GEOLOGY-CHEMISTRY-BS

THIS IS A GENERAL CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISOR.

	Year	One	
CHM 115 Principles of Chemistry I	5	CHM 116 Principles of Chemistry II	5
Prerequisites: High school chemistry, MTH 110 or MTH 122 or		Prerequisites: CHM 115 and MTH 122 or MTH 125 or MTH	
MTH 125 or MTH 201	4	201	4
GEO 111 Exploring the Earth Gen Ed	4	GEO 112 Earth History Prerequisite: A course in physical or general geology	4
MTH 122 College Algebra <i>Gen Ed</i> Prerequisite: MTH 110 or assignment through math	3	GEO 175 Research Tools for Geosciences	1
placement exam		Prerequisites: GEO 111 and GEO 112 (can be taken	1
Gen Ed	3	concurrently)	
Gen Eu	3	WRT 150 Strategies of Writing Gen Ed	4
		MTH 123 Trigonometry	3
		Prerequisite: MTH 122 (can be taken concurrently) or assignment through math placement exam	
Total	15	Total	15
	Year	Two	
GEO 211 Mineralogy	3	GEO 212 Petrology	4
Prerequisites: GEO 111 and CHM 115		Prerequisites: GEO 112, GEO 211, and CHM 115	
CHM 222 Quantitative Analysis		CHM 225 Instrumental Analysis I	3
Prerequisites: CHM 116; CHM 241 or CHM 245 can be taken	4	Prerequisite: CHM 222	
concurrently		MTH 201 Calculus I	4
CHM 241 Organic Chemistry for Life Science I	3	Prerequisites: (MTH 122 and MTH 123), or assignment	
OR CHM 245/246 Principles of Organic Chemistry w/ lab		through math placement exam	_
Prerequisites: CHM 116	_	Gen Ed	3
Gen Ed	3		
¹ Elective	3		
Total	16*	Total Three	14
GEO 311 Structural Geology	4	GEO 312 Sedimentation-Stratigraphy	4
Prerequisites: GEO 212 and MTH 123	4	Prerequisite: GEO 211	4
CHM 351 Introduction to Physical Chemistry	3	CHM 352 Applied Physical Chemistry	1
Prerequisites: CHM 116, MTH 201, and PHY 220 (may be		Prerequisites: CHM 116, MTH 201, CHM 351 (may be taken	-
taken concurrently)		concurrently), and PHY 220 (may be taken concurrently)	
GEO 445 Introduction to Geochemistry	4	Gen Ed	3
Prerequisites: GEO 112; MTH 122 and CHM 116 (may be taken		Gen Ed	3
concurrently); MTH 201 strongly recommended		Issue/Theme	3
PHY 230 Principles of Physics I	5		
Prerequisites: MTH 201, MTH 202 is strongly encouraged as a corequisite			
Total	16*	Total	14
	Year	Four	
CHM 491 Chemistry Seminar I	0	GEO 495: Global Tectonics (Capstone)	3
Prerequisites: Senior Standing and GeoChem major		Prerequisite: GEO 311	
² GEO 485 SWS Geology Seminar	1	CHM 491 Chemistry Seminar II	1
Prerequisite: Geology or Earth Science major or minor	_	Prerequisites: Senior Standing and GeoChem major	_
Gen Ed	3	Gen Ed	3
Issue/Theme	3	Gen Ed	3
¹ Elective	3	¹ Elective	3
¹ Elective	3	¹ Elective	3
¹ Elective	3		
Total	16*	Total	16*

^{*} The block tuition rate is 12-15 credits. You will pay additional tuition for any credits over 15.

Online at: http://www.gvsu.edu/clasadvising

Elective refers to any course to help you earn the required 120 credits to graduate.

²Students must complete a total of two courses with an SWS attribute

Declaring the Geology-Chemistry Major:

- 1. Log into myBanner from the GVSU homepage
- 2. Once logged in, select "Student," "Student Records," and then "Change Major"
- 3. Click on the "Change Major 1/Program" box
- 4. Click on the down arrow in the box next to "New Major 1/Program"
- 5. From here scroll down and find "Geology-Chemistry"
- 6. Click "Submit" and then click "Change to New Program"

General Education Overlap

General Education Categories fulfilled by the Geology Chemistry Major:			
Mathematical Sciences: MTH 122	Physical Science with a Lab: GEO 111		