

CHEMISTRY (CHEM)

CHEM 101 - Fundamental Chemistry I (4 Credits)

A science elective surveying inorganic and solution chemistry. First of a terminal two-semester sequence. Three lecture, one recitation, and two laboratory hours per week.

Carolina Core: SCI

CHEM 102 - Fundamental Chemistry II (4 Credits)

An introductory survey of organic and biochemistry. Three lecture, one recitation, and two laboratory hours per week.

Prerequisites: 1 year high-school chemistry, CHEM 101, CHEM 111, or equivalent.

Carolina Core: SCI

CHEM 105 - Chemistry and Modern Society I (4 Credits)

A conceptual and qualitative approach to chemistry, its evolution, achievements, and goals and its impact on technology, the environment, and modern life and thought. (Specifically designed for non-science majors.) Three lecture and three laboratory hours per week.

Carolina Core: SCI

CHEM 111 - General Chemistry I (3 Credits)

Survey of the principles that underlie all chemistry with applications illustrating these principles. Three lecture and one recitation hours per week.

Prerequisites: C or higher in MATH 111, MATH 115, MATH 122, MATH 141 or higher math (or by placement score into MATH 122, MATH 141 or higher math).

Corequisite: CHEM 111L (unless grade of C or higher in CHEM 111L earned previously).

Carolina Core: SCI

CHEM 112 - General Chemistry II (3 Credits)

Continuation of CHEM 111. Special emphasis on chemical equilibrium. Three lecture and one recitation hours per week.

Prerequisites: C or higher in CHEM 111 and C or higher in MATH 111, MATH 115, MATH 122, MATH 141 or higher math.

Corequisite: CHEM 112L.

CHEM 331L - Essentials of Organic Chemistry Laboratory I (1 Credit)

Laboratory safety, syntheses, separation, and purification of carbon compounds. For non-majors.

Corequisite: CHEM 333 (unless grade of C or higher in CHEM 333 earned previously).

CHEM 332L - Essentials of Organic Chemistry Laboratory II (1 Credit)

Continuation of CHEM 331L. Spectroscopic identification of carbon compounds. For non-majors. Three lab hours per week.

Prerequisites: C or higher in CHEM 331L.

Corequisite: CHEM 334 (unless grade of C or higher in CHEM 334 earned previously).

CHEM 333 - Organic Chemistry I (3 Credits)

Contemporary theories, nomenclature, reactions, mechanisms, and syntheses of carbon compounds. Three lecture and one recitation hours per week.

Prerequisites: C or higher in CHEM 112 or in CHEM 142.

CHEM 333L - Comprehensive Organic Chemistry Laboratory I (2 Credits)

Laboratory safety, synthesis, separation, and purification of carbon compounds. Required for chemistry majors. Six laboratory hours per week.

Corequisite: CHEM 333 (unless grade of C or higher in CHEM 333 earned previously).

CHEM 334 - Organic Chemistry II (3 Credits)

Continuation of CHEM 333. Three lecture and one recitation hours per week.

Prerequisites: C or higher in CHEM 333.