

Geneseo Curriculum Map for: B.A. in Geochemistry

Program Learning Outcomes (one per row):	These courses introduce material necessary for outcome achievement. (e.g., PSYC 100)	These courses reinforce material necessary for outcome achievement.	These courses provide coverage necessary for mastery of the outcome.	
1) Identify, describe, and interpret Earth materials, and evaluate the physical, geometric, and temporal relationships.	GSCI 160 GSCI 161 GSCI 170	GSCI 210 GSCI 220 GSCI 341	GSCI 331 GSCI 351 GSCI 370	GSCI 392 GSCI 393 GSCI 399
2) Students will demonstrate basic knowledge of fundamental concepts in Chemistry	CHEM 116/203 CHEM 118/204 CHEM 119	CHEM 211/223 CHEM 213/224 CHEM 216	GSCI 315 GSCI 320 CHEM 320/324 CHEM 340	
3) Students will demonstrate the ability to make quantitative measurements utilizing the appropriate instrument and report the result with appropriate uncertainty.	CHEM 118/204 CHEM 119	CHEM 213/224 CHEM 216		
4) Students will demonstrate the ability to design, carry out, and interpret the results of an experiment according to established principles of chemistry.	CHEM 118/204 CHEM 119	CHEM 211 or 223 CHEM 213 or	GSCI 393 GSCI 399	
5) Students will demonstrate that they understand the application of chemistry in geology, including the role it plays in rock-forming processes, by making geological interpretations of geochemical data sets.	GSCI 160 GSCI 170	GSCI 210 GSCI 220	GSCI 315/320 GSCI 334 GSCI 347	GSCI 370 GSCI 393 GSCI 399
6) Critically evaluate data and interpretations, and succinctly communicate data and observations using spreadsheets, graphical and/or spatial analysis tools.	GSCI 210	GSCI 220 GSCI 341 GSCI 391	GSCI 315/320 GSCI 331 GSCI 334 GSCI 347	GSCI 351 GSCI 370 GSCI 392 GSCI 393
7) Access and utilize the geologic literature.	GSCI 210 GSCI 220	GSCI 341 GSCI 391	GSCI 315/320 GSCI 331 GSCI 341 GSCI 351	GSCI 392 GSCI 393 GSCI 399
8) Communicate effectively in both oral and written formats as well as be comfortable with the language of geology.	GSCI 210 GSCI 220	GSCI 331 GSCI 341 GSCI 391	GSCI 315/320 GSCI 334 GSCI 347	GSCI 351 GSCI 392 GSCI 393