CHEM-CHEMISTRY (CHEM)

CHEM 100. Basic Chemistry
3 Credits
For students whose preparatory science or math training has been deficient. Does not meet the chemistry requirement in any curriculum. **Prerequisite:** Enhanced ACT composite score of at least 18 or a grade of C or better in CCDM 114 N.

CHEM 101. General Supplemental Instruction I
1 Credit
Collaborative workshop for students in General Chemistry I. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits. **Corequisite:** CHEM 111G.

CHEM 102. General Supplemental Instruction II
1 Credit
Collaborative workshop for students in General Chemistry II. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits. **Corequisite:** CHEM 112G.

CHEM 103. Principles of Supplemental Instruction III
1 Credit
Collaborative workshop for students in CHEM 110G, Principles and Applications of Chemistry. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits. **Co-requisite:** CHEM 110G.

CHEM 110G. Principles and Applications of Chemistry
4 Credits (3+3P)
A survey of the properties and uses of the elements and their compounds. In addition to classical chemistry, attention is paid to the materials from which consumer products are made, to the production of energy, and to environmental considerations. **Prerequisite:** 3 years of high school math or CCDM 114N.

CHEM 111G. General Chemistry I
4 Credits (3+3P)
Descriptive and theoretical chemistry. CHEM 111G/112G are General Education alternative to CHEM 110G. **Prerequisite:** (1) grade of C or better in MATH 120 or a Mathematics Placement Exam Score adequate to enroll in mathematics courses beyond MATH 120; and (2) one of the following: B or better in a second semester high school chemistry course, or grade of at least C in CHEM 100, or an enhanced ACT score of at least 22.

CHEM 112G. General Chemistry II
4 Credits (3+3P)
Descriptive and theoretical chemistry. CHEM 111G/112G are General Education alternative to CHEM 110G. **Prerequisite(s):** CHEM 111G.

CHEM 115. Principles of Chemistry I
4 Credits (3+3P)
Detailed introduction to analytical, inorganic and physical aspects of chemistry; both descriptive and theoretical explanations. Structured for chemistry and biochemistry majors but appropriate for other physical and life science students. CHEM 115/116 are General Education alternatives to CHEM 110G. **Prerequisite:** Eligible to take MATH 190G and an ACT composite score of 22 or higher.

CHEM 116. Principles of Chemistry II
4 Credits (3+3P)
Recommended for chemistry majors and other qualified students. CHEM 115/116 are General Education alternatives to CHEM 110G.

**Prerequisites:** grade of C or better in CHEM 115.

CHEM 210. Chemistry for the Allied Health Sciences
3 Credits
Discussion and application of the established facts and concepts of general organic chemistry and biochemistry to acquire a molecular understanding of a variety of health related issues, from atmospheric ozone holes to human nutrition. **Prerequisite:** CHEM 110G or CHEM 111G.

CHEM 211. Organic Chemistry
4 Credits (3+3P)
A one-semester survey for students requiring a brief coverage of important classes of organic compounds. May be repeated up to 4 credits. **Prerequisite(s):** CHEM 112G.

CHEM 217. General Chemistry III
3 Credits (2+3P)
Quantitative aspects of general chemistry: solid state structure, equilibrium, thermodynamics, and kinetics. Required of chemical science majors who have taken CHEM 111G/112. **Prerequisite:** CHEM 112G.

CHEM 241. Introduction to Research
1-3 Credits (3+9P)
Techniques and procedures of chemical research. May be repeated for a maximum of 3 credits. **Prerequisites:** 8 credits of chemistry and a 3.0 GPA in chemistry.

CHEM 242. Explorations in Chemistry
1 Credit
Historical and current developments, careers in chemistry, computer applications and use of the library by chemists. To be completed before the end of the sophomore year. Graded S/U.

CHEM 251. Special Topics in Chemistry
1-6 Credits (1-6)
Specific subjects in Chemistry. These subjects will be announced in the 'Schedule of Classes'. It may be repeated under different topics for a maximum of 12 credits.