Chinese

CHI 111 Elementary Chinese I
An introduction to spoken and written Chinese Mandarin, with equal attention to speaking, reading, and writing. Laboratory practice supplements class work. No student who has had two or more years of Chinese in high school or who has otherwise acquired an equivalent proficiency will be permitted to enroll in CHI 111 without written permission from the supervisor of the course.
3 credits

CHI 112 Elementary Chinese II
An introduction to spoken and written Chinese Mandarin, with equal attention to speaking, reading, and writing. Laboratory practice supplements class work.
Prerequisite: CHI 111
4 credits

CHI 210 Elementary Chinese for Chinese Speakers
An elementary level Chinese language course for students who have had some exposure to the Chinese cultural norms and conventions and who already can communicate in Chinese orally on topics of daily routines, although with grammatical mistakes and nonstandard pronunciation, but cannot read or write. The course focuses on reading and writing skills and expands the depth and scope of exposure to the Chinese culture.
4 credits

CHI 211 Intermediate Chinese I
An intermediate course in Chinese Mandarin to develop audiolingual skills and reading and writing ability. Selected texts serve as the basis for practice in reading comprehension and composition. Intensive exercises in character writing are required to develop writing technique.
Prerequisite: CHI 210 or 212 or proficiency in Chinese
3 credits

CHI 212 Intermediate Chinese II
An intermediate course in Chinese Mandarin to develop audiolingual skills and reading and writing ability. Selected texts serve as the basis for practice in reading comprehension and composition. Intensive exercises in character writing are required to develop writing technique.
Prerequisite: CHI 211
3 credits

CHI 311-J Readings in Journalistic Chinese
Advanced narrative readings in Chinese selected from Chinese newspapers and magazines, including news reports and narrations on life styles, people, and landscapes. Students are expected to improve their skills in the analysis and writing of narrative readings. This course is designed for students who already have intermediate level proficiency in Chinese, who can read and write everyday vernacular Chinese, but who have not been exposed to more formal language and literary forms.
Prerequisite: CHI 212 or proficiency in Chinese
3 credits

CHI 312-J Readings in Classical Chinese
Introduction to writings in Chinese that appeared before the May 4th Movement (circa 1920), which marked the beginning of modern Chinese. The course introduces students to readings in classical Chinese and to acquaint students with cultures and customs of traditional China. This course is designed for students who already have intermediate level proficiency in Chinese, who can read and write everyday vernacular Chinese, but who have not been exposed to more formal language and literary forms.
Prerequisite: CHI 212 or proficiency in Chinese
3 credits

CHI 321-J Chinese Poetry and Short Stories
Selected masterpieces of poetry and short stories written during the first half of the 20th century. Students are expected to improve their skills in literature appreciation and to model their own writings after works read in class. This course is designed for students who already have advanced level proficiency in the Chinese language in all its forms including reading and writing. Not for credit in addition to the discontinued CHI 395.
Prerequisite: Advanced level proficiency in Chinese
3 credits

CHI 322-J Chinese Lyric Prose and Plays
Selected masterpieces of lyric prose and drama written during the first half of the 20th century. Students are expected to improve their skills in literature appreciation and to model their own writings after works read in class. This course is designed for students who already have advanced level proficiency in the Chinese language in all its forms including reading and writing. Not for credit in addition to the discontinued CHI 396.
Prerequisite: Advanced level proficiency in Chinese
3 credits

CHI 447 Directed Readings in Chinese
Individually supervised readings in selected topics in Chinese language and literature or, alternatively, for the purpose of developing Chinese 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

CHI 487 Independent Research
An individual research project in Chinese, such as translation, analysis of documents or literature, etc., in consultation with the instructor. Students are expected to meet at regular intervals and to present the completed project at the end of the semester. May be repeated.
Prerequisites: Interview; permission of instructor
0-3 credits

Comparative Literature

CLT 211-I Literary Survey: Medieval through Late Renaissance
Historical and analytical study of representative works illustrating medieval epic, romance, and lyric. The course also examines the beginnings of humanism through the late Renaissance.
Advisory Prerequisite: One course in literature
3 credits

CLT 212-I Literary Survey: Enlightenment through Modern
Historical and analytical study of literature from the late 17th century, the neoclassical era, the romantic revolution through the 19th century (realism, naturalism, symbolism), leading to the culmination of modernism.
Advisory Prerequisite: One course in literature
3 credits

CLT 220-J Non-Western Literature
A survey of the major themes and forms of non-Western literature, such as Asian, Indian, and African.
Advisory Prerequisites: CLT 266 and EGL 266.
3 credits

CLT 235-K American Pluralism in Film and Literature
A thorough examination of issues central to American history for nearly two centuries. How “others”—the Irish, Italians, African Americans, Latinos, and people from cultures outside Western Europe—have been portrayed in American literature and film. Readings include slave narratives from the 17th and 18th centuries and literary texts from the 19th and 20th centuries; films from the last 100 years are included. Particular emphasis on the historical period from the Civil War to the present.
Advisory Prerequisite: Completion of D.E.C. category A
3 credits

CLT 266-G The 20th-Century Novel
A historical and analytical study of the novel from 1900 to the present. Particular emphasis on the historical period from the Civil War to the present.
Advisory Prerequisite: Completion of D.E.C. categories I and J
3 credits

CLT 301-G Theory of Literature
An introduction to the different modes of analyzing literature by periods, ideas, traditions, genres, and aesthetic theories. Stress is placed on classical theory and on developments in the 20th century.
Prerequisite: U3 or U4 standing
Advisory Prerequisites: Two courses in comparative literature
3 credits

CLT 331-G Literary Genres: Poetry
Analysis of poetic form as illustrated by various kinds of poetry, e.g., epic and lyric. Works selected from different national literatures and literary movements.
www.stonybrook.edu/ugbulletin 375
Semester Supplements to this Bulletin contain description when course is offered. May be repeated as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisites: Two courses in literature 3 credits

CLT 332-G Literary Genres: Drama
Analysis of dramatic form through readings of major works in tragedy and comedy. Works selected from different national literatures and literary movements. Semester Supplements to this Bulletin contain description when course is offered. May be repeated as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisites: Two courses in literature 3 credits

CLT 333-G Literary Genres: Novel
Historical and analytical study of the novel form. Works selected from different national literatures and literary movements. Semester Supplements to this Bulletin contain description when course is offered. May be repeated as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisites: Two courses in literature 3 credits

CLT 334-G Other Literary Genres
Historical and analytical study of such literary genres as satire, fable, romance, epistle, saga, allegory, etc. Semester Supplements to this Bulletin contain description when course is offered. May be repeated as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisites: Two courses in literature 3 credits

CLT 335-G Interdisciplinary Study of Film
An inquiry into the aesthetics, history, and theory of film as it relates principally to literature but also to disciplines such as art, music, psychology, and cultural history. Semester Supplements to this Bulletin contain description when course is offered. May be repeated as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisites: One course in literature; HUM 201 or 202 or THR 117 3 credits

CLT 361-G Literature and Society
An inquiry, interdisciplinary in nature, into the relationship between the events and materials of political and social history and their effect on the form and content of the literature of a period. Also subsumed under the rubric Literature and Society is the topic Literature and Pedagogy. Semester Supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisites: Two courses in literature 3 credits

CLT 362-G Literature and Ideas
An inquiry into the primary writings and significant documents in the history of ideas and their effect on the form and content of the literature of a period. Semester Supplements to this Bulletin contain description when course is offered. May be repeated as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisites: Two courses in literature 3 credits

CLT 363-G Literature and the Arts
An inquiry into the aesthetic milieu (including the plastic arts, theatre, and music) and its relationship to the form and content of the literature of a period. Semester Supplements to this Bulletin contain description when course is offered. May be repeated as the topic changes.

Prerequisite: U3 or U4 standing
Advisory Prerequisites: Two courses in literature 3 credits

CLT 475 Undergraduate Teaching Practicum I
Work with a faculty member as an assistant in one of the faculty member's regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work, and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course.

Prerequisites: U3 or U4 standing; permission of instructor and chairperson 3 credits, SU/grading

CLT 476 Undergraduate Teaching Practicum 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 serve as teaching assistants in the same course twice.

Prerequisites: CLT 475; permission of instructor and chairperson 3 credits, SU/grading

CLT 487 Independent Reading and Research
Intensive reading and research on a special topic undertaken with close faculty supervision. May be repeated.

Prerequisites: Permission of instructor and department 0-6 credits, SU/grading

CLT 495 Comparative Literature Honors Project
A one-semester project for comparative literature majors who are candidates for the degree with departmental honors. The project involves independent study under close supervision of an appropriate faculty member, and the written and oral presentation to the department faculty colloquium of an honors thesis.

Prerequisites: Permission of instructor and department 3 credits, S/U grading

CME 101 Introduction to Chemical and Molecular Engineering
Integrates students into the community of the College of Engineering and Applied Sciences and the major in Chemical and Molecular Engineering with a focus on personal and institutional expectations. Emphasizes the interdisciplinary role of the chemical engineering profession in the 21st century. Includes consideration of professional teamwork and the balance of professional growth with issues of societal impact.

3 credits

CME 199 Introduction to Undergraduate Research
An introduction to independent research and basic research skills. Students perform an independent research project in chemical and molecular engineering under the supervision of a faculty member. May be repeated for a maximum of 3 credits.

Prerequisite: Permission of instructor 0-3 credits

CME 300 Writing in Chemical and Molecular Engineering
See "Requirements for the Major in Chemical and Molecular Engineering, Upper-Division Writing Requirement." 3 credits

Prerequisite: CME major; U3 or U4 standing; WRT 102
Corequisites: CME 310
S/U grading

CME 304 Chemical Engineering Thermodynamics I
First and second laws of thermodynamics, PVT behavior of pure substances, equations of state for gases and liquids, phase equilibria, mass and energy balances for closed and open systems, reversibility and equilibrium, application of thermodynamics to flow processes, heat effects during chemical reactions and combustion.

Prerequisites: PHY 132; CHE 132; CSE 130 or ESG 111 or MEC 112 or ESE 124
3 credits

CME 310 Chemical Engineering Laboratory I: Unit Operation and Fundamentals

Prerequisite: CME 304
Corequisite: CME 300
2 credits

CME 312 Material and Energy Balance
Introduces analysis of chemical processes using the laws of conservation and energy as they apply to non-reacting and reacting systems. Integration of the concepts of equilibrium in physicochemical systems, and utilization of basic principles of thermodynamics. Numerical methods used in the design an optimization of chemical engineering processes. Solution of complex chemical engineering problems.

Prerequisites: ESG 111 or MEC 112; CHE 132 and 134; AMS 261 or MAT 203; CME 304
3 credits

CME 314 Chemical Engineering Thermodynamics II
Equilibrium and the Phase Rule; VLE model and K-value correlations; chemical potential and phase equilibria for ideal and non-ideal solutions; heat effects and property changes on mixing; application of equilibria to chemical reactions; Gibbs-Duhem and chemical potential for reacting systems; liquid/liquid, liquid/solid, solid/vapor, and liquid/vapor equilibria; adsorption and osmotic equilibria, steady state flow and irreversible processes. Steam power plants, internal combustion and jet engines, refrigeration cycle and vapor compression, liquefaction processes.

Prerequisite: CME 304
3 credits

CME 315 Numerical Methods for Chemical Engineering Analysis
Mathematical modeling lies at the heart of chemical engineering. Understanding, predicting, designing, optimizing, and controlling chemical processes and phenomena all require the development of good mathematical models. This course provides students with the concepts, processes, and tools for an introduction to such chemical engineering calculations with a mathematical software package (MATLAB).

Corequisites: AMS 361 or MAT 303
3 credits

CME 318 Chemical Engineering Fluid Mechanics
Introduces fluid mechanics. Dynamics of fluids in motion; laminar and turbulent flow, Bernoulli’s equation, friction in conduits; flow through fixed and fluidized beds. Study of pump and compressor performance and fluid metering devices. Includes introduction to microfluidics.

Prerequisites: AMS 261 (or MAT 203 or 205); PHY 131 (or 125 or 141)
3 credits