

**GEORGE MASON UNIVERSITY  
COLLEGE OF SCIENCE  
B.S. DEGREE IN CHEMISTRY WITH CONCENTRATION IN BIOCHEMISTRY  
(303 Planetary Hall, 993-1071)**

<https://cos.gmu.edu/chemistry/undergraduate-programs/>  
**2018 - 2019 CATALOG**

	<u>Department(s) &amp; Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<b><u>MASON CORE REQUIREMENTS (*30)</u></b>			
a.	Written Communication: ENGH 101 (100), ENGH 302 (C or better) (3,3)	___ ___	___ ___
b.	Oral Communication: COMM 100 or 101 (please circle choice) (3)	___	___
c.	Quantitative Reasoning (satisfied by <b>MATH 113</b> )		
d.	Literature (3)	___	___
e.	Arts (3)	___	___
f.	Western Civilization (3)	___	___
g.	Social & Behavioral Science (3)	___	___
h.	Natural Science (satisfied by <b>CHEM 211/213 and 2121/214</b> )		
i.	Global Understanding (3)	___	___
j.	Information Technology (3)	___	___
k.	Synthesis (3)	___	___

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

**MAJOR REQUIREMENTS (75 hours required)**

**Chemistry Courses (39 credits)**

a.	CHEM 211/213, CHEM 212/214 (3/1,3/1)	a. ___ ___	___ ___
b.	CHEM 313, CHEM 314 (3,3)	b. ___ ___	___ ___
c.	CHEM 315, CHEM 318 (2,2)	c. ___ ___	___ ___
d.	CHEM 321 (4)	d. ___	___
e.	CHEM 331, CHEM 336 (3,2)	e. ___ ___	___ ___
f.	CHEM 446, CHEM 463 (3,4)	f. ___ ___	___ ___
g.	CHEM 464, CHEM 465 (writing intensive course) (3,2)	g. ___ ___	___ ___

**Math Courses (8)**

h.	MATH 113, MATH 114 (4,4)	h. ___ ___	___ ___
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**Additional Sciences (25)**

i.	PHYS 243, 244; PHYS 245, 246 (3,1,3,1) OR PHYS 160/161; PHYS 260/261 (4, 4)	i. ___ ___	___ ___
j.	BIOL 213, 305, 306 (4, 3, 1)	j. ___	___
k.	Nine Credits of approved science electives chose from CHEM or BIOL courses 302-499	k. ___	___

**Students majoring in chemistry must complete the chemistry program requirements with a minimum GPA of 2.30 and present no more than two courses with a grade of D (1.00) in CHEM coursework at graduation.**

**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)

_____	___ ___	___ ___	___ ___
_____	___ ___	___ ___	___ ___
_____	___ ___	___ ___	___ ___
_____	___ ___	___ ___	___ ___

**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.

## B.S. Chemistry

2018 - 2019

FALL YEAR 1		CREDITS	SPRING YEAR 1		CREDITS	NOTES
CHEM 211	3		CHEM 212	3		
CHEM 213	1		CHEM 214	1		
MATH 113	4		MATH 114	4		
BIOL 213	4		HIST Req.	3		
ENGH 101	3		COMM Req.	3		
UNIV 100	1					
Total:	16 credits		Total:	16 credits		
FALL YEAR 2		CREDITS	SPRING YEAR 2		CREDITS	NOTES
CHEM 313	3		CHEM 314	3		*SBS = Social
CHEM 315	2		CHEM 318	2		and Behavioral
PHYS 160 OR 243	3		CHEM 321	4		Science
PHYS 161 OR 244	1		PHYS 260 or 245	3		
SBS Req.	3		PHYS 261 or 246	1		
IT Req.	3		LIT Req.	3		
Total:	15		Total:	16 credits		
FALL YEAR 3		CREDITS	SPRING YEAR 3		CREDITS	NOTES
CHEM 331	3		CHEM 464	3		*GU = Global
CHEM 336	2		CHEM 465	2		Understanding
CHEM 463	4		BIOL 305	3		
ENGH 302	3		BIOL 306	1		
Elective	3		GU Req.	3		
			Elective	3		
Total:	15 credits		Total:	15		
FALL YEAR 4		CREDITS	SPRING YEAR 4		CREDITS	NOTES
CHEM/BIOL Elect.	3		CHEM/BIOL Elect.	3		
CHEM 446	3		CHEM/BIOL Elect.	3		
ART Req.	3		Synthesis Req.	3		
Electives	6		Electives	6		
Total:	15 credits		Total:	15 credits		

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