## Integrated Mathematics

### Program Outline

For Students Entering 2020-2021 Academic Year

#### Degree Earned:
Bachelor of Science in Education (BSEd)

#### License Earned:
Mathematics, 110094

#### OAE Exams:
- 003 Assessment of Professional Knowledge: Adolescence to Young Adult (7-12)
- 027 Mathematics

#### GPA Requirements for Graduation:
2.800 Cumulative, 2.800 in EDU Courses, 2.500 MTH Minor Courses

Courses marked with # fulfill the MTH minor requirements. MTH Minor requires 17 total credits which must include MTH 141, MTH 142, and a course above 200 level.

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### Course Outline

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Hours</th>
<th>Advising Notes</th>
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</table>
| MTH 118  | Algebraic Thinking Through Modeling  
Grade of “C-” or higher in MTH 111 and MTH 112                                                   | 3     | Offered Fall Only                           |
| MTH 141# | Calculus I  
**Prerequisite:** MTH 140 or an ACT Math Score of 27 or higher, 
a SAT Math Section Score of 550 or higher (if taken prior to March 2016), 
a SAT Math Section Score of 570 (if taken after March 2016), 
or a SAT Math Test Score of 28.5 or higher, or instructor permission. | 4     |                                              |
| MTH 142# | Calculus II  
MTH 141                                                                                            | 4     |                                              |
| MTH 202# | Number Theory & Abstract Algebra for Teachers                                                    | 3     | Offered Every Third Fall, Beginning 2021    |
| MTH 203# | Calculus Concepts for Teachers                                                                   | 3     | Offered Every Third Fall, Beginning 2020    |
| MTH 206# | Mathematical Logic and Proof Methods  
**Prerequisite:** MTH 141                                                                           | 3     | Offered Fall Only                           |
| MTH 211# | Linear Algebra  
**Prerequisite:** MTH 141                                                                           | 3     | Offered Spring Only                         |
| MTH 235# | Probability & Statistics for Scientists & Engineers  
**Prerequisite:** MTH 142 or instructor permission                                                   | 3     |                                              |
| MTH 243# | Calculus III  
**Prerequisite:** MTH 142                                                                           | 4     |                                              |
| MTH 315# | College Geometry  
**Prerequisite:** MTH 206                                                                           | 3     | Offered Fall Odd Years Only                 |
| MTH 405# or PHY 102 or MTH 151 | Theory of Probability  
**Prerequisite:** MTH 243 or permission of instructor  
Problem Solving  
Contemporary Mathematics | 4 or 3 or 3 | Offered Fall Even Years Only  
Offered Fall Only                                      |
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<tr>
<th>Prerequisite: An ACT Math Score of 22 or higher, a SAT Math Section Score of 520 or higher (if taken prior to March 2016), a SAT Math Section Score of 550 (if taken after March 2016), or a SAT Math Test Score of 27.5 or higher, a math placement score of at least 75 or higher, or a score of 80% or higher on the BW Math Placement Exam</th>
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<tbody>
<tr>
<td>Two MTH Courses 300 or 400 Level</td>
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