



College Document # 84R
 UCC Document # _____
 Date Received _____

CATALOG YEAR 2014-2015
(Please use separate form for each add/change)

COLLEGE/SCHOOL : College of Arts and Sciences

Current Catalog Page(s) Affected:

Program: Add: ___ Change: X Attach new/changed Program of Study description and 4-year plan. If in current catalog, copy and paste the text from the [on-line catalog](#) and indicate changes in red.

Degree Requirements for the BS with a Major in Chemistry

1. **Hours Required:** A minimum of **120** semester credit hours (SCH): 45 hours must be advanced, and fulfillment of degree requirements as specified in the "Requirements for Graduation" section of this catalog.
2. **University Core Curriculum:** **42** SCH as outlined in the suggested plans and as specified in the "Requirements for Graduation".
3. **MATH Elective:** **8** SCH designated as MATH 2414 and MATH 3330 and 1 SCH surplus from core.
4. **Major:** **43** SCH and the **4** SCH of CHEM 1311/1111 ~~and 1312~~ taken as part of the core; additional lower level requirements of CHEM 1412, 2423, 2425; upper level requirements of CHEM 3405, 3431, 3451, 4120 (taken twice), 4190 and 4411; and 12 SCH selected from any additional CHEM course at the 3000-4000 level. CHEM 4120 may be repeated for up to 2 SCH of credit within the degree program.
5. **Minor:** A minimum of **18** SCH from one discipline at least twelve of which must be at the 3000-4000 level. See Appendix C.
6. **Supporting Sciences Curriculum:** **9** SCH including PHYS 1301/1101, PHYS 1302/1102 and BIOL ~~1306~~/1106 and the **3** SCH of BIOL 1306 taken as part of the core.

Justification: Match the new core. **Corrections to CHEM 1412**

Approvals:	Signature	Date
Chair Department Curriculum Committee	_____	_____
Chair Department	_____	_____
Chair College Curriculum Committee	_____	_____
Dean	_____	_____

**BACHELOR OF SCIENCE
MAJOR IN CHEMISTRY**

Following is **one** suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment; responsible for reviewing the **Program of Study Requirements**; and must meet **foreign language** and **writing intensive course** requirements for graduation. See Academic Regulations-Undergraduate online.

* See **Appendix C** for approved list of minors and requirements. Instead of a minor, students may complete 18 SCH of electives, 12 SCH of which must be at the 3000-4000 level, from any discipline, except the major field, outside the College of Nursing and Health Sciences.

FALL	HOURS	SPRING	HOURS
FRESHMAN YEAR		FRESHMAN YEAR	
BIOL 1306 Principles of Biology I	3		
BIOL 1106 Principles of Biology I Lab	1		
CHEM 1311 General Chemistry I	3	CHEM 1412 General Chemistry II	4
CHEM 1111 General Chemistry I Lab	1	CHEM 1112 General Chemistry II Lab	1
ENGL 1301 English Composition I	3	ENGL 1302 English Composition II	3
HIST 1301 The U.S. to 1877	3	HIST 1302 The U.S. Since 1877	3
		Soc/Behavioral Science*	3
UNIV 1101 Learning in a Global Context I	<u>1</u>	UNIV 1102 Learning in a Global Context II	<u>1</u>
Total	15		14
SOPHOMORE YEAR		SOPHOMORE YEAR	
CHEM 2423 Organic Chemistry I	4	CHEM 2425 Organic Chemistry II	4
PHYS 1301 General Physics I	3	PHYS 1302 General Physics II	3
PHYS 1101 Physics I Lab	1	PHYS 1102 Physics II Lab	1
MATH 2413 Calculus I	4	ENGL 2311 Technical Writing	3
PSCI 2305 American National Govt	3	MATH 2414 Calculus II	4
		PSCI 2306 American State Govt	<u>3</u>
Total	15		18
JUNIOR YEAR		JUNIOR YEAR	
CHEM 3405 Analytical Chemistry I	4	CHEM Advanced CHEM Elec ¹	4
CHEM 3451 Biochemistry I	4	CHEM 4190 Writing in Chemical Literature	1
		ENGL Language, Philosophy, Culture*	3
	3	MATH 3330 Differential Equations	3
	<u>3</u>	Minor/Gen Elective**	<u>3</u>
Total	14		14
SENIOR YEAR		SENIOR YEAR	
CHEM 3431 Physical Chemistry I	4	CHEM 4120 Senior Seminar	1
CHEM 4120 Senior Seminar	1	CHEM Advanced CHEM Elec ¹	4
CHEM 4411 Inorganic Chemistry	4	CHEM Advanced CHEM Elec ¹	4
		Adv Minor/Gen Elective**	3
	3	Adv Minor/Gen Elective**	<u>3</u>
Total	15		15

TOTAL SEMESTER CREDIT HOURS: 120

¹Advanced Chemistry electives, select 12 SCH from any additional CHEM 3000-4000 level course.

*Actual degree plans may vary depending on availability of courses in a given semester.
Some courses may require prerequisites not listed.*