

ENG 372

3 units

MATHEMATICS MAJOR Applied Math Emphasis (BA/BS) (38 units)

Effective beginning Fall 2019
An approved minor is required for this major

Math 152 or (Math 150 and 151) each with C or better

Math 250 with B or better or Math 253 with C or better

Math 250 with B or better or Math 253 with C or better

Math 254 with C or better and Math 280

Math 254 with C or better and Math 355

CoReq: Math 253

Math 254 with C or better

Math 254 with C or better

Math 361 with C or better

Math 361

Math 361 Math 255 PRE-REQUISITE

Math 253 or (Math 250 and 151) or (Math 250 and 152) each with C or better

For students who wish to prepare for a career in industry, business, or applied scientific research offering a solid foundation in the mathematics required for solving complex real-world problems. For additional information, please visit www.siam.org, www.ams.org, and www.maa.org.

COURSES			OFFERED*
Major Requirements:			
MATH 200	1 unit	Mathematics: Form and Function	E
MATH 253	5 units	Calculus and Analytic Geometry I (GM)	E
MATH 254	4 units	Calculus and Analytic Geometry II	E
MATH 255	4 units	Calculus and Analytic Geometry III	E
MATH 280	3 units	Discrete Mathematics	E
MATH 301	3 units	Introduction to Analysis	E
MATH 355	3 units	Matrices and Linear Algebra	E
MATH 361	3 units	Differential Equations	F
MATH 381	3 units	Mathematical Modeling and Simulation	S
MATH 459	3 units	Partial Differential Equations	SEY
Select two course:	s from the follo	owing list:	
MATH 458	3 units	Applied Mathematical Analysis	SOY
MATH 463	3 units	Complex Variables	FOY
MATH 471	3 units	Numerical Analysis	FEY
MATH 474	3 units	Dynamical Systems & Chaos	SOY
Unique Computer Science Requirement (3 units) — select one of the following:			
COMPSCI 170	3 units	Introduction to Python Programming	
COMPSCI 171	3 units	Introduction to Visual Basic Programming	
COMPSCI 172	3 units	Introduction to JAVA (GM)	
COMPSCI 174	3 units	Introduction to C++ (GM)	
COMPSCI 220	3 units	Intermediate JAVA	
COMPSCI 222	3 units	Intermediate C++	
COMPSCI 347	3 units	Scientific Computing	
Unique Writing Requirement (3 units) — select one of the following:			
ENG 370	3 units	Advanced Composition	

Technical and Scientific Writing

MILESTONES

Math 355 and one of (CS170, CS171, CS172, CS174, CS220, CS222, CS347)

Math Exit Interview GPA Requirement of 2.0

E = Every Semester

S = Every Spring

F = Every Fall

SOY = Every Odd Spring

SEY = Every Even Spring

FOY = Every Odd Fall

FEY = Every Even Fall