

## DEPARTMENT OF CHEMISTRY

Add new courses:

### CHEM 111 – Introduction to Chemistry Concepts

1 Credit Hour

Problem solving in chemistry applications including introductions to dimensional analysis, bonding, chemical equations and stoichiometry. This course is designed to prepare students for 120 when placement exam scores indicate that a stronger background is necessary.

Grading Restriction: A, B, C, No Credit grading only.

Credit Restriction: Students who receive a grade of C or better in 100, 120 or 128 may not subsequently receive credit for 111.

### CHEM 503 – Chemical Research Skills and Ethical Conduct

1 Credit Hour

Course will discuss skills that are necessary for successful scientific careers and complementary to laboratory skills, such as professional ethics, chemical literacy, oral presentation, proposal writing, experimental design and career development.

Grading Restriction: S/NC grading only.

Revise description and prerequisite:

### CHEM 120 – General Chemistry I

4 Credit Hours

A general course in theoretical and descriptive chemistry. Modern atomic theory, chemical bonding, molecular structures and geometries, stoichiometry, quantitative aspects of solution chemistry, thermochemistry, and introduction to organic chemistry.

(RE) Prerequisite(s): Chemistry requirement: satisfactory placement exam score or 111 AND Math requirement: Mathematics 119 or Math ACT score of 25 or higher or SAT Math score of 590 or higher.

Formerly:

A general course in theoretical and descriptive chemistry. Modern atomic theory, chemical bonding, stoichiometry, quantitative treatment of gas laws, quantitative aspects of solution chemistry, kinetics.

(RE) Prerequisite(s): Mathematics 119 or Math ACT score of 25 or higher, or SAT Math score of 620 or higher.

Revise description and prerequisite:

### CHEM 130 – General Chemistry II

4 Credit Hours

A general course in theoretical and descriptive chemistry. Quantitative treatment of gas laws, kinetics, chemical equilibria, acid and base chemistry, thermodynamics, electrochemistry, introduction to coordination chemistry.

(RE) Prerequisite(s): 120 or 128 with a grade of C or better.

Formerly:

CHEM 130 – General Chemistry II

4 Credit Hours

A general course in theoretical and descriptive chemistry. Chemical equilibria, thermochemistry, descriptive chemistry of non-metallic and metallic elements, electrochemistry, introduction to organic and biochemistry.

(RE) Prerequisite(s): 120 or 128.

Chemistry Major, MS, Requirements, add bullet after the fourth bullet and add as a requirement:

CHEM 503

Chemistry Major, PhD, Requirements, add bullet after fifth bullet and add as a requirement:

CHEM 503