

Program:	DSC.AS Data Science (60-62 credits)	Division:	STEM
Student:		ID#:	Catalog Year: 2023-2024

Developmental Education Courses (if required)								
<input type="checkbox"/>	EAP-018	Intensive Academic English	<input type="checkbox"/>	MAT-020	Basics of College Math	<input type="checkbox"/>	COM-017/019	Foundational Reading/Writing
<input type="checkbox"/>	EAP-020/040	EAP Reading I and Writing I	<input type="checkbox"/>	MAT-03_		<input type="checkbox"/>	COM-097	Academic Literacy I
<input type="checkbox"/>	EAP-050/060	EAP Writing II and Reading II				<input type="checkbox"/>	COM-098	Academic Literacy II

SEMESTER BY SEMESTER MAP FOR FULL-TIME STUDENTS

Courses are listed in preferred order of completion. Plans may be modified by adding more semesters.

SEMESTER I – Fall (15 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	CSS-103*	College Success Strategies	3		All & OL
	COM 121*	English Composition I	3	COM 098 or (EAP 050 & EAP 060 with grades of “C” or better, or placement by exam.	All & OL
	MAT 210	Statistics	3	MAT 030, or MAT 032, MAT 034 or MAT 035; COM 098 or (EAP 050 & EAP 060), with grades of “C” or better or placement by exam. MAT 035 is recommended for this program.	All & OL
	DSC 120	Foundations of Data Analysis	3	IFT 110; MAT 030 or MAT 032 or MAT 035 with a grade of “C”; COM 098 or (EAP 050 & EAP 060) with grades of “C” or better or placement by exam	Fall
	DSC 140	Web Development and Design	3	IFT 110; MAT 030 or MAT 032 or MAT 035 with a grade of “C”; COM 098 or (EAP 050 & EAP 060) with grades of “C” or better or placement by exam	Fall

SEMESTER 2 – Spring (16 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	MAT 110 or MAT 160 or MAT 180	Intermediate Algebra College Algebra Pre-calculus Consult with your advisor	3	MAT 035; MAT 110; MAT 160, with grades of “C” or higher (or sufficient placement test score) Consult with your advisor	Fall/Spring
	BIO 120 or CHE 120 or PHY 120	Biological Concepts Principles of Chemistry Principles of Physics	4	MAT 020 or appropriate placement test score. COM 098 or (EAP 050 & EAP 060); MAT 030 or MAT 032 or MAT 034 or MAT 035 with “C” or better or placement by exam. MAT 030 or MAT 032 or MAT 035; COM 098 or (EAP 050 & EAP 060) with grades “C” or better or placement by exam.	All
	DSC 180	Introduction to Frameworks (with JavaScript and Python)	3	DSC 120, DSC 140 & MAT 210 with grades of “C” or better	Spring
	DSC 200	Data-Oriented Design for Game Development	3	DSC 140 with “C” or better	Spring
	SOC 1	Social Science Elective 1	3	COM-098 or (EAP-060 & EAP-050) with a “C” or better or sufficient placement test score)	All

SEMESTER 3 – Fall (15 - 16 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	COM 151	Fundamentals of Speech	3	MAT 020 with “C” or better	All
	BIO 120 or CHE 120 or PHY 120 or ENV 130	Biological Concepts Principles of Chemistry Principles of Physics Environment	3/4	MAT 020 or appropriate placement test score // COM 098 or (EAP 050 & EAP 060); MAT 030 or MAT 032 or MAT 034 or MAT 035 with “C” or better or placement by exam // MAT 030 or MAT 032 or MAT 035; COM 098 or (EAP 050 & EAP 060) with grades “C” or better or placement by exam //COM 098 or (EAP 050 & EAP 060) or placement by exam	All
	DSC 210	Database Management Systems/SQL	3	DSC 180 with a “C” or better [Equivalent to PRG 260]	Fall

Date created: January 2023	Updated: May 2023	All = Fall/Spring/Summer OL = Online
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	DSC 220	Predictive Data Analytics I	3	DSC 180 with a "C" or better	Fall
	HUM Elective 1	Select 1 (See elective options below)	3	COM 121 or COM 122 with a "C" or better	All

SEMESTER 4 – Spring (14 credits)					
√	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	COM 141	Technical Writing	3	COM 121 or COM 122 with a "C" or better	All & OL
	DSC 230	Data Visualization	3	DSC 210 or PRG 260 with a "C" or better	Spring
	DSC 260	Predictive Data Analytics II: Machine Learning (AI)	3	DSC 220 with a "C" or better	Spring
	SOC 2	Social Science Elective 2	3	COM 098 or (EAP 050 & EAP 060) with "C" or better or placement by exam	All
	Elective 4	Program Elective	2		

Recommended Electives:

- BUS 106 Business Communications (3 credits)
- CYB 105 Information Security Fundamentals (3 credits)
- EGR 104 Introduction to Engineering Design (3 credits)
- MTT 107 Engineering Graphics (2 credits).

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