

# B.A. in Biology

Code	Title	Semester Hours
<b>St. Mary's University Core <sup>1</sup></b>		
SMC 1301	Foundations of Civilization	3
SMC 1311	Foundations of Reflection:Self	3
SMC 1312	Foundations of Reflection: Nature	3
SMC 1313	Foundations of Reflection: Others	3
SMC 1314	Foundations of Reflection: God	3
SMC 2301	Foundations of Practice: Ethics	3
SMC 2302	Foundations of Practice: Civic Engagement and Social Action	3
SMC 2303	Foundations of Practice:Fine Arts and Creative Process	3
SMC 2304	Foundations of Practice: Literature	3
SMC 4301	Capstone Seminar: Prospects for Community & Civilization	3
<b>School of Science, Engineering, and Technology Specific Core</b>		
Speech		3
Select one of the following:		
CM 1341	Fundamentals of Oral Communication	
CM 2333	Business and Professional Communication	
CM 3391	Argumentation and Debate	
Rhetoric & Composition <sup>2</sup>		3
EN 1311	Rhetoric and Composition	
Foreign Languages		6
Select one of the following:		
6 hours at the sophomore level (2311, 2312) in a Foreign Language previously studied for a minimum of one year		
6 hours of introductory level (1311, 1312) in a Foreign Language not previously studied		
12 hours of CLEP/AP credit		
History/Social Science		3
Select one of the following:		
Any HS course		
BA 1310	Fundamentals of Business Enterprise	
CJ 1301	Introduction to Criminal Justice	
CJ 3300	Adjudication of Social Issues	
EC 2301	Introductory Macroeconomic Theory	
EC 2303	Introductory Microeconomic Theory	
MN 3330	Organizational Behavior	
PO 1311	American National Government	
PO 1312	Texas State & Local Government	
PO 1314	Introduction to Global Affairs	
PS 1301	General Psychology	
PS 3386	Human Factors	
SC 1311	Introductory Sociology	
SC 3321	Social Issues	
HU 3300	Perspectives and Themes in History, Philosophy and/or Theology	
HU 3303	Perspectives and Themes in Social Science	
Theology		3
Select one of the following:		
Advanced Theology TH 33XX/43XX		
HU 3300	Perspectives and Themes in History, Philosophy and/or Theology	
Fine Arts/Literature		3

Select one AR, DM, MU or any EN 23XX literature course		
<b>BA Biology Major Courses</b>		
BL 1401	General Biology for Majors I	4
BL 1402	General Biology for Majors II	4
BL 2233	Cell & Molecular Methods	2
BL 2330	Genetic Principles	3
BL 2332	Cell Biology	3
BL 4451	Biochemistry I	4
BL 4452	Biochemistry II	4
CH 1401	General Chemistry I	4
CH 1402	General Chemistry II	4
CH 3411	Organic Chemistry I	4
CH 3412	Organic Chemistry II	4
MT 1411	Precalculus	4
MT 2303	Introduction to Probability and Statistics	3
PY 1401	General Physics I	4
Organismal Biology		4
Select one of the following:		
BL 3420	Anatomy	
BL 3424	Comparative Anatomy	
BL 3430	General Physiology	
BL 3434	Comparative Physiology	
BL 3436	Neurophysiology	
BL 3442		
BL 3464	Evolutionary Biology	
Cellular and Molecular Biology		4
Select one of the following:		
BL 3444	Histology	
BL 3481	Microbiology	
BL 3490	Developmental Biology	
BL 4440	Mechanisms of Disease	
BL 4497	Genes, Genomes and Genomics	
Advanced Biology BL 34XX/44XX		8
Science Elective		4
Select one of the following:		
BL 34XX/44XX		
CH 3423	Analytical Chemistry	
CH 3424	Instrumental Analysis	
PY 1402	General Physics II	
<b>Electives</b>		
An elective can be any course taken from any discipline.		6
<b>Proficiency in Information Technology and Information Literacy</b>		
For this major, this requirement will be fulfilled by successfully completing BL 2233.		

Total Semester Hours 128

<sup>1</sup> All St. Mary's Core SMC 13XX "Reflection" courses must be completed before registering for SMC 23XX "Practice" courses.

<sup>2</sup> Grade of "C" or better is required. International students may be required to take EN 1313 to fulfill this requirement.

*This is a recommended degree plan subject to changes. Please meet with your advisor on a regular basis.*

**First Year**

<b>Fall</b>	<b>Semester Spring Hours</b>	<b>Semester Hours</b>
SMC 13XX	3 Speech/Communication	3
BL 1401	4 EN 1311	3
CH 1401	4 BL 1402	4
MT 1411	4 CH 1402	4
ND 0101	0 MT 2303	3
	15	17

**Second Year**

<b>Fall</b>	<b>Semester Spring Hours</b>	<b>Semester Hours</b>
SMC 13XX	3 SMC 13XX	3
SMC 13XX	3 SMC 13XX	3
BL 2332 or 2330	3 Fine Arts/Literature	3
CH 3411	4 BL 2330 or 2332	3
BL 2233	2 CH 3412	4
	15	16

**Third Year**

<b>Fall</b>	<b>Semester Spring Hours</b>	<b>Semester Hours</b>
SMC 23XX	3 SMC 23XX	3
Social Science	3 SMC 23XX	3
Foreign Language	3 Foreign Language	3
PY 1401	4 Advanced Biology (Cellular and Molecular Biology)	4
Advanced Biology (Organismal Biology)	4 Elective	3
	17	16

**Fourth Year**

<b>Fall</b>	<b>Semester Spring Hours</b>	<b>Semester Hours</b>
SMC 23XX	3 SMC 4301	3
BL 4451	4 Advanced Theology	3
Advanced Biology	4 BL 4452	4
Science Elective	4 Advanced Biology	4
	Elective	3
	15	17

Total Semester Hours 128