# Mathematics Education
Bachelor of Science in Education

Effective for students admitted to the College of Education and Human Ecology beginning **Autumn 2022**

<table>
<thead>
<tr>
<th>General Education Requirements (32-39 Hours)</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Launch Seminar</td>
<td>1</td>
</tr>
<tr>
<td>Reflection Seminar</td>
<td>1</td>
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<table>
<thead>
<tr>
<th>Foundations (22-25 Hours)</th>
<th></th>
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<tbody>
<tr>
<td>Writing &amp; Information Literacy</td>
<td>3</td>
</tr>
<tr>
<td>Mathematical &amp; Quantitative Reasoning or Data Analysis</td>
<td>3-5</td>
</tr>
<tr>
<td>Literary, Visual &amp; Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Historical &amp; Cultural Studies</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science</td>
<td>4-5</td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Race, Ethnic &amp; Gender Diversity</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Thematic Pathways (8-12 Hours)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Take 4-6 hours from Citizenship for a Diverse &amp; Just World and 4-6 hours from another Thematic Pathway of choice.</td>
<td></td>
</tr>
<tr>
<td>Citizenship for a Diverse &amp; Just World</td>
<td>4-6</td>
</tr>
<tr>
<td>Choice of 4-6 hours from one additional Thematic Pathway:</td>
<td>4-6</td>
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<tr>
<td>Lived Environments</td>
<td></td>
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<tr>
<td>Sustainability</td>
<td></td>
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<tr>
<td>Health &amp; Wellbeing</td>
<td></td>
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<tr>
<td>Origins &amp; Evolution</td>
<td></td>
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<tr>
<td>Traditions, Cultures, &amp; Transformations</td>
<td></td>
</tr>
<tr>
<td>Number, Nature, Mind</td>
<td></td>
</tr>
<tr>
<td>Migration, Mobility, &amp; Immobility</td>
<td></td>
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</tbody>
</table>

| EHE 1100 College Survey                    | 1     |
### Pre-Major Requirements (12 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUCST 2189S First Education Experience Program (FEEP)</td>
<td>3</td>
</tr>
<tr>
<td>ESPHE 3206 School &amp; Society (can overlap with GE Race, Ethnic, &amp; Gender Diversity) or ESPHE 4280 Hist. of Modern Edu.</td>
<td>3</td>
</tr>
<tr>
<td>ESEPSY 2309 Psychological Perspectives on Education</td>
<td>3</td>
</tr>
<tr>
<td>HDFS 2420 Adolescence &amp; Emerging Adult Dev., or ESEPSY 5401 Adolescent Learning &amp; Development in School Contexts</td>
<td>3</td>
</tr>
</tbody>
</table>

### Content Requirements (41 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 1151 Calculus I (can overlap with GE Math &amp; Quantitative Reasoning or Data Analysis)</td>
<td>5</td>
</tr>
<tr>
<td>MATH 1152 Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 2153 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2568 Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3345 Foundations of Higher Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4507 Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4578 Discrete Mathematical Models</td>
<td>4</td>
</tr>
<tr>
<td>MATH 4580 Abstract Algebra I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4480 Algebra for Teaching</td>
<td>2</td>
</tr>
<tr>
<td>MATH 4547 Introductory Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4407 Geometry for Teaching</td>
<td>2</td>
</tr>
<tr>
<td>STAT 4201 Introduction to Mathematical Statistics I</td>
<td>4</td>
</tr>
</tbody>
</table>

Content Requirements also meet the requirements for the Math Minor

### Major Requirements (35 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EDUTL 5005 Equity, Diversity, and Justice in Education (can overlap with GE Citizenship for a Diverse &amp; Just World)</td>
<td>3</td>
</tr>
<tr>
<td>EDUTL 5501 Inclusion</td>
<td>3</td>
</tr>
<tr>
<td>EDUTL 5442 Teaching Reading Across the Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDUTL 5711 Methods in Teaching STEM Secondary Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>EDUTL 5712 Methods in Teaching STEM Secondary Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>EDUTL 5744 Technologies Used in STEM</td>
<td>1.5</td>
</tr>
<tr>
<td>EDUTL 5745 Assessment in STEM I: Introduction</td>
<td>1.5</td>
</tr>
<tr>
<td>EDUTL 3189.07 Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>EDUTL 4189.07 Advanced Field Experience: STEM Education</td>
<td>2</td>
</tr>
<tr>
<td>EDUTL 5195.07 Reflective Seminar: STEM Education</td>
<td>1+1+2</td>
</tr>
<tr>
<td>EDUTL 5191.07 Supervised Student Teaching Internship: STEM Education</td>
<td>10</td>
</tr>
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Successful completion of the Ohio Assessment for Educators examinations is required prior to student teaching. To be recommended for state of Ohio teacher licensure, must maintain a 2.75 cumulative GPA, 2.75 content GPA, and earn a B- or higher grade in student teaching.

**Total Hours: 114-128**

**Free Electives to reach 120 Hours: 0-6**

Minimum of 120 credit hours required for degree completion. Total Hours range is based on requirement course choices and/or the number of credits that overlap between requirement areas. Students are encouraged to overlap as many credits as possible.