

Program:	DATA.SCI.AS Data Science AS (60-62 credits)	Division:	STEM
Student:		ID#:	Catalog Year: 2026-2027

Developmental Education Courses (if required)								
☐	EAP-018	Intensive Academic English	☐	MAT-020	Basics of College Math	☐	COM-017/019	Foundational Reading/Writing
☐	EAP-020/040	EAP Reading I and Writing I	☐	MAT-03_		☐	COM-097	Academic Literacy I
☐	EAP-050/060	EAP Writing II and Reading II				☐	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 1 – Fall (15 credits)

Legend: All = Fall/Spring/Summer; OL = Online

Course Type	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Gen Ed	CSS-103*	College Success Strategies	3		All & OL
Gen Ed	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
Gen Ed	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
Major	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
Major	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)

Legend: All = Fall/Spring/Summer; OL = Online

Course Type	Course Number	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Gen Ed	MAT 110 or MAT 160 or MAT 180	Intermediate Algebra or College Algebra or 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
Gen Ed	BIO 120 or CHE 120 or PHY 120	Biological Concepts or Principles of Chemistry or 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
Major	DSC 180	Introduction to Frameworks (with JavaScript and Python)	3	DSC 120, DSC 140 & MAT 210 with grades of "C" or better	Spring
Major	DSC 200	Data-Oriented Design for Game Development	3	DSC 140 with "C" or better	Spring
Elective	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 credits)

Legend: All = Fall/Spring/Summer; OL = Online

Course Type	Course Number	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Gen Ed	COM 151	Fundamentals of Speech	3	MAT 020 with “C” or better	All
Gen Ed	BIO 120 or CHE 120 or PHY 120 or ENV 130	Biological Concepts or Principles of Chemistry or Principles of Physics or 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
Major	DSC 210	Database Management Systems/SQL	3	DSC 180 with a “C” or better [Equivalent to PRG 260]	Fall
Major	DSC 220	Predictive Data Analytics I	3	DSC 180 with a “C” or better	Fall
Elective	HUM Elective 1	Select 1 (See elective options below)	3	COM 121*with a “C” or better	All

SEMESTER 4 – Spring (16 credits)

Legend: All = Fall/Spring/Summer; OL = Online

Course Type	Course Number	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
	COM 141	Technical Writing	3	COM 121*with a “C” or better	All & OL
Major	DSC 230	Data Visualization	3	DSC 210 or PRG 260 with a “C” or better	Spring
Major	DSC 260	Predictive Data Analytics II: Machine Learning (AI)	3	DSC 220 with a “C” or better	Spring
Elective	SOC 2	Social Science Elective 2	3	COM 098 or (EAP 050 & EAP 060) with “C” or better or placement by exam	All
Elective	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).

*Sections of these courses offered in the Honors Program, check <https://www.racc.edu/academics/honors-program> for details. **Online (OL)** may not be offered every semester. Please check the schedule.