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

ASU New College of Interdisciplinary Arts and Sciences
Arizona State University

Semester 1, Fall 2025 (9 credit hours)			
Course Prefix, Number and Title	Credit Hours	Session/Semester	Grade
LSC 540: Statistics for Biological Data Science I	3	Session C	
LSC 555: Molecular Biology	3	Session C	
LSC 562: Applied Mathematics Techniques in Biology	3	Session C	

Semester 2, Spring 2026 (9 credit hours)			
Course Prefix, Number and Title	Credit Hours	Session/Semester	Grade
ACO 501: Database Systems and Problem Solving in Python	3	Session C	
LSC 541: Statistics for Biological Data Science II	3	Session C	
LSC 556: Evolutionary Biology	3	Session C	

Semester 3, Fall 2026 (8 credit hours)			
Course Prefix, Number and Title	Credit Hours	Session/Semester	Grade
Elective (Applied Project students only) OR Thesis with Written & Oral Defense (ACO, BIO, LSC, MAT 599)	3	Session C	
Elective	3	Session C	
LSC 547: Wet Laboratory Experience	1	Session C	
LSC 591: Seminar	1	Session C	

Semester 4, Spring 2027 (7 credit hours)			
Course Prefix, Number and Title	Credit Hours	Session/Semester	Grade
Applied Project (ACO, BIO, LSC, MAT 593) *OR* Thesis with Written & Oral Defense (ACO, BIO, LSC, MAT 599)	3	Session C	
Elective	3	Session C	
LSC 519: Applied Learning Lab	1	Session C	

What counts as an elective course?

Pre-approved electives:
Focus areas:
Biological and Environmental Sciences
LSC 598 Marine Conservation Policy and Management
LSC 598 Ecosystem Ecology
LSC 598 Soil Science
ENV 485 Environmental Impact Assessment
ABS 555 Wildlife Dynamics
MIC 443 The Microbial Universe & MIC 444 The Microbial Universe Lab
Computational Science and Statistics
MAT 450 Mathematical Models in Biology
MAT 422 Mathematical Methods in Data Science
STP 450 Nonparametric Statistics
STP 470 Predictive Analytics
ACO 423 Data Science
SDS 510 Data Wrangling
SDS 528 Communicating Data Science
Healthcare and Public Health
LSC 432 Fundamentals of Pharmacology
LSC 475 Principles of Toxicology
TPH 550 Data Science for Public Health
TPH 551 Public Health Technologies
TPH 554 AI/ML in Public Health
What does not count:
- 593, 595, or 599 credit; 100, 200, or 300 level classes

General Guidelines

Faculty and chair approval required for:
- up to 6 credit hours of 400-level work may apply toward the master's degree.
- All coursework in the interactive Plan of Study (iPOS). Mere enrollment in a course does not entitle a student to count it toward a graduate degree.
- ACO, BIO, LSC or MAT courses (e.g., 580, 584, 590, 592)

Academic progress:
- Students are required to meet Satisfactory Academic Progress Policy and maintain continuous enrollment as defined by the ASU Graduate College Policy Manual.
- The culminating experience is completed in a student's final year of study. To be eligible for registration consult the program handbook.
- For information regarding the minimum passing grade for the 593 or 599 culminating experience, please go to Satisfactory Academic Progress Policy

Policies:
- Core courses can never be transferred from other universities. All work toward a master's degree must be completed within six consecutive years. For more information review the ASU Graduate College Policy Manual.