Hours

1-12

Hours

DATA SCIENCE, BACHELOR OF SCIENCE

Code	Title	Hours		
General Education/Requirements Area				
I. Communication				
English				
ENGL U101	Composition I	3		
ENGL U102	Composition II	3		
Speech				
SPCH U201	Foundations in Oral Communication	3		
II. Mathematics, Lo	ogic & Natural Sciences			
Mathematics				
MATH U141	Calculus I	4		
or MATH U142	Calculus II			
Natural Science (w/Lab)			
CHEM U111/ U111L	General Chemistry	4		
CHEM U112/ U112L	General Chemistry and Qualitative Analysis	4		
Additional Natural Science 3-4				
Any second natural science course wtih laboratory or BIOL U206, U240, U260, U270				
III. Information Tec	hnology			
CSCI U138	Introduction to Computer Technology	3		
or CSCI U150	Introduction to Computer Science			
IV. Fine Arts, Huma	nnities & History			
Fine Arts				
AFAM U204	African American Culture	3		
or ARTH U101	Introduction to Art			
or ARTH U105	History of Western Art: Prehistory - Middle Ages			
or ARTH U106	History of Western Art: Renaissance - Modern			
or MUSC U110	Introduction to Music			
or MUSC U140	History of American Popular Music			
or THEA U161	Introduction to Theatre Art			
or THEA U170	Fundamentals in Acting			
History				
HIST U101	Introduction to World History I	3		
or HIST U102	Introduction to World History II			
or HIST U105	History of the United States to 1877			
or HIST U106	History of the United States from 1865			
V. Foreign Languag	ge & Culture			
ASLG U101	American Sign Language I	3-4		
or CHIN U101	Introductory Chinese I			
or FREN U101	Introductory French I			
or GERM U101	Introductory German I			
or SPAN U101	Introductory Spanish I			
VI. Social & Behavi	oral Sciences			
AFAM U201	Introduction to African American Studies	3		
or ANTH U102	Understanding Other Cultures			
or ECON U221	Principles of Macroeconomics			

	or ECON U222	Principles of Microeconomics		
	or GEOG U101	The Upstate		
	or GEOG U103	Introduction to Geography		
	or POLI U101	American National Government		
	or POLI U200			
	or POLI U299			
	or PSYC U101	Introduction to Psychology		
	or SOCY U101	Introduction to Sociology		
	or WGST U101	Introduction to Women's & Gender Studies		

6 Cedits from any General Educatiion course or courses

VII. General Education Electives

General Education Electives			
Title	Hours 45		
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Computer Science II	3		
Computer Science III	3		
Database System Design	3		
Knowledge Discovery and Data Mining	3		
Introduction to Artificial Intelligence	3		
Statistical Methods I	3		
Linear Algebra I	3		
Statistical Methods II	3		
Introduction to Data Science with R	3		
Data Science I	3		
Data Science II	3		
Senior Seminar in Data Science	3		
Title	Hours		
Upper Level Electives or Minor ^{1, 2} 9-18			
Title	Hours		
Supporting Courses ¹ 9-10			
Elements of Discrete Mathematics	3		
	Title ints 1 Technical Writing Computer Science I Python Programming Computer Science II Computer Science III Database System Design Knowledge Discovery and Data Mining Introduction to Artificial Intelligence Statistical Methods I Linear Algebra I Statistical Methods II Introduction to Data Science with R Data Science I Data Science II Senior Seminar in Data Science Title ives or Minor 1, 2 Title ives 1		

A minimum grade of C is required in each course indicated.

Title

Title

Two approved 200-level or higher courses from MATH/STAT/CSCI/

BADM/ECON

Total Hours 120

Code

Code

Electives

Upper-Level Electives include 200 level or higher MATH/STAT/CSCI/
 Natural and Physical Science courses and any course accepted by the
 University as meeting the requirements of a cognate.