

East Stroudsburg University of Pennsylvania Department of Mathematics

B.S. in Mathematics with Concentration in Applied Financial 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	
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<u>Additional (Overlay) Requirements:</u> The following requirements will be embedded into courses across the University including	CED H

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			36 Credits
MATH 140 Calculus I	(4)	MATH 320 Linear Algebra	(3)
MATH 141 Calculus II	(4)	MATH 425 Math Modeling	(3)
MATH 220 Discrete Math Structures	(3)	MATH ELECTIVE (300 or higher)	(3)
MATH 240 Multivariate Calculus	(4)	MATH ELECTIVE (300 or higher)	(3)
MATH 280 Math Finance (Option Course)	(3)	MATH ELECTIVE (300 or higher)	(3)
MATH 311 Statistics I	(3)	(MATH 351, 430, 431, 499 excluded)	

Note: Three credits of MATH 486 - Internship in Applied Mathematics may be used as one MATH ELECTIVE

		Credits
(3)		(3)
(3)	ENGL 204 Technical Writing	(3)
		Credits
(3)	ECON 332 Forecasting Methods	(3)
(3)	ECON 300 or Higher (Or Other Approved)	(3)
	(3) (3) (3)	 (3)ENGL 204 Technical Writing

V. A grade of C or better must be earned in all required courses (math, co-requisites and options courses)

VI. Free Electives	15 Credits
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