Courses

CHEM 100. Chemistry and Life. 5 hours.  
Principles of structural and environmental chemistry underlying the phenomenon of life on Earth, discussed in a historical, cultural and philosophical framework. Includes weekly two-hour laboratory. Course Information: Credit is not given for CHEM 100 if the student has credit in CHEM 112 or CHEM 116 or CHEM 122. Class Schedule Information: To be properly registered, students must enroll in one Laboratory-Discussion and one Lecture. Natural World - With Lab course.

CHEM 101. Preparatory Chemistry. 4 hours.  
Emphasis on problem solving. Metric units, dimensional analysis, chemical nomenclature, the mole concept, chemical stoichiometry. Course Information: For students without entrance credit in high school chemistry or inadequately prepared. Credit is not given for CHEM 101 if the student has credit in CHEM 116 or CHEM 122. Prerequisite(s): Adequate performance on the UIC chemistry placement examination. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion, one Lecture and one Quiz. 

CHEM 105. Chemistry and the Molecular Human: An Inquiry Perspective. 4 hours.  
A general education chemistry course that uses the empirical inquiry methods of science applied to the interaction of molecules--in foods, in the environment, and in medicines--with humans. Course Information: 4 hours. Credit is not given for CHEM 105 if the student has credit in CHEM 114 or CHEM 122 or CHEM 123 or CHEM 124 or CHEM 125. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion, one Discussion and one Laboratory. Natural World - With Lab course.

CHEM 110. Chemistry Problem Solving Workshop. 1 hour.  
Problem solving and study strategies in study of general chemistry courses. Techniques for learning technical terms in textbooks will be covered. Methods of analyzing complex problems conceptually and solving them appropriately. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated for credit. Credit is not given for CHEM 110 if the student has credit in CHEM 124 or CHEM 116. Corequisite(s): Students will be enrolled in a UIC course in chemistry or a related area.

CHEM 115. Comprehensive General Chemistry. 5 hours.  
One-semester introduction to general chemistry, including stoichiometry, periodicity, reaction types, gaseous state, solution stoichiometry, chemical equilibria, acid-base equilibria, dissolution-precipitation equilibria. Includes a weekly 3-hour lab. Course Information: Credit is not given for CHEM 115 if the student has credit in CHEM 112 or CHEM 116 or CHEM 122 or CHEM 123. This course is intended for pre-nursing students and should not be taken by those who need CHEM 122/123 or CHEM 116. Prerequisite(s): Grade of C or better in CHEM 101; or appropriate score on the department placement test. Class Schedule Information: To be properly registered, students must enroll in one Lecture, one Laboratory, and one Quiz. Natural World - With Lab course.

CHEM 116. Honors and Majors General and Analytical Chemistry I. 5 hours.  
General and analytical chemistry with laboratory. Coverage of the fundamentals of chemistry including stoichiometry and equilibrium. Coverage of the principles of analytical chemistry, including the use of instrumentation. Course Information: Credit is not given for CHEM 116 if the student has credit in CHEM 112 or CHEM 122 and CHEM 123. Prerequisite(s): Superior performance on the UIC chemistry placement examination. Class Schedule Information: To be properly registered, students must enroll in one Laboratory, one Lecture and one Quiz. Natural World - With Lab course.

CHEM 118. Honors and Majors General and Analytical Chemistry II. 5 hours.  
General and analytical chemistry with laboratory. Coverage of the fundamentals of chemistry including atomic and molecular structure, thermodynamics, and kinetics. Coverage of principles of analytical chemistry, including the use of instrumentation. Course Information: Credit is not given for CHEM 118 if the student has credit in CHEM 114 or CHEM 124 and CHEM 125. Prerequisite(s): Grade of C or better in CHEM 116. Class Schedule Information: To be properly registered, students must enroll in one Laboratory, one Lecture and one Quiz. Natural World - With Lab course.

CHEM 122. Matter and Energy. 3 hours.  
An introductory one-semester course in chemical principles, including the quantum model of the atom, periodicity, bonding, reaction types, solutions, stoichiometry, thermochemistry, intermolecular forces, chemical equilibrium, acid-base equilibria. Course Information: Credit is not given for CHEM 122 if the student has a C or better in CHEM 112 or a C or better in CHEM 116. Students should complete CHEM 123 within a semester of completing CHEM 122. Prerequisite(s): Grade of C or better in CHEM 101 or appropriate score on the department placement test. Class Schedule Information: To be properly registered, students must enroll in one Discussion and one Lecture. Natural World - No Lab course.

CHEM 123. Foundations of Chemical Inquiry I. 2 hours.  
Laboratory in general chemistry, including the quantum model of the atom, stoichiometry, periodicity, reaction types, intermolecular forces, and pH. Course Information: Credit is not given for CHEM 123 if the student has a C or better in CHEM 112 or a C or better in CHEM 116. Students should complete CHEM 123 within one semester of completing CHEM 122. Prerequisite(s): Grade of C or better in CHEM 101; and concurrent registration or Grade of C or better in CHEM 122. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Discussion. Natural World - With Lab course.

CHEM 124. Chemical Dynamics. 3 hours.  
A second semester course in chemical principles including chemical thermodynamics, phase transitions, spontaneity/equilibrium, electrochemistry, kinetics, bonding, molecular spectroscopy, coordination compounds, and buffer solutions. Course Information: Credit is not given for CHEM 124 if the student has a grade of C or better in CHEM 114 or CHEM 118. Students should complete CHEM 125 within a semester of completing CHEM 124. Prerequisite(s): Grade of C or better in CHEM 116; or Grade of C or better in CHEM 122 and Grade of C or better or concurrent registration in CHEM 123; or Grade of B or better in CHEM 115 and department consent. Class Schedule Information: To be properly registered, students must enroll in one Discussion and one Lecture. Natural World - No Lab course.
CHEM 125. Foundations of Chemical Inquiry II. 2 hours.
Laboratory in general chemistry including chemical thermodynamics, spontaneity, chemical equilibrium, acid-base equilibria, electrochemistry, kinetics, bonding, order/symmetry in condensed phases, coordination compounds, and spectroscopy. Course Information: Credit is not given for CHEM 125 if the student has a grade of C or better in CHEM 114 or CHEM 118. Students should complete CHEM 125 within one semester of completing CHEM 124. Prerequisite(s): Grade of C or better in CHEM 116; or Grade of C or better in CHEM 122 and Grade of C or better in CHEM 123; or Grade of B or better in CHEM 115 and department consent; and Grade of C or better or concurrent registration in CHEM 124. Natural World - With Lab course.

CHEM 130. Survey of Organic and Biochemistry. 5 hours.
Chemistry of classes of carbon compounds relevant to life sciences, and an introduction to the structure and metabolism of proteins, nucleic acids, lipids, and carbohydrates. Course Information: Credit Restrictions: Credit is not to be given for CHEM 130 if the student has credit in CHEM 114 or CHEM 118 or CHEM 124 or CHEM 125. Prerequisite(s): Grade of C or better in CHEM 115; or Grade of C or better in CHEM 116; or Grade of C or better in CHEM 122 and Grade of C or better in CHEM 123. This course is intended for pre-nursing students and should not be taken by those who need CHEM 124/CHEM 125 or CHEM 118. Class Schedule Information: To be properly registered, students must enroll in one Laboratory, one Lecture and one Quiz. Natural World - With Lab course.

CHEM 201. Elements of Glass Blowing. 1 hour.
Demonstrations and practice in glass blowing and the construction of simple laboratory equipment. Course Information: Prerequisite(s): Senior standing in chemistry and consent of the instructor.

CHEM 222. Analytical Chemistry. 4 hours.
Theory and application of chemical equilibria and instrumentation in quantitative analysis. Includes two weekly three-hour laboratories. Course Information: Prerequisite(s): Grade of C or better in CHEM 114; or Grade of C or better in CHEM 124 and Grade of C or better in CHEM 125; or Grade of C or better in CHEM 118 or the equivalent. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture.

CHEM 230. Organic Chemistry of Biological Systems. 4 hours.
One-semester introduction to organic chemistry as it pertains to biological systems, biomedical sciences and chemical biology. Course Information: Credit is not given for CHEM 230 if student has credit in CHEM 232 or CHEM 234. Prerequisite(s): Grade of C or better in CHEM 124 and Grade of C or better in CHEM 125; or Grade of C or better in CHEM 118; or Grade of C or better in CHEM 130; or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Lecture and one Quiz.

CHEM 232. Structure and Function. 3 hours.
First semester of a one-year sequence. Structure, reactivity, and synthesis of organic molecules. Course Information: Prerequisite(s): Grade of C or better in CHEM 122 and Grade of C or better in CHEM 123; or Grade of C or better in CHEM 116 and Grade of C or better in CHEM 118. Recommended background: Concurrent registration in CHEM 233. Class Schedule Information: To be properly registered, students must enroll in one Lecture and one Quiz.

CHEM 233. Synthesis Techniques Laboratory. 2 hours.
Introductory organic chemistry laboratory. Basic techniques (distillation, crystallization, chromatography, MP and BP), reactions (substitution, elimination, Diels-alder, oxidation-reduction), instrumentation (gas and liquid chromatography, IR). Course Information: Prerequisite(s): Grade of C or better in CHEM 230 or Grade of C or better or concurrent registration in CHEM 232; and Grade of C or better in CHEM 122 and Grade of C or better in CHEM 123; or Grade of C or better in CHEM 116 and Grade of C or better in CHEM 118; or consent of the instructor.

CHEM 234. Chemical Synthesis. 3 hours.
Continuation of CHEM 232. Course Information: Prerequisite(s): Grade of C or better in CHEM 232; and Grade of C or better in CHEM 124 and Grade of C or better in CHEM 125; or Grade of C or better in CHEM 118. Class Schedule Information: To be properly registered, students must enroll in one Lecture and one Discussion.

CHEM 235. Advanced Synthesis Techniques. 2 hours.
Advanced organic chemistry laboratory. Synthesis, stereochemistry, spectrometry (IR, NMR), organic analytical chemistry (TLC, HPLC), microscale techniques. Course Information: Prerequisite(s): Grade of C or better in CHEM 233; and Grade of C or better or concurrent registration in CHEM 234. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Discussion.

CHEM 240. Mathematical Methods in Physical Chemistry. 2 hours.
Chemistry workshop to support the development of students' math skills applied to physical chemistry courses at UIC. Course Information: Co-requisite(s): Students must be enrolled concurrently in CHEM 340 or CHEM 342.

CHEM 250. Environmental Chemistry. 3 hours.
The chemistry of the environment and the consequences of pollution brought about by natural and synthetic materials and modern energy usage. Course Information: Prerequisite(s): CHEM 230 or CHEM 232.

CHEM 314. Inorganic Chemistry. 4 hours.
Chemistry of the main-group elements, coordination chemistry and the transition elements, bioinorganic chemistry. Includes a weekly laboratory. Course Information: Prerequisite(s): Grade of C or better in CHEM 232 and grade of C or better in CHEM 233. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture.

CHEM 333. Interdisciplinary Approach to Chemical Synthesis. 3 hours.
Advanced organic/inorganic chemistry laboratory. Multi-step synthesis of small molecule sensing and molecular recognition, nucleic acid chemistry, bio-inspired catalysis, structure-function studies of therapeutics. Course Information: Prerequisite(s): Grade of C or better in CHEM 235 and Grade of C or better in CHEM 314. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture.

CHEM 340. Physical Chemistry for Biochemists I. 3 hours.
Thermodynamics of gases, solutions, reaction equilibria, and phase transitions. Course Information: Credit is not given for CHEM 340 if the student has credit for CHEM 342. Prerequisite(s): Grade of C or better in MATH 181; and Grade of C or better in CHEM 118 or Grade of C or better in both CHEM 124 and CHEM 125; and Grade of C or better in PHYS 132 or Grade of C or better in PHYS 142.
CHEM 342. Physical Chemistry I. 3 hours.
Thermodynamics of gases, solutions, reaction equilibria, and phase transitions. Course Information: Credit is not given for CHEM 342 if the student has credit for CHEM 340. Prerequisite(s): Grade of C or better in MATH 181; and Grade of C or better in CHEM 118 or CHEM 124 and CHEM 125; and Grade of C or better in PHYS 142; and grade of C or better or concurrent registration in MATH 210. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Lecture.

CHEM 343. Physical Chemistry Laboratory. 3 hours.
Experiments demonstrating principles of thermodynamics, reaction kinetics, spectroscopy and quantum mechanics in chemical systems using modern instrumentation and methods of data analysis. Course Information: Prerequisite(s): Grade of C or better in CHEM 340 or Grade of C or better in CHEM 342. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Lecture.

CHEM 344. Physical Chemistry for Biochemists II. 3 hours.
Introduction to molecular kinetics, quantum mechanics, and spectroscopy with applications of principles of physical chemistry to biochemical systems. Course Information: Credit is not given for CHEM 344 if the student has credit for CHEM 346. Prerequisite(s): Grade of C or better in CHEM 340 or Grade of C or better in CHEM 342; and Grade of C or better in PHYS 132 or Grade of C or better in PHYS 142; and Grade of C or better in MATH 181. Class Schedule Information: To be properly registered, students must enroll in one Lecture and one Discussion.

CHEM 346. Physical Chemistry II. 3 hours.
Kinetic and molecular theory of gases; introduction to the principles of quantum mechanics with application to model systems, multi-electron atoms, diatomic molecules, and bonding. Course Information: Credit is not given for CHEM 346 if the student has credit for CHEM 344. Prerequisite(s): Grade of C or better in CHEM 342 and Grade of C or better in MATH 210. Class Schedule Information: To be properly registered, students must enroll in one Lecture and one Discussion.

CHEM 352. Introductory Biochemistry. 3 hours.
Structure and function of cellular constituents; enzymology; metabolism of carbohydrates, lipids, amino acids, nucleotides; molecular biology of biosynthesis of proteins and nucleic acids. Course Information: Same as BIOS 352. No credit given for BIOS 352 if student has credit in BIOS 452 or BIOS 454 or CHEM 452 or CHEM 454. No credit toward the degree in biochemistry. Prerequisite(s): BIOS 100 or BIOS 110; and BIOS 101 or BIOS 120; and CHEM 230 or CHEM 232.

CHEM 402. Chemical Information Systems. 2 hours.
Introduction to chemical information, including the use of databases for searching chemical information and the use of molecular modeling and related computational systems to determine calculated properties of chemical substances. Course Information: Previously listed as CHEM 302. Prerequisite(s): Grade of C or better in CHEM 234, or consent of instructor. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Discussion.

CHEM 414. Advanced Inorganic Chemistry. 2 or 3 hours.
Introduction to the principles of inorganic chemistry. Structural and descriptive chemistry of the main-group elements. Course Information: 2 undergraduate hours. 3 graduate hours. Prerequisite(s): Grade of C or better in CHEM 314; and Grade of C or better in CHEM 340 or Grade of C or better in CHEM 342; or consent of the instructor.

CHEM 415. Inorganic Chemistry Laboratory. 0-4 hours.
Advanced inorganic chemistry laboratory. Preparative methods, Schlenk techniques, dry box. Fourier-transform infra-red and UV-visible spectroscopy, crystal growth. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Grade of C or better in CHEM 314. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture.

CHEM 416. Inorganic Chemistry II. 3 or 4 hours.
Structural and descriptive chemistry of the transition elements. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): CHEM 414.

CHEM 421. Instrumental Analysis. 0-4 hours.
A survey of contemporary instrumentation for chemical analysis. Emphasis on fundamentals of instrumental methods with actual experience on typical equipment. Includes a weekly three-hour laboratory. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Grade of C or better in CHEM 222; or Grade of C or better in CHEM 118. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture.

CHEM 432. Advanced Organic Chemistry. 3 or 4 hours.
Rigorous treatment of the physical principles upon which modern organic chemistry is developed to understand the interplay between chemical structure and reactivity. Course Information: 3 undergraduate hours. 4 graduate hours. Extensive computer use required. Prerequisite(s): Grade of C or better in CHEM 235.

CHEM 444. Spectroscopy in Chemistry and Biochemistry. 3 or 4 hours.
Applications of theory and experiment to the spectroscopy of molecules and biological macromolecules. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Grade of C or better in CHEM 346 or Grade of C or better in CHEM 344.

CHEM 448. Statistical Thermodynamics. 3 or 4 hours.
Introduction to statistical mechanics, partition functions, chemical equilibrium, ensembles, fluctuations, real gases, Einstein and Debye models of solids, magnetic materials, electrolytes, introduction to liquids. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): CHEM 346.

CHEM 452. Biochemistry I. 4 hours.
Chemistry of proteins, nucleic acids, carbohydrates and lipids. Course Information: Same as BIOS 452. Prerequisite(s): Credit or concurrent registration in CHEM 234. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Lecture.

CHEM 454. Biochemistry II. 4 hours.
Continues Chemistry 452. Carbohydrate and lipid metabolism, electron transport. Metabolism of amino acids, nucleic acids, proteins. Biosynthesis of macromolecules and regulation of macromolecular synthesis. Course Information: Same as BIOS 454. Prerequisite(s): BIOS 452 or CHEM 452. Class Schedule Information: To be properly registered, students must enroll in one Discussion/Recitation and one Lecture.
CHEM 455. Biochemistry Laboratory. 3 hours.
Introduction to modern biochemistry and molecular biology research. Includes recombinant DNA techniques, protein purification, site-directed mutagenesis, polymerase chain reaction, enzyme kinetics, protein structure data analysis and molecular graphics. Course Information: Prerequisite(s): CHEM 222 or CHEM 118; and CHEM 452 or BIOS 452. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Laboratory-Discussion.

CHEM 456. Natural Products. 3 or 4 hours.
Biogenetic approach to secondary metabolites. General principles and selected studies of phenolic compounds, terpenes, alkaloids, and other interesting natural products. Course Information: Same as BIOS 416. 3 undergraduate hours. 4 graduate hours. Prerequisite(s): One year of organic chemistry.

CHEM 458. Biotechnology and Drug Discovery. 3 or 4 hours.
Molecular and gene therapy, using small molecules including antisense, aptamers, and proteins. Structure-based drug design. Structural bioinformatics and drug discovery program. High-throughput screening. Combinatorial chemistry technology. Course Information: Same as BIOS 458. 3 undergraduate hours. 4 graduate hours. Prerequisite(s): BIOS 352 or CHEM 352; or Credit or concurrent registration in BIOS 452 or Credit or concurrent registration in CHEM 452; or consent of the instructor.

CHEM 470. Educational Practice with Seminar I. 6 hours.
The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Course Information: Graduate credit only with approval of the department. Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

CHEM 471. Educational Practice with Seminar II. 6 hours.
The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Course Information: Graduate credit only with approval of the department. Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in CHEM 470, and approval of the department. Class Schedule Information: To be properly registered, students must enroll in one Conference and one Practice.

CHEM 472. Teaching Methods in Chemistry. 2 or 3 hours.
A course in the methods of teaching high school chemistry, including the integration of technology. Course Information: 2 undergraduate hours. 3 graduate hours. Extensive computer use required. Prerequisite(s): 24 semester hours of undergraduate chemistry, including two semesters of laboratory chemistry. Recommended background: ED 210.

CHEM 474. Teaching Chemistry in High Schools. 1 hour.
Modern ways to help beginning learners construct in their own minds an understanding of scientific concepts and scientific method. Emphasis on the concepts of chemistry. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Approval of the department.

CHEM 475. Learning and Teaching of Physical Sciences. 3 hours.
Provides teacher candidates with the foundation and experience necessary to teach physical sciences in secondary schools. Course Information: Same as PHYS 475. Prerequisite(s): Senior standing or above; or approval of the department. Recommended background: Knowledge of first-year college physics and chemistry. Class Schedule: To be properly registered: Students must enroll in one Lecture-Discussion and one Laboratory.

CHEM 480. Elements of Machining Scientific Equipment. 1 hour.
Elements of machining scientific equipment, including the use of machine shop tools and technical drawing of scientific apparatus. Course Information: Same as EAES 478 and PHYS 480. Satisfactory/Unsatisfactory grading only. May be repeated. A maximum of 6 hours of CHEM 488, CHEM 492 and CHEM 499 combined may be credited toward departmental undergraduate degree course requirements. Prerequisite(s): Concurrent registration in LAS 289 or consent of the instructor.

CHEM 482. Cooperative Chemistry Practice. 1 hour.
Off-campus participation in a governmental or industrial training program. Credit is contingent on the submission of a final report. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. A maximum of 6 hours of CHEM 488, CHEM 492 and CHEM 499 combined may be credited toward departmental undergraduate degree course requirements. Prerequisite(s): 2.50 grade point average in science courses and consent of the instructor. Class Schedule Information: This course counts toward the limited number of independent study hours accepted toward the undergraduate degree and the major.

CHEM 484. Special Topics in Chemistry. 1-4 hours.
Course content is announced prior to each term in which the course is given. Course Information: May be repeated. Students may register in more than one section per term. Prerequisite(s): Approval of the department.

CHEM 488. Cooperative Chemistry Practice. 1 hour.
Individual study under supervision of a faculty member in areas not covered in standard courses. Credit is contingent on the submission of a final report. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. A maximum of 6 hours of CHEM 488, CHEM 492 and CHEM 499 combined may be credited toward departmental undergraduate degree course requirements. Prerequisite(s): Concurrent registration in LAS 289 or consent of the instructor. Class Schedule Information: This course counts toward the limited number of independent study hours accepted toward the undergraduate degree and the major.

CHEM 492. Independent Study. 1-2 hours.
Individual study under supervision of a faculty member in areas not covered in standard courses. Credit is contingent on the submission of a final report. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. A maximum of 6 hours of CHEM 488, CHEM 492 and CHEM 499 combined may be credited toward departmental undergraduate degree course requirements. Prerequisite(s): Concurrent registration in LAS 289 or consent of the instructor. Class Schedule Information: This course counts toward the limited number of independent study hours accepted toward the undergraduate degree and the major.

CHEM 499. Supervised Research. 3 hours.
Individual research performed under supervision of a faculty member. Credit is contingent on the submission of a final report. Research experience is strongly encouraged for career students. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. A maximum of 6 hours of CHEM 488, CHEM 492 and CHEM 499 combined may be credited toward departmental undergraduate degree course requirements. Prerequisite(s): Junior standing or above, approval of the department, consent of the instructor and a grade point average of 2.50 in science courses; or graduate standing. Recommended background: Credit in CHEM 333 or CHEM 314. Class Schedule Information: This course counts toward the limited number of independent study hours accepted toward the undergraduate degree and the major.