

**Departmental/Program Major Courses (67-95 credits)**

**Required Major Courses (32-33 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
- \_\_\_\_\_ (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) Advanced Calculus Selective: MA 36200 Topics In Vector Calculus/MA 44200 - Multivariate Analysis I Honors/MA 51000 - Vector Calculus
- \_\_\_\_\_ (3) MA 45300 - Elements Of Algebra I or MA 45000 - Algebra Honors
- \_\_\_\_\_ (3) MA Selective - [LINK](#)
- \_\_\_\_\_ (3) MA Selective - [LINK](#)
- \_\_\_\_\_ (3) MA Selective - [LINK](#)

**Other Departmental /Program Course Requirements (35-62 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*)
- \_\_\_\_\_ (3) STAT 35000 Introduction To Statistics
- \_\_\_\_\_ (3-4) Computing Selective [LINK](#)
- \_\_\_\_\_ (0) Teambuilding Experience [LINK](#)
- \_\_\_\_\_ (0-3) Multidisciplinary Experience [LINK](#) (*Select courses COULD satisfies 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"/>	


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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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**Core Mathematics**[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
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	Teamwork Experience	
3	Free Elective		2	Free Elective	
			3	Free Elective	
<b>15-17</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
3-4	Laboratory Science I Selective		3	STAT 35000 Introduction To Statistics	Calculus II
3-4	Language Selective III	See Course Info	3-4	Laboratory Science II Selective	Lab Sci Selective I
3	Free Elective MA 30100	Calculus II	3	COM 21700 Science Writing & Presentation	
2	Free Elective		3	Free Elective	
<b>15-18</b>			<b>15-16</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
4	MA 36600 Ordinary Differential Equations	Calculus III; co-req or pre MA 35100	3	MA 35300 Linear Algebra II With Applications	MA 35100
3	MA 34100 or MA 44000	Calculus III	3	Advance Calculus Selective	Varies by Class
3	General Education I Selective		3	General Education II Selective	
3	Free Elective		3	Free Elective	
2	Free Elective		3	Free Elective	
<b>15</b>			<b>15</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	MA 45300 or MA 45000	MA 35100	3	Math Selective	Varies by Class
3	MA Selective	Varies by Class	3	Math Selective	Varies by Class
0-4	Multidisciplinary Experience		3	Great Issues Selective	Jr/Sr Standing; may require COM or ENGL
3	General Education III Selective		3	Free Elective	
3-6	Free Elective/ Science, Technology & Society Selective Course		3	Free Elective	
<b>15-18</b>			<b>15</b>		

 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.**

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