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

Applied Mathematical Sciences Track

120 Credits Total55 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		
Applied Mathematical Sciences Courses:				
MTH 243		3		
ART/DSP 404*		3		
AMS 450		3		
CSC/DSP 461 or BAI 476		3-4		
AMS/DSP 393G*		3		
MTH 418 or 481		3		
MTH 451		3		
MTH 452		3		
Choose 1 major elective from:				
MTH 418, 447, 453, 471, 472, 481; DSP 477, 499; any 400-level AMS course				
		3-4		

Free elective credits
(to meet the 120 credits required for graduation):

Credits		Course	Credits
	Credits	Credits	Credits Course

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

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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.

<u>STEP 2:</u>

At least 40 credits, no more than 12 credits with the same course code. Course Cr. Course Cr. Total Gen Ed credits 40

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		
COUISE	1	

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.

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