

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
- _____ (3) Math Selective I: MA 36200 Topics In Vector Calculus/MA 44200 - Multivariate Analysis I Honors/MA 51000 - Vector Calculus
- _____ (3) CS 31400 Numerical Methods
- _____ (3) 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 - Differential Equations And Analysis Of Nonlinear Systems For Engineering And The Sciences
- _____ (3) Math Selective II: 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)

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

Electives (18-41 credits)

_____ () _____ _____ () _____ _____ () _____ _____ () _____
 _____ () _____ _____ () _____ _____ () _____ _____ () _____

University Core Requirements [LINK](#)

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	_____
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Oral Communication	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____			

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

Degree Works is knowledge source for specific requirements and completion

Applied Mathematics<http://www.math.purdue.edu/academic/undergrad/>**Suggested Arrangement of Courses:**

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4-5	Calculus I Selective	ALEKS 75	4-5	Calculus II Selective	Calculus I
3-4	ENGL 10600/10800		3-4	Computing Selective	
3-4	Language I Selective		3-4	Language II Selective	Language 10100
1	Free Elective MA 10800		0	Teamwork Experience	
3	Free Elective		3	Free Elective	
			1	Free Elective	
14-17			14-17		

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	
3	Free Elective		3	Free Elective	
16-19			15-16		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
4	MA 36600	Calculus III; co-req or pre MA 35100	3	MA 35300	MA 35100
3	MA 34100 or MA 44000	Calculus III	3	Math Selective I	Varies by Class
3	General Education Selective		3	CS 31400	CS Programming and MA 35100
3	Free Elective		3	General Education Selective I	
3	Free Elective		3	Free Elective	
			1	Free Elective	
16			16		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	MA 45300 or MA 45000	MA 35100	3	Math Selective II	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	Jr/Sr Standing; may require COM or ENGL
3	General Education Selective II		3	Free Elective	
3-6	Free Elective		3	Free Elective	
14-18			15		

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.

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