

Concord University
Bachelor of Science in Data Analytics
Registrar's Office Official Document

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

2024-2025 Catalog

Course	Title	HRS	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.				
	ENGL 203 or 204	3		
	HIST 101, 102, 203, 204, PHIL 101, 308, 316, or 361	3		
Fine Arts– (3 credit hours) Select one (1) course from the following:				
	ART 101, 103, 105, 106, 204, 205, 216, 303, 304, 308, MUS 101, *451, *453A, or THEA 102	3		
Social and Behavioral Sciences (9 credit hours) Select one (1) course from three different categories.				
	Category 1 - Business and Professional Studies BGEN 105, ECON 203, ECON 204, FIN 200, HSP 100 or SOWK 161	3		
	Category 2 - Geography GEOG 101 or 221	3		
	Category 3 - Political Science POSC 101, 104, or 202	3		
	Category 4 - Psychology PSY 101 or 200			
	Category 5 - Sociology SOC 101, 201, or 301			
Natural Sciences (7-8 credit hours) Select one (1) course from two different categories.				
	Category 1-Biological Science BIOL 101, 102, 121, or 122	4		
	Category 2-Earth & Space Science GEOL 101, GEOL 140 or 150, GEOG 200, PHSC 104, or PHYS 105	3-4		
	Category 3-Physical Science 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	College Algebra	3		See Major
Physical Wellness (2 credit hours) Select one or more courses listed below for a total of at least two hours.				
	H ED 120, 304, P ED 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.			

Core (2.00 GPA required) (40 credit hours)				
CS 151	Introduction to Computer Science	3		
CS 261	Introduction to Intelligent Systems	3		
CS 282	Database and Information Management	3		
CS 283	Introduction to Data Analytics	3		
CS 363	Data Governance	3		
CS 364	Data Visualization	3		
CS 365	Data Mining	3		
CS 456	Capstone Project I	2		
CS 457	Capstone Project II	2		
CS 465	Big Data	3		
MATH 103	College Algebra	3		
MATH 105 or BGEN 202	Elementary Statistics or Decision Sciences I	3		
MATH 205	Statistical Modeling	3		
MATH 174 or BGEN 335	Mathematical Modeling or Decision Science II	3		
BGEN 222	Business Productivity Software	3		

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

Students must select ONE of the elective concentrations on the following page:

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Accounting (15 credit hours)				
ACCT 205	Principles of Accounting I	3		
ACCT 206	Principles of Accounting II	3		
ACCT 316	Accounting & Business Data Analytics	3		
ACCT 318	Cost Accounting	3		
BGEN 311	Management Information Systems	3		

Finance (15 credit hours)				
ACCT 205	Principles of Accounting I	3		
FIN 311	Principles of Managerial Finance	3		
FIN 402	Financial Modeling in Excel	3		
FIN 407	Financial Institutions and Markets	3		
FIN 415	Intro. to Financial Technology	3		

Mathematics (16 credit hours)				
MATH 104	College Trigonometry	3		
MATH 219	Discrete Mathematics	3		
MATH 253	Calculus with Analytic Geometry I	4		
MATH 321	Applied Linear Algebra	3		
CS 374	Introduction to Simulation and Modeling	3		

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

Geospatial Science (16 credit hours)				
GEOG 200	Digital Earth	3		
GEGO 311	GIS and Cartography	3		
GEOG 411	GIS Design and Application	3		
GEOG 412	Public Health GIS	3		
GEOG 310 or GEOG 312 or GEOG 315	Soil, Water, and Land Use or Climatology or Biogeography and Environmental Change	4		

Interdisciplinary (15+ credit hours)				
Students are encouraged to work with their advisor to identify an area of emphasis in a discipline of their choice where data is collected and analyzed. These courses should add up to a minimum of 15 hours.				

TOTAL MINIMUM REQUIRED CREDITS: 120

PROGRAM REQUIRED CREDITS: 55-56

GENERAL EDUCATION CREDITS: 39-41

ELECTIVE CREDITS: 23-26