DATA SCIENCE, B.S.I.

B.S.I. Degree Requirements (Data Science Major)

Code	Title	Hours
Required Courses		
Minimum 124 semester hours to include the following:		
Distribution Lists		
Select 3 hours from each of the corresponding College of Arts & Sciences distribution lists.		
Research Writing - one course		3
Literature in Context - one course		3
Communication & Media Literacy - one course		3
Contemporary Social Issues - one course		3
Religion		
REL 1310	The Christian Scriptures	3
REL 1350	The Christian Heritage	3
Foreign Language and Culture		
Select 3 hours from the Foreign Language and Culture Distribution List for ECS Majors. Second-level proficiency must be reached if a foreign language is chosen.		3
Other Requirements		
PSC 1387	The U.S. Constitution, Its Interpretation, and the American Political Experience	3
PHI 1310	Computer Ethics	3
Chapel: Two Semesters		0
Lifetime Fitness: Any LF 11XX course		1
New Student Experience Course		1
Mathematics and Statistics		
MTH 1321	Calculus I	3
MTH 1322	Calculus II	3
MTH 2311	Linear Algebra	3
STA 3381	Probability and Statistics	3
STA 4373	Computational Methods in Statistics	3
Lab Sciences		
Select eight hours of corresponding lecture/labs from the following:		8
BIO 1305 & BIO 1105	Modern Concepts of Bioscience and Modern Concepts of Bioscience Laboratory	
BIO 1306 & BIO 1106	Modern Concepts of Bioscience, continued and Modern Concepts of Bioscience Laboratory	
CHE 1301 & CHE 1101	Basic Principles of Modern Chemistry I and General Chemistry Laboratory I	
CHE 1302 & CHE 1102	Basic Principles of Modern Chemistry II and General Chemistry Laboratory II	
GEO 1405	The Dynamic Earth	
GEO 1306 & GEO 1106	The Earth Through Time and The Earth Through Time, Laboratory	
PHY 1408	General Physics for Natural and Behavioral Sciences I	
or PHY 1420	General Physics I	
PHY 1409	General Physics for Natural and Behavioral Sciences II	
or PHY 1430	General Physics II	
Computer Science		
CSI 1401	Introduction to Programming I	4
CSI 1402	Introduction to Programming II	4
CSI 2300	Introduction to Data Science	3
CSI 3374	Software Project Management	3
A grade of "C" or better is required in all computer science hours counted toward major.		
Data Science		
DSC 2334	Computing and Computer Fundamentals	3
DSC 2350	Discrete Structures for Data Science	3
DSC 3310	Cloud Computing	3
DSC 3334	Algorithms and Data Structures	3
DSC 3335	Database Design and Applications for Data Science	3
DSC 3344	Analytics for Machine Learning	3
DSC 4310	Machine Learning	3
DSC 4320	Data Visualization	3
DSC 4354	Cybersecurity for Data Science	3
DSC 43C8	Big Data	3
DSC 43C9	Data Science Capstone	3
A grade of "C" or better is required in all Data Science hours counted toward major.		
Required Minor or Secondary Major		
Select 18-21 semester hours		18-21
Minors in Mathematics, Statistics, or Computer Science will not apply.		
Total Hours		**117-120**