UNIVERSITY OF SAINT MARY THREE-YEAR ACADEMIC PLAN

BIOMEDICAL SCIENCES

This three-year plan is valid acording to the USM Undergraduate Catalog 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/catalog** for more information, including USM academic policies, curriculum, pre-requisites, and course information.

Sample Three Year Plan for a Biomedical Sciences Major for students entering USM with a Composite ACT score of 28 and above

Note: students should consult the Biology Program faculty early on in their education so that a plan can be specifically tailored for the student.

This will allow the Biology Program faculty to take account of:

- any AP courses, dual credit or college credit courses taken already which will allow certain courses in the sample plan to be omitted

It should be noted that many science courses have pre-requisites. Additionally, some are taught only every two years.

A student's individual interests can be catered for with specific elective courses, and such interests are best discussed with the Biology Program faculty.

It is the desire of the Biology Program faculty to allow the student to complete all requirements for the major in 3 years, whilst also avoiding overload charges (the maximum number of credit hours allowed per semester is 18). Depending on the course history of the student prior to beginning their studies at USM, this may not always be possible. In such cases, the Biology Program faculty will suggest best options for the student, perhaps taking some courses over the summers.

For students entering in an EVEN year:

Freshman Year	
Fall Even	**Spring Odd**
BI 115 Ecology (3)	BI 212 Diversity of Plants and Animals (3)
CH 121 General Chemistry I (4)	CH 122 General Chemistry 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)
Gen Ed elective, Theology course (3)	BI 265 Basic Microbiology (4)
TOTAL: 16 hours	**TOTAL: 17 hours**

Sophomore Year	
Fall Odd	**Spring Even**
BI 220 Cell Biology (4)	CH 331 Organic Chemistry II (4)
CH 330 Organic Chemistry I (4)	BI 259 Human Anatomy & Physiology II (5)
BI 258 Human Anatomy & Physiology I (5)	BI 451 Immunology (3)
MA 230 Introductory Statistics (3)	PY 290 Childhood and Adolescent Psychology (3)**
Gen Ed elective, Theology course (3)	Gen Ed elective, Philosophy course (3) – suggest Bioethics
TOTAL: 19 hours	**TOTAL: 18 hours**

Junior Year	
Fall Even	**Spring Odd**
PHY 215 Physics I (4)	PHY 216 Physics II (4)
BI 595 Biology Seminar (1)*	BI 445 Genetics (4)
NS 597 Science and Society Seminar (2)*	BICH 461 Biochemistry Lecture (3)
Gen Ed elective, History course (3)	Gen Ed elective, Social Science course (3)
Gen Ed elective, Literature course (3)	SCA 242, Lifetime Wellness (3)
Gen Ed elective, Fine Arts course (3)	
PY 355, Psychology of Aging (3)**	
TOTAL: 19 hours	**TOTAL: 17 hours**

***Courses not required but are desired.**

****Both courses are desired although only one Behavioral Science course is required.**

Of the 7 Gen Ed electives, 4 must be Idea Seminars and 1 must be a Cultural Studies course.

For students entering in an ODD year:

Freshman Year	
Fall Odd	**Spring Even**
BI 115 Ecology (3)*	BI 212 Diversity of Plants and Animals (3)
CH 121 General Chemistry I (4)	CH 122 General Chemistry 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)
Gen Ed elective, Theology course (3)	BI 265 Basic Microbiology (4)
TOTAL: 16 hours	**TOTAL: 17 hours**

Sophomore Year	
Fall Even	**Spring Odd**
BI 220 Cell Biology (4)	CH 331 Organic Chemistry II (4)
CH 330 Organic Chemistry I (4)	BI 445 Genetics (4)
MA 230 Introductory Statistics (3)	BICH 461 Biochemistry Lecture (3)
Gen Ed elective, Theology course (3)	PY 290 Childhood and Adolescent Psychology (3)**
SCA 242, Lifetime Wellness (3)	Gen Ed elective, Philosophy course (3) – suggest Bioethics
TOTAL: 17 hours	**TOTAL: 17 hours**

Junior Year	
Fall Odd	**Spring Even**
BI 258 Human Anatomy & Physiology I (5)	BI 259 Human Anatomy & Physiology II (5)
PHY 215 Physics I (4)	PHY 216 Physics II (4)
BI 595 Biology Seminar (1)*	BI 451 Immunology (3)
NS 597 Science and Society Seminar (2)*	Gen Ed elective, Fine Arts course (3)
Gen Ed elective, History course (3)	Gen Ed elective, Social Science course (3)
Gen Ed elective, Literature course (3)	
PY 355, Psychology of Aging (3)**	
TOTAL: 21 hours	**TOTAL: 18 hours**

***Courses not required but are desired.**

****Both courses are desired although only one Behavioral Science course is required.**

Of the 7 Gen Ed electives, 4 must be Idea Seminars and 1 must be a Cultural Studies course.