East Stroudsburg University of Pennsylvania
Department of Mathematics

B.A in Mathematics
For Students Who Entered September 2016 or Later

University Requirements:
120 credits
2.0 or higher Quality Point Average
30 or more credits of 300 level or higher courses; last 32 credits at ESU
Pass basic mathematics competency
42 credits in advanced course work

I. General Education Requirements

Required Courses: (9 credits)
- ENGL 103 (3) Must be completed within first 45 credits at ESU
- FYE (3) Must be completed within first year of study at ESU
- Health (3) Must be completed within first 60 credits at ESU

Breadth Requirement: (36 credits)

Group A – Arts and Letters (12)
Must include at least 4 of the following:
- English Language and Literature
- Fine Arts – Art, Communication Studies, Dance, Music, Theatre
- Modern Languages
- Performing Arts – Communication Studies, Dance, Music, Theatre
- Philosophy

Group B – Science (12)
Must include at least 4 of the following*:
- Biology
- Chemistry
- Computer Science
- Mathematics
- Physics
- Psychology

* One of the four must have completion of the Math Competency as a prerequisite

Group C – Social Science (12)
Must include at least 4 of the following:
- Economics
- Geography
- History
- Political Science
- Sociology

Additional (Overlay) Requirements:
The following requirements will be embedded into courses across the University, including GE Breadth courses, courses within the major programs, and elective courses, and should not require that a student complete additional credits for graduation.
(W2) Level II Writing requirement (W3) Level III Writing requirement
(G) Global Diversity and Citizenship (SLO I) requirement
(C) Communication (SLO III) requirement
(I) Information Literacy/Technology (SLO IV) requirement
(A) Artistic Expression (SLO VI) requirement
II. Mathematics Course Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 140 Calculus I</td>
<td>4</td>
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<tr>
<td>MATH 141 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 220 Discrete Math Structures</td>
<td>3</td>
</tr>
<tr>
<td>MATH 240 Multivariate Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 311 Statistics I</td>
<td>3</td>
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<tr>
<td>MATH 320 Linear Algebra</td>
<td>(3)</td>
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<tr>
<td>MATH 341 Differential Equations</td>
<td>(3)</td>
</tr>
<tr>
<td>MATH 421 Abstract Algebra I</td>
<td>(3)</td>
</tr>
<tr>
<td>MATH 425 Math Modeling</td>
<td>(3)</td>
</tr>
<tr>
<td>MATH ELECTIVE (300 or higher)</td>
<td>(3)</td>
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III. Co-Requisite

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<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>CPSC 130 Intro to Comp Programming I</td>
<td>(3)</td>
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IV. A grade of C or better must be earned in all required math and computer science courses

V. Foreign Language Competency Requirement

VI. Free Electives

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<tr>
<td>36</td>
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