

## Geneseo Curriculum Map for: B.S. in 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 345 MATH 338 MATH 350 MATH 341 MATH 371
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 345 MATH 360
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 330 MATH 302 MATH 333 MATH 319 MATH 338 MATH 324 MATH 350 MATH 325 MATH 371
4) Students will critically read mathematics.	MATH 221 MATH 222	MATH 239	MATH 301 MATH 324 MATH 302 MATH 302 MATH 319 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 345 MATH 325 MATH 350 MATH 330 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 333 MATH 330 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 330 MATH 302 MATH 333 MATH 319 MATH 345 MATH 324 MATH 350 MATH 325 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 341 MATH 302 MATH 345 MATH 319 MATH 348 MATH 324 MATH 350 MATH 325 MATH 360 MATH 330 MATH 371 MATH 333