Master of Science in Biological Data Science
Modality: Online
Catalog Year: Fall 2025
Total Credit Hours: 33
NCGradOnline@asu.edu

ASU New College of Interdisciplinary Arts and Sciences
Arizona State University

Required Core (18 credit hours)			
Course Prefix, Number and Title	Credit Hours	Session	Grade
ACO 501: Database Systems and Problem Solving in Python	3		
LSC 540: Statistics for Biological Data Science	3		
LSC 541: Statistics for Biological Data Science II	3		
LSC 555: Molecular Biology	3		
LSC 556: Evolutionary Biology	3		
LSC 562: Applied Mathematics Techniques in Biology	3		
Other Requirements (6 credit hours)			
Course Prefix, Number and Title	Credit Hours	Session	Grade
ACO 580: Practicum - Intro to Python Programming for Problem Solving (pre-req for ACO 501)	3		
LSC 519: Applied Learning Lab	2		
LSC 591: Seminar	1		
Elective (6 credit hours)			
Course Prefix, Number and Title	Credit Hours	Session	Grade
Elective	3		
Elective	3		
Culminating Experience (3 credit hours)			
Course Prefix, Number and Title	Credit Hours	Session	Grade
LSC 585: Capstone I in Biological Data Science	3		
Elective Course List			
FOR 540: Advanced Topics in Human Forensic DNA Typing		MCB 540: Functional Genomics	
BMD 550: Translational Bioinformatics		BIO 416: Biomedical Research Ethics	
BMI 515: Applied Biostatistics in Medicine and Informatics		LSC 598: Marine Conservation Policy and Management	

General Guidelines

✓ The NC Advising Website contains additional information on degree requirements and registration.

✓ This online program requires registration in Fall, Spring, and Summer semesters. Any variation to the recommended course sequence (available on the NC Advising Website) must be discussed with and approved by an Academic Success Advisor, as not all courses are offered each semester.

✓ Students are required to submit an Interactive Plan of Study (iPOS), which must be completed by the end of the first semester.

✓ All work toward a master's degree must be completed within six consecutive years. Please review the ASU Graduate College Policy Manual.

✓ Students are required to meet New College Satisfactory Academic Progress Standards and maintain continuous enrollment as defined by the ASU Graduate College Policy Manual.

✓ The capstone courses are completed in a student's final semester of study. To be eligible for registration, consult the program handbook.

✓ Students must earn a B or better in the capstone course (LSC 585). For more information, consult the ASU Graduate College Policy Manual.