

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

2026-2027 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 GEO 100 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 GEO 101, GEO 140 or 150, GEO 200, | 3-4 | | |
| | PHSC 104, or PHYS 105 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. | | | | |
| | HS 120, 304, PED 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) (45 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 1 | 3 | | |
| CS 457 | Capstone Project 2 | 3 | | |
| 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 | | |

| Geospatial Science (16 credit hours) | | | | |
|---|---|---|--|--|
| GEO 100 | Humans and the Environment | 3 | | |
| GEO 101 | Earth Processes, Resources, and the Environment | 4 | | |
| GEO 200 | Digital Earth | 3 | | |
| GEO 311 | GIS and Cartography | 3 | | |
| GEO 411 | GIS Design and Application | 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 | | |

| 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. | | | | |
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| 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 | | |

TOTAL MINIMUM REQUIRED CREDITS: 120
PROGRAM REQUIRED CREDITS: 60-61
GENERAL EDUCATION CREDITS: 36-38
ELECTIVE CREDITS: 21-24

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