

# CHEMISTRY (CHEM)

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## 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 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.

**Carolina Core:** SCI

## 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.

## CHEM 334L - Comprehensive Organic Chemistry Laboratory II (2 Credits)

Continuation of CHEM 333L. Spectroscopic identification of carbon compounds. Required for chemistry majors. Six laboratory hours per week.

**Prerequisites:** C or higher in CHEM 333L.

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

## CHEM 399 - Independent Study (1-3 Credits)

Contract Required.

**Graduation with Leadership Distinction:** GLD: Research