

**GEORGE MASON UNIVERSITY**  
**COLLEGE OF SCIENCE**  
**B.A. DEGREE IN CHEMISTRY WITH CONCENTRATION IN BIOCHEMISTRY**  
**(343 Science and Tech I, 703-993-1070)**  
<http://cos.gmu.edu/academics/undergraduate/majors/chemistry>  
**2009-2010 CATALOG**

	<u>Department(s) &amp; Course #(s)</u>	<u>Completed/ Grade(s)</u>	<u>Needed</u>
<b><u>GENERAL EDUCATION REQUIREMENTS (*30)</u></b>			
a. Composition: ENGL 101 (100), 302 (C or better) (3,3)		___ ___	___ ___
b. Communication 100 or 101 (please circle choice) (3)		___	___
c. Quantitative Reasoning (satisfied by completion of major requirements)			
d. Literature (3)	_____	_____	_____
e. Fine Arts (3)	_____	_____	_____
f. Social Sciences:			
Western Civilization (3)	_____	_____	_____
Social & Behavioral Science (3)	_____	_____	_____
g. Natural Science (satisfied by completion of major requirements)			
h. Global Understanding (3)	_____	_____	_____
i. Information Technology (3)(Chem 350 is recommended)	_____	_____	_____
j. Synthesis (3)	_____	_____	_____

Go to: <http://chss.gmu.edu/gened> to link to information on general education requirements.

**COLLEGE REQUIREMENTS (\*18)**

a. Foreign Language: Intermediate level in a single foreign language.			
b. Philosophy or Religious Studies (3)	_____	_____	_____
c. *Three additional hours of social sciences chosen from: ADJ, ANTH, GEOG (not 102 or 309), GOVT, HIST (not 100 or 125), LING, PSYC, SOCI (3)	_____	_____	_____
d. Non-Western Culture (3)	_____	_____	_____

\*The number of hours needed to fulfill General Ed. 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 (60 hours required)**

a. CHEM 211, 212 (4,4)			
b. CHEM 313, 314 (3,3)		___ ___	___ ___
c. CHEM 315, 318 (2,2)		___ ___	___ ___
d. CHEM 321 (4)		___	___
e. CHEM 331 (3)		___	___
f. CHEM 446 (3)		___	___
g. CHEM 463 (4)		___	___
h. CHEM 465 (2)		___	___
i. BIOL 213 (4)		___	___
j. MATH 113 (4)		___	___
k. MATH 114 (4)		___	___
l. STAT 250 (3)		___	___
m. PHYS 243, 244; 245, 246 (3,1,3,1)		___	___

**GENERAL ELECTIVES** (List courses)

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

**MINIMUM HOURS TO GRADUATE: 120**

<b>UPPER DIVISION HOURS (minimum 45):</b>
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