Data Science-BS **THE UNIVERSITY OF RHODE ISLAND** FALL 2022-SPRING 2023

Computer Science and Statistics Track

120 Credits Total

55 Credits in Major

ABOUT THE DATA SCIENCE BS DEGREE:

The BS program in Data Science is designed to provide a broad introduction to the fundamentals of data science including ethics, computing, statistics, and mathematics. The required mathematics preparation provides a basis for advanced work. Students will be well prepared for careers or graduate study in data science.

STEP 1:

Major Requirements:

Course	Semester	Credits	Grade
LTI/DSP 110*		3	
MTH 141*		4	
MTH 142*		4	
MTH 215		3	
CSC 201*		4	
CSC/DSP 310		4	
BAI 456 or CSC 436		3-4	
STA 409, 308 or BAI 210		3-4	
Computer Science and Statistic Courses:			
MTH 180*		3	
CSC 320 or BIO/DSP 181G*		3-4	
STA 305		4	
STA/DSP 441 or CSC/DSP 461		4	
DSP 477, 499, STA/DSP 490, or STA 491		4	
Choose 3 major electives from: **CSC 211, 212, 340, any 400-level CSC course; AMS/DSP 393G*; and 400-level STA course.**			
		3-4	
		3-4	
		3-4	

Free elective credits

(to meet the 120 credits required for graduation):

Course	Credits	Course	Credits

In order to transfer to the College of Arts and Sciences, students must complete MTH 141, with C or better; STA 409 or STA 308 or BAI 210, with C or better; and LTI/DSP 110 or CSC 201.

*Course approved for general education credit

Please note: Both major and cumulative GPA must be 2.00 or higher in order to graduate.

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GENERAL EDUCATION GUIDELINES: General education is 40 credits. Each of the twelve outcomes (A1-D1) must be met by at least 3 credits. A single course may meet more than one outcome, but cannot be double counted towards the 40 credit total. At least one course must be a Grand Challenge (G). No more than twelve credits can have the same course code (note- HPR courses may have more than 12 credits). General education courses may also be used to meet requirements of the major or minor when appropriate.

STEP 2:

General Education Credit Count				
At least 40 credits, no more than 12 credits with the same course code.				
Course	**Cr.**		**Course**	**Cr.**
MTH141(A1,B3)	4			
MTH142(A1,B3)	4			
MTH180(A1,B3)	3			
CSC201(B3)	4			
			Total Gen Ed credits	40

STEP 3:

General Education Outcome Audit	
	Course
KNOWLEDGE	
A1. STEM	
A2. Social & Behavioral Sciences	
A3. Humanities	
A4. Arts & Design	
COMPETENCIES	
B1. Write effectively	
B2. Communicate effectively	
B3. Mathematical, statistical, or computational strategies	
B4. Information literacy	
RESPONSIBILITIES	
C1. Civic knowledge & responsibilities	
C2. Global responsibilities	
C3. Diversity and Inclusion	
INTEGRATE & APPLY	
D1. Ability to synthesize	
GRAND CHALLENGE	
G. Check that at least one course of your 40 credits is an approved "G" course	

SEE OPPOSITE SIDE FOR PROGRAM REQUIREMENTS.

NOTE: This worksheet sheet is a snapshot of your entire curriculum. You must work with your advisor each term to discuss requirements to keep you on course for timely progress to complete this major. Official requirements for graduation are listed in the University Catalog.

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