

**Departmental/Program Major Courses (66-95 credits)**

**Required Major Courses (34-36 credits):** Average GPA in courses must be 2.00 excluding Calculus III Selective AND Average GPA in MA 44000, 44200, 45000, STAT 51600, or STAT 51700 must be 3.5 or higher – must take **three** of these five courses\*.

- \_\_\_\_\_ (4-5) Calculus III Selective – Select from MA 26100, MA 27101 (*satisfies Quantitative Reasoning for core*) **Grade of C or Better Required**
- \_\_\_\_\_ (3) MA 35100 Elementary Linear Algebra **Grade of C or Better Required**
- \_\_\_\_\_ (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) Advance 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 (32-59 credits)**

- \_\_\_\_\_ (4-5) Calculus I Selective – Select from MA 16100, MA 16500 (*satisfies Quantitative Reasoning for core*) **Grade of C or Better Required**
- \_\_\_\_\_ (4-5) Calculus II Selective – Select from MA 16200, MA 16600 (*satisfies Quantitative Reasoning for core*) **Grade of C or Better Required**
- \_\_\_\_\_ (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 (25-54 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"/>	_____			

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

**Degree Works is knowledge source for specific requirements and completion**


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**Statistics Honors**

[http://www.science.purdue.edu/Current\\_Students/majors/index.html](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
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	Teambuilding Experience	
4	Free Elective		3	Free Elective	
			2	Free Elective	
<b>15-18</b>			<b>15-18</b>		

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	3	Free Elective	
2	Free Elective		3	Free Elective	
<b>15-17</b>			<b>15</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	MA 34100 or <b>MA 44000*</b>	Calculus III	3	Advance Calculus Selective – <b>MA 44200*</b>	Varies by Class
3	MA/STAT 41600 or <b>STAT 51600*</b> 	Calculus III	3	STAT 41700 or <b>STAT 51700*</b>	STAT 41600
3-4	Laboratory Science I Selective		3-4	Laboratory Science II Selective	Lab Sci Selective I
3	Free Elective		3	Free Elective	
3	Free Elective		3	Free Elective	
<b>15-16</b>			<b>15-16</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	MA 35300 Linear Algebra II With Applications	MA 35100	3-4	Advanced MA Selective – <b>MA 45000*</b>	Varies by Class
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		3	Free Elective	
3-6	Free Elective/ Science, Technology & Society Selective Course		3	Great Issues Selective	Jr/Sr Standing; may require COM or ENGL
<b>15-18</b>			<b>15-16</b>		

 Identified as a critical course. Student should earn minimum of a C.  
 Students must earn a 2.0 average in MATH/STAT/IE courses required for major AND Average GPA in MA 44000, 44200, 45000, STAT 51600, or STAT 41700 must be 3.5 or higher – must take **three** of these five courses\*. Calculus I, II, III and MA 35100 must have a grade of C or higher.

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

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**Degree Works is knowledge source for specific requirements and completion**

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