Minor in Middle School Mathematics Teaching

A minor in Middle School Mathematics Teaching is available to undergraduates who are either: **Elementary Education majors** (with an MCAS Mathematics major OR a Mathematics/Computer Science Interdisciplinary major) OR **Secondary Education majors** (with an MCAS Mathematics major).

Teaching mathematics in the middle school is great fun and teachers in this area are in great need. Less than twenty-five percent of the middle school mathematics teachers in the United States of America are currently certified to teach mathematics at the middle school level. While the minor does not lead directly to middle school mathematics certification at Boston College (we do not offer middle school certification), it does fulfill the National Council of Teachers of Mathematics requirements for middle school teachers of mathematics. With this minor, acquiring middle school mathematics certification in Massachusetts should not be difficult.

### Requirements for Elementary majors w/ a MCAS Mathematics major OR Mathematics/Computer Science Interdisciplinary Major

<table>
<thead>
<tr>
<th>Course number and title</th>
<th>Credits</th>
<th>Fall</th>
<th>Spring</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC3343 Reform and Innovation in the Middle School OR</td>
<td>3</td>
<td>✓</td>
<td></td>
<td>Offered periodically</td>
</tr>
<tr>
<td>EDUC6307 Teachers and Educational Reform OR</td>
<td>3</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Independent Study</td>
<td>3</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>APSY2041 Adolescent Psychology</td>
<td>3</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>EDUC2131 Undergraduate Inquiry Seminar I</td>
<td>1</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>EDUC2151 Pre-Practicum I in Grades 5-6</td>
<td>1</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>EDUC4250 Full Practicum (Lynch Students)</td>
<td>12</td>
<td>✓</td>
<td>✓</td>
<td>Grade 5 student teaching experience is recommended</td>
</tr>
<tr>
<td>EDUC6304 Secondary and Middle School Mathematics Methods</td>
<td>3</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Requirements for Secondary Majors with an MCAS Mathematics Major

<table>
<thead>
<tr>
<th>Course number and title</th>
<th>Credits</th>
<th>Fall</th>
<th>Spring</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC3343 Reform and Innovation in the Middle School OR</td>
<td>3</td>
<td>✓</td>
<td></td>
<td>Offered periodically</td>
</tr>
<tr>
<td>EDUC6307 Teachers and Educational Reform OR</td>
<td>3</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Independent Study</td>
<td>3</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>EDUC2108 Teaching Mathematics and Technology</td>
<td>3</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>EDUC2131 Undergraduate Inquiry Seminar I</td>
<td>1</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>EDUC2151 Pre-practicum I in Grades 7-9</td>
<td>1</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>EDUC4250 Full Practicum (Lynch Students)</td>
<td>12</td>
<td>✓</td>
<td>✓</td>
<td>Student teaching Experience must include 9th grade Algebra</td>
</tr>
<tr>
<td>MATH2290 Number Theory for Teachers</td>
<td>3</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH2291 Geometry for Teachers</td>
<td>3</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH4452 Euclid's Elements</td>
<td>3</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Interested Students must complete a Middle School Math Minor form and submit it to Campion 104.

**Contact Faculty:** Dr. Lillie Albert, Campion Hall 217

August 2017
Boston College Lynch School of Education

Elementary Major with Middle School Math Minor

Semester 1: Fall
APSY1030 Child Growth
English Core
History Core
Philosophy Core
Theology Core

Semester 2: Fall
APSY1031 Family, School & Society
English Core
History Core
Philosophy Core
Theology Core

Semester 3: Fall
ERME1060 Classroom Assessment
EDUC1044 Working with Special Needs
Science Core
Fine Arts Core
MCAS Major

Semester 4: Spring
EDUC2039 Learning in the Elem Sch.
Science Core
Math Core (Part of A&S Major)
MCAS Major
MCAS Major
EDUC2151 Pre-practicum with EDUC2131

Semester 5: Fall
EDUC2105 Teaching Social Studies
EDUC2109 Teaching about the Natural World
EDUC6304 Secondary Math Methods
MCAS Major
*EDUC3343 or independent study
EDUC3152 Pre-practicum with EDUC3132

Semester 6: Spring
EDUC2101 Teaching Reading
EDUC2108 Teaching Math and Technology
APSY2041 Adolescent Psychology
MCAS Major
MCAS Major
EDUC3153 Pre-practicum with EDUC3133

Semester 7: Fall
EDUC4250 Full Practicum
EDUC3133 Inquiry Seminar

Secondary Major with Middle School Math Minor

Semester 1: Fall
APSY1030 Child Growth
English Core
History Core
Philosophy Core
Theology Core

Semester 2: Spring
APSY1031 Family, School & Society
English Core
History Core
Philosophy Core
Theology Core

Semester 3: Fall
EDUC2211 Secondary Curriculum and Instruction
ERME1060 Classroom Assessment
EDUC2151 Pre-practicum with EDUC2131
Science Core
Fine Arts Core
MCAS Major

Semester 4: Spring
EDUC1044 Working with Special Needs
Science Core
Math Core (Part of MCAS Major)
MCAS Major
MCAS Major

Semester 5: Fall
EDUC6304 Secondary Math Methods
Seed/Mid
APSY2041 Adolescent Psychology
MATH2290 Number Theory, MATH2291 (S) or MATH4453 (S)
MCAS Major
*EDUC3343, 6367 or independent study
EDUC3152 Pre-practicum with EDUC3132

Semester 7: Fall
EDUC4250 Full Practicum
EDUC3133 Inquiry Seminar

Semester 6: Spring
EDUC3323 Reading/Special Needs for Secd/Mid
EDUC2108 Teaching Math and Technology
MCAS Major
MCAS Major
MCAS Major
EDUC3153 Pre-practicum with EDUC3133

Semester 7: Spring
EDUC6346.01 MCAS Major
Course as needed

Semester 8: Spring
MCAS Major
MCAS Major
EDUC6346.02 MCAS Major & Courses as needed

August 2017