Mathematics for Elementary School Teachers (MELT), Major

The Mathematics for Elementary School Teachers major (MELT) is for College of Education students who are seeking teaching certification at the elementary school level, while obtaining strong mathematical preparation. This program is designed to prepare “mathematics specialists” who provide vision, focus and leadership in elementary schools.

Major in Mathematics for Elementary School Teachers (MELT)

This major is for students in the College of Education enrolled in Elementary Education (grades K-9). The major in mathematics for elementary teachers consists of twelve required mathematics courses for a total of 38 credit hours as listed below.

Note:

- From the beginning of the work toward a degree, students should consult with both a department adviser and the director of teacher education in the College of Education about the appropriate sequence of courses. University and state requirements for teacher certification are described in the College of Education section of this bulletin.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 1450</td>
<td>Calculus 1</td>
<td>4</td>
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<tr>
<td>MATH 1455</td>
<td>Calculus 2</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2030</td>
<td>Problem Solving and Reasoning for Teachers</td>
<td>3</td>
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<tr>
<td>MATH 2031</td>
<td>Number Systems and Operations for Elementary Teachers</td>
<td>3</td>
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<tr>
<td>MATH 2032</td>
<td>Algebra and Geometry for Teachers</td>
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<td>MATH 2350</td>
<td>Foundations of Mathematics</td>
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<tr>
<td>MATH 3100</td>
<td>Linear Algebra and Matrix Theory</td>
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<tr>
<td>MATH 3700</td>
<td>An Introduction to Modeling with Simulation and Scientific Computing</td>
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<tr>
<td>MATH 4310</td>
<td>History of Mathematical Ideas</td>
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<tr>
<td>MATH 4320</td>
<td>Theory of Numbers</td>
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<tr>
<td>MATH 4420</td>
<td>Foundations of Geometry</td>
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<td>MATH 4720</td>
<td>Statistical Methods</td>
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Total Credit Hours: 38

TYPICAL PROGRAM FOR MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS MAJORS

Freshman

<table>
<thead>
<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ARSC 1020, BIOL 1420, PHYS 1007, or PHYS 1009</td>
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<td>EDUC 1001</td>
<td>3</td>
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<tr>
<td>EDUC 1000</td>
<td>3</td>
<td>EDUC 4217</td>
<td>3</td>
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<tr>
<td>ENGL 1001</td>
<td>3</td>
<td>MATH 1455</td>
<td>4</td>
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<tr>
<td>MATH 1450</td>
<td>4</td>
<td>MATH 2030</td>
<td>3</td>
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<tr>
<td>PHIL 1000 or THEO 1001</td>
<td>3</td>
<td>PHIL 1001 or THEO 1001</td>
<td>3</td>
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<tr>
<td>Service Learning</td>
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<td>Service Learning</td>
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</table>

Sophomore

<table>
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<tr>
<th>First Term</th>
<th>Hours</th>
<th>Second Term</th>
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</thead>
<tbody>
<tr>
<td>CORE 1929 (MCC)</td>
<td>3</td>
<td>DSCV (MCC)\textsuperscript{1,2}</td>
<td>3</td>
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<tr>
<td>DSCV (MCC)\textsuperscript{1,2}</td>
<td>3</td>
<td>EDUC 2002</td>
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<td>EDUC 2001</td>
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<td>EDUC 4307</td>
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</table>
The four courses in the Discovery Tier (DSCV) of the MCC must be completed in the same theme and include the following content areas: Humanities (HUM), Social Science (SSC), Natural Science and Mathematics (NSM) and one elective (ELE), which is an additional course from any of the three content areas. A maximum of two courses in the Discovery Tier can apply towards a primary major.

Students must also complete the Writing Intensive (WRIT) and Engaging Social System and Values 2 (ESSV2) requirements of the MCC. These requirements can be fulfilled through designated courses in the Discovery Tier or other degree requirements.

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- Academic Misconduct (https://bulletin.marquette.edu/policies/academic-misconduct-policy/)
- Academic Program Definitions (https://bulletin.marquette.edu/policies/academic-programs-defined/)
- Academic Standing (https://bulletin.marquette.edu/policies/academic-standing/)
- Accelerated Degree Programs (https://bulletin.marquette.edu/policies/accelerated-degree-programs/)
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• Faculty Grading (https://bulletin.marquette.edu/policies/faculty-grading/)
• Family Education Rights and Privacy Act-FERPA (https://bulletin.marquette.edu/policies/ferpa/)
• Grade Appeals (https://bulletin.marquette.edu/policies/grade-appeals/)
• Grading System - Undergraduate and Health Science Professional (https://bulletin.marquette.edu/policies/grading-system/undergraduate-healthscienceprofessional/)
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• Transfer Course Credit - Undergraduate (https://bulletin.marquette.edu/policies/transfer-course-credit-policy/undergraduate/)
• Withdrawal - Undergraduate (https://bulletin.marquette.edu/policies/withdrawals/undergraduate/)

College of Arts and Sciences Policies

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• Transfer Credit Policy (https://bulletin.marquette.edu/arts-sciences/policies/transfer-credit-policy/)