

BACHELOR OF SCIENCE DATA SCIENCE, STATISTICAL DATA SCIENCE SPECIALIZATION FOUR-YEAR ACADEMIC ROADMAP

Students should meet with their academic advisor to formulate an individualized plan. Students with more than one program should communicate with their advisor prior to enrollment. Select upper-division major electives in consultation with a Mathematics faculty mentor.

YEAR 1	Fall Quarter	Winter Quarter	Spring Quarter		
	UNIV 101 Transition to CWU	K1: Academic Writing II (ex. ENG102)	K4: Global Dynamics (ex. RELS103)		
	SOC 107 Principles of Sociology	K2: Comm, Culture, Citizenship (ex. LAJ102)	K5: Humanities (ex. HIST102)		
	Academic Writing I (ex. ENG101)	MATH 153 Pre-Calculus I	MATH 154 Pre-Calculus II		
	MATH 152* Functions and Reasoning				
Total Quarter Credits	16	Total Quarter Credits	15	Total Quarter Credits	15

YEAR 2	Fall Quarter	Winter Quarter	Spring Quarter		
	K6: Individual & Society (ex. ANTH107)	K3: Creative Expression (ex. MUS103)	K7: Phys and Nat World (ex. PHYS101)		
	MATH 172 Calculus I	MATH 173 Calculus II	MATH 272 Multivariable Calculus I		
	General Elective	General Elective	MATH 265 Linear Algebra I		
			MATH 207 MATH Honors Seminar		
Total Quarter Credits	15	Total Quarter Credits	15	Total Quarter Credits	15

YEAR 3	Fall Quarter	Winter Quarter	Spring Quarter		
	MATH 273 Multivariable Calculus II	MATH 330 Discrete Mathematics	CS 301 Data Structures		
	MATH 314 Probability and Statistics	MATH 260 Sets and Logic	MATH 309 Mathematical Computing		
	CS 110 Programming Fund 1	CS 111 Programming Fund 2	CS 112 Intro to Data Science		
Total Quarter Credits	15	Total Quarter Credits	15	Total Quarter Credits	15

YEAR 4	Fall Quarter	Winter Quarter	Spring Quarter		
	MATH 478 Acquiring, Cleaning Data	MATH 479 Data Analysis in Data Sci	MATH 499D Data Science Sr. Seminar		
	MATH 410A Advanced Stat Methods I	MATH 401B Advanced Stat Methods II	PHIL 318 Ethics for Big Data & Tech		
	CS302 Advanced Data Structures	CS 325 Tech Writing in Comp Sci	CS 420 Database Management		
	MATH 411A Probability Theory	MATH 411B Math. Statistics			
Total Quarter Credits	15	Total Quarter Credits	15	Total Quarter Credits	15
Total Credits: 181					

*This roadmap assumes placement into MATH 152. Your advisor will help you create a suitable first-year Math sequence to set you up for success for a different initial placement.

Department Webpage



CWU Course Catalog



General Education

