

Bachelor of Science in Computer Science 2016-2018 Catalog

Student: _____

ID#: _____

Advisor: _____

DATE: ____/____/____



Credit Hour Breakdown	
Hours completed	
Hours in progress	
Core hours needed	
Major hours needed	
(Minor hours needed)	
(Other hours needed)	
Elective hours needed	
TOTAL HOURS (126+)	

Overall Requirements to Graduate

- 126+ semester hours
- Completion of core curriculum
- Completion of a major
- 36 upper division credit hours
- GPA above 2.0
- Major GPA above 2.0
- Minor/Program complete (optional)

Core Curriculum (46 hours)			Complete	Needed		
Theology (9 credit hours) Must take in order. (Pre-req: Phil 1311 or 1315/3315) <ul style="list-style-type: none"> <input type="checkbox"/> THEO 1301/3301 Intro to Sacred Scriptures <input type="checkbox"/> THEO 2301/3311 Teachings of the Catholic Church <input type="checkbox"/> THEO 3349 Christ and the Moral Life (Phil 2314 or 2316/3316) 		Students with 30-59 transfer hrs: 6-9 hours THEO 6-9 hours PHIL 3 hours Synthesis <i>(18 hours total)</i>	Students with 60+ transfer hrs: 6 hours THEO 6 hours PHIL NO synthesis <i>(12 hours total)</i>			
Philosophy (9 credit hours) Choose one sequence:						
<u>Systematic Sequence (must take in order)</u> <ul style="list-style-type: none"> <input type="checkbox"/> PHIL 1311 Philosophy of the Human Person <input type="checkbox"/> PHIL 2314 Ethics <input type="checkbox"/> PHIL 3313 Metaphysics 		<u>Historical Sequence (must take in order)</u> <ul style="list-style-type: none"> <input type="checkbox"/> PHIL 1315/3315 Ancient Philosophy <input type="checkbox"/> PHIL 2316/3316 Medieval Philosophy <input type="checkbox"/> PHIL 3317 – Modern Philosophy 				
Synthesis Course (3 credit Hours) Choose one synthesis course from the Synthesis Course List.						
English (9 credit hours)* Must take in order.						
<ul style="list-style-type: none"> <input type="checkbox"/> ENGL 1341 The Classical Tradition: Literature & Composition I <input type="checkbox"/> ENGL 1342 The Middle Ages: Literature & Composition II <input type="checkbox"/> ENGL 2312 The Modern World: Literature & Composition III 		*Students with transfer credit: 3 transfer credits: <i>Take 1341/1342 (left)</i> 6 transfer credits: <i>Take ENGL 3312 (below)</i> <input type="checkbox"/> ENGL 3312 <i>Perspectives in World Lit.</i>				
History (6 credit hours) Choose one pair of courses:						
<u>World History</u> <ul style="list-style-type: none"> <input type="checkbox"/> HIST 1335 World Community I <input type="checkbox"/> HIST 1336 World Community II 		<u>U.S. History</u> <ul style="list-style-type: none"> <input type="checkbox"/> HIST 2333 U.S. History to 1877 <input type="checkbox"/> HIST 2334 U.S. History since 1877 				
Social and Behavioral Sciences (6 credit hours) Choose one option:						
<u>Social and Behavioral Sciences Option</u> <ul style="list-style-type: none"> <input type="checkbox"/> Choose two courses from the Social and Behavioral Sciences Core course list. 		<u>Social and Behavioral Sciences + Oral Communication Option</u> <ul style="list-style-type: none"> <input type="checkbox"/> Choose one course from the Social & Behavioral Sciences Core course list. <input type="checkbox"/> Choose one course from the Communication Core Course list. 				
Natural Sciences (8-10 credit hours) Choose one option:						
<u>Natural Sciences Option (8 credit hours)</u> <ul style="list-style-type: none"> <input type="checkbox"/> Choose two lecture/laboratory courses from the Natural Sciences Core course list. 		<u>Natural Sciences + Modern and Classical Language Option (10 credit hours)</u> <ul style="list-style-type: none"> <input type="checkbox"/> Choose one lecture/laboratory course from the Natural Sciences Core course list. <input type="checkbox"/> Choose two sequential courses in a language. Courses must be completed in order 				(Included in major)
Mathematics (3 credit hours) <ul style="list-style-type: none"> <input type="checkbox"/> Choose one course from the Mathematics Core Course list. 						(Included in major)
Fine Arts (3 credit hours) <ul style="list-style-type: none"> <input type="checkbox"/> Choose one course from the Fine Arts Core Course list. 						
Freshman Symposium (1 credit hour) Required for all incoming freshmen.						
<ul style="list-style-type: none"> <input type="checkbox"/> UNIV 1111 Freshman Symposium 						

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Major Requirements (64 credit hours)		Completed	Needed
Computer Science (28 credit hours)			
<input type="checkbox"/> COMSC 1450 – Introduction to Programming and Computer Science <input type="checkbox"/> COMSC 1351 – Object Oriented Programming (pre-req MATH 1431, COMSC 1450) <input type="checkbox"/> COMSC 2351 – Data Structures (pre-req COMSC 1351) <input type="checkbox"/> COMSC 3365 – Computer Organization and Programming Languages (pre-req COMSC 1351) <input type="checkbox"/> COMSC 3375 – Database Systems (pre-req COMSC 1351) <input type="checkbox"/> COMSC 3385 – Computer and Network Architecture (pre-req COMSC 1351) <input type="checkbox"/> COMSC 4320 – Operating Systems (pre-req COMSC 3385) <input type="checkbox"/> COMSC 4330 – Human and Social Factors (pre-req COMSC 2351) <input type="checkbox"/> COMSC 4350 – Software Project Management [Capstone] (pre-req Senior Standing)			
Additional Upper-Division Course (3 credit hours):			
<input type="checkbox"/> COMSC 4393 – Special topics (with approval of Department Chair)			
Mathematics (25 credit hours)			
<input type="checkbox"/> MATH 1431 – Calculus I <input type="checkbox"/> MATH 1432 – Calculus II (MATH 1431 with a grade of C or better) <input type="checkbox"/> MATH 2431 – Calculus III (MATH 1432 with a grade of C or better) <input type="checkbox"/> MATH 3334 – Linear Algebra I (MATH 1432) <input type="checkbox"/> MATH 3335 – A First Course in Probability (MATH 1432) <input type="checkbox"/> MATH 3360 – Discrete Mathematics (MATH 1431) <input type="checkbox"/> MATH 3450/1050 – Biostatistics I (pre-req six credit hours in natural science or mathematics)			
Physics or Chemistry (8 credit hours) Choose one pair of classes.			
<input type="checkbox"/> PHYS 2333/2111 University Physics I w/ lab (MATH 1431) <input type="checkbox"/> PHYS 2334/2112 – University Physics II w/ lab (MATH 1432, PHYS 2333)	<input type="checkbox"/> CHEM 1341/1141 General Chemistry I w/ lab <input type="checkbox"/> CHEM 1342/1142 General Chemistry II w/lab		

Electives		Completed	Needed
Electives to reach the 126 hour minimum to graduate (16 credit hours)			
<div style="border: 1px solid black; height: 100px; width: 100%;"></div>			
One additional course completes a Mathematics minor: (optional) <input type="checkbox"/> MATH 2343 – Differential Equations			

Totals		Completed	Needed
Total undergraduate hours (126 minimum):			

MINIMUM TOTAL: 126+