

Analytics and Data Science Major: Analytics Option (Bachelor of Science)

76 credits for major/128 credits for degree

Requirements for students entering 2018-2019

NAME: _____

ADVISOR: _____

Discovery Foundation Courses				
Description	Course	Source	Credits/Grade	Notes
First Year Writing (WS)				Must be taken within first 32 credits
Quantitative Reasoning (QR)				Must be taken within first 32 credits; MATH 425 is required for the major
Inquiry Requirement (INQ)				Must be INQ 444 or INQ Attribute Must be taken within first 25 credits
Discovery Courses				
Description	Course	Source	Credits/Grade	Notes
Biological Science (BS)				One of the two sciences (BS or PS) must include a lab
Physical Science (PS)				One of the two sciences (BS or PS) must include a lab
Environment, Technology & Society (ETS)				DATA 557 can be used to fulfil this category
Historical Perspectives (HP)				
World Culture (WC)				
Fine & Performing Arts (FPA)				
Social Science (SS)				
Humanities (HUMA)				
Writing Intensive Requirements				
Description	Course	Source	Credits/Grade	Notes
ENGL 401: First Year Writing				All undergraduates are required to complete 4 writing intensive (WI) courses, which must include ENGL 401 and three additional WI courses.
WI course in major				
600/700 WI course				
Other WI course				All students must have a total of 4 WI courses!

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Mathematics Courses (16 credits)			
Description	Source	Credits/Grade	
MATH 425: Calculus I			May be used to satisfy QR requirement
MATH 426: Calculus II			
Select one of the courses below:			
MATH 545: Introduction to Linear Algebra (WI)			
MATH 645: Linear Algebra for Applications			
MATH 739: Applied Regression Analysis (WI)			

Computer Science Courses (20 credits)			
Description	Source	Credits/Grade	Notes
COMP 425: Introduction to Programming			
COMP 430: Systems Fundamentals			
COMP 490: Statistics in Computing and Engineering			
COMP 520: Database Design and Development			
COMP 525: Data Structures Fundamentals			

Business Courses (12 Credits)			
Description	Source	Credits/Grade	Notes
BUS 400: Introduction to Business			
BUS 453: Leadership for Managers			
BUS 620: Organizational Behavior (WI)			

English Course (4 credits)			
Description	Source	Credits/Grade	Notes
ENGL 502: Professional and Technical Writing (WI)			

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Analytics Courses (20 credits)

Description	Source	Credits/Grade	Notes
DATA 557: Introduction to Data Science and Analytics			May be used to satisfy Discovery ETS requirement
DATA 674: Predictive and Prescriptive Analytics I			
DATA 675: Predictive and Prescriptive Analytics II			
DATA 757: Big Data			
DATA 790: Capstone Project			

Professional Development Courses (4 credits)

Description	Source	Credits/Grade	Notes
UMST 599: Special Topics			Must be related to internship and career planning
DATA 690: Internship Experience			

Program Notes:

- All students must have at least a 2.0 cumulative GPA in order to graduate.
- Senior Residency: students must complete their last 32 credits of the degree at UNH.
- Students may take any undergraduate courses as electives in order to earn a minimum of 128 credits.
- Courses applied to the major must be completed with a minimum grade of C-.
- A maximum of 32 transfer credits may be used in the major.