

Chemistry (CHM) - Graduate Courses

Courses

CHM 421/521 Cr.1-3

Advanced Topics in Chemistry

An advanced topic in chemistry based on appropriate prior work in physical chemistry, organic chemistry, inorganic chemistry, and analytical chemistry. Lecture and laboratory will be adapted to the topic being taught. May be repeated for credit when different topic is presented. Repeatable for credit - no maximum. Prerequisite: determined based on topic offered and include a minimum of three semesters of chemistry courses. Offered Occasionally.

CHM 530 Cr.3

Chemistry for Nurse Anesthesia

A graduate-level course that serves as a review of and introduction to chemical principles that are most important in the field of nurse anesthesia practice. Topics include but are not limited to oxidation-reduction chemistry, gas laws, effects of pH on the structure and behavior of drug molecules, primarily in aqueous environments, and metabolism of drugs. Prerequisite: admission to the MS in Biology: Nurse Anesthesia Concentration Program. Offered Spring.

CHM 445/545 Cr.3

Biochemistry of Antimicrobials

A survey of the biochemistry and chemistry of drugs used to treat infectious diseases, including antibiotics, antivirals, antifungals, and anti-parasitic drugs. This course surveys biochemical mechanisms of action of clinically used antimicrobials, biochemical mechanisms of antimicrobial resistance, the biosynthesis of antimicrobials by microorganisms, chemical synthesis of antimicrobials, and approaches for the discovery of new antimicrobials. This course is taught largely at an undergraduate level. Graduate students will have additional course requirements/expectations. Prerequisite: BIO 203 or BIO 315 or MIC 230; CHM 325 or CHM 417. Offered Spring.

CHM 789 Cr.1-3

Directed Study

Independent study under the direction and supervision of a chemistry faculty member. Repeatable for credit - maximum six. Consent of instructor. Offered Fall, Winter, Spring, Summer.