EUR 390-I Special Topics in European Studies
Semester supplements to this Bulletin contain descriptions when the course is offered. May be repeated as the topic changes.
Prerequisite: U3 or U4 standing
Advisory Prerequisite: To be announced with the topic
3 credits

EUR 401 Senior Research Seminar in European Studies
Intensive investigation of specific topics within the European Studies concentrations. Students will develop their skills in selecting a relevant topic, problematizing it, conducting research and writing on it in a persuasive fashion, presenting their findings in the seminar, and submitting a written paper at least 20 pages in length.
Prerequisites: EUR 201; 15 additional credits in the major; U4 standing; European Studies major
3 credits

EUR 447 Directed Readings in European Studies
Independently supervised readings in selected topics in European Studies. May be repeated.
Prerequisite: Permission of instructor
1-6 credits

EUR 475 Undergraduate Teaching Practicum in European Studies I
Students aid instructors and students in European Studies courses in one or several of the following ways: leading discussions, helping students improve writing and research skills, and library research. Students meet regularly with the supervising instructor. Students may not serve as teaching assistants in the same course twice.
Prerequisites: U3 or U4 standing; permission of instructor and department; EUR major or minor
3 credits, S/U grading

EUR 476 Undergraduate Teaching Practicum in European Studies II
Students aid instructors and students in European Studies courses in one or several of the following ways: leading discussions, helping students improve writing and research skills, and library research. Students meet regularly with the supervising instructor. In EUR 476, students assume greater responsibility in areas such as leading discussions and analyzing results of tests that have already been graded. Students may not serve as teaching assistants in the same course twice.
Prerequisites: EUR 475; permission of instructor and department; EUR major or minor
3 credits, S/U grading

EUR 487 Independent Project in European Studies
The designing and carrying out of a research project selected by the student and arranged by the student and the instructor. May be repeated once.
Prerequisite: Permission of instructor
0-6 credits

EUR 488 Internship in European Studies
Participation in local, state, national, and international public and private agencies and organizations to apply and reinforce language and related skills and knowledge of social and cultural institutions. May be repeated up to a limit of 12 credits.
Prerequisites: Permission of instructor and department
0-6 credits, S/U grading

EUR 495 Senior Honors Project in European Studies
A one-semester project for seniors. Arranged in consultation with the department, the project involves writing a paper, under the close supervision of an appropriate instructor, on a suitable topic. Students who are candidates for honors take this course.
Prerequisites: Permission of instructor and department
3 credits

EXT Externships
EXT 288 Internship
Internships are work-learning arrangements. These supervised, career-related work experiences, combined with reflection that relates the work to academic study, help students “learn by doing.” A sponsored internship with an off-campus organization or on-campus agency gives students an opportunity to learn how to effectively apply their university studies to work in professional settings and explore untested areas of work experience. Internships must be sponsored by a faculty member. As with established guidelines for EXT 488 internship, a request for approval of the Career Center Internship Manager must be submitted no later than two days prior to the last day of the add period as scheduled in the academic calendar. Course is not repeatable.
Prerequisites: Minimum g.p.a. 2.5; one prior semester of attendance at Stony Brook; completion of DRC A, first course; acceptance by a faculty sponsor; permission of appropriate department and the Career Center Internship Manager
0-6 credits, S/U grading

EXT 488 Internship
Participation in an off-campus or on-campus agency or organization that provides students the opportunity to apply their university studies to areas of work experiences. Internships must be sponsored by a faculty member. Request for approval of the internship manager in the Career Center must be submitted no later than two days prior to the last day of the add period as scheduled in the academic calendar. Students may register for only one 488 course per semester. May be repeated up to a limit of 12 credits.
Prerequisites: Minimum g.p.a. of 2.50; U3 standing; one prior semester of attendance at Stony Brook; acceptance by faculty sponsor; permission of appropriate department and internship manager
0-6 credits, S/U grading

FLA Foreign Language Teacher Preparation
FLA 339 Methods and Materials in the Teaching of Foreign Languages
A review of methods and materials for the teaching of foreign languages and literatures in the secondary schools. Special attention is given to the problems and purposes of the teaching of foreign languages at the high school level.
Prerequisites: Admission to a Foreign Language Teacher Preparation program; C or higher in one 300-level foreign language course; C or higher in one 300-level literature course; minimum GPA of 2.75
Corequisite: FLA 449
3 credits

FLA 340 Curriculum Development and Micro-Teaching
A course designed to train future language teachers in the development of well-articulated programs in secondary schools. Students have the opportunity to enjoy clinical experiences in school settings. Special attention is given to lesson planning, classroom management, and portfolio development.
Prerequisites: C or higher in FLA 339; minimum g.p.a. of 2.75
Corequisite: FLA 450
3 credits

FRN French
FRN 101 Intensive Elementary French
An intensive course covering the elementary French program (FRN 111, 112) in one semester. This course is designed for students who have no prior knowledge of the language. A student who has had two or more years of French in high school (or who has otherwise
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acquired an equivalent proficiency) may not take FRN 101 without written permission from the supervisor of the course. May not be taken for credit after any other course in French.  

6 credits  
FRN 111 Elementary French I  
An introduction to spoken and written French, stressing pronunciation, speaking, comprehension, reading, and writing. Language Center supplements class work. FRN 111 is designed for students who have no prior knowledge of the language. A student who has had two or more years of French in high school (or who has otherwise acquired an equivalent proficiency) may not take FRN 111 without written permission from the course supervisor. May not be taken for credit in addition to FRN 101.  

4 credits  
FRN 112 Elementary French II  
An introduction to spoken and written French, stressing pronunciation, speaking, comprehension, reading, and writing. Language Center supplements class work. May not be taken for credit in addition to FRN 101.  

Prerequisite: FRN 111  

4 credits  
FRN 201 Intensive Intermediate French  
Review of grammar and analysis of simple French texts through reading, writing, and discussion. Language Center supplements class work. May not be taken for credit in addition to FRN 211 or FRN 212.  

Prerequisite: FRN 101 or 112  

6 credits  
FRN 211 Intermediate French I  
Intermediate courses in conversation, composition, and the interpretation of French texts. May not be taken for credit in addition to FRN 201.  

Prerequisite: FRN 101 or 112  

3 credits  
FRN 212 Intermediate French II  
Intermediate courses in conversation, composition, and the interpretation of French texts. May not be taken for credit in addition to FRN 201.  

Prerequisite: FRN 211  

3 credits  
FRN 311 Conversation  
A course emphasizing the development of oral and aural proficiency in French. Class work, class work, supplements, use of technologically-based materials.  

Prerequisite: FRN 212 or 201  

3 credits  
FRN 312 Composition  
A course emphasizing writing proficiency in French. Class work, supplements, use of technologically-based materials.  

Advisory Pre- or Corequisite: FRN 311  

3 credits  
FRN 313 Vocabulary Through Music  
A course designed to increase the vocabulary and oral comprehension of students of French, and to enrich their understanding of the poetry and culture of France. It includes poetry of recognized poets (Ronsard, Baudelaire, Verlaine, Prevert) put to music, folk songs, and "chansons."  

Prerequisite: FRN 311  

1 credit  
FRN 331-G Introduction to Advanced French (with the Novel)  
A course aimed at bridging the gap between conversational and tourist French and advanced and formal French. Extracts from novels, supplements, and technologically-based materials.  

Prerequisite: FRN 312  

3 credits  
FRN 332-G Introduction to Advanced French (with Drama)  
A course aimed at bridging the gap between conversational and tourist French and advanced and formal French. Extracts from plays, supplements, and technologically-based materials.  

Prerequisite: FRN 312  

3 credits  
FRN 395-G Readings in French Literature I: Analysis and Interpretation  
These courses teach literary analysis and its application to representative texts chosen from various periods of French literature. All readings are done in French. Discussions are in French.  

Prerequisite: FRN 312  

3 credits  
FRN 396-G Readings in French Literature II: Analysis and Interpretation  
These courses teach literary analysis and its application to representative texts chosen from various periods of French literature. All readings are done in French. Discussions are in French.  

Prerequisite: FRN 312  

3 credits  
FRN 410 Business French  
A course designed for students who wish to become more proficient in reading, writing, and translating French. Students also are trained in the use of French in business, in administration, and in everyday professional life. Emphasis is placed on the idiomatic peculiarities of the French language and the relation of French to the structure of English.  

Prerequisite: FRN 312  

3 credits  
FRN 411 Phonetics and Diction  
A course designed to develop mastery of the spoken language. Students learn to express themselves in the current idiom with fluency and accuracy. At least one hour of laboratory is required weekly.  

Prerequisite: FRN 312  

3 credits  
FRN 412 Stylistics  
A course designed to acquaint students with the subtleties of French grammar and style. Extensive practice in composition and in translation from English to French.  

Prerequisite: FRN 312  

3 credits  
FRN 413 Advanced French Conversation  
A course designed to develop and maintain complete fluency in the language.  

Prerequisite: FRN 312  

3 credits  
FRN 420 Practicum in French I  
Each student conducts a regular problem or tutorial section that supplements a regular language course for credit as the topic changes.  

Prerequisite: Permission of department  

1-6 credits  
FRN 421 Practicum in French II  
Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. Students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. The course in which the student is permitted to work as a teaching assistant must be different from the course in which he or she previously served.  

Prerequisite: Fluency in French; permission of instructor and department  

3 credits, S/U grading  
FRN 435 Studies in 19th-Century Literature  
Semester Supplements to this Bulletin contain description when course is offered. May be repeated as topic changes.  

Prerequisite: FRN 395 or 396  

3 credits  
FRN 436 Studies in 20th-Century Literature  
Semester supplements to this Bulletin contain description when course is offered. May be repeated as topic changes.  

Prerequisite: FRN 395 or 396  

3 credits  
FRN 438-J Caribbean and African Literature in French  
A study of representative texts (tales, novels, poems, plays, etc.) from the French-speaking world outside continental France, with special emphasis on the literature of the Caribbean and Africa.  

Prerequisite: FRN 395 or 396  

3 credits  
FRN 441-I French Civilization  
A course emphasizing the development of oral and aural proficiency in French. Class work, class work, supplements, use of technologically-based materials.  

Advisory Pre- or Corequisite: FRN 311  

3 credits  
FRN 442 Free Seminar  
A seminar built around themes like "Women in French Literature," "Self-Deception in the 17th-Century Moralists and the 20th-Century Novel," and "The City in the French Novel." A detailed description of the seminar may be obtained from the department for each semester it is offered. May be repeated as topic changes.  

Prerequisite: FRN 395 or 396  

3 credits  
FRN 447 Directed Readings in French  
Individual supervised readings in selected topics in French language and literature or, alternatively, for the purpose of developing French vocabulary in a secondary field, in selected topics in the humanities, social sciences, or natural sciences. May be repeated.  

Prerequisite: Permission of department  

3 credits  
FRN 475 Undergraduate Teaching Practicum in French I  
Each student conducts a regular problem or tutorial section that supplements a regular language course under the guidance of a master teacher. Responsibilities may include preparing material for discussion and helping students with problems. Not for major or minor credit.  

Prerequisites: Fluency in French; permission of instructor and department  

3 credits, S/U grading  
FRN 476 Undergraduate Teaching Practicum in French II  
Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. Students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. The course in which the student is permitted to work as a teaching assistant must be different from the course in which he or she previously served.  

Prerequisites: Fluency in French; permission of instructor and department  

3 credits, S/U grading
GEO 109-E Life Through Time
An examination of biodiversity as preserved in the fossil record and how it contributes to the understanding of evolution. Species examined include invertebrates, plants, dinosaurs, and mammals and the ultimate origins and evolution of humans. Principles of evolution, paleontology, phylogeny reconstruction, and conservation are discussed. This course is offered as both GEO 109 and HBA 109.
3 credits

GEO 112 Physical Geology Laboratory
Rock and mineral identification, introduction to topographic and geologic maps. Pre- or Corequisite: GEO 102
1 credit

GEO 113 Historical Geology Laboratory
An introduction to basic techniques used for interpreting geological history. Topics include interpretation of topographic and geological maps and cross sections, introduction to fossils, and basic stratigraphic techniques. One three-hour laboratory per week. Pre- or Corequisite: GEO 103
3 credits

GEO 121 Principles of Geology
Course offered in conjunction with Sayville High School. 1 credit

GEO 122-E Physical Geology
The nature of the earth and of the processes that shape it: the earth’s external and internal energy; minerals and rocks; external processes and the evolution of the landscape; internal processes and the structure of the earth; the earth compared with other planets; sources of materials and energy. Laboratory includes study of minerals and rocks; landforms as shown on topographical maps and aerial photographs; geologic structures inferred from maps and block diagrams; problem sets. Two lectures and one three-hour laboratory and recitation per week. GEO 102/112 and GEO 122 may not both be taken for credit. Advisory Preerequisite: High school chemistry or CHE 123. 4 credits

GEO 287 Introductory Research in Geology
Independent research, under the supervision of a faculty member, at a level appropriate to lower-division students. Credits vary. One three-hour laboratory per week. 3-4 credits, S/U grading

GEO 301-H Sustainability of the Long Island Pine Barrens
The ecologically diverse Long Island Pine Barrens region provides a habitat for a large number of rare and endangered species, but faces challenges associated with protection of a natural ecosystem that lies in close proximity to an economically vibrant urban area that exerts intense development pressure. In this course we will consider the interaction of the ecological, developmental and economic factors that impact the Pine Barrens and the effectiveness of decision support systems in promoting sustainability of the Pine Barrens. This course is offered as BIO 301, GEO 301, ECO 301, and ESL 301. Pre-requisites: BIO 201 or ECO 108 or GEO 101 or 102 or ESS 100 or ESS 198 or CHE 131; and upper division status. 3 credits

GEO 302 GIS For Geologists
A practical introduction to geographic information system (GIS) software. Participants learn to use direct measurement and mathematical techniques to compute the location of features and gain practical experience in rendering imagery and tabular geographic data as layers on maps. The course consists of two three-hour sessions per week for first five weeks of semester, which include fieldwork, lectures, demonstrations and software-based analysis of data. This course meets with GEO 305 Field Geology for the first five weeks of the term. Students cannot take both GEO 302 and GEO 305 for credit. Pre-requisites: GEO 122, or GEO 102 and 112; GEO 103 and 113, or GEO 101 and 111. 1 credit

A survey of the origin, distribution, and importance to modern civilization of the fuels and minerals won from the earth. Geology of mineral resources and problems of finding, extracting, and supplying fossil fuels, metallic ores, water, and non-metallic commodities to industry and community as well as the ultimate limits of their abundances. Environmental concerns related to the exploitation of mineral resources with review of legislation and other steps being taken to minimize environmental damage. Pre-requisites: GEO 101 or 102 or 122. Advisory Pre-requisite: CHE 125 or high school chemistry. 3 credits

GEO 305 Field Geology
Geological field studies on and near the Stony Brook campus. Labs emphasize mapping techniques and field studies of glacial and environmental geology, and include geophysical and hydrological analyses and mapping. Course consists of two three-hour sessions per week, divided between lecture and outdoors labs. Pre-requisites: GEO 102/112 or GEO 112 and 103 or GEO 112 and 101 and 111. 4 credits

GEO 306 Mineralogy and Petrology I
An introduction to mineralogy and petrology. Topics in mineralogy include basic crystallography, crystal chemistry, and identification of the important rock-forming and ore minerals. Topics in petrology focus on the processes that govern the formation and distribution of igneous and metamorphic rocks. Laboratory exercises include crystallography, mineral and rock identification, and interpretation of igneous and metamorphic histories of selected rock suites. Three hours of lecture and one three-hour laboratory per week. Pre-requisites: GEO 122, or GEO 102 and 112. Advisory Pre-requisite: CHE 132 or 142. 3 credits

GEO 309 Structural Geology
Principles of structural geology, including classification, criteria for recognition, and mechanisms of formation of structural geological features. Elementary concepts of rock mechanics. Discussion of important tectonic features of the continents and oceans. Accompanying laboratory to cover map interpretation and algorithmic and graphical solutions of structural problems. Three hours of lecture and one three-hour laboratory per week. A two-day weekend field trip visits “classic” structural localities in the East. Pre-requisites: GEO 122, or GEO 102 and 112; one semester of calculus; PHY 121/123 or 131/133 or 141 or PHY 125 and 126. 4 credits

GEO 310 Introduction to Geophysics
An introduction to theoretical and applied geophysics. Topics in global geophysics include seismology, gravity, geodynamics and the flow of heat, with applications to the structure and dynamics of the earth’s interior. Students conduct computer-based analysis of geophysical data, some of which they collect using techniques of geophysical exploration and environmental geology. Three hours of lecture per week, plus group field experiments and analysis. Pre-requisites: MAT 127 or 142 or 171 or AMS 161; GEO 122, or GEO 102 and 112; PHY 122/124 or 132/134 or 142, or PHY 126 and 127. 3 credits