classroom teachers and learners of foreign languages. Preerequisites: FLA 339; acceptance into a foreign language secondary teacher education program. 3 credits

**FLA 449, 450 Field Experience, Grades 7-12**

Observation, inquiry, and practice in foreign language education at the secondary level including 50 hours of documented visits and observation at documented sites. Field experience writing logs are the basis for group discussion. Satisfactory/Unsatisfactory grading. Prequisites: Admission to a Foreign Language Secondary Teacher Education Program; minimum GPA 2.75

**Corequisites to FLA 449: FLA 339**

**Corequisite to FLA 450: FLA 340**

1 credit per course, S/U grading

**FLA 451 Supervised Student Teaching: Middle School Level Grades 7-9**

Prerequisite: Enrollment in the Foreign Language Secondary Teacher Education Program; permission of instructor

Corequisites: FLA 452 and 454

6 credits, S/U grading

**FLA 452 Supervised Student Teaching: High School Grades 10-12**

Prerequisite: Enrollment in the Foreign Language Secondary Teacher Education Program; permission of instructor

Corequisites: FLA 451 and 454

6 credits, S/U grading

**FLA 454 Student Teaching Seminar**

Seminar on problems encountered by student teachers and public school teachers at the secondary level in foreign language teaching. Study and analysis of the many aspects of the foreign language teaching profession, such as individualized teaching, testing, and professional organizations.

Prerequisite: C or higher in FLA 340

Corequisites: FLA 451 and 452

3 credits

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**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, 212 Intermediate French I, II**

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

- **Prerequisite to FRN 211:** FRN 101 or 112
- **Prerequisite to FRN 212:** FRN 211

3 credits per course

**FRN 311 Conversation**

A course emphasizing the development of oral and aural proficiency in French. 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, 396-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 to FRN 395:** FRN 312
- **Prerequisite to FRN 396:** FRN 312

3 credits per course

**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 432 Studies in Medieval and Renaissance Literature**

Semester Supplements to this Bulletin contain description when course is offered. May be repeated as topic changes.

Prerequisite: FRN 305 or 306

3 credits

**FRN 433 Studies in 17th-Century Literature**

Semester Supplements to this Bulletin contain description when course is offered. May be repeated as topic changes.

Prerequisite: FRN 305 or 306

3 credits

**FRN 434 Studies in 18th-Century Literature**

Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.

Prerequisite: FRN 305 or 306

3 credits

**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 305 or 306

3 credits

**FRN 436 Studies in 20th-Century Literature**

Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.

Prerequisite: FRN 305 or 306

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 305 or 306

3 credits

**FRN 441-I French Civilization**

A discussion of French civilization from the creation of the modern state to the present. The course is intended for those interested in studying the background and traditions of modern France. An anthology of historical texts and documents serves as a point of departure; the institutions and life in France are considered, along with the development of art, architecture, music, and literature. The emphasis is on discussion (in French) and individual projects. Visiting lecturers contribute to the variety of topics and points of view.

Prerequisite: FRN 305 or 306

3 credits

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**French Language and Literature**

**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 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, 112 Elementary French I, II**

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 supervisor of the course. May not be taken for credit in addition to FRN 101.

- **Prerequisite FRN 112:** FRN 111
  - 3 credits per course
COURSE DESCRIPTIONS

FRN 442 Free Seminar
A seminar built around themes like “Women in French Literature,” “Self-Deception in the 17th-Century Moralities 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
Individually 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
1-6 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. Students may not assist in the same course twice. Prerequisites: Fluency in French; permission of instructor and department
3 credits, S/U grading

FRN 495 Senior Honors Project in French
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. Prerequisite: Permission of department
3 credits

GEO Geosciences

GEO 101-E Environmental Geology
Fundamental earth science concepts are used to assess the impact of increasing global population and development on Earth’s natural resources and also to examine how natural processes affect human activities. Topics include water usage and pollution, soil pollution and erosion, radioactive and solid waste disposal, landslides, stream flooding, coastal erosion, environmental consequences of energy and mineral resource utilization, acid rain, global climate change, and the environmental effects on human health. Aspects of environmental geology that are particularly applicable to Long Island and metropolitan New York are emphasized. Prerequisites: FRN 395 or 396
3 credits

GEO 102-E The Earth
A summary of the processes that have shaped the Earth and the other terrestrial planets as inferred from study of their surface materials, structural features, and interiors. Topics include the Earth in the solar system; Earth materials and rock-forming processes; surface processes and their bearing on human activities; crustal deformation and global tectonics; the Earth’s interior; and the geological features, compositions, and evolution of the terrestrial planets. Prerequisites: GEOS 109 and HBA 109. 3 credits

GEO 103-E The Earth Through Time
The history of the Earth from its formation 4.5 billion years ago to the present. Major issues to be addressed include formation and early history of the Earth and moon; evolution of continents, oceans, and atmosphere within the framework of plate tectonics; origin of life; and evidence of past climates. Prerequisites: GEOS 109 and HBA 109.
3 credits

GEO 107-E Natural Hazards
An introduction to the concepts, techniques, and scientific methods used in the earth sciences. The natural hazards posed by earthquakes and volcanic eruptions are used as a focus. These phenomena are examined in the context of the theory of plate tectonics to determine their cause, destructive potential, and the possibility of predicting and controlling their occurrence. Elementary probability methods are introduced in the treatment of approaches to prediction. Societal responses to forecasts are also considered.
3 credits

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 origin 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 111 Environmental Geology Laboratory
Emphasis is on collecting geologic data in the field and laboratory and preparing professional quality reports. Exercises include basic field mapping; determination of hydraulic properties of sediment; analysis of soil and water; and observing a drill site, a water supply well system, a sewage treatment system, and a waste to energy system. Pre- or Corequisite: GEO 101
1 credit

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
1 credit

GEO 122-E Physical Geology
The nature of the Earth and of the processes that shape it; the Earth’s exogenous and internal energy sources; 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; problems sets. Two lectures and one three-hour laboratory and recitation per week. GEO 122/112 and GEO 122 may not both be taken for credit. Advisory Prerequisite: High school chemistry or CHE 121. 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. Prerequisites: U1 or U2 standing; one GEO course; permission of instructor and departmental research coordinator
0-3 credits, S/U grading

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. Prerequisite: GEO 101 or 102 or 113. 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 outdoor labs. Prerequisites: GEO 103 or GEO 112 and 101 or GEO 115 and GEO 112 and 111. 3 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. Prerequisites: GEO 102, or GEO 102 and 112. Pre- or Corequisite: CHE 132 or 142
4 credits

GEO 309 Structural Geology
Principles of structural geology, including classification, criteria for recognition, and mechanics of formation of crustal structural features. Elementary concepts of rock mechanics. Discussion of important tectonic features of the continents and oceans. Accompanying laboratory to cover map interpretation and algebraic 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. Prerequisites: GEO 102, 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, geomagnetics and heat flow, 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 geophysics. Three hours of lecture per week, plus group field experiments and analysis. Prerequisites: MAT 127 or 132 or 142 or AMS 161; GEO 102, or GEO 102 and 112; PHY 122/124 or 132/134 or 142, or PHY 126 and 127. 3 credits

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