

GEORGE MASON UNIVERSITY
COLLEGE OF SCIENCE
B.S. DEGREE IN CHEMISTRY - Concentration in Analytical Chemistry
(303 Planetary Hall, 703-993-1071)

<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.

MAJOR REQUIREMENTS (78-79 credit hours required)

Chemistry Courses (52 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 (3)		e. ___ ___	___ ___
f. CHEM 332 (3)		f. ___ ___	___ ___
g. CHEM 336 (writing intensive course) (2)		g. ___ ___	___ ___
e. CHEM 337 (2)		h. ___ ___	___ ___
f. CHEM 422 (3)		i. ___ ___	___ ___
j. CHEM 423 (2)		j. ___ ___	___ ___
k. CHEM 427 or CHEM 355 or CHEM 451 or CHEM 452 (circle choice) (3)		k. ___ ___	___ ___
l. CHEM 441 (3)		l. ___ ___	___ ___
m. CHEM 463 (4)		m. ___ ___	___ ___
n. CHEM 424 or 425 (3)		n. ___ ___	___ ___
o. CHEM 445 or CHEM 465 (writing intensive course) (circle choice) (2)		o. ___ ___	___ ___

Additional Math and Science Courses (26-27 credits)

p. MATH 113 (4)		p. ___ ___	___ ___
q. MATH 114 (4)		q. ___ ___	___ ___
r. MATH 213 (3)		r. ___ ___	___ ___
s. PHYS 160/161; PHYS 260/261 (3,1; 3,1)		s. ___ ___	___ ___
<u>t. Science Core Courses and Supporting Science Electives (17 credits)</u>			
1. GEOL 101 (4)		1. ___ ___	___ ___
2. GEOL 306 (3)		2. ___ ___	___ ___
3. EVPP 210 or BIOL 213 (4)		3. ___ ___	___ ___
4. Select two from the following: BENG 101, STAT 250, ECE 101, CHEM 620			

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		
HIST Req.	3		BIOL 213	4		
ENGH 101	3		COMM Req.	3		
UNIV 100	1					
Total:	15 credits		Total:	15 credits		
FALL YEAR 2		CREDITS	SPRING YEAR 2		CREDITS	NOTES
CHEM 313	3		CHEM 314	3		
CHEM 315	2		CHEM 318	2		
PHYS 160	3		CHEM 321	4		
PHYS 161	1		PHYS 260	3		
MATH 213	3		PHYS 261	1		
IT Req. – CDS 130	3		LIT Req.	3		
Total:	15 credits		Total:	16 credits		
FALL YEAR 3		CREDITS	SPRING YEAR 3		CREDITS	NOTES
CHEM 331	3		CHEM 332	3		*SBS = Social
CHEM 336	2		CHEM 337	2		and Behavioral
CHEM 463	4		CHEM Elective	3		Science
ENGH 302	3		Analytical Req.	3		
SBS Req.	3		ART Req.	3		
Total:	15 credits		Total:	14 credits		
FALL YEAR 4		CREDITS	SPRING YEAR 4		CREDITS	NOTES
CHEM 441	3		CHEM 445 or 465	2		*GU = Global
CHEM 422	3		CHEM 423	2		Understanding
GU Req.	3		Synthesis Req.	3		
CHEM Elective	3		Electives	9		
Analytical Req.	3					
Total:	15 credits		Total:	16 credits		

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