CHEM 450. Nuclear and Radiation Chemistry. 3 credits.
A study of the fundamentals of radioactivity in chemistry. Topics include the
effects of radiation on matter, measurement of radiation, activation analysis,
tracer studies and the nuclear fuel cycle. Applications of radioactive
materials and radiation in industry and medicine will be described.
Prerequisites: CHEM 132 and PHYS 250 or permission of the instructor.
CHEM 450L. Laboratory for Nuclear and Radiation Chemistry. 1 credit.
A laboratory course designed to demonstrate the topics covered in CHEM
450. Corequisite: CHEM 450. Prerequisites: CHEM 132 and PHYS 250 or
permission of the instructor.
CHEM/PHYS 455. Lasers and Their Applications to Physical Sciences.
3 credits.
An introduction to both the theoretical and practical aspects of lasers and
their applications in the physical sciences. Prerequisite: PHYS 270, CHEM
331 or permission of the instructor.
CHEM 470. Inorganic Chemistry II. 3 credits.
A study of selected topics in the field of advanced inorganic chemistry.
Prerequisite: A grade of “C-” or higher in CHEM 270. Prerequisite or
corequisite: CHEM 331.
CHEM 480. Selected Topics in Chemistry. 1-4 credits each semester.
This course is designed to allow an in-depth study of specific topics in
chemistry selected according to student and faculty interests.
CHEM 481. Literature and Seminar I. 1 credit.
Provides instruction in methods of abstracting specific information from the
body of chemical literature. Attendance at regularly scheduled department
seminars is required.
CHEM 482. Literature and Seminar II. 1 credit.
Provides practice in preparing and presenting a literature-based seminar and
paper on a chemical topic. Attendance at regularly scheduled department
seminars is required. Prerequisite: CHEM 481 or permission of the instructor.
CHEM 494. Internship in Chemistry. 1-2 credits, May be repeated for a
maximum of 6 credits.
Students participate in research or applied chemistry outside of the
university. A proposal must be approved prior to registration, and a final
paper will be completed.
CHEM 497A, B, C. Undergraduate Chemical Research. 2-4 credits,
repeatable for a total of 6 credits.
Research in a selected area of chemistry, as arranged with and approved
by a faculty research adviser the semester prior to registration.
CHEM 499. Honors. 8 credits.

**Chinese**

**Department of Foreign Languages, Literatures and Cultures**

CHIN 101. Elementary Chinese I. 3-4 credits.
The fundamentals of Mandarin Chinese through listening, speaking, reading
and writing. Practice in pronunciation and development of comprehension.
One hour’s work a week in the language laboratory.
CHIN 102. Elementary Chinese II. 4 credits.
The fundamentals of Mandarin Chinese through listening, speaking, reading
and writing. Practice in pronunciation and development of comprehension.
One hour’s work a week in the language laboratory. If student has had two
or more years of the language in high school he/she will not receive credit
for the course. Prerequisite: CHIN 101.
CHIN 111. Intensive Chinese I. 6 credits.
The fundamentals of Chinese through intensive listening, speaking, reading
and writing. This four-week course is the equivalent of CHIN 101-102.
CHIN 212. Intensive Chinese II. 6 credits.
The fundamentals of Chinese through intensive listening, speaking, reading
and writing at the intermediate level. This four-week course is the equivalent
of CHIN 231-232. Prerequisite CHIN 212 or 111 or permission of the instructor.
CHIN 231 Intermediate Chinese I. 3 credits.
A more in-depth study of grammar, vocabulary building, conversation and
reading. Prerequisite: CHIN 231 or permission of the instructor.
CHIN 232 Intermediate Chinese II. 3 credits.
A thorough review of grammar, vocabulary building, conversation, composition
and reading. Prerequisite: CHIN 231 or permission of the instructor.
CHIN 300. Chinese Grammar and Communication. 3 credits.
Intensive training in grammatical structures and their applications to oral
and written conversation. Instruction is in Chinese. Prerequisite: CHIN 232
or CHIN 212 or permission of the instructor.

CHIN 220. Chinese Oral and Written Communication. 3 credits.
Intensive training in the use of modern, everyday Chinese with emphasis on
conversation and composition. Readings in Chinese will provide a context
for discussion and writing. Prerequisite: CHIN 202.
CHIN 397. Intensive Reading and Writing in Chinese I. 3 credits.
The major goal of this course is to help students intensively develop
proficiency in reading and writing based on their competence in listening
and speaking. Students are expected to appropriately express their ideas
in writing on a wide range of topics and achieve reading competence in
Mandarin Chinese. Prerequisite: Permission of the instructor.
CHIN 398. Intensive Reading and Writing in Chinese II. 3 credits.
Continuation of intensive training in the reading and writing of modern
Mandarin Chinese. Instruction is in Chinese.

**Classics**

**Department of Foreign Languages, Literatures and Cultures**

CLAS 100. Latin and Greek Roots of English Words. 3 credits.
Intensive study of Latin and Greek word-roots, prefixes and suffixes in
the forms they take in English words. An English vocabulary-development
course for students with no knowledge of Latin or Greek. Does not count
toward licensure in Latin.
CLAS 265. The Individual and Society in Ancient Greece and Rome. 3 credits.
Discussion of literary and historical sources that reflect the attitudes and
values of individuals in various social classes. All readings are in English.
CLAS 266. Greek and Roman Classics in Translation. 3 credits.
Discussion of the writings that illustrate the cultural values and intellectual
attitudes which constitute the most important legacy of Classical
civilization. All readings are in English.
CLAS 337. Human Values: The Classical Tradition. 3 credits.
Discussion of human values and the human condition reflected in writings
from the eighth century B.C. to the present day. Does not count toward
licensure in Latin. All readings are in English.
CLAS 369. Topics in Greek and Roman Culture. 3 credits.
A study of selected topics in the culture of Ancient Greece and Rome. May
be repeated for credit with change of topics.

**College of Business**

**College of Business**

COB 191. Business Statistics. 3 credits.
The application of statistical methods to business. Introduces data
presentation, descriptive statistics, probability, sampling, estimation and
hypothesis testing. Emphasis is on using spreadsheet tools and functions
of statistical analysis. Prerequisite: MATH 155, MATH 156 or sufficient
score on the Mathematics Placement Exam.
COB 202. Interpersonal Skills. 3 credits.
An applied course consisting of experiential exercises followed by class
discussion. Cases are used as learning activities where the instructor acts as a
facilitator to learning. Essential theory emanates from class discussions with
a student-based rather than instructor-based format. Theory and application
are interwoven by means of student self-assessment exercises and group
discussion. Prerequisite: Open only to sophomore business majors.
COB 204. Computer Information Systems. 3 credits.
An introduction to computer-based information systems. Emphasis is placed
on the role of computers in business and society, computer hardware and
software, analysis, design and implementation of information systems,
computer ethics, and collaboration using computers. Students will create
databases and collaborate using computer-based tools.
COB 218. Legal Environment of Business. 3 credits.
A study of the law as a means of social, political and economic change. The
American legal system from the standpoint of its sources and philosophy
with special emphasis on business relations and the role of government in
affecting them.
COB 241. Financial Accounting. 3 credits.
The role of financial data in contemporary society; the problems of measuring
and reporting income, assets, liabilities and equities; interpretation of financial
statements. Prerequisites: Sophomore standing and declared business major.

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