

Geneseo Curriculum Map for: B.S. in Biology

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) Students will have the knowledge base and intellectual (conceptual) framework to use reasoning and problem-solving skills to; (1) read critically, (2) evaluate support for competing hypotheses, and (3) critique experimental design.	BIOL 116 BIOL 117 BIOL 119	BIOL 203 BIOL 204 BIOL 216 BIOL 222 BIOL 223 BIOL 300	BIOL 250 BIOL 265 BIOL 266 BIOL 305 BIOL 312 BIOL 314 BIOL 316	BIOL 322 BIOL 230 BIOL 334 BIOL 338 BIOL 340 BIOL 342 BIOL 354	BIOL 361 BIOL 364 BIOL 375 BIOL 385 BIOL 392 BIOL 394 BIOL 397
2) Students will have the laboratory and inquiry skills and technical ability to formulate hypotheses, design and run experiments using instruments to test their hypotheses, and analyze and interpret the results. They will be able to build on earlier work to design further experiments.	BIOL 116 BIOL 216 BIOL 222 BIOL 300	BIOL 203 BIOL 204	BIOL 230 BIOL 250 BIOL 265 BIOL 266 BIOL 301 BIOL 306	BIOL 312 BIOL 314 BIOL 330 BIOL 339 BIOL 340 BIOL 354	BIOL 364 BIOL 378 BIOL 390 BIOL 391 BIOL 392 BIOL 394
3) Students will be able to communicate biological ideas from literature or their own laboratory investigations to audiences of biologists and non-biologists in a variety of formats including written reports, poster and oral presentations.	BIOL 116 BIOL 128 BIOL 222	BIOL 203 BIOL 204 BIOL 216 BIOL 223 BIOL 300	BIOL 250 BIOL 265 BIOL 266 BIOL 301 BIOL 305 BIOL 312	BIOL 314 BIOL 315 BIOL 330 BIOL 334 BIOL 338 BIOL 339	BIOL 340 BIOL 354 BIOL 364 BIOL 375 BIOL 385 BIOL 392
4) Students will recognize the importance of scientific integrity and ethical research and applications of biology to science policy. They will be able to work independently and in teams for life-long learning.	BIOL 116 BIOL 117 BIOL 119 BIOL 222 BIOL 300	BIOL 203 BIOL 204 BIOL 216 BIOL 223	BIOL 250 BIOL 265 BIOL 266 BIOL 301 BIOL 305	BIOL 306 BIOL 314 BIOL 315 BIOL 316 BIOL 330	BIOL 334 BIOL 342 BIOL 354 BIOL 385
5) Students will be able to demonstrate a broad and diverse background in biology and related sciences and a strong foundation for graduate and professional programs of study or employment.	BIOL 116 BIOL 216	BIOL 117 BIOL 119 BIOL 203 BIOL 204 BIOL 222 BIOL 223	BIOL 230 BIOL 241 BIOL 250 BIOL 265 BIOL 266 BIOL 300 BIOL 301 BIOL 306	BIOL 312 BIOL 314 BIOL 315 BIOL 316 BIOL 322 BIOL 330 BIOL 334 BIOL 335	BIOL 340 BIOL 342 BIOL 345 BIOL 361 BIOL 364 BIOL 375 BIOL 385 BIOL 392
6) Students will recognize evolution as the central tenet of biology, which explains the unity and diversity of life and interrelatedness of levels of biological organization.	BIOL 116 BIOL 117 BIOL 119	BIOL 203 BIOL 204 BIOL 222 BIOL 223 BIOL 300	BIOL 203 BIOL 241 BIOL 306 BIOL 327	BIOL 335 BIOL 338 BIOL 342 BIOL 345	BIOL 354 BIOL 364 BIOL 375