

# Concord University

## Bachelor of Science - Computer Science/Mathematics

Name: \_\_\_\_\_

Spring 2017 Catalog

120 hours minimum for graduation with a 2.00 average overall  
56 hours from a four-year institution

Course	Title	CR	GR	QP
Written and Oral Communications (9 credit hours) Select one course from BGEN 205 or COMM 101				
ENGL 101	Composition & Rhetoric I	3		
ENGL 102	Composition & Rhetoric II	3		
		3		
Literature and Humanities (6 credit hours) Select one (1) course from Literature and one (1) course from History and Philosophy. *May be repeated for 3 credit hours.				
	<b>ENGL</b> 203, 204, *203A, *204A or *207A	3		
	<b>HIST</b> 101, 102, 203, 204, <b>PHIL</b> 101, 102, 316, or 360	3		
Fine Arts– (3 credit hours) Select one (1) course from the following:				
	<b>ART</b> 101, 103, 105, 106, 204, 205, 216, 303, 304, 308, <b>MUS</b> 101, *451, *453A, or <b>THEA</b> 102	3		
Social and Behavioral Sciences (9 credit hours) Select one (1) course from three different categories.				
	<b>Category 1 - Business and Professional Studies</b> BGEN 105, ECON 201, ECON 202, FIN 200, RTM 100 or SOWK 161	3		
	<b>Category 2 - Geography</b> GEOG 101, 250 or 321	3		
	<b>Category 3 - Political Science</b> POSC 101, 104, or 202			
	<b>Category 4 - Psychology</b> PSY 101 or 200			
	<b>Category 5 – Sociology</b> SOC 101, 201, or 301			
Natural Sciences (7-8 credit hours) Select one (1) course from two different categories.				
	<b>Category 1-Biological Science</b> BIOL 101, 102 or 103	4		
	<b>Category 2-Earth &amp; Space Science</b> GEOL 101, GEOL 150, GEOG 200, PHSC 104, or PHYS 105	3-4		
	<b>Category 3-Physical Science</b> CHEM 100, CHEM 101/111, PHSC 103, PHYS 101, or PHYS 201			
Mathematics (3 credit hours) Select one (1) Mathematics course numbered 100 or higher.				
		3		
Physical Wellness (2 credit hours) Select one or more courses listed below for a total of at least two hours.				
	<b>H ED</b> 120, 304, <b>P ED</b> 101M, 117, 118, or <b>RTM</b> 360	2		
Modern/Classical Language – (Required 6 credit hours) Select two courses within the same Modern/Classical Language for substitution purposes.				
	May not substitute Modern Language for ENGL 101, ENGL 102, the 3 hour Mathematics requirement or the 4-hour lab science requirement.			

Computer Science/Mathematics (2.00 GPA required)				
NOTE: MATH 101, MATH 305, or MATH 414 cannot be used to meet GPA requirements.				
CS 201	Intro. to Computer Programming I	3		
CS 202	Intro. to Computer Programming II	3		
CS 215	Web Development	3		
CS 240	Mobile Development	3		
CS 271	Computer Organization & Hardware	3		
CS 355	Data Structures	3		
CS 356	Database Management	3		
CS 361	Operating Systems	3		
CS 362	Programming Languages & Translators	3		
CS 410	Software Engineering	3		
CS 445	Distributed Processing & Networks	3		
CS 491	Senior Project	3		
MATH 103	College Algebra	3		
MATH 104	College Trigonometry	3		
MATH 220	Discrete Mathematics	3		
MATH 250	Calculus w/Analytic Geometry I	4		
MATH 251	Calculus w/Analytic Geometry II	4		
MATH 252	Calculus w/Analytic Geometry III	4		
MATH 307	Abstract Algebra I	3		
MATH 320	Applied Linear Algebra	3		
MATH 460	Numerical Analysis	3		
PHYS 101 OR PHYS 201	Introductory Physics OR University Physics w/ Calculus Pt.1	4		
PHYS 102 OR PHYS 202	Intermediate Physics OR University Physics w/ Calculus Pt.2	4		
PHYS 319	Digital Electronics*	2		

MATH 103 and/or 104 may be waived for students establishing proficiency.

### RECOMMENDED: SIX HOURS OF STATISTICS

### RESIDENCE CREDIT:

36 hours at Concord

16 of last 32 hours at Concord

Note: In some degree programs, this is prior to entering professional training.

9 hours in Major, Teaching Fields

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