

GEORGE MASON UNIVERSITY
COLLEGE OF SCIENCE
B.A. 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) & Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<u>MASON CORE REQUIREMENTS (*30)</u>			
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 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 (3)		___	___
k. Synthesis (3)		___	___

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

COLLEGE REQUIREMENTS (*18)

a. Foreign Language: Intermediate level in a single foreign language.			
b. Philosophy or Religious Studies (3) (not PHIL 323 or 324)		___	___
c. Three credits in social & behavioral sciences in addition to the university-wide requirement in social & behavioral science for a total of 6 credits. The two courses used to fulfill the combined college and university requirements must be from different disciplines. This requirement may be fulfilled by completing any course in ANTH, CRIM, ECON, GOVT, HIST (except 100 or 125), LING, PSYC, or SOCI & these courses in GGS: 101, 103, 110, 301, 303, 304, 305, 306, 315, 316, 320, 325, 330, 357, 380		___	___
d. Non-Western Culture (3)		___	___

*The number of hours needed to fulfill Mason Core requirements may vary; see the University Catalog for information. The two courses used to fulfill the college and university requirements for social & behavioral sciences must be from different disciplines.

MAJOR REQUIREMENTS (62 hours required)

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.

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. ___	___	___

Mathematics and Statistics Courses (11 credits)

h. MATH 113, MATH 114 (4,4)	h. ___	___	___
i. STAT 250 (3)	i. ___	___	___

Physics and Biology Courses (12 credits)

j. PHYS 243, 244; PHYS 245, 246 (3,1,3,1)	j. ___	___	___
k. BIOL 213 (4)	k. ___	___	___

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.A. 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	IT Req.	3	
UNIV 100	1			
Total:	16 credits	Total:	14 credits	

FALL YEAR 2	CREDITS	SPRING YEAR 2	CREDITS	NOTES
CHEM 313	3	CHEM 314	3	
CHEM 315	2	CHEM 318	2	
PHYS 243	3	CHEM 321	4	
PHYS 244	1	PHYS 245	3	
STAT 250	3	PHYS 246	1	
COMM Req.	3			
Total:	15 credits	Total:	13 credits	

FALL YEAR 3	CREDITS	SPRING YEAR 3	CREDITS	NOTES
CHEM 463	4	CHEM 364	3	*G.U. = Global
CHEM 331	3	CHEM 465	2	Understanding
Lit. Req.	3	CHEM 336	2	*N.W.C. = Non-
G.U. Req.	3	N.W.C. Req.	3	Western Culture
Foreign Language	3	ENGH 302	3	
		Foreign Language	3	
Total:	16 credits	Total:	16 credits	

FALL YEAR 4	CREDITS	SPRING YEAR 4	CREDITS	NOTES
CHEM 446	3	Synthesis Req.	3	*S.B.S.II = Second
S.B.S. Req.	3	PHIL/REL Req.	3	Social and
Foreign Language	3	Foreign Language	3	Behavioral
Fine Art Req.	3	S.B.S. II Req.	3	Science
Elective	3	Elective	4	*PHIL/REL =
				Philosophy and
Total:	15 credits	Total:	16 credits	Religious Studies

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