

East Stroudsburg University of Pennsylvania **Department of Mathematics**

B.S. in Mathematics with Concentration in Applied Physical Mathematics For Students Who Entered September 2016 or Later

University Requir	ements:		
120 credit	S		
2.0 or high	ner Quality Point Average		
30 or mor	e credits of 300 level or higher courses; last 32 credits at ESU		
Pass basic	mathematics competency		
	in advanced course work		
I. General Educa	tion 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 Requiren	nent: (36 credits)		
Group A – Arts	and Letters (12)		
Must include at l	east 4 of the following :		
English	Language and Literature		
Fine Arts – Art, Communication Studies, Dance, Music, Theatre			
Modern	Languages		
Perform	ning Arts – Communication Studies, Dance, Music, Theatre		
Philoso			
Group B – Scien			
Must include at l	east 4 of the following*:		
Biology			
Chemis	try		
Compu	ter Science		
Mathen	natics		
Physics			
Psychol	ogy		
* One of the four Group C – Social	must have completion of the Math Competency as a prerequisite		
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Econon	east 4 of the following:		
			
Geogra			
History	1 Science		
Sociolo			
	rlay) Requirements:		
•	nts will be embedded into many University courses, including GE Breadth co		
	and elective courses, and should not require that a student complete additional	i creaus jor graauation.	
	riting requirement		
	Vriting requirement		
	rsity and Citizenship (SLO I) requirement		
, ,	ion (SLO III) requirement		
	iteracy/Technology (SLO IV) requirement		
(A) Artistic Expi	ression (SLO VI) requirement		

II. Mathematics Course Requirements	•••••		36 Credits
MATH 140 Calculus I	(4)	MATH 341 Diff Eqs (Option Course)	(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 311 Statistics I	(3)	MATH ELECTIVE (300 or higher)	(3)
MATH 320 Linear Algebra	(3)	(MATH 351, 430, 431, 499 excluded)	
		lied Mathematics may be used as one MATH ELl	
III. Co-requisites			
CPSC 101 Comp & Use in Science			(3)
CPSC 130 Intro Comp Programming	(3)	ENGL 204 Technical Writing	(3)
IV. Physics Requirements			
PHYS 161 Physics I	(4)	PHYS 300 or Higher	(3)
PHYS 162 Physics II	(4)		
V. A grade of C or better must be earned in all req	uired courses	(math, co-requisites and options courses)	
VI. Free Electives	•••••		.16 Credits