

**Concord University**  
**Bachelor of Science - Computer Information Systems**  
*Registrar's Office Official Document*

2022-2023 Catalog

**Name:** \_\_\_\_\_  
 120 hours minimum for graduation with a 2.00 average overall  
 56 hours from a four-year institution

Course	Title	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	
COMM 101 Or BGEN 205	Fundamentals of Speech Or Fundamentals of Business Communication	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 or 204	3	
	<b>HIST</b> 101, 102, 203, 204, <b>PHIL</b> 101, 308, 316, or 361	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 203, ECON 204, FIN 200, HSP 100 or SOWK 161	3	
	<b>Category 2 - Geography</b> GEOG 101 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, 121, or 122	4	
	<b>Category 2-Earth &amp; Space Science</b> GEOL 101, GEOL 140 or 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.			
MATH 103		3	See Major
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 or 118	2-3	
Modern/Classical Language – (Optional 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.		

<b>Computer Information Systems (minimum 2.00 GPA required)</b>			
<b>Core Requirements (50-56 Credit Hours)</b>			
<b>Computer Science (40 credit hours)</b>			
CS 151	Introduction to Computer Science	3	
CS 221	Computer Networking	3	
CS 232	Introduction to Computer Security	3	
CS 252	Data Structures & Object Oriented Programming	3	
CS 253	Software Engineering	3	
CS 272	Human Centered Design	3	
CS 281	Linux System Administration	3	
CS 282	Database & Information Management	3	
CS 283	Data Analytics	3	
CS 325	Computer Organization & Hardware	3	
CS 351	Web Development	3	
CS 381	Systems Analysis & Design	3	
CS 456	Capstone Project 1	2	
CS 457	Capstone Project 2	2	
<b>Mathematics (14-16 credit hours)</b>			
MATH 103/103C* and MATH 104* or MATH 107*	College Algebra and College Trigonometry or Precalculus	4-6	
MATH 105/MATH 105C	Elementary Statistics	3	
MATH 219	Discrete Mathematics	3	
MATH 253	Calculus with Analytic Geometry I	4	
<b>1. Accounting and Control Track (18 Credit Hours) (optional)</b>			
ACCT 205	Principles of Accounting I	3	
ACCT 206	Principles of Accounting II	3	
ACCT 318	Cost Accounting	3	
ACCT 415	Accounting Information Systems	3	
BGEN 222	Business Productivity Software	3	
FIN 311	Principles of Managerial Finance	3	
<b>2. Geospatial Science Track (18-20 Credit Hours) (optional)</b>			
GEOG 101	Humans and the Environment	3	
GEOG 200	Digital Earth	3	
GEOG 311	GIS and Cartography	3	
GEOG 411	GIS Design and Application	3	
GEOG 412	Public Health GIS	3	
<b>Choose two courses from the following:</b>			
	<ul style="list-style-type: none"> <li>• GEOL 210 Natural Disasters (3)</li> <li>• GEOL 310 Soil, Water, and Land Use (4)</li> <li>• GEOL 312 Climatology (4)</li> <li>• GEOL 315 Biogeography &amp; Environmental Change (4)</li> <li>• 420 Special Topics: Geology or Environmental Science (1-4)</li> </ul>	3-4	
		4	

**Concord University**  
**Bachelor of Science - Computer Information Systems**  
*Registrar's Office Official Document*

<b>3. Informational Technology Track (18 Credit Hours) (optional)</b>			
CS 332	Network Security	3	
CS 374	Introduction to Simulation and Modeling	3	
CS 384	DevOps	3	
<b>Choose three courses from the following:</b>			
	<ul style="list-style-type: none"> <li>• BGEN 202 Decision Sciences I (3)</li> <li>• BGEN 222 Business Productivity Software (3)</li> <li>• BGEN 311 Management Information Systems (3)</li> <li>• BGEN 335 Decision Sciences II (3)</li> </ul>	3	
	<ul style="list-style-type: none"> <li>• CS 261 Introduction to Intelligent Systems (3)</li> <li>• CS 331 Digital Forensics and Incident Response (3)</li> <li>• CS 333 Secure Coding (3)</li> <li>• CS 352 Mobile Development (3)</li> <li>• CS 357 Parallel and Distributed Computing (3)</li> </ul>	3	
	<ul style="list-style-type: none"> <li>• GEOG 311 GIS and Cartography (3)</li> <li>• GEOG 411 GIS Design and Application (3)</li> </ul>	3	

<b>4. Management Track (18 Credit Hours) (optional)</b>			
BGEN 202	Decision Sciences I	3	
BGEN 222	Business Productivity Software	3	
BGEN 311	Management Information Systems	3	
BGEN 335	Decisions Sciences II	3	
MGT 305	Principles of Management	3	
MGT 441	Operations Management	3	
<b>5. Web Track (18 Credit Hours) (optional)</b>			
ART 103	Drawing I	3	
ART 105	Design I	3	
ART 106	Basic Computer Graphics	3	
ART 202	Design II	3	
ART 223	Typography	3	
ART 361	Web Design	3	

Note: In some degree programs, this is prior to entering professional training. 9 hours in Major, Teaching Field

\*Math 103 and/or 104 and/or MATH 107 may be waived for students establishing equivalent proficiency as defined by the Department of Mathematics.

**Residence Credit**  
36 hours at Concord  
16 of last 32 hours at Concord

**TOTAL MINIMUM REQUIRED CREDITS: 120**  
**GENERAL EDUCATION CREDITS: 39-41**  
**ELECTIVE CREDITS: 22-24**