

# MATHEMATICS MAJOR

## Requirements for a Major in Mathematics

### Bachelor of Science

Code	Title	Hours
MATH 132	Calculus II	4
MATH 203	Multivariable Calculus	4
MATH 213	Elementary Linear Algebra	3
MATH 215	Mathematics Resources, Opportunities, and Career Seminar	1
MATH 220	Discrete Mathematics	3
MATH 321	Modern Algebra I	3
MATH 415	Mathematics Seminar	1
MATH 421	Real Analysis I	3
CSCI 111	Introduction to Computer Science	4
Select five approved MATH or APMA electives above 200-level not already taken <sup>1</sup>		15
<b>Total Hours</b>		<b>41</b>

<sup>1</sup> PHYS 250 Mathematical Physics or CSCI 363 Theory of Computation may also be counted as an elective.

### The Requirements for Teacher Certification

The program requirements of a student planning to minor in education for the purpose of certification in Mathematics vary slightly from those of other Mathematics majors. In completing the major, education students must include the following courses, as well as ENGL 185 Critical Reading and Writing and the Education minor (<https://catalog.rmc.edu/programs/education/education-minor-secondary/>).

Code	Title	Hours
MATH 131	Calculus I	4
MATH 132	Calculus II	4
MATH 203	Multivariable Calculus	4
MATH 213	Elementary Linear Algebra	3
MATH 215	Mathematics Resources, Opportunities, and Career Seminar	1
MATH 220	Discrete Mathematics	3
MATH 321	Modern Algebra I	3
MATH 371	Probability	3
MATH 372	Statistical Inference	3
MATH 415	Mathematics Seminar	1
MATH 421	Real Analysis I	3
MATH 435	Higher Geometry	3
CSCI 111	Introduction to Computer Science	4
Select two approved MATH or APMA electives above the 200-level not already taken. <sup>1</sup>		6
<b>Total Hours</b>		<b>45</b>

<sup>1</sup> PHYS 250 Mathematical Physics or CSCI 363 Theory of Computation may also be counted as an elective.