



Bachelor of Science in: Data Science

For Students Following the:
2017-2018 catalog

Name & ID:
Catalog Year:

SUPPORT COURSES (21 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 341	Statistics II	STA 250	3	
ECO 201	Principles of Microeconomics	Completion of one college-level MAT course	3	

INFORMATICS CORE COURSES (9 Hours)

Course	Pre-req	Credits	Term	Grade
INF 120	Elementary Programming (or placement)	MAHD099	3	
INF 128	Principles of Informatics		3	
INF 282	Introduction to Databases	MAHD099 (C)	3	

BUSINESS INFORMATICS CORE COURSES (15 Hours)

Course	Pre-req	Credits	Term	Grade
BIS 275	Introduction to Business Analysis	3		
BIS 300	Management Information Systems	Junior standing; STA 212, STA 205 or STA 250 or BIS 275; & BIS 101 or equivalent transfer work or placement	3	
BIS 330	IT Project Management	BIS 275 or BIS 300	3	
BIS 384	Business Analytics	BIS 380 or DSC 311	3	
BIS 430	Workflow Design and Management	Declared BIS minor or certified business major or College of Informatics major	3	

COMPUTER SCIENCE CORE COURSES (15 Hours)

Course	Pre-req	Credits	Term	Grade
CSC 260	Object-Oriented Programming I	MAT 109 & INF 110 or INF 120	3	
CSC 360	Object-Oriented Programming II	CSC 260 & MAT 119 (B-)	3	
CSC 364	Data Structures and Algorithms	CSC 360	3	
CSC 450	Database Management Systems	CSC 360 & INF 282	3	
CSC 3xx - 4xx	(Guided Elective)	Variable	3	

DATA SCIENCE CORE COURSES (16 Hours)

Course	Pre-req	Credits	Term	Grade
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OFFICE USE ONLY
Approved Exceptions

Successful MAT 129 CLEP Exam

Successful ECO 201 CLEP Exam

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Successful INF 120 CPLE

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Successful BIS 300 DSST Exam

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Successful CSC 260 CPLE

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DSC 101	Introductation to Data Science	Declared DSC Major	1
DSC 311	Data Analytics	STA 250 & BIS 305, CIT 383, CSC 260, CSC 270, EGT 267, or STA 360	3
DSC 321	Data Visualization	DSC 311	3
DSC 411	Data Mining	CSC 364 & STA 250	3
DSC 421	Big Data	DSC 411 & CSC 450	3
DSC 496	Data Science Capstone	BIS 330 & DCS 321 & DSC 411	3

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		Pre-req	Credits	Term	Grade	Approved Exceptions
BIS 310	Information Systems Analysis	INF 110 or INF 120 & Junior Standing	3			
BIS 382	Principles of Information Security	BIS 300 or equivalent	3			
BIS 420	Business Intelligence & Enterprise Applications	Junior Standing & Certified Major in BIS or Department Consent	3			
CSC 301	Web Programming	CSC 260 or CIT 383 & INF 286 & INF 282	3			
CSC 362	Computer Systems	CSC 360	3			
CSC 402	Advanced Programming Methods	CSC 362 & CSC 364	3			
CSC 425						