type, and a final paper and presentation. 
Prerequisite: EST 440
3 credits

EST 421 Starting the High-Technology Venture
Introduces engineering and applied science students to start-up and early development of a new high-technology venture. Turning a concept into a new venture. Identifying and evaluating product and market. Issues of feasibility, patents, and prototypes.
Prerequisites: CEAS major; U4 standing
3 credits

EST 475 Undergraduate Teaching Practicum
Students assist the faculty in teaching by conducting recitation or laboratory sections that supplement a lecture course. The student receives regularly scheduled supervision from the faculty instructor. May be used as an open elective only and repeated once.
Prerequisites: U4 standing; a minimum g.p.a. of 3.00 in all Stony Brook courses and a grade of B or better in the course in which the student is to assist; permission of department
3 credits

EST 499 Research in Technology and Society
An independent research project with faculty supervision. Permission to register requires a B average in all engineering courses and the agreement of a faculty member to supervise the research. May be repeated, but only three credits of research electives (AMS 487, CSE 487, ESE 499, EMS 499, EST 499, ISE 487, MEC 499) may be counted toward engineering technical elective requirements.
Prerequisite: Permission of instructor
0-3 credits

EUR European Studies

EUR 101-G Foundations of European Culture
This course presents students with the thinking from a variety of disciplines that influenced the development of the diverse national cultures of Europe. Students are exposed to a chronological representation of the major ways that classical Greek, Roman, Judeo-Christian, and Islamic cultures contributed to the making of individual national cultures and identities of the major countries of Europe.
3 credits

EUR 201-I Development of European Culture
An introduction to the important literary works that arose from major European cultural and intellectual movements and an examination of their continued influence on the modern world. Readings focus on central texts pertaining to core religious issues, the Renaissance, the Enlightenment, Romanticism, Realism, Modernism, and Post Modernism. Examples from the arts, including film, music, and theatre, are used to illustrate the influence of the literary works.
Prerequisite: Completion of D.E.C. category B
3 credits

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, 476 Undergraduate Teaching Practica in European Studies I, 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 to EUR 475: U3 or U4 standing; permission of instructor and department; EUR major or minor
Prerequisites to EUR 476: EUR 475; permission of instructor and department; EUR major or minor
3 credits per course, 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 488 Internship
Participation in an off-campus or on-campus agency or organization that provides students the opportunity to learn 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 Secondary Education

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 Secondary Teacher Education 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

FLA 439 Introduction to Technology for Language Teaching
An introduction to potential teachers to how technologies are used for language learning and teaching. Technologies include audio, video, satellite, computer and Internet. Students explore the interaction between second language acquisition, language pedagogical theory, and technology.
Prerequisite: FLA 339
3 credits

FLA 440 Foreign Language Acquisition Research
A study of recent trends in foreign language acquisition research. The focus is on classroom-based research: qualitative and quantitative research methodologies, variables in classroom-based learning research, analysis of research results. Students conduct classroom research studies, present their findings, and address applications of their findings to