

Departmental/Program Major Courses (69-99 credits)

Required Major Courses (42-46 credits): Average GPA in courses must be 2.00 excluding Calculus I, II and III

(4-5)	Calculus I Option – Select from MA 16100, MA 16500 (<i>satisfies Quantitative Reasoning for core</i>) ^{cc}
(4-5)	Calculus II Option – Select from MA 16200, MA 16600 (<i>satisfies Quantitative Reasoning for core</i>)
(4-5)	Calculus III Option – Select from MA 26100, MA 27101 (<i>satisfies Quantitative Reasoning for core</i>)
(3)	MA 35100 Elementary Linear Algebra ^{cc}
(3)	STAT 35000 Introduction To Statistics (<i>satisfies Statistics Requirement</i>)
(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
(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
(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 (27-53 credits)

_____	Met within major	Calculus I Option – Select from MA 16100, MA 16500 (<i>satisfies Quantitative Reasoning for core</i>) ^{cc}
_____	Met within major	Calculus II Option – Select from MA 16200, MA 16600 (<i>satisfies Quantitative Reasoning for core</i>)
(3-4)		ENGL 10600 or ENGL 10800 - (<i>satisfies Written Communication and Information Literacy for core</i>)
(0-4)		Language I Option* (<i>Select courses COULD satisfy Human Cultures Humanities for core</i>)
(0-4)		Language II Option* (<i>Select courses COULD satisfy Human Cultures Humanities for core</i>)
(0-4)		Language III/Culture/Diversity Option* (<i>Select courses COULD satisfy Human Cultures Humanities for core</i>)
(3-6)		Technical Writing Option and Technical Presenting Option (<i>Select courses COULD satisfy Oral Communication for core</i>)
(3-4)		Laboratory Science I Option (<i>satisfies Science Selective for core</i>)
(3-4)		Laboratory Science II Option (<i>satisfies Science Selective for core</i>)
(3)		General Education I Option (<i>Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core</i>)
(3)		General Education II Option (<i>Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core</i>)
(3)		General Education II Option (<i>Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core</i>)
_____	Met within major	STAT 35000 Introduction To Statistics
(3-4)		Computing Option
(0-4)		Teambuilding and Collaboration Experience*
(3)		Great Issues Option
(0-3)		Multidisciplinary Experience* (<i>Select courses COULD satisfy Science, Technology, and Society Selective for core</i>)

*Requirement may be met with a zero credit experiential learning option. See your advisor for more information

Electives (21-51 credits)

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

University Core Requirements

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) MyPurduePlan is knowledge source for specific requirements and completion

Mathematics/Statistics

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 or ENGL 10800		3-4	Computing Option(rec. CS 17700 & meets 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	General Education I Option		3	STAT 35000 Introduction To Statistics	Calculus II C- or higher
3-4	Language III/Culture/Diversity Option	See Course Info	3-6	Technical Writing Option and Technical Presenting Option (COM 21700)	
3	Free Elective (MA 30100)	Calculus II C- or higher	3-6	Free Elective	
2	Free Elective				
15-17			15		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	MA 34100 Foundations Of Analysis or MA 44000 Real Analysis Honors	Calculus III C- or higher	3	Advance Calculus Selective	Varies by Class
3	MA/STAT 41600 Probability(or STAT 51600)	Calculus III C- or higher	3	STAT 41700 Statistical Theory (or STAT 51700)	STAT 41600 C- or higher
3-4	Laboratory Science I Option		3-4	Laboratory Science II Option	Lab Sci Option I
3	Free Elective		3	Great Issues Option	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 C- or higher
3	STAT 51200 Applied Regression Analysis	STAT 35000 C- or higher	3	STAT Selective	Varies by Class
3	General Education II Option		3	General Education III Option	
0-3	Multidisciplinary Experience		6	Free Elective	
3-6	Free Elective (Science, Technology & Society Selective Course)				
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/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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