MATHEMATICS TEACHER CONCENTRATION, BACHELOR OF ARTS - MATC

Major Requirements (38–42 Hours)

Code	Title	Credits
Required		
MATH 131 & MATH 132 or MATH 133	Calculus I and Calculus II for STEM majors Theory and Application of Calculus	4-8
MATH 225	Foundations of Higher Mathematics	3
MATH 231	Calculus III	4
MATH 326	Linear Algebra and Differential Equations	4
MATH 496	Pro-Seminar	2
CPSC 207 & 207L	Computer Programming and Computer Programming Laboratory	3
MATH 339	Discrete Mathematics	3
MATH 345	Probability	3
MATH 346	Statistics	3
MATH 353	Abstract Algebra I	3
MATH 361	Geometry	3
MATH 341 or MATH 354	Analysis I Abstract Algebra II	3
Total Credits		**38-42**

Advanced Writing Proficiency

The purpose of this requirement is to nurture the development of mathematical writing in order to deepen the student's understanding of mathematics and to enable the student to communicate technical ideas to a range of audiences. Sophomores are expected to demonstrate proficiency in expository mathematics by the submission of an acceptable portfolio. Juniors are expected to demonstrate proficiency in technical or analytical mathematical writing by the submission of an acceptable portfolio. Seniors demonstrate their ability by completing a senior comprehensive paper, which is evaluated by a committee of three faculty.

Senior Comprehensive

All mathematics majors, in Pro-Seminar (MATH 496 Pro-Seminar), independently study a mathematical topic of their choice and work with a faculty advisor. They present their work in a series of talks in the seminar. The project culminates in a paper and a formal presentation. This final presentation, followed by questioning by a faculty committee, constitutes the Senior Comprehensive in mathematics.

Faculty

S. Cox, C. Dwyer, C. Hoover, K. Kuter, E. Misiolek, P. Paranamana, C. Periton, M. Porter, R. Rohatgi, B. Vajiac, C. Wedrychowicz