

## SECONDARY EDUCATION - CHEMISTRY

This four-year plan is valid for the 2011-2012 USM Undergraduate Catalog only and is subject to change. This guide is merely a recommendation. Your actual program may vary. Other factors may impact your time to degree and course sequencing. See the current USM Undergraduate Catalog at <http://www.stmary.edu/catalogs/ugrad/default.htm> for more information, including USM academic policies, curriculum, pre-requisites, and course information.

### For students entering in an EVEN year:

Freshman Year	
Fall 1 Even	Spring 1 Odd
CH 121 General Chemistry I (4)	CH 122 General Chemistry II (4)
MA 221 Calculus With Analytic Geometry I (4)	MA 222 Calculus With Analytic Geometry II (4)
GE 114 First Year Experience I (3)	GE 115 First Year Experience II (3)
EN 111 English Composition I (3)	EN 112 English Composition II (3)
Theology General Education (3)	Social Science General Education (3)
<b>TOTAL: 17 hours</b>	<b>TOTAL: 17 hours</b>

Sophomore Year	
Fall 2 Odd	Spring 2 Even
CH 330 Organic Chemistry I (4)	CH 331 Organic Chemistry II (4)
PHY 215 Physics I (4)	PHY 216 Physics II (4)
Theology General Education (3)	CH 420 Inorganic Chemistry (3)
Literature General Education (3)	PY 290 Psychology of Childhood and Adolescence (3)
SCA 250 Lifetime Wellness (3)	History General Education (3)
<b>TOTAL: 17 hours</b>	<b>TOTAL: 17 hours</b>

Junior Year	
Fall 3 Even	Spring 3 Odd
CH 464 Physical Chemistry I (4)	CH 465 Physical Chemistry II (4)*
CH 598 Research Problems in Chemistry (1)*	ED 576 Teaching Reading in the Content Areas (3)
ED 402 Foundations of Education (4)	ED 430 Educating Exceptional Children and Youth (3)
ED 428 Psychological Foundations (3)	Philosophy General Education (3)
Fine Arts General Education (3)	Elective (3)
Elective (3)	
<b>TOTAL: 18 hours</b>	<b>TOTAL: 16 hours</b>

Senior Year	
Fall 4 Odd	Spring 4 Even
CH 354 Analytical Chemistry (4)	ED 590 Seminar III: Professional Collaborations (1)
CH 594 Chemistry Seminar (1)	ED 594 Classroom Management and Student Motivation (3)
NS 597 Science and Society Seminar (2)	ED 596 Student Teaching Secondary (8)
NS 588 Practical Applications for Teaching Science (1-3)	
ED 522 Methods for Teaching Diverse Learners (3)	
ED 589 Secondary Methods (3)	
<b>TOTAL: 14-16 hours</b>	<b>TOTAL: 12 hours</b>

\* Starred selections are optional.

**For students entering in an ODD year:**

<b>Freshman Year</b>	
<b>Fall 1 Odd</b>	<b>Spring 1 Even</b>
CH 121 General Chemistry I (4)	CH 122 General Chemistry II (4)
MA 221 Calculus With Analytic Geometry I (4)	MA 222 Calculus With Analytic Geometry II (4)
GE 114 First Year Experience I (3)	GE 115 First Year Experience II (3)
EN 111 English Composition I (3)	EN 112 English Composition II (3)
Theology General Education (3)	Social Science General Education (3)
<b>TOTAL: 17 hours</b>	<b>TOTAL: 17 hours</b>

<b>Sophomore Year</b>	
<b>Fall 2 Even</b>	<b>Spring 2 Odd</b>
CH 330 Organic Chemistry I (4)	CH 331 Organic Chemistry II (4)
PHY 215 Physics I (4)	PHY 216 Physics II (4)
Theology General Education (3)	PY 290 Psychology of Childhood and Adolescence (3)
Literature General Education (3)	History General Education (3)
SCA 250 Lifetime Wellness (3)	Philosophy General Education (3)
<b>TOTAL: 17 hours</b>	<b>TOTAL: 17 hours</b>

<b>Junior Year</b>	
<b>Fall 3 Odd</b>	<b>Spring 3 Even</b>
CH 354 Analytical Chemistry (4)	CH 420 Inorganic Chemistry (3)
CH 598 Research Problems in Chemistry (1)*	CH 455 Instrumental Analysis (4)*
ED 402 Foundations of Education (4)	ED 576 Teaching Reading in the Content Areas (3)
ED 428 Psychological Foundations (3)	ED 430 Educating Exceptional Children and Youth (3)
Fine Arts General Education (3)	Elective (3)
Elective (3)	
<b>TOTAL: 18 hours</b>	<b>TOTAL: 16 hours</b>

<b>Senior Year</b>	
<b>Fall 4 Even</b>	<b>Spring 4 Odd</b>
CH 464 Physical Chemistry I (4)	ED 590 Seminar III: Professional Collaborations (1)
CH 594 Chemistry Seminar (1)	ED 594 Classroom Management and Student Motivation (3)
NS 597 Science and Society Seminar (2)	ED 596 Student Teaching (8)
NS 588 Practical Applications for Teaching Science (1-3)	
ED 522 Methods for Teaching Diverse Learners (3)	
ED 589 Secondary Methods (3)	
<b>TOTAL:14-16 hours</b>	<b>TOTAL: 12 hours</b>

\* Starred selections are optional.