

Departmental/Program Major Courses (79-102 credits)

Required Major Courses (43-46 credits): Average GPA in courses must be 2.00

- (4-5) Calculus I Selective – Select from MA 16100, MA 16500 (satisfies Quantitative Reasoning for core)
- (4-5) Calculus II Selective - Select from MA 16200, MA 16600, MA 17300, MA 18100 (satisfies Quantitative Reasoning for core)
- (4-5) Calculus III Selective - Select from MA 26100, MA 17400, MA 18200, MA 27100 (satisfies Quantitative Reasoning for core)
- (3) MA 35100 Elementary Linear Algebra
- (4) MA 36600 Ordinary Differential Equations
- (3) MA 34100 Foundations Of Analysis or MA 44000 Real Analysis Honors
- (3) MA 35300 Linear Algebra II With Applications
 - Advance Calculus Selective: MA 36200 Topics In Vector Calculus/MA 44200 Multivariate Analysis I Honors/MA 51000 Vector Calculus
 - (3) CS 31400 Numerical Methods
 - MA 45300 Elements Of Algebra I or MA 45000 Algebra Honors (3)
 - MA 30300 Differential Equations and Partial Differential Equations for Engineering and the Sciences or MA 30400 -(3) Differential Equations And Analysis Of Nonlinear Systems For Engineering And The Sciences
 - (3) Applied Math Selective: MA 42500 - Elements Of Complex Analysis/MA 42800 - Introduction To Fourier Analysis/MA 52000 -Boundary Value Problems Of Differential Equations/MA 52300 - Introduction To Partial Differential Equations/MA 52500 - Introduction **To Complex Analysis**
 - (3) Math/Statistics Selective: MA/STAT 41600 Probability or STAT 51600 - Basic Probability And Applications/MA 37500 - Introduction To Discrete Mathematics/MA 42100 - Linear Programming And Optimization Techniques/MA 42500 - Elements Of Complex Analysis/MA 42800 - Introduction To Fourier Analysis

Other Departmental /Program Course Requirements (36-56 credits)

- ENGL 10600 or ENGL 10800 (satisfies Written Communication and Information Literacy for core) (3-4)
- Language I Selective –LINK (3-4)
- (3-4) Language II Selective – LINK
- (3-4) Language and Culture III Selective –LINK (Select courses COULD satisfy Human Cultures Humanities for core)
- Technical Writing Selective LINK (Select courses COULD satisfy Oral Communication for core) (0-3)
- (0-3) Technical Presenting Selective LINK (Select courses COULD satisfy Oral Communication for core)
- Laboratory Science I Selective LINK (satisfies Science Selective for core) (3-4)
- (3-4 (0-3 (0-3 (0-3 (3-4 (3-4 (3-4 (3) (3) (3) (3) (3-4) Laboratory Science II Selective LINK (satisfies Science Selective for core)
- General Education Selective LINK (Select courses COULD satisfy Human Culture Behavioral/Social Science for core)
- General Education | Selective LINK (Select courses COULD satisfy Human Culture Behavioral/Social Science for core)
- (3) General Education II Selective LINK (Select courses COULD satisfy Human Culture Behavioral/Social Science for core)
- STAT 35000 Introduction To Statistics (3)
- _____ (3-4) Computing Selective LINK
- (0-3) Teambuilding Experience LINK
 - (0-4) Multidisciplinary Experience LINK (Select courses COULD satisfies Science, Technology, and Society Selective for core)
 - (3) Great Issues Selective LINK

Electives (18-41 credits)

University Core Requirements <u>LIN</u>	<u>K</u>	•••••	•••••				
Human Cultures Humanities		Science, Technology & Society Selective					
Human Cultures Behavioral/Social Science		Written Communication	\Box				
Information Literacy	\Box	Oral Communication					
Science Selective		Quantitative Reasoning					
Science Selective							

The student is ultimately responsible for knowing and completing all degree requirements.							

Applied Mathematics http://www.science.purdue.edu/Current_Students/majors/index.html

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4-5	Calculus I Selective	ALEKS 85	4-5	Calculus II Selective	Calculus I
4	ENGL 10600		3-4	Computing Selective	
3-4	Language I Selective		3-4	Language II Selective	Language 10100
1	Free Elective MA 10800		0	Teambuilding Experience	
3	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 Selective	Calculus II	3	MA 35100 🏲	Calculus III
3-4	Laboratory Science Selective I		3	STAT 3500	Calculus II
3-4	Language Selective III	See Course Info	3-4	Laboratory Science Selective II	Lab Sci Selective I
3	Free Elective MA 30100	Calculus II	3	COM 21700	
2	Free Elective		3	Free Elective	
15-18			15-16		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
		Calculus III; co-			
4	MA 36600	req or pre MA	3	MA 35300	MA 35100
		35100			
3	MA 34100 or MA 44000	Calculus III	3	Advance Calculus Selective	Varies by Class
3	Concerned Educations Coloctive		2	CS 21400	CS Programming
	General Education Selective		5	C3 51400	and MA 35100
3	Free Elective		3	General Education Selective I	
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	3	Applied Math Selective	Varies by Class
3	MA 30300 or MA 30400	MA 36600 and MA 35100	3	Math/Statistics Elective	Varies by Class
0-4	Multidisciplinary Experience		3	Great Issues Selective	Jr/Sr Standing; may require COM or ENGL
3	General Education Selective II		3	Free Elective	
4-6	Free Elective		3	Free Elective	
15-18			15		

Identified as a critical course. Student should earn minimum of a B- see advisor for further details.

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.

The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is knowledge source for specific requirements and completion