Chemistry Courses

CHEM 245. 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 450. Nuclear and Radiation Chemistry I. 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 361. Biochemistry I. 3 credits.
An introduction to the molecules and chemical reactions of living systems. Structure and function of important classes of biomolecules are explored and the relationship of structure to function is stressed. Basic metabolic sequences are discussed. Prerequisites: Grade of "C-" or higher in CHEM 241 and permission of instructor.

CHEM 362. Biochemistry II. 3 credits.
A continuation of CHEM 361 including metabolic regulation, protein biosynthesis, analytical methods and isolation of biomolecules. Prerequisite: CHEM 361 or permission of the instructor.

CHEM 366L. Biochemistry Laboratory. 2 credits.
An introduction to laboratory techniques and experimental approaches associated with modern biochemistry. Isolation and characterization of enzymes and other biomolecules are emphasized. Prerequisite: CHEM 361 and either CHEM 241L or CHEM 242L or CHEM 262L.

CHEM/PHYS/MATS 375. An Introduction to Materials Science. 3 credits.
An introduction to materials science with emphasis on general properties of materials. Topics will include crystal structure, extended and point defects, and mechanical, electrical, thermal and magnetic properties of metals, ceramics, electronic materials, composites and organic materials. Prerequisites: CHEM 131 and PHYS 150 or PHYS 250 or ISAT 212 or permission of the instructor.

CHEM 390A, B. Problems in Chemistry. 1-3 credits, repeatable for a total of 4 credits.
A project is undertaken dealing with some aspect of chemistry under the guidance of a faculty adviser. Prerequisite: CHEM 132 or equivalent.

CHIN 101, CHIN 102. Elementary Chinese I, II. 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 212. Intensive 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 300. Chinese Grammar and Communication. 3 credits.
A more in-depth study of grammar, vocabulary building, conversation and reading, introduction to composition. Prerequisite: CHIN 102 or permission of the instructor.

CHIN 303. Chinese Oral and Written Communication. 3 credits.
Intensive training in grammatical structures and their applications to oral and written conversation. Instruction is in Chinese. Prerequisite: CHIN 222 or CHIN 212 or permission of the instructor.

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.

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 either.

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 380. 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 intertwined 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.

COB 242. Managerial Accounting. 3 credits.
The attention-directing and problem-solving functions of accounting in relation to current planning and control, evaluation of performance, special decisions, and long-range planning. Prerequisite: COB 241.

COB 291. Introduction to Management Science. 3 credits.
The application of quantitative modeling and analysis to decision making. Introduces linear programming, decision theory, queuing, simulation and forecasting methods. Emphasis is on implementing spreadsheet models for business applications. Prerequisites: COB 191 and MATH 205 or equivalent.

COB 300A. Integrated Functional Systems: Management. 3 credits.
COB 300A is the management component of an integrated learning experience consisting of four courses, taken concurrently, which introduces the fundamental conceptual tools of management, finance, operations and marketing in such a way as to establish their mutual relevance and interdependence. Students work in small project teams on tasks designed to require the application in concert of conceptual tools from each of the function areas. Prerequisites: Completion of all required 100- and 200-level B.B.A. core courses, junior standing (58 hours) and formal admission to the College of Business.

COB 300B. Integrated Functional Systems: Finance. 3 credits.
COB 300B is the finance component of an integrated learning experience consisting of four courses, taken concurrently, which introduces the fundamental conceptual tools of management, finance, operations and marketing in such a way as to establish their mutual relevance and interdependence. Students work in small project teams on tasks designed to require the application in concert of conceptual tools from each of the function areas. Prerequisites: Completion of all required 100- and 200-level B.B.A. core courses, junior standing (58 hours) and formal admission to the College of Business.

COB 300C. Integrated Functional Systems: Operations. 3 credits.
COB 300C is the operations component of an integrated learning experience consisting of four courses, taken concurrently, which introduces the fundamental conceptual tools of management, finance, operations and marketing in such a way as to establish their mutual relevance and interdependence. Students work in small project teams on tasks designed to require the application in concert of conceptual tools from each of the function areas. Prerequisites: Completion of all required 100- and 200-level B.B.A. core courses, junior standing (58 hours) and formal admission to the College of Business.

COB 300D. Integrated Functional Systems: Marketing. 3 credits.
COB 300D is the marketing component of an integrated learning experience consisting of four courses, taken concurrently, which introduces the fundamental conceptual tools of management, finance, operations and marketing in such a way as to establish their mutual relevance and interdependence. Students work in small project teams on tasks designed to require the application in concert of conceptual tools from each of the function areas. Prerequisites: Completion of all required 100- and 200-level B.B.A. core courses, junior standing (58 hours) and formal admission to the College of Business.

COB 301. European Integration, Culture and History. 3 credits.
This course is designed to complement the COB 300 D.A. or European marketing minor when taught as part of the semester in Antwerp, Belgium program. COB 301 will only be offered as part of the semester in Antwerp program. Students will study European integration in the classroom and visit governmental institutions, historical places and cultural events associated with course content. Prerequisites: Requires acceptance to the semester in Antwerp program. Must take as a corequisite with COB 300 or courses for the European marketing minor. Cannot be used as an elective to fulfill any COB major or any other minor.

COB 487. Strategic Management. 3 credits.
Strategic management is designed to be the capstone course for seniors completing their undergraduate studies in the various functional areas of business administration. The course is comprehensive and structured to build on the foundational knowledge students have gained through completing the interdisciplinary COB 300, Integrated Functional Systems, learning experience and from their respective concentrations. Prerequisites: COB 300 and completion of one full academic semester after completing COB 300.

COB 490. Special Studies in Business Administration. 1-3 credits.
Designed to give capable students an opportunity to complete a faculty supervised independent study apart from a specific major. Prerequisite: Permission from the Associate Dean for Student Services.

COB 491. Peer Advisor Training. 0 credits.
This block course will provide peer advisor trainees with the information necessary to give guidance to their peers in understanding various university and college academic policies and procedures and the university resources available to address academic questions and issues. Cannot be applied to any College of Business major or minor. Prerequisites: Junior standing (78 credit hours) and approval of the Associate Dean for Student Services one month prior to registration.

COB 492. Peer Advising. 2 credit hours per semester, limit of 4 credit hours total. This practicum in advising focuses on College of Business students providing guidance to their peers in understanding various university and college academic procedures and policies, as well as offering knowledgeable referrals to appropriate university resources. May be taken twice for up to four credit hours. Cannot be applied to any CoB major or minor. Prerequisites: Senior standing and successful completion of COB 491.