

CHM: CHEMISTRY

Courses

| | Credit(s) | Contact | Lab |
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| CHM 1020. CHEMISTRY IN EVERYDAY LIFE. CHEMISTRY IN EVERYDAY LIFE This course provides students with an introduction to chemical principles and applications for the non-science major. Students will engage in problem solving and critical thinking while applying chemical concepts. Topics will include the scientific method of problem solving, classification of matter, atomic theory, the periodic table, gases, chemical reactions, energy, and chemical bonds. (Not prerequisite for any other science course.) | 3 | 3 | 0 |
| CHM 1025C. INTRODUCTION TO GENERAL CHEMISTRY. INTRODUCTION TO GENERAL CHEMISTRY Prerequisite: Minimum grade of C in high school Honors Algebra II or MAT 1033C or higher MAC prefix course. Prepares students without high school chemistry or with inadequate background for CHM 1045C. Modern chemical theories used to develop understanding of fundamentals of inorganic chemistry and its applications. Emphasis on quantitative relationships, using dimensional analysis to solve problems. Laboratory experiences are integral part of course. May not be taken for credit subsequent to earning C or better in CHM 1045C. (Special Fee: \$103.00). | 4 | 3 | 3 |
| CHM 1045C. GENERAL CHEMISTRY WITH QUALITATIVE ANALYSIS I. GENERAL CHEMISTRY WITH QUALITATIVE ANALYSIS I Prerequisite: Minimum grade of C in either CHM 1025C or one year of high school chemistry; and MAC 1105 or honor's high school Algebra II with a minimum grade of C. This course is designed for students pursuing careers in the sciences or who need a more rigorous presentation of chemical concepts than is offered in an introductory course. Students will engage in problem solving and critical thinking while applying chemical concepts. Topics will include the principles of chemistry including atomic theory, electronic and molecular structure, measurement, stoichiometry, bonding, periodicity, thermochemistry, nomenclature, solutions, and the properties of gasses. (Special Fee: \$75.00). | 4 | 3 | 3 |
| CHM 1045H. GENERAL CHEMISTRY WITH QUALITATIVE ANALYSIS I -HONORS. GENERAL CHEMISTRY WITH QUALITATIVE ANALYSIS I -HONORS Same as CHM 1045C with honors content. Honors program permission required. (Special Fee: \$75.00). | 4 | 3 | 3 |
| CHM 1046C. GENERAL CHEMISTRY WITH QUALITATIVE ANALYSIS II. GENERAL CHEMISTRY WITH QUALITATIVE ANALYSIS II Prerequisite: CHM 1045C with C or better. Continuation of CHM 1045C dealing mainly with equilibrium theory, thermodynamics, chemical kinetics and electrochemistry. Laboratory illustrates principles of ionic equilibria within framework of qualitative analysis. (Special Fee: \$97.00). | 4 | 3 | 3 |
| CHM 1046H. GENERAL CHEMISTRY WITH QUALITATIVE ANALYSIS II HONORS. GENERAL CHEMISTRY WITH QUALITATIVE ANALYSIS II HONORS Same as CHM 1046C with honors content. Honors program permission required. (Special Fee: \$97.00). | 4 | 3 | 3 |

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| CHM 2210C. ORGANIC CHEMISTRY I. ORGANIC CHEMISTRY I Prerequisite: CHM 1046C or comparable college-level general chemistry course. This course deals with organic compounds, their properties, reactions, and synthesis, emphasizing dependence of properties and reaction mechanisms upon structure. Laboratory illustrates techniques of separation, identification, and purification. (Special Fee: \$132.00). | 4 | 3 | 3 |
| CHM 2211C. ORGANIC CHEMISTRY II. ORGANIC CHEMISTRY II Prerequisite: Minimum grade of C in CHM 2210C Continuation of CHM 2210C with laboratory devoted to multistep synthesis. (Special Fee: \$140.00). | 4 | 3 | 3 |
| CHM 2933. SPECIAL TOPICS IN CHEMISTRY. SPECIAL TOPICS IN CHEMISTRY Prerequisites: CHM 1045C and departmental approval. For advanced students in chemistry who wish to pursue certain topics in detail in chemistry as chosen by class; to research topics; to present information and lead discussion with other students and faculty members. Lecture/laboratory instruction. Multiple credit course. May be repeated for maximum of three hours of credit and grade forgiveness cannot be applied. | 1-3 | variable | |
| CHM 2941. INTERNSHIP EXPLORATION IN CHEMISTRY. INTERNSHIP EXPLORATION IN CHEMISTRY Prerequisites: Satisfactory completion of all mandated courses in Reading, Mathematics, English and English for Academic Approval; a minimum 2.0 institutional or overall GPA; and 12 credits, including CHM 1025C or CHM 1045C. The Program Director/Program Chair/Program Coordinator or Internship Placement Office has the discretion to provide override approval as it relates to the waiver of required program/discipline-related courses. This course is a planned work-based experience that provides students with supervised career exploration activities and/ or practical experiences. Each earned credit of internship requires a minimum of 80 clock hours of work. Multiple credit course. May be repeated for credit, but grade forgiveness cannot be applied. (Internship Fee: \$10.00). | 1-4 | variable | |