



New College of Interdisciplinary Arts & Sciences
Master of Science in Biological Data Science
 Curriculum and Graduation Checklist - Catalog Year - Fall 2022
 Total Credits: 32

Last Updated 10/13/2022

Semester 1, Fall 2022 (7 OR 8 hours)			
Course Name	Credits	Semester Taken	Grade
LSC 598: Statistics for Biological Data Science I (iCourse) OR BIO 514: Statistical Models for Biology (Tempe campus)	3 OR 4	Session A OR Session C	
LSC 555: Integrative Biology I (West campus)	3	Session C	
LSC 547: Wet Laboratory Experience (West campus)	1	Session C	
Semester 2, Spring 2023 (10 hours)			
Course Name	Credits	Semester Taken	Grade
ACO 580: Practicum - Intro to Python Programming for Problem Solving (pre-req for ACO 501 - iCourse)	3	Session A	
ACO 501: Database Systems and Problem Solving in Python (iCourse)	3	Session B	
LSC 556: Integrative Biology II (West campus)	3	Session C	
LSC 519: Applied Learning Lab (West campus)	1	Session C	
Semester 3, Summer 2023 (6 hours)			
Course Name	Credits	Semester Taken	Grade
LSC 562: Applied Mathematics Techniques in Biology (iCourse)	3	Session A	
STP 560: Experimental Statistics in Biology (iCourse)	3	Session B	
Semester 4, Fall 2023 (6 or 5 hours) Must schedule for 6 hours if LSC 598 was selected in semester 1			
Course Name	Credits	Semester Taken	Grade
Applied Project (ACO 593, or BIO 593, or MAT 593) or Thesis with Written & Oral Defense (ACO 599, or BIO 599, or MAT 599)	3	Session C	
*Elective or Research (ACO 592, or BIO 592, or MAT 592)	3-2	Session A, B, or C	
Semester 5, Spring 2024 (3 hours) **			
Course Name	Credits	Semester Taken	Grade
Applied Project (ACO 593, or BIO 593, or MAT 593) or Thesis with Written & Oral Defense (ACO 599, or BIO 599, or MAT 599)	3	Session C	

* What can you count as elective courses? Modality (campus, iCourse) of these classes will vary
What counts: <ul style="list-style-type: none"> - ACO 598: Data Science - LSC 598: Ecosystem Ecology - BMI 555: Statistical Learning for Data Mining - BMI 601: Fundamentals of Health Informatics - LSC 598: Environmental & Human Toxicology - MAT 598: Mathematical Models in Biology - STC 510: Applied Social Technology - MAT 421: Applied Computational Methods
What needs to be approved (in advance) by both your advisor & the graduate program director: <ul style="list-style-type: none"> - ACO, BIO, or MAT courses (e.g., 580, 584, 590, 592) - 400-level courses in any discipline - Courses transferred in from other universities
What does not count: <ul style="list-style-type: none"> - 595 credits - 100, 200, or 300-level courses

General Guidelines
<ul style="list-style-type: none"> - You may apply only 6 credits of 400-level work toward the master's degree - You must meet all GPA and grade requirements outlined in the New College Satisfactory Academic Progress Policy - You must be enrolled in at least one credit that appears on your iPOS or one credit of LSC 595 continuing registration each Fall/Spring semester - All coursework must be approved by your advisor and formalized in the iPOS. Mere enrollment in a course does not entitle you to count it toward a graduate degree - **A minimum of 5 credit hours is required to be eligible for financial aid. If you will be applying for financial aid, please review enrollment of total class hours with the graduate academic advisor.