

GEORGE MASON UNIVERSITY
COLLEGE OF SCIENCE
B.S. DEGREE IN BIOLOGY (1200 Exploratory Hall, 703-993-1050)
<http://biology.gmu.edu/>
2018 - 2019 CATALOG

	<u>Department(s) & Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<u>MASON CORE REQUIREMENTS (27)</u>			
a. Written Communication: ENGH 101 (100), ENGH 302 (C or better) (3,3)		___ ___	___ ___
b. Oral Communication: COMM 100 or 101 (circle choice) (3)		___	___
c. Quantitative Reasoning (satisfied by completion of major requirements)			
d. Literature (3)	_____	___	___
e. Arts (3)	_____	___	___
f. Western Civilization (3)	_____	___	___
g. Social & Behavioral Science (3)	_____	___	___
h. Natural Science (satisfied by completion of major requirements)			
i. Global Understanding (3)	_____	___	___
j. Information Technology (satisfied by CDS 130)			
k. Synthesis (3)	_____	___	___

Go to: <http://catalog.gmu.edu/mason-core/> to link to information on Mason Core requirements.

MAJOR REQUIREMENTS (74 – 82 credit hours required total)

Students must earn a minimum GPA of 2.0 in their Biology course work and a minimum GPA of 2.0 in supporting course work.

Biology Core Courses (22 credit hours)

a. BIOL 213 (4) (grade of C or better required to advance to other core requirements)	a. _____	_____
b. BIOL 214 (4) (grade of C or better required)	b. _____	_____
c. BIOL 311 (4) (grade of C or better required)	c. _____	_____
d. BIOL 308 (writing intensive course) (5)	d. _____	_____
e. BIOL 310 (3) and BIOL 330 (2)	e. _____	_____

Twenty-two credits of biology electives (list course #) (at least 14 credits must be upper division; two upper division courses must include a lab) (22)

1. BIOL _____	1. _____	_____
2. BIOL _____	2. _____	_____
3. BIOL _____	3. _____	_____
4. BIOL _____	4. _____	_____
5. BIOL _____	5. _____	_____
6. BIOL _____	6. _____	_____

OTHER SCIENCE AND TECHNOLOGY (30-38 credit hours)

a. CHEM 211/213, CHEM 212/214 (3,1/3,1)	a. _____	_____
b. CHEM 313, CHEM 315 (3,2)	b. _____	_____
c. PHYS 243/244 and PHYS 245/246 or PHYS 160/161 and PHYS 260/261 (3/1, 3/1)	c. _____	_____
d. One of the following options: A: CHEM 314 & CHEM 318 (please circle choice) (3,2) OR B: GEOL 101 and GEOL 102 (4,4) OR C: One additional three-credit chemistry course at the 300- or 400-level (not CHEM 314)		
e. One course from (circle choice): MATH 111(3) or MATH 113 (4) or MATH 123 & 124 (3,3)	e. _____	_____
f. CDS 130 (recommended) or any course(s) that fulfills the IT Mason Core requirement (3)	f. _____	_____

NOTES: No more than eight credits of BIOL 103 or 106/107 may be applied toward elective credit (or equivalent transfer credit at the 100-200 level) if taken before successful completion of BIOL 213. Students may not count BIOL 124 and/or 125 toward any Biology major requirement, Students who take BIOL 310 may not count BIOL 303 and/or 304 toward any Biology major requirement.

GENERAL ELECTIVES: Maximum 2 credits of PHED, PRLS, and RECR coursework toward a COS degree. Only MLSC 400 and MLSC 402 may be used for credit towards a COS degree. (List courses) **(11-19 credits)**

_____	_____	_____
_____	_____	_____
_____	_____	_____

MINIMUM 120 HOURS (including Minimum 45 UPPER DIVISION HOURS) to GRADUATE

This planning form is intended to be used in consultation with your academic advisor and reflects the requirements for the 2018-2019 Catalog; the University Catalog is the official reference for program requirements.

*THIS PLAN BEGINS DEGREE COURSEWORK WITH BIOL 103

B.S. Biology

2018 - 2019

FALL YEAR 1	CREDITS	SPRING YEAR 1	CREDITS	NOTES
BIOL 103	4	BIOL 213	4	*Math Req =
CHEM 211	3	MATH Req*	3 or 4	MATH 111, 113 or
CHEM 213	1	CHEM 212	3	123/124 (two
Mason Core	3	CHEM 214	1	semesters).
Mason Core	3	Mason Core	3	
UNIV 100	1			
Total:	15 credits	Total:	14 or 15 credits	

FALL YEAR 2	CREDITS	SPRING YEAR 2	CREDITS	NOTES
BIOL 214	4	BIOL 310	3	*2 nd math is not
Mason Core or MATH*	3 or 4	BIOL 330	2	required, but many professional schools
CHEM 313	3	CHEM 314**	3	require 2 semesters of
CHEM 315	2	CHEM 318**	2	calculus.
Mason Core	3	S.B.S. or other Mason Core	3	**Alternative is GEOL or >300 CHEM course.
		Mason Core (G.U.)	3	*S.B.S. = Social and Behavioral Science
Total:	15 or 16 credits	Total:	16 credits	*G.U.=Global Und.

FALL YEAR 3	CREDITS	SPRING YEAR 3	CREDITS	NOTES
BIOL Elective with lab	4	BIOL Elective with lab	4	*PHYS requirement can be fulfilled by the
Mason Core	3-4	BIOL 311	4	following sequences:
PHYS Lecture*	3	PHYS Lecture*	3	PHYS 160/161 and 260/
PHYS Lab	1	PHYS Lab	1	261 OR PHYS 243/244
General Elective	3	Mason Core	3	and 245/246.
Total:	14 or 15 credits	Total:	15 credits	

FALL YEAR 4	CREDITS	SPRING YEAR 4	CREDITS	NOTES
BIOL 308	5	BIOL Elective	3	
BIOL Elective	3	BIOL Elective	3 or 4	
BIOL Elective	3	Synthesis	3	
ENGH 302	3	General Elective	3	
		General Elective	3	
Total:	14 credits	Total:	15 or 16 credits	

*Students must earn 120 credits for graduation; 45 credits must be upper-level (courses 300+).

*This plan is suggested for students who have completed AP/IB biology in high school, regardless of their AP/IB score.

*This degree requires 22 credits of biology elective.

*This degree requires two courses with labs at the 300-level or higher.

*The Senior seminar can be used as a biology elective.

*THIS PLAN BEGINS DEGREE COURSEWORK WITH BIOL 213

B.S. Biology

2018 - 2019

FALL YEAR 1	CREDITS	SPRING YEAR 1	CREDITS	NOTES
BIOL 213	4	BIOL 310	3	*Math Req =
CHEM 211	3	BIOL 330	2	MATH 111, 113 or
CHEM 213	1	MATH Req*	3 or 4	123/124 (two
Mason Core	3	CHEM 212	3	semesters).
Mason Core	3	CHEM 214	1	*BIOL 214 can be
UNIV 100	1	Mason Core	3	taken with 213 in
Total:	15 credits	Total:	15 or 16 credits	first semester.

FALL YEAR 2	CREDITS	SPRING YEAR 2	CREDITS	NOTES
BIOL 214	4	BIOL 311	4	*2 nd math is not
Mason Core or MATH*	3 or 4	Mason Core	3	required, but many professional schools
CHEM 313	3	CHEM 314**	3	require 2 semesters of
CHEM 315	2	CHEM 318**	2	calculus.
Mason Core	3	Mason Core	3 or 4	**Alternative is GEOL
Total:	15 or 16 credits	Total:	16 credits	or >300 CHEM course.

FALL YEAR 3	CREDITS	SPRING YEAR 3	CREDITS	NOTES
BIOL Elective with lab	4	BIOL Elective with lab	4	*PHYS requirement can be fulfilled by the
Mason Core	3-4	BIOL Elective	3	following sequences:
PHYS Lecture*	3	PHYS Lecture*	3	PHYS 160/161 and 260/
PHYS Lab	1	PHYS Lab	1	261 OR PHYS 243/244
General Elective	3	Mason Core	3	and 245/246.
Total:	14 or 15 credits	Total:	14 credits	

FALL YEAR 4	CREDITS	SPRING YEAR 4	CREDITS	NOTES
BIOL 308	5	BIOL Elective	3	
BIOL Elective	3	BIOL Elective	3	
ENGH 302	3	BIOL Elective	3	
General Elective	3 or 4	Synthesis	3	
		General Elective	3	
Total:	14 or 15 credits	Total:	15 credits	

*Students must earn 120 credits for graduation; 45 credits must be upper-level (courses 300+).

*This plan is suggested for students who have completed AP/IB biology in high school, regardless of their AP/IB score.

*This degree requires 22 credits of biology elective.

*This degree requires two courses with labs at the 300-level or higher.

*The Senior seminar can be used as a biology elective.