Bachelor of Science in Mathematics

Learning Outcomes Crosswalk

The overall mission of the mathematics majors is to prepare students for the lifelong study and use of mathematics. As for the specific educational goals of the program, we expect our graduates to be able to:

A. Organize and analyze data and information and synthesize problem solutions using appropriate mathematical tools;

B. Formulate conjectures, find counterexamples and state and prove theorems carefully;

C. Learn mathematics outside of the classroom through self-study or group-study, including the ability to refresh knowledge;

D. Communicate mathematics effectively both orally and in writing;

E. Use technology to aid in the above.

Course Prefix/Number	Course Title	Learning Outcomes	Credit Hours
MATH 125 or CSIT 121	Software for Mathematics Computer Science I	A, E	3
MATH 122	University Calculus 1	A, E	4
MATH 123	University Calculus II	A	4
MATH 210	Mathematical Structures and Proof	B, D (writing)	4
MATH 223	University Calculus III	A	4
MATH 224	Differential Equations	A, E	3
MATH 231	Linear Algebra	A, B, E	4
MATH 323	Intermediate Real Analysis	B, C, D (writing)	3
MATH 331	Abstract Algebra I	B, C, D (writing)	3
MATH 405	Senior Seminar	A, B, C, D, E	1
MATH 332 or MATH 420	Abstract Algebra II Advanced Calculus	A, C, D (writing), E	3
STAT 350	Probability and Statistics	A, C, D (writing), E	3
MATH/STAT Elective[1]		A, B, C, D	3
MATH/STAT Elective[1]		A, B, C, D	3

[1] Two additional MATH or STAT courses numbered 311 or higher, as advised.