

CHEMISTRY MAJOR 2014-2015

This checklist is for reference only. Please see the College Catalog and check with your major adviser or department chair to assure compliance with graduation requirements.

Note: Pre-requisites in parentheses

I. Required Courses

Sem. Taken	Cr. Earned	
		a. Chemistry Core Courses (28 credit-hours)
		CHEM 106 General Chemistry II (pre-requisite CHEM 103 or successful completion of the placement exam)
		CHEM 305 Quantitative Analysis (CHEM 106)
		CHEM 311 Organic Chemistry I (CHEM 106).
		CHEM 312 Organic Chemistry II (CHEM 311)
		CHEM 405 Inorganic Chemistry (CHEM 312)
		CHEM 451 Physical Chemistry I (CHEM 106, PHYS131, MATH 152)
		CHEM 452 Physical Chemistry II (CHEM 451)

b. Cognate Courses (16 semester-hours)

		MATH 151 Calculus I
		MATH 152 Calculus II (MATH 151)
		PHYS 141 General Physics I (recommended) or PHYS 151 Fundamentals of Physics
		PHYS 142 General Physics II (recommended) or PHYS 152 Fundamentals of Physics

c. Elective Courses selected from the following list of options:

Option 1: ACS-Certified Major

- CHEM 325 Chem Literature (**CHEM 312**)
- CHEM 420 Biochemistry I (**CHEM 312**)

Option 2: non-ACS-Certified Major (4 semester-hours)

Course 1: _____

Courses (4 semester-hours) selected from the following list:

- CHEM 306 Instrumental Analysis (**CHEM 305, 312**)
- PHYS 462 Quantum Mechanics (**PHYS 231, MATH 256**)
- CHEM 480 Topics in Chemistry
- CHEM 397, CHEM 399, CHEM 497, CHEM 499 Directed Research/Independent Study (as approved by the Chemistry Faculty)

II. Every Chemistry major must complete a St. Mary's Project

		CHEM 493 St. Mary's Project
		CHEM 494 St. Mary's Project