Geneseo Curriculum Map for: B.S. in Applied Physics

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 be able to use advanced mathematics to solve physics problems of increasing complexity	PHYS 123 PHYS 125 MATH 221 MATH 222 MATH 223 MATH 326	PHYS 223 PHYS 224 PHYS 228	PHYS 311 PHYS 3XX
2) Students will be able to use scientific instrumentation to make measurements	PHYS 124 PHYS 126 2-sem lecture/lab sequence in Chemistry, Biology, or Geology	PHYS 226	PHYS 362 PHYS 363 PHYS 372
3) Students will be able to analyze and make conclusions based on scientific data	PHYS 124 PHYS 126	PHYS 226	PHYS 362 PHYS 363 PHYS 372
4) Students will be able to design experiments to solve scientific questions	PHYS 124		PHYS 362 PHYS 363 PHYS 372
5) Students will be able to communicate scientific results in writing and orally	PHYS 124 PHYS 126	PHYS 226	PHYS 362 PHYS 341 PHYS 3XX
6) Students will be able to use computers to solve scientific problems	PHYS 124 PHYS 126 INTD 121 PHYS 228	PHYS 230	PHYS 363
7) Students will demonstrate understanding of concepts of increasing complexity in physics.	PHYS 123 PHYS 125 PHYS 223	PHYS 223 PHYS 224	PHYS 311 PHYS 3XX
8) Students will demonstrate be able to solve "open-ended" design problems in applied physics.	PHYS 124	PHYS 230	PHYS 313 PHYS 332 PHYS 363 PHYS 372