

College of Science - Chemistry, BA without concentration				
Catalog Year: 2019 - 2020			Grades	
Mason Core Requirements: 30 credits	Course Information	Credits	Earned	Needed
Written Communication:	ENGH 101 (100)	3		
Oral Communication:		3		
*Quantitative Reasoning	*Satisfied by Major Requirements			
Information Technology		3		
Arts		3		
Global Understanding		3		
Literature		3		
*Natural Science	*Satisfied by Major Requirements			
Social & Behavioral Sciences		3		
Western Civilization/World History		3		
Written Communication:	ENGH 302	3		
Synthesis/Capstone		3		
College Level Requirements for the BA Degree				
Philosophy or Religious Studies		3		
(PHIL 323, 324 cannot be used to fulfill this requirement.)				
Additional Social & Behavioral Sciences		3		
(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)				
Foreign Language		0-12		
(Intermediate level in a single language by completing a course in a foreign language numbered 202 (or higher); or achieving a satisfactory score on an approved proficiency test; or by completing the following ASL three course sequence EDSE 115, 116, and EDSE 219; or students who are already proficient in a second language may be eligible for a waiver of this requirement)				
Non-Western Culture		3		
(Approved courses for this requirement may be found under Degree Requirements for the major listed within the University Catalog. The course used for this requirement may not simultaneously fulfill Mason Core Global Understanding)				
Major Requirements (56 credits) Students 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. Major termination policy: No chemistry, math, or science course that is required for the major may be attempted more than three times. Students who do not successfully complete such a course with a grade of C or better by the third attempt may be terminated from the major.				
CHEM 211	General Chemistry I (Mason Core)	3		
CHEM 213	General Chemistry Laboratory I	1		
CHEM 212	General Chemistry II	3		
CHEM 214	General Chemistry Laboratory II	1		
CHEM 313	Organic Chemistry I	3		
CHEM 314	Organic Chemistry II	3		
CHEM 315	Organic Chemistry Lab I	2		
CHEM 318	Organic Chemistry Lab II	2		
CHEM 321	Quantitative Chemical Analysis	4		
CHEM 331	Physical Chemistry I	3		
CHEM 332	Physical Chemistry II	3		
CHEM 336	Physical Chemistry Lab I 1	2		
CHEM 337	Physical Chemistry Lab II	2		
Select 5 credits of electives in chemistry		5		
MATH 113	Analytic Geometry and Calculus I	4		
MATH 114	Analytic Geometry and Calculus II	4		
MATH 213	Analytic Geometry and Calculus III	3		
Select one PHYS sequence below:				
PHYS 160/161 and 260/261	University Physics I & II with Labs or	8		
or PHYS 243/244 & PHYS 245/246	College Physics I & II with Labs			
Degree Notes				
Approx. 32 credits may be completed with elective courses to bring the degree total to 120 with 45 of these credits at the 300/400 level.				
Advisor Notes:				

Sample Schedule: BA

FRESHMAN YEAR (28 CR)

Semester 1

CHEM 211, 213 General Chemistry I	4
MATH 113 Anal. Geom. & Calc. I	4
HIST requirement	3
ENGH 101	3
	14

Semester 2

CHEM 212, 214 General Chemistry II	4
MATH 114 Anal. Geom. & Calc. II	4
COMM requirement	3
Elective	3
	14

SOPHOMORE YEAR (31 CR)

Semester 3

CHEM 313 Organic Chemistry I	3
CHEM 315 Organic Chemistry Lab I	2
PHYS 243 or 160 Physics I	3
PHYS 244 or 161 Physics Lab I	1
MATH 213 Anal. Geom. & Calc. III	3
Social and Behavioral Sciences I req.	3
	15

Semester 4

CHEM 314 Organic Chemistry II	3
CHEM 318 Organic Chemistry Lab II	2
CHEM 321 Elementary Quant. Anal.	4
PHYS 245 or 260 Physics II	3
PHYS 246 or 261 Physics Lab II	1
IT requirement	3
	16

JUNIOR YEAR (28 CR)

Semester 5

CHEM 331 Physical Chemistry I	3
CHEM 336 Physical Chemistry Lab I	2
Global Understanding requirement	3
Foreign Language	3
Non-Western Culture requirement	3
	14

Semester 6

CHEM 332 Physical Chemistry II	3
CHEM 337 Physical Chemistry Lab II	2
ENGH 302	3
Fine Arts requirement	3
Foreign Language	3
	14

SENIOR YEAR (33 CR)

Semester 7

CHEM elective	2
Social/Behavioral Sciences II req.	3
Foreign Language	3
Literature requirement	3
Philosophy/Religious Studies req.	3
Elective	3
	17

Semester 8

CHEM Elective	3
Synthesis requirement	3
Foreign Language	3
Elective	3
Elective	4
	16