

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

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 analyze problems and formulate appropriate mathematical models in a variety of areas of Mathematics.	MATH 221 MATH 222 MATH 223	MATH 230 MATH 233	MATH 326 MATH 328 MATH 332 MATH 338 MATH 340	MATH 341 MATH 345 MATH 346 MATH 350 MATH 360	MATH 361 MATH 371 MATH 372 MATH 382
2) Students will be able to select and utilize appropriate mathematical technology with which to analyze mathematical problems in a wide variety of areas.	MATH 221 MATH 222 MATH 223	MATH 230 MATH 233	MATH 326 MATH 328 MATH 332 MATH 340	MATH 341 MATH 345 MATH 346 MATH 360	MATH 361 MATH 372 MATH 382
3) Students will be able to make rigorous mathematical arguments including how to both prove and disprove conjectures.	MATH 221 MATH 222	MATH 233 MATH 239	MATH 301 MATH 302 MATH 319 MATH 324	MATH 325 MATH 330 MATH 333 MATH 338	MATH 350 MATH 360 MATH 371
4) Students will critically read mathematics.	MATH 221 MATH 222	MATH 239	MATH 301 MATH 302	MATH 319 MATH 324	MATH 325 MATH 350
5) Students will be able to use the concepts of Analysis in solving problems. The fundamental concepts include sets, numbers, functions, and convergence.	MATH 221 MATH 222	MATH 223 MATH 239	MATH 324 MATH 325 MATH 330	MATH 345 MATH 346 MATH 350	MATH 360 MATH 371
6) Students will be able to use the concepts of Algebra in solving problems. The fundamental concepts include equations, numbers, and algebraic structures.	MATH 233	MATH 239	MATH 319 MATH 330	MATH 333 MATH 371	
7) Students will be able to express themselves in writing in an articulate, sound and well-organized fashion.	MATH 221 MATH 222 MATH 223	MATH 233 MATH 239	MATH 301 MATH 302 MATH 319 MATH 324	MATH 325 MATH 330 MATH 333 MATH 345	MATH 346 MATH 350 MATH 371
8) Students will be able to express themselves orally in an articulate, sound and well-organized fashion.	MATH 221 MATH 222 MATH 223	MATH 233 MATH 239	MATH 301 MATH 302 MATH 319 MATH 324 MATH 325 MATH 330 MATH 332	MATH 333 MATH 340 MATH 341 MATH 345 MATH 346 MATH 348 MATH 350	MATH 350 MATH 360 MATH 361 MATH 371 MATH 372 MATH 382