

Departmental/Program Major Courses (67-95 credits)

Required Major Courses (34-36 credits): Average GPA in courses must be 2.00 excluding Calculus III Selective

- _____ (4-5) Calculus III Selective – Select from MA 26100, MA 27101 (*satisfies Quantitative Reasoning for core*)
- _____ (3) MA 35100 Elementary Linear Algebra
- _____ (3) STAT 35000 Introduction To Statistics (*satisfies Statistics Requirement*)
- _____ (3) MA 34100 Foundations Of Analysis or MA 44000 Real Analysis Honors
- _____ (3) MA or STAT 41600 – Probability or STAT 51600 - Basic Probability And Applications
- _____ (3) Advanced Calculus Selective: MA 36200 Topics In Vector Calculus/MA 44200 - Multivariate Analysis I Honors/MA 51000 - Vector Calculus
- _____ (3) STAT 41700 - Statistical Theory or STAT 51700 - Statistical Inference
- _____ (3-4) Advanced MA Selective: MA 36600 Ordinary Differential Equations/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/MA 45300 - Elements Of Algebra I or MA 45000 - Algebra Honors/MA 52000 - Boundary Value Problems Of Differential Equations
- _____ (3) STAT 51200 Applied Regression Analysis
- _____ (3) MA 35300 Linear Algebra II With Applications
- _____ (3) STAT Selective: STAT 51300 - Statistical Quality Control/STAT 51400 - Design Of Experiments/STAT 42000 - Introduction To Time Series, IE 53000 - Quality Control

Other Departmental /Program Course Requirements (33-59 credits)

- _____ (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 (*satisfies Quantitative Reasoning for core*)
- _____ (3-4) ENGL 10600 or ENGL 10800 - (*satisfies Written Communication and Information Literacy for core*)
- _____ (0-4) Language I Selective – [LINK](#)
- _____ (0-4) Language II Selective – [LINK](#)
- _____ (0-4) 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 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) General Education III Selective [LINK](#) (*Select courses COULD satisfy Human Culture Behavioral/Social Science for core*)
- _____ Within major STAT 35000 Introduction To Statistics
- _____ (3-4) Computing Selective [LINK](#)
- _____ (0) Teambuilding Experience [LINK](#)
- _____ (0-3) Multidisciplinary Experience [LINK](#) (*Select courses COULD satisfy Science, Technology, and Society Selective for core*)
- _____ (3) Great Issues Selective [LINK](#)

Electives (25-53 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

Mathematics/Statistics

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 First-Year Composition		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 Elementary Linear Algebra	Calculus III
3	General Education I Selective		3	STAT 35000 Introduction To Statistics	Calculus II
3-4	Language Selective III	See Course Info	3	COM 21700 Science Writing & Presentation	
3	Free Elective MA 30100	Calculus II	6	Free Elective	
2	Free Elective				
15-17			15		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	MA 34100 Foundations Of Analysis	Calculus III	3	Advance Calculus Selective	Varies by Class
3	MA/STAT 41600 Probability	Calculus III	3	STAT 41700 Statistical Theory	STAT 41600
3-4	Laboratory Science I Selective		3-4	Laboratory Science II Selective	Lab Sci Selective I
3	Free Elective		3	Great Issues Selective	Jr/Sr Standing; may require COM or ENGL
3	Free Elective		3	Free Elective	
15-16			15-16		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	Advanced MA Selective	Varies by Class	3	MA 35300 Linear Algebra II With Applications	MA 35100
3	STAT 51200 Applied Regression Analysis	STAT 35000	3	STAT Selective	Varies by Class
3	General Education II Selective		3	General Education III Selective	
0-4	Multidisciplinary Experience		6	Free Elective	
3-6	Free Elective/ Science, Technology & Society Selective Course				
15-17			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/IE courses required for major.

120 semester credits required for Bachelor of Science degree.

2.0 Graduation GPA required for Bachelor of Science degree.

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