

UNIVERSITY OF RHODE ISLAND

Data Science BS

120 Credits Total

56-60 Program Credits

Major Requirements: 49-53 credits

Course	Semester	Credits	Grade
Core Courses			
CSC 201* or 211		4	
CSC 320		4	
STA 409		3	
MTH 142*		4	
MTH 215		3	
CSC 310		4	
STA305		4	
STA 441		4	
CSC 461		4	
BUS 456		3	
Three courses from selected Data Science related specialization or domain areas from the list below			
		3 or 4	
		3 or 4	
		3 or 4	
One Integrative Class or Capstone from a data science or related domain area			
CSC 499 or STA 490		3 or 4	
Additional Required Courses – 7 Credits			
MTH 141*		4	
WRT 201* or HPR 112*		3	
Strongly Recommended			
WRT 227*		3	

*Course approved for general education credit

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) – For a Computer Science specialization, choose three.

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) - For a Mathematics specialization, choose at least two.

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)

All students are encouraged to pursue minors in other data dependent domains.

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

