Data Science - BA

Fall 2016 - Present

120 Total Credits
38-40 Program credits

This form is for reference only. Student should consult catalog to confirm degree requirements

Major Requirements (32-33 Credits):			
Course #	**Semester**	**# Credits**	**Grade**
CSC 201 or 211		4	
CSC 320		4	
STA 409		3	
MTH 215		3	
CSC 310 or STA305		4	
STA 441 or CSC 461		4	
BUS 456		3	
One course from selected Data Science related specialization or domain areas from the list below			
		3/4	
One additional data science integrative or capstone or internship course at the 300-level or above.			
CSC 499 or STA 490		4	

Additional Required courses: (6-7 credits)			
Course	**Semester**	**# Credits**	**Grade**
MTH 131 or 141		3 or 4	
Writing			
WRT 201 or HPR 112		3	
Strongly Suggested but not required			
WRT 227		3	

******Please note: Student cannot graduate without major and cumulative GPA of at least 2.0*****

Students are encouraged to complement this BA with a major or minor in another data dependent domain.

BA students are required to take at least 42 credits at the 300 level or higher. Major and general education courses may fulfill this requirement.

General Education Requirements: 12 Outcomes & 40 Credits			
	Course	**Credits**	**Grade**
Knowledge			
A1. STEM			
A2. Social & Behavioral Science			
A3. Humanities			
A4. Arts & Design			
Competencies			
B1. Write Effectively			
B2. Communicate Effectively			
B3. MATH			
B4. Information Literacy			
Responsibilities			
C1. Civic			
C2. Global			
C3. Cultural			
Integrate & Apply			
D1. Ability to Synthesize			
G: At least 1 course above must be a Grand Challenge			
General Education Electives			
Total Credits (Need 40)			

General Education Policy:

1. A course may be used to satisfy more than one outcome. The outcomes are specified on the syllabus.
2. Minimum of 3 credits for each outcome (A1 … D1)
3. Complete at least one Grand Challenge
4. Complete 40 credits.
5. No more than 12 credits can be taken in one discipline / course code

For a list of courses that satisfy Gen Ed requirements consult the A& S requirements in the catalog from the term that you first matriculated at URI.

Specialization or domain areas:

Biological Sciences: BIO 439X (Big Data Analysis), CMB 320 (Intro. Comput. Bio), BPS/CSC/STA 522 (Bioinformatics I)

Data Science Program (Business): DSP 393 (Predictive Analytics)

Computer Science: CSC 212, CSC 412 (Operating Systems), CSC 415 (Parallel Computing), CSC 436 (DB Systems), CSC 450 (Scientific Computing)

GIS (Geographic Information Systems): LAR 302, or NRS 409 and NRS 410

Mathematics: MTH 418 (Matrix Analysis), MTH 471 (Numerical Analysis) MTH 243 (Calc III), MTH 451 (Intro Probability/STA), MTH 447 (Discrete Math Structures)

Social Science and Humanities: HIS 116 (History of Science), PHL 212 (Ethics)

Oceanography: OCG 350 Oceanographic Data Integration I, and OCG 351 Oceanographic Data Integration II

Statistics: STA 411 or 412 (Biostatistics), STA 460 (Time Series), STA 445 (Bayesian)