## CHEMISTRY MAJOR 2012-2013

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 C	ourses
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. Cogn		b. Cognate Co	ourses (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
			ourses (4 credit-hours) selected from the following
		list of op	
	-		S-Certified Major
		Course 1:	
		Courses selec	eted from the following:
			CHEM 325 Chem Literature (CHEM 312)
			CHEM 420 Biochemistry I (CHEM 312)
		Option 2: nor	n-ACS-Certified Major (4 semester-hours)
		Course 1:	
		Courses (4 sen	nester-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)
			PHYS 462: Quantum Mechanics

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

St. Mary's Project

St. Mary's Project

CHEM 493

CHEM 494