



**Bachelor of Science in:
Data Science**
For Students Following the:
2022-2023 catalog

Name:
Student ID:
Catalog Year:

SUPPORT COURSES (3 Hours)				
Course	Pre-req	Credits	Term	Grade
PHI 310	Information Ethics	Sophomore Standing or Instructor Consent	3	

INFORMATICS CORE COURSES (9 Hours)				
Course	Pre-req	Credits	Term	Grade
INF 120	Elementary Programming (or placement)	MAT 102 or MAT 114 or placement	3	
INF 128	Principles of Informatics		3	
INF 286	Introduction to Web Development	MAT 103 & pre-req or co-req of INF 110 or INF 120 or CSC 260	3	

COMPUTER SCIENCE CORE COURSES (15 Hours)				
Course	Pre-req	Credits	Term	Grade
CSC 260	Object-Oriented Programming I	MAT 103 & INF 110 or INF 120 or CSC 270	3	
CSC 360	Object-Oriented Programming II	CSC 260 & MAT 119 (≥ B-)	3	
CSC 350	Database Programming	CSC 360	3	
CSC 364	Data Structures and Algorithms	CSC 360	3	
CSC 425	Artificial Intelligence	CSC 364 & STA 205, STA 205R or STA 250	3	

MATH AND STATISTICS COURSES (18 Hours)				
Course	Pre-req	Credits	Term	Grade
MAT 128	Calculus A	MAT 119 (≥ B-)	3	
MAT 227	Calculus B	MAT 128	3	
MAT 228	Calculus C	MAT 227	3	

OR

MAT 129	Calculus I	MAT 119 (≥ B-)	4	
MAT 229	Calculus II	MAT 129 or MAT 227	5	

AND

MAT 234	Linear Algebra	MAT 228 or MAT 229	3	
STA 250	Probability and Statistics I	MAT 129 or Co-req MAT 227	3	
STA 305	Intermediate Statistical Methods with R	STA 205 or STA 205R or STA 250	3	

DATA SCIENCE CORE COURSES (16-19 Hours)				
Course	Pre-req	Credits	Term	Grade
DSC 101	Introduction to Data Science		1	
DSC 200	Data Wrangling	INF 286, & STA 205 or STA 205R or STA 250 & introductory programming (e.g. INF 120 or CSC 260) & pre-req or co-req of DSC 101 or INF 282	3	
DSC 311	Data Analytics & Visualization	DSC 200 & STA 250	3	
DSC 411	Data Mining	DSC 311 & CSC 364 & STA 250	3	
DSC 421	Big Data	DSC 411 & pre-req or co-req of CSC 350	3	
DSC 496	Data Science Capstone	DSC 421 & co-req of BIO 292 or DSC 292	3	
BIO 292	Introduction to Research in Biology	Instructor Consent	0	
OR				
DSC 292	Introductory Research Experience in DSC	Department Consent	0 - 3	

Students will select ONE of the following application areas to fulfill their major requirements.

BUSINESS INFORMATION SYSTEMS APPLICATION AREA (15 Hours)				
Course	Pre-req	Credits	Term	Grade
BIS 275	Introduction to Business Analysis		3	

OFFICE USE ONLY
Approved Exceptions
Successful PHI 310 DSST

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Approved Exceptions
Successful INF 120 CPLE

Successful INF 286 CPLE

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Approved Exceptions
Successful CSC 260 CPLE
Successful CSC 360 CPLE

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Successful MAT 129 CLEP

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