

QuEST Required Courses	CRN #	Time, Day, Location	Faculty	Other details
<a href="#">CS 395</a> Data Lab	<a href="#">15064</a> LEC B 3.00	1:15 - 2:30 pm; T Th Lafayette L302	Hébert-Dufresne, L.	Cross listed with CSYS 302 A; Total combined enrollment: 45; Graduate standing
<a href="#">BIOL 381</a> QuEST Seminar	<a href="#">14742</a> SEM C 1.00	3:30 - 5:00 pm; Friday, Jeffords 112	Stevens, L.*	Special Topics *Pespeni, M. – Sabbatical through September 1, 2022
<a href="#">BIOL 381</a> QuEST Graduate Internship	<a href="#">14743</a> LEC G 1.00	Online course	Stevens, L.	Graduate standing only (cross listed w/ SINT 390)

Elective Courses available	CRN #	Time, Day, Location	Faculty	Other details
<a href="#">BIOL 271</a> Evolution	<a href="#">14739</a> LEC A 3.00	11:40 a.m. – 12:55 p.m. T Th Marsh Life Science 107	Bishop-von Wettberg, K.	Basic concepts in evolution will be covered, including the causes of evolutionary change, speciation, phylogenetics, and the history of life. Pre/co-requisites: BCOR 102 or permission of the Instructor.
<a href="#">BIOL 381</a> Computational Biology	<a href="#">13765</a> LEC G 4.00	T Th 1:15 – 2:30 pm; W 1:10 – 3:40 pm Marsh Life Science 129	Gotelli, N.	Readings with conferences, small seminar groups, or laboratories intended to contribute to the programs of graduate students in phases of zoology for which formal courses are not available. Prerequisite: An undergraduate major in life science; by Instructor permission.
<a href="#">CSYS 369</a> Applied Geostatistics	<a href="#">15575</a> LEC A 3.00	10:05 - 11:20 am; T Th Living/Learning A A102	Rizzo, D.	Introduction to the theory of regionalized variables, geostatistics (kriging techniques): special topics in multivariate analysis; Applications to real data subject to spatial variation are emphasized. Prerequisites: <a href="#">STAT 223</a> ; <a href="#">CS 020</a> or <a href="#">CS 021</a> ; or Instructor permission. Cross-listed with: <a href="#">CE 369</a> , <a href="#">STAT 369</a> .
<a href="#">MATH 268</a> Mathematical Biology & Ecology	<a href="#">15298</a> LEC A 3.00	8:30 – 9:45 a.m. T Th Lafayette Hall L200	Bentil, D.	Mathematical modeling in the life sciences. Topics include population modeling, dynamics of infectious diseases, reaction kinetics, wave phenomena in biology, and biological pattern formation. Prerequisite: <a href="#">MATH 122</a> or <a href="#">MATH 124</a> ; <a href="#">MATH 230</a> or <a href="#">MATH 271</a> ; or Instructor permission.

Elective Courses available	CRN #	Time, Day, Location	Faculty	Other details
<a href="#">NR 242</a> Adv. Geospatial Techniques	<a href="#">10899</a> OL1 1 – 3	Online Exclusively	Buford, E.	Advanced course encompassing a wide range of topics in GIS, remote sensing, GPS, modeling, and visualization designed to provide technical expertise in geospatial techniques. Prerequisite: <a href="#">NR 143</a> , <a href="#">GEOG 184</a> , <a href="#">NR 343</a> , <a href="#">NR 146</a> , <a href="#">NR 346</a> , or <a href="#">GEOG 185</a> .
<a href="#">NR 343</a> Intro/ Fundamentals of GIS	<a href="#">13043</a> LEC A 3.00	8:30 – 9:45 a.m. T Th Votey Bldg 105	Voigt, B. & O’Neil-Dunne, J.	Concepts and methods in Geographic Information Systems (GIS) presented at an accelerated pace for Graduate students using ArcGIS software. Must register for NR 343 lab A01-A05; Cross listed with <a href="#">NR 143</a> A; Prerequisite: Graduate standing only
<a href="#">STAT 200</a> QR: Med Biostat & Epidemiology	<a href="#">14988</a> LEC A 3.00	8:30 – 9:45 a.m. T Th Perkins Bldg 200	Benway, K.	Introductory design and analysis of medical studies. Epidemiological concepts, case-control and cohort studies. Clinical trials. Students evaluate statistical aspects of published health science studies. Prerequisite: <a href="#">STAT 111</a> , <a href="#">STAT 141</a> , <a href="#">STAT 143</a> , or <a href="#">STAT 211</a> .
<a href="#">STAT 287</a> Data Science I	<a href="#">15145</a> LEC A 3.00	8:30 – 9:45 a.m. T Th Marsh Life Science 107	Cheney, N.	Data harvesting, cleaning, and summarizing. Working with non-traditional, non-numeric data (social network, natural language textual data, etc.). Scientific visualization using static and interactive "infographics". A practical focus on real datasets, and developing good habits for rigorous and reproducible computational science. Project-based and communicate data-driven results. Prereqs: <a href="#">CS 020</a> or <a href="#">021</a> , <a href="#">STAT 141</a> , <a href="#">143</a> or <a href="#">211</a> ; <a href="#">CS 110</a> and <a href="#">MATH 124</a> recommended; Cross listed with <a href="#">STAT 287</a> A & <a href="#">CS 287</a> A
<a href="#">STAT 387</a> Data Science II	<a href="#">14998</a> LEC A 3.00	3:30 – 4:45 p.m. M W Innovation Hall E430	Bagrow, J.	Advanced data analysis, collection, and filtering. Statistical modeling, monte carlo statistical methods, and in particular Bayesian data analysis, including necessary probabilistic background material. A practical focus on real datasets and developing good habits for rigorous and reproducible computational science. Prerequisite: STAT 287 or CS 287 or Instructor permission; Cross listed with <a href="#">CS 387</a>