

MATH-BS Code-APMA **120 Credits**

D	.1/D	21-3	120 Cicuits				
	al/Program Major Courses (73-102 credi						
Requ	i ired Major Courses (43-46 credits): Aver	_	_				
(4-5)	Calculus I Option – Select from MA 16100, N	MA 16500 (satisfies Quantitative Reasoning f o	or core) ^{cc}				
(4-5)	Calculus II Option – Select from MA 16200,	MA 16600 (satisfies Quantitative Reasoning for	or core)				
(4-5)	Calculus III Option – Select from MA 26100, M	NA 27101 (satisfies Quantitative Reasoning fo	or core)				
(3)	MA 35100 Elementary Linear Algebra cc		•				
(4)	MA 36600 Ordinary Differential Equations						
		100 Bool Analysis Honors					
(3)	MA 34100 Foundations Of Analysis or MA 44000 Real Analysis Honors MA 35300 Linear Algebra II With Applications						
(3)	MA 35300 Linear Algebra II With Applications						
(3)	Advanced Calculus Selective: MA 36200 Topic	cs in vector Calculus/MA 44200 - Multivariate	e Analysis i Honors				
(3)	CS 31400/MA 51400 Numerical Methods						
(3)	MA 45300 - Elements Of Algebra I or MA 45000 - Algebra Honors						
(3)	MA 30300 - Differential Equations and Partial						
	Differential Equations And Analysis Of Nonline	ear Systems For Engineering And The Sciences	5				
(3)	Applied Math Selective: MA 42500 - Elements	Of Complex Analysis/MA 42800 - Introduction	on To Fourier Analysis/MA 52300 -				
	Introduction To Partial Differential Equations						
(3)	Math/Statistics Selective: MA/STAT 41600 Pro	bbability or STAT 51600 - Basic Probability And	d Applications/MA 37500 -				
 ` `	Introduction To Discrete Mathematics/MA 42						
	Complex Analysis/MA 42800 - Introduction To		• ,				
Othe Met within	r Departmental /Program Course Requi						
Major	Calculus I Option – Select from MA 16100,	MA 16500 (satisfies Quantitative Reasoning)	for core) ^{cc}				
Met within Major							
(3-4)							
(0-4)							
	(0-4) Language II Option* (Select courses COULD satisfy Human Cultures Humanities for core)						
(0-4)							
(3-6)							
	Technical Writing Option and Technical Presenting Option (Select courses COULD satisfy Oral Communication for core)						
(3-4)	Laboratory Science I Option (satisfies Science)	-					
(3-4)	Laboratory Science II Option (satisfies Science	-					
(3)	General Education I Option (Select courses C	COULD satisfy Human Culture Behavioral/Socia	l Science or Humanities for core)				
(3)	General Education II Option (Select courses	COULD satisfy Human Culture Behavioral/Soci	al Science or Humanities for core)				
(3)	General Education II Option (Select courses	COULD satisfy Human Culture Behavioral/Socie	al Science or Humanities for core)				
(3)	STAT 35000 Introduction To Statistics						
(3-4)	Computing Option						
(0-4)	Teambuilding and Collaboration Experienc	re*					
(3)	Great Issues Option						
	•	COLUB antiation Calaman Tankan laws and Co.	status Calantina famous al				
(0-3)	y be met with a zero credit experiential learning option.	es COULD satisfies Science, Technology, and Soc	ciety Selective for core)				
Requirement ma	y be met with a zero credit experiential learning option.	See your advisor for more information					
Electives (1	18-47 credits)						
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University Core l	Requirements						
Human Cultures I	_	Science, Technology & Society					
Human Caltares i		Selective					
Human Cultures	Behavioral/Social \Box	Written Communication					
Science		VIIICEN COMMUNICACION					
Information Liter	racy	Oral Communication	Π				
Science Selective		Quantitative Reasoning	П П				
Science Selective	—						
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	The student is ultimately respons	sible for knowing and completing all degree requireme	ents.				
	(Degree Works) MyPurduePlan is k	knowledge source for specific requirements and compl	etion				

Applied Mathematics

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4-5	Calculus I Option cc	ALEKS 85	4-5	Calculus II Option	Calculus I C- or higher
3-4	ENGL 10600/10800 First-Year		3-4	Computing Option (rec. CS 17700 & meets	
3-4	Composition		3-4	Teambuilding and Collaboration Experience)	
3-4	Language I Option		3-4	Language II Option	Language 10100
1	Free Elective (MA 10800)				
3-4	Free Elective		3	Free Elective	
			2	Free Elective	
15-17			15-18		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4-5	Calculus III Option	Calculus II C- or higher	3	MA 35100 ^{cc} Elementary Linear Algebra	Calculus III C- or higher
3-4	Laboratory Science I Option		3	STAT 35000 Introduction To Statistics	Calculus II C- or higher
3-4	Language III/Culture/Diversity Option	See Course Info	3-4	Laboratory Science II Option	Lab Sci Option I
3	Free Elective (MA 30100)	Calculus II C- or higher	3-6	Technical Writing Option and Technical Presenting Option (COM 21700)	
2	Free Elective		0-3	Free Elective	
15-18		_	15-16		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
4	MA 36600 Ordinary Differential Equations	Calculus III; co-req or pre MA 35100 C- or higher	3	MA 35300 Linear Algebra II With Applications	MA 35100 C- or higher
3	MA 34100 or MA 44000	Calculus III C- or higher	3	Advance Calculus Selective	Varies by Class
3	General Education I Option		3	CS 31400/MA 51400 Numerical Methods	CS Programming and MA 35100 C or higher
3	Free Elective (Science, Technology & Society Selective Course)		3	General Education II Option	
2	Free Elective		3	Free Elective	
15			15		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	MA 45300 or MA 45000	MA 35100 C- or higher	3	Applied Math Selective	Varies by Class
3	MA 30300 or MA 30400	MA 36600 and MA 35100 D- or higher	3	Math/Statistics Elective	Varies by Class
0-3	Multidisciplinary Experience		3	Great Issues Option	Jr/Sr Standing; may require COM or ENGL
3	General Education III Option		3	Free Elective	
3-6	Free Elective		3	Free Elective	
15-18			15		

^{cc} Identified as a critical course. Student should earn minimum of a B- see advisor for further details. Courses in () are recommended.

Students must earn a 2.0 average in MATH/STAT/CS courses required for major.

120 semester credits required for Bachelor of Science degree. 2.0 Graduation GPA required for Bachelor of Science degree.

2.0 Graduation GPA required for Bachelor of Science degree.

The student is ultimately responsible for knowing and completing all degree requirements. (Degree Works) MyPurduePlan is knowledge source for specific requirements and completion