or permission of instructor
This course is designed to prepare the student for the demands of the use of literary and scientific German at advanced levels. The student is led into an appreciation of the deeper structures of the language and the functional aspects of grammar in communication.
- GER 3400-3 German Business Culture (3 + 0)**
Prerequisite: GER 2310 or permission of instructor
This course is for students who plan to do business with people in German-speaking countries. The course incorporates specialized language pertaining to marketing, banking, the structure of corporations, and the code of behavior in the business world as well as the social protection of the gainfully employed; transportation; import; and export.

- GER 3410-3 Translation Techniques for Scientific Materials (3 + 0)**
Prerequisite: GER 2320 or permission of instructor
This course is designed for the understanding of writings in the field of science. Attention is given to the specialized vocabulary, idioms, and sentence structure in this field. Translations on up-to-date topics are from German into English, facilitating reading and comprehension.
- GER 3800-1-15 International Advanced German (1-15 + 0)**
Prerequisite: junior or senior standing in German or equivalent
This course recognizes upper-division study in language, culture, and literature in a study-abroad setting. It uses a variety of methods and includes reading, writing, and discussion seminars in German.
- GER 4020-3 Advanced German Composition (3 + 0)**
Prerequisite: three hours of third-year college German
This course is an advanced study of the application of vocabulary, idiomatic expressions, and grammatical structures necessary for effective written communication. It includes review and expansion of various grammatical topics, exercises on stylistics, and considerable expansion of the student's vocabulary. Conducted in German.
- GER 4200-3 Major German Authors (3 + 0)**
Prerequisites: nine hours of German above 1020 or permission of instructor, senior standing necessary if used for Senior Experience requirement
The course traces in representative works the artistic and intellectual development of major German authors who have gained a place in world literature. Class periods will be devoted to historical background, biographies, group discussions and analysis. Class is conducted in German, requiring oral and written reports. (Senior Experience)
- GER 4210-3 Advanced Conversation: Present-day Germany (3 + 0)**
Prerequisite: three hours of third-year college German or permission of instructor
This course is designed to help the student develop an understanding of present-day Germany. Recent and current socioeconomic changes and political trends are emphasized. Articles in recent issues of a leading German periodical are used as basis for classroom discussion, student reports, and themes.
- GER 4400-3 Advanced German Business Culture (3 + 0)**
Prerequisites: nine hours of German above 1020 or permission of instructor, senior standing necessary if used for Senior Experience requirement
The course focuses on business topics with specialized language pertaining to industry, marketing, finance, social welfare, the consumer in general and the environment. Class is conducted in German, requiring oral and written reports. (Senior Experience)
- GER 4410-3 Advanced Translation Techniques (3 + 0)**
Prerequisites: GER 3310 or permission of instructor, senior standing necessary if used for Senior Experience requirement
This course practices the different translation techniques (from German to English and from English to German) in a variety of materials taken from economics, law, medicine, the fine arts, biographies, geography, history, and others. Attention is given to the unique tone of each document. (Senior Experience)

GEOGRAPHIC INFORMATION SYSTEMS

- GIS 1710-2 Terrestrial Navigation (1 + 2)**
This course is an introduction to the science of land navigation. Students will use celestial sights, maps and Global Positioning System (GPS) to locate positions in the field. There are required field exercises.
- GIS 2250-3 Introduction to Geographic Information Systems (2 + 2)**
Prerequisites: GEG 1220 and CSS 1010 (or CMS 1010) or permission of instructor
This is an introductory course that provides students with the basic theoretical, technical, and application knowledge of Geographic Information Systems (GIS). It introduces and provides direct experience with the techniques used to manipulate and display spatial data using GIS.
- GIS 3210-4 Introduction to Cartography (2 + 4)**
Prerequisite: GEG 1220
This course provides instruction in the use and interpretation of maps, as well as the tools and constructional techniques of maps. Students will construct a variety of maps at different map scales and projections and critique their effectiveness.