



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.....45 credits

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 _____

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| II. Mathematics Course Requirements.....36 Credits | | | | | |
| _____MATH 140 | Calculus I | (4) | _____MATH 341 | Differential Equations | (3) |
| _____MATH 141 | Calculus II | (4) | _____MATH 421 | Abstract Algebra I | (3) |
| _____MATH 220 | Discrete Math Structures | (3) | _____MATH 425 | Math Modeling | (3) |
| _____MATH 240 | Multivariate Calculus | (4) | _____MATH ELECTIVE | (300 or higher) | (3) |
| _____MATH 311 | Statistics I | (3) | _____MATH ELECTIVE | (300 or higher) | (3) |
| _____MATH 320 | Linear Algebra | (3) | (MATH 351, 430, 431, 486, 499 excluded) | | |

III. Co-Requisite.....3 Credits
 _____CPSC 130 Intro to Comp Programming I (3)

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.....36 Credits