

## 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)	Behavioral Science General Education (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>

Junior Year	
Fall 3 Even	Spring 3 Odd
CH 464 Physical Chemistry I (4)	CH 465 Physical Chemistry II (4)*
BI 220 Cell Biology (4)**	BICH 461 Biochemistry (3)*
Fine Arts General Education (3)	BICH 462 Biochemistry Lab (1)*
Elective (3)	Elective (3)
Elective (3)	Elective (3)
<b>TOTAL: 17 hours</b>	<b>TOTAL: 14 hours</b>

Senior Year	
Fall 4 Odd	Spring 4 Even
CH 354 Analytical Chemistry (4)	CH 455 Instrumental Analysis (4)*
CH 594 Chemistry Seminar (1)	CH 420 Inorganic Chemistry (3)
NS 597 Science and Society Seminar (2)	CH 599 Research Problems in Chemistry (1)*
CH 598 Research Problems in Chemistry (1)*	Elective (3)
Elective (3)	Elective (3)
Elective (3)	Elective (3)
<b>TOTAL: 14 hours</b>	<b>TOTAL: 17 hours</b>

\* Students must choose a total of 8 hours from the starred selections.

\*\*BI 220 is only required if student is taking BICH 461.

**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)	Behavioral Science General Education (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 455 Instrumental Analysis (4)*
BI 220 Cell Biology (4)**	CH 420 Inorganic Chemistry (3)
Fine Arts General Education (3)	Elective (3)
Elective (3)	Elective (3)
Elective (3)	Elective (3)
<b>TOTAL: 17 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)	CH 465 Physical Chemistry II (4)*
CH 594 Chemistry Seminar (1)	BICH 461 Biochemistry (3)*
NS 597 Science and Society Seminar (2)	BICH 462 Biochemistry Lab (1)*
CH 598 Research Problems in Chemistry (1)*	CH 599 Research Problems in Chemistry (1)*
Elective (3)	Elective (3)
Elective (3)	Elective (3)
<b>TOTAL: 14 hours</b>	<b>TOTAL: 15 hours</b>

\* Students must choose a total of 8 hours from the starred selections.