

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, CS, STAT Selective – CS 52000 Computational Methods In Optimization/ MA 34100 Foundations Of Analysis or MA 44000 Real Analysis Honors/MA 52300 Introduction To Partial Differential Equations/MA 54300 Introduction To The Theory Of Ordinary Differential Equations/STAT 42000 - Introduction To Time Series
- _____ (3) MA 35300 Linear Algebra II With Applications
- _____ (3) Advance Calculus Selective: 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 or STAT 41600 – Probability or STAT 51600 - Basic Probability And Applications
- _____ (3) STAT 41700 - Statistical Theory or STAT 51700 - Statistical Inference
- _____ (3) MAOR Math Selective: MA 37500 - Introduction To Discrete Mathematics /MA 42100 - Linear Programming And Optimization Techniques or MA 52100- Introduction To Optimization Problems /IE 33500 - Operations Research - Optimization

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](#) (*Select courses COULD satisfies Science, Technology, and Society Selective for core*)
- _____ (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

Operations Research Mathematics

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		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/STAT 41600	Calculus III
3	STAT 35000	Calculus II	3	MA 35100 	Calculus III
3-4	Language Selective III	See Course Info	3	General Education Selective I	
3	Free Elective MA 30100	Calculus II	3	COM 21700	
2	Free Elective		3	Free Elective	
15-17			15		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	STAT 41700	STAT 41600	3	Advance Calculus Selective	Varies by Class
3	MA, CS, STAT Selective	Varies by Class	3	CS 31400	CS Programming and MA 35100
3-4	Laboratory Science Selective I		3-4	Laboratory Science Selective II	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	MA 35300	MA 35100	3	MAOR Math Selective	Varies by Class
3	MA 45300 or MA 45000	MA 35100	4	MA 36600	Calculus III; co-req or pre MA 35100
3	General Education Selective		3	General Education Selective II	
0-4	Multidisciplinary Experience		3	Free Elective	
3-6	Free Elective		2	Free Elective	
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/CS/IE 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.

Degree Works is knowledge source for specific requirements and completion
