CHE 488 Internship
Research participation in off-campus laboratories. Students are required to submit to the department a proposal at the time of registration and a research report at the end of the semester. May be repeated up to a limit of 12 credits.
Prerequisites: CHE 384; permission of instructor and department
6-4 credits, S/U grading

CHE 490 Current Trends in Biological Chemistry
A discussion of current topics of research and methodology in modern biological chemistry. The course includes directed readings, attendance, and discussion at seminars presented by speakers from various academic and industrial institutions. May be repeated.
Prerequisite: CHE 322 or 326 (or the former CHE 332)
Pre- or Corequisite: CHE 301 or 312
1 credit

CHE 495-496 Senior Research
A two-semester research program to be carried out under the supervision of a staff member. The results of this work are to be submitted to the department in the form of a senior research report. The student is given an oral examination in May by a faculty commit-tee consisting of the student’s supervisor and three other faculty members. Students receive only one grade upon completion of the sequence.
Prerequisites: U4 standing; permission of instructor and department
3 credits per course

CHI Chinese Language

CHI 111, 112 Elementary Chinese I, II
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 supervi-sor of the course.
Prerequisite to CHI 112: CHI 111
4 credits per course

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 rou-tines, although with grammatical mistakes and non-standard 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, 212 Intermediate Chinese I, 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 to CHI 211: CHI 112 or 210
Prerequisite to CHI 212: CHI 211
2 credits per course

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 land-scapes. 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
5 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
5 credits

CHI 321-J Chinese Poetry and Short Stories
Selected masterpieces of poetry and short stories writ-ten during the first half of the 20th century. Students are expected to improve their skills in literature appre-ciation 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 discontin-ued CHI 395.
Prerequisite: Advanced level proficiency in Chinese
5 credits

CHI 322-J Chinese Lyric Prose and Plays
Selected masterpieces of lyric prose and drama writ-ten during the first half of the 20th century. Students are expected to improve their skills in literature appre-ciation 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 discontin-ued CHI 396.
Prerequisite: Advanced level proficiency in Chinese
5 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 expect-ed to meet at regular intervals and to present the com-pleted project at the end of the semester. May be repeated.
Prerequisites: Interview; permission of instructor
0-3 credits

CLS Classics

CLS 113-B Greek and Latin Literature in Translation
Historical and analytical study of the development of classical Greek and Latin literature. Extensive read-ings in translation include works illustrating epic, lyric, drama, history, satire, and criticism.
3 credits

CLS 215-I Classical Mythology
An introduction to ancient Greek religion, literature, and art. Special emphasis will be given to the presenta-tion of myth in Classical Greek literature as well as to the influence of classical mythology on later litera-ture, art, and philosophy.
Advisory Prerequisite: One course in literature
5 credits

CLS 320 Topics in Classical Civilization
Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.
Prerequisites: Two courses in ancient Greek or Latin language, literature, mythology, religion, art, or history
5 credits

CLS 447 Directed Readings in Classics
Intensive study of a particular author, period, or genre of Greek and Latin literature in translation under close faculty supervision. May be repeated.
Prerequisite: Permission of instructor
1-6 credits

CLS 475 Undergraduate Teaching Practicum
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.
3 credits, S/U grading

CLT 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
2 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, natural-ism, symbolism), leading to the culmination of mod-ernism.
Advisory Prerequisite: One course in literature
2 credits

CLT 220-I Non-Western Literature
A survey of the major themes and forms of non-Western literature, such as Asian, Indian, and African. Semester Supplements to this Bulletin contain

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description when course is offered. May be repeated as topic changes.
Advisory Prerequisite: Completion of D.E.C. category A

CLT 235-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.
Prerequisite: U3 or U4 standing
Advisory Prerequisites: One course in literature; HUM 201 or 202 or THR 117

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 Psychology. 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

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

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

CLT 475, 476 Undergraduate Teaching Practica I, II
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. In CLT 476, 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 to CLT 475: U4 standing; permission of instructor and chairperson
Prerequisites to CLT 476: CLT 475; permission of instructor and chairperson
3 credits per course, S/U 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, S/U 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

CME

Chemical and Molecular Engineering

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.

CME 300 Writing in Chemical and Molecular Engineering
See “Requirements for the Major in Chemical and Molecular Engineering, Upper-Division Writing Requirement.”
Prerequisites: CME major; U3 or U4 standing; WRT 102
Corequisite: 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 205; CME 304
3 credits