

Departmental/Program Major Courses (70-98 credits)

Req	quired Major Courses (35-36 credits): Average GPA in	courses must be 2.00 excluding	Calculus III Selective					
(4-5)	Calculus III Selective – Select from MA 26100, MA 27101	1 (satisfies Quantitative Reasoning fo	r core)					
(3)	MA 35100 Elementary Linear Algebra							
(4)	MA 36600 Ordinary Differential Equations							
(3)	MA, CS, STAT Selective – CS 52000 Computational Meth	ods In Optimization/ MA 34100 Fo	oundations Of Analysis or MA					
` ,	44000 Real Analysis Honors/MA 52300 Introduction To							
	Theory Of Ordinary Differential Equations/STAT 42000 -	· · · · · · · · · · · · · · · · · · ·						
(3)	MA 35300 Linear Algebra II With Applications							
(3)	Advanced Calculus Selective: MA 36200 Topics In Vector Calcu	ılus/MA 44200 - Multivariate Analysis I Hor	nors/MA 51000 - Vector Calculus					
(3)	CS 31400 Numerical Methods							
(3)	MA 45300 - Elements Of Algebra I or MA 45000 - Algebr	ra Honors						
	Probability/Discrete Mathematics Selective: MA or STA	T 41600 - Probability, STAT 51600	- Basic Probability And					
(3)	Applications, or MA 37500 - Introduction To Discrete Mather	matics						
(3)	STAT 41700 - Statistical Theory or STAT 51700 - Statistic	al Inference						
(3)	MAOR Math Selective: MA 42100 - Linear Programming An 52100- Introduction To Optimization Problems/IE 33500 - Ope		oring semester of odd years] or MA					
Oth	ner Departmental /Program Course Requirements (35-62 credits)						
(4-5)	Calculus I Selective – Select from MA 16100, MA 16500) (satisfies Quantitative Reasoning	g for core) 🟲					
(4-5)	Calculus II Selective – Select from MA 16200, MA 1660							
(3-4)	ENGL 10600 or ENGL 10800 - (satisfies Written Commi		-					
(0-4)	Language I Selective –LINK	·						
(0-4)	Language II Selective – <u>LINK</u>							
(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 COUL	Technical Writing Selective LINK (Select courses COULD satisfy Oral Communication for core)						
(0-3)	Technical Presenting Selective LINK (Select courses CO	ULD satisfy Oral Communication f	for core)					
(3-4)	Laboratory Science I Selective LINK (satisfies Science S	Selective for core)						
(3-4)	Laboratory Science II Selective LINK (satisfies Science S	Selective for core)						
(3)	General Education I Selective LINK (Select courses COU	ILD satisfy Human Culture Behavio	oral/Social Science for core)					
(3)	General Education II Selective LINK (Select courses COUL	D satisfy Human Culture Behavioral/S	Social Science for core)					
(3)	General Education III Selective LINK (Select courses COUL	LD 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 <u>LINK</u>							
	(22-50 credits)							
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University Co	ore Requirements <u>LINK</u>							
Human Cultures Hu	umanities 🗆 So	cience, Technology & Society Selective						
Human Cultures Be	ehavioral/Social Science \Box W	Vritten Communication						
Information Literac	cy 🗆 O	ral Communication						
Science Selective		luantitative Reasoning						
Science Selective								
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	The student is ultimately responsible for know							

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 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	Probability/Discrete Mathematics Selective	Calculus III
3	STAT 35000 Introduction To Statistics	Calculus II	3	MA 35100 Elementary Linear Algebra	Calculus III
3-4	Language Selective III	See Course Info	3	General Education I Selective	
3	Free Elective MA 30100	Calculus II	3	COM 21700 Science Writing & Presentation	
2	Free Elective		3	Free Elective	
15-17			15		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	STAT 41700 Statistical Theory	STAT 41600	3	Advance Calculus Selective	Varies by Class
3	MA, CS, STAT Selective	Varies by Class	3	CS 31400/MA 51400 Numerical Methods	CS Programming and MA 35100
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	
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15-16		·	15-16		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	MA 35300 Linear Algebra II With Applications	MA 35100	3	MAOR Math Selective	Varies by Class
3	MA 45300 or MA 45000	MA 35100	4	MA 36600 Ordinary Differential Equations	Calculus III; co-req or pre MA 35100
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		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