



New College of Interdisciplinary Arts & Sciences  
**Master of Science in Biological Data Science**  
 Curriculum and Graduation Checklist - Catalog Year - Fall 2021  
 Total Credits: 32

Last Updated 11/02/2020

Semester 1, Fall 2021 (8 hours)			
Course Name	Credits	Semester Taken	Grade
BIO 514: Statistical Models for Biology	4		
LSC 555: Integrative Biology I	3		
LSC 547: Wet Laboratory Experience	1		
Semester 2, Spring 2022 (7 hours)			
Course Name	Credits	Semester Taken	Grade
ACO 501: Database Systems and Problem Solving in Python	3		
LSC 556: Integrative Biology II	3		
LSC 519: Applied Learning Lab	1		
Semester 3, Summer 2022 ( 6 hours)			
Course Name	Credits	Semester Taken	Grade
STP 560: Experimental Statistics in Biology	3		
LSC 562: Applied Mathematics Techniques in Biology	3		
Semester 4, Fall 2022 (5 or 6 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		
*Elective or Research (ACO 592, or BIO 592, or MAT 592)	2-3		
Semester 5, Spring 2023 (5 or 6 hours) Must schedule 6 hours if 5 hours were earned in semester 4			
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		
*Elective or Research (ACO 592, or BIO 592, or MAT 592)	2-3		

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

General Guidelines
<ul style="list-style-type: none"> <li>- You may apply only 6 credits of 400-level work toward the master's degree</li> <li>- You must meet all GPA and grade requirements outlined in the New College Satisfactory Academic Progress Policy</li> <li>- 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</li> <li>- 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</li> </ul>