

Geneseo Curriculum Map for: B.A. in Geophysics

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 in a geophysical context.	GSCI 160 GSCI 161 GSCI 170	GSCI 210 GSCI 341	GSCI 343 GSCI 353 GSCI 351 GSCI 370 GSCI 361
2) Use advanced mathematics to solve physics problems of increasing complexity	PHYS 114 PHYS 125 PHYS 115 MATH 221 PHYS 123 MATH 222	PHYS 223 PHYS 228 PHYS 224 MATH 223 PHYS 226 MATH 324	GSCI 343 PHYS 362 PHYS 3XX
3) Use scientific instrumentation to make measurements	PHYS 114 PHYS 116	GSCI 341 PHYS 226	GSCI 343 PHYS 362 PHYS 399
4) Design experiments to solve scientific questions	PHYS 362	PHYS 362	GSCI 343 PHYS 399
5) Use appropriate field and analytical tools for the purpose of data collection and analysis.	GSCI 210 GSCI 341	GSCI 220	GSCI 343 GSCI 353 GSCI 351 GSCI 370
6) Critically evaluate data and interpretations, and succinctly communicate data and observations using spreadsheets, graphical and/or spatial analysis tools.	GSCI 220	GSCI 341	GSCI 315 GSCI 347 GSCI 320 GSCI 351 GSCI 331 GSCI 370 GSCI 343 PHYS 362
7) Access and utilize the geologic literature.	GSCI 220	GSCI 341 GSCI 391	GSCI 315 GSCI 351 GSCI 320 GSCI 353 GSCI 331 GSCI 392
8) Communicate effectively in both oral and written formats as well as be comfortable with the language of geology.	GSCI 220 GSCI 341	GSCI 331 GSCI 391	GSCI 315 GSCI 343 GSCI 320 GSCI 347 GSCI 333 GSCI 361 GSCI 334 PHYS 392
9) Create, read, and interpret topographic maps, geologic maps, and cross-sections.	GSCI 160 GSCI 161 GSCI 170	GSCI 341	GSCI 331 GSCI 333 GSCI 334