

Departmental/Program Major Courses (79-102 credits)

Required Major Courses (43-46 credits): Average GPA in courses must be 2.00

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	(4-5)	Calculus I Selective – Select from MA 16100, MA 1650	0 (satisfies Quantitative Reasoning	for core) 🟲				
	(4-5)	Calculus II Selective – Select from MA 16200, MA 1660	00, MA 17300, MA 18100 (satisfies Q	uantitative Reasoning for core)				
	(4-5)	Calculus III Selective – Select from MA 26100, MA 174	00, MA 18200, MA 27100 (satisfies C	Quantitative Reasoning for core)				
	(3)	MA 35100 Elementary Linear Algebra						
	(3)	MA 37500 Introduction To Discrete Mathematics						
	(4)	MA 36600 Ordinary Differential Equations						
	(3)	CS 24000 Programming In C						
	(6)	MACS Math Selective: MA 35300 - Linear Algebra II W Elements Of Algebra I or MA 45000 - Algebra Honors	/ith Applications/MA 38500 - Introd	uction To Logic / MA 45300 -				
	(3)	CS 25100 Data Structures And Algorithms						
	(3)	CS 31400 Numerical Methods						
	(3)	MA/STAT Selective: MA 34100 - Foundations Of Analysis/I 42100 - Linear Programming And Optimization Techniques/I Differential Geometry/STAT 42000 – Introduction to Time Se 44000 - Real Analysis Honors/MA 44200 - Multivariate Analy	MA 42500 - Elements Of Complex Analy eries/MA 45300 - Elements Of Algebra I	sis/MA 46200 - Elementary or MA 45000 - Algebra Honors/MA				
	(3)	CS Selective: CS 38100 - Introduction To The Analysis Of Al						
	,	Introduction To The Theory Of Computation/CS 51400 - Nun Computational Methods In Optimization						
	Oth	er Departmental /Program Course Requirements	(36-56 credits)					
	(3-4)	ENGL 10600 or ENGL 10800 - (satisfies Written Comm	-	v for core)				
	(3-4)	3-4) Language I Selective – <u>LINK</u>						
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	(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 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)							
	(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						
	(3)	General Education Selective LINK (Select courses COL		ral/Social Science for core)				
	(3)	General Education I Selective LINK (Select courses COU						
	(3)	General Education II Selective LINK (Select courses COU						
	(3)	STAT 35000 Introduction To Statistics						
	(3-4)	Computing Selective LINK						
	(0-3)	Teambuilding Experience LINK						
	(0-4)	Multidisciplinary Experience LINK (Select courses COU	LD satisfies Science. Technology. an	d Society Selective for core)				
	(3)	Great Issues Selective LINK						
	(3)	oreactionaction of the control of th						
Ele	ectives ((18-41 credits)						
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Univ	ersity (ore Requirements <mark>LINK</mark>	•••••					
Human C	ultures Hu	manities \square	Science, Technology & Society Selective					
Human C	ultures Be	havioral/Social Science	Written Communication					
Informati	on Literac		Oral Communication					
Science S	elective		Quantitative Reasoning					
Science S	elective							
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Degree Works is knowledge source for specific requirements and completion

Mathematics with Computer Science

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		4	CS 18000	
3-4	Language I Selective		3-4	Language II Selective	Language 10100
1	Free Elective MA 10800		0	Teambuilding Experience	
4	Free Elective CS 17700		3	Free Elective	
			1	Free Elective	
15-18			15-17		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4-5	Calculus III Selective	Calculus II	3	MA 35100	Calculus III
3	STAT 3500	Calculus II	3	MA 37500	Calculus III
3-4	Language Selective III	See Course Info	3	COM 21700	
3	General Education Selective I		3	General Education Selective II	
2	Free Elective		3	Free Elective	
15-17			15		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
		Calculus III; co-			
4	MA 36600	req or pre MA	3	MACS Math Selective	Varies by Class
		35100			
3	CS 24000	CS 18000	3	CS 25100	CS 24000
3-4	Laboratory Science Selective I		3-4	Laboratory Science Selective II	Lab Sci Selective I
3	Free Elective		6	Free Elective	
2	Free Elective				
15-16			15-16		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	CS 31400	CS Programming and MA 35100	3	MA/STAT Selective	Varies by Class
3	MA Selective I	Varies by Class	3	CS Selective	Varies by Class
3	General Education Selective		0-4	Multidisciplinary	
6	Free Elective		3	Great Issues Selective	Jr/Sr Standing; may require COM or ENGL
			3-6	Free Elective	
15			15-18		

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.

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

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