Data Science-BS **THE UNIVERSITY OF RHODE ISLAND** FALL 2018-SPRING 2019
120 Credits Total
56 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
MTH 141*		4	
MTH 142*		4	
MTH 215		3	
CSC 201 or 211		4	
CSC 320		4	
CSC/DSP 310		4	
DSP/STA 441		4	
CSC/DSP 461		4	
STA 305		4	
STA 409		3	
BUS 456		3	
WRT 201* or HPR 112		3	
CSC 499 or STA/DSP 490		4	
Complete three courses from the following domain areas: ***Biological Sciences:*** BIO 439, CMB 320, BPS/CSC/STA 522 ***Computer Science:*** CSC 212, 412, 415, 436, 450 ***Data Science Program:*** DSP 393 ***Geographic Information Systems:*** LAR 302 or NRS 409/410 ***Mathematics:*** MTH 243, 418, 447, 451, 471 ***Oceanography:*** OCG 350, 351 ***Social Science and Humanities:*** HIS 116, PHL 212* ***Statistics:*** STA 411 or 412, STA 445, 460			
		3-4	
		3-4	
		3-4	

*Course approved for general education credit

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 131 or 141, MTH 215, and STA 409. Students must also have a 2.00 GPA both cumulatively and in all courses required for the major that have been completed at the time of transfer.

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.**
			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.

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

Data Science BS (2018-2019 Catalog)

Requirements by Year

The below is a sample plan showing how a student may graduate with this major in 4 years. It is not intended to be prescriptive. Credits in transfer, as well as summer or j-term coursework, may result in deviations from the above recommendations. Students should consult with an advisor to ensure they are on track each semester. For course titles and pre-requisite information, please visit: uri.edu/catalog

Fall	Spring	Milestones
Year One		
WRT 201 (B1, B4)	CSC 201	Overall GPA 2.00
Math prerequisite or free elective	MTH 141 (A1, B3)	Consider minor or second major
A2 gen ed	A4 gen ed	
A3 gen ed	B2 gen ed	Earn at least a C- in MTH 141 to take MTH 142
Free elective		Complete 30 credits
URI 101		
(17 credits total)	(14 credits total)	
Year Two		
MTH 142	CSC/DSP 310	Overall GPA 2.00
STA 409	MTH 215	Eligible to move to the College of Arts & Sciences
C1 gen ed	C3 gen ed	
C2 gen ed	G gen ed	STA 409 is a pre-requisite for STA 305
Free elective	Free elective	Consider/declare minor or second major
(16 credits total)	(16 credits total)	Complete 60 credits
Year Three		
CSC 320	STA/DSP 441	Overall GPA 2.00
STA 305	Elective from domain area	Consider internship
CSC/DSP 461	Elective from domain area	Complete 90 credits
Free elective	Free elective	
	Free elective	
(15 credits total)	(16 credits total)	
Year Four		
BUS 456	CSC 499 or STA/DSP 490	Overall GPA 2.00
D1 gen ed	Free elective	Complete Intent to Graduate Form by Oct 1st
Elective from domain area	Free elective	
Free elective	Free elective	Complete 120 credits
Free elective	Free elective (if needed)	
(15 credits total)	(13-15 credits total)	

Course Offerings

Please note that some courses are only offered in the fall or spring semesters, as indicated below.

Fall	**Spring**
STA 305	CSC/DSP 310
CSC/DSP 461	STA 445
	STA/DSP 441
	STA/DSP 490