BIOLOGY (BIOLOGY)

BIOLOGY/ZOOLOGY 101 — ANIMAL BIOLOGY
3 credits.
General biological principles. Topics include: evolution, ecology, animal behavior, cell structure and function, genetics and molecular genetics and the physiology of a variety of organ systems emphasizing function in humans. Enroll Info: Not recommended for students with credit already in Zoology/Biology/Botany/Biology/Zooology 151 or 152
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2021

BIOLOGY/ZOOLOGY 102 — ANIMAL BIOLOGY LABORATORY
2 credits.
General concepts of animal biology at an introductory level. The general body plans and strategies used to accomplish the basic tasks of staying alive of 9 major animal groups are studied using preserved and live animals. The diversity within each group of animals is studied by integrating the body plans with the lifestyle and ecology of the animals. The evolutionary relationships between the animals is a major part of the course. Dissections of earthworm, freshwater mussel, squid, sea star, and rat also aid the study of these general principles. Enroll Info: Not recommended for students with credit already in Zoology/Biology/Botany/Biology/Zooology 151/152
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2021

BIOLOGY/BOTANY 130 — GENERAL BOTANY
5 credits.
Introduction to the basic principles and concepts of the biology of plants. an integrative approach stressing evolutionary sequences and the relationship between structure and function at succeeding levels of organization: molecule, cell, organism, population, community. Correlated lectures, laboratories, and discussions. Enroll Info: Open to Fr; not open to stdts who have taken Botany 100 or Botany/Zooology/Biology/Botany 151-152. HS chem or concurrent registration in college chemistry strongly advised. Enroll Info: Not recommended for students with credit already in Zoo/Bio 101, 102 or Botany/Bio 130
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2015

BIOLOGY/BOTANY/ZOOLOGY 151 — INTRODUCTORY BIOLOGY
5 credits.
First semester of a two semester course designed for majors in biological sciences. Topics include: cell structure and function, cellular metabolism (enzymes, respiration, photosynthesis), information flow (DNA, RNA, protein), principles of genetics and selected topics in Animal Physiology. HS chem or concurrent registration in college chemistry strongly advised. Enroll Info: Not recommended for students with credit already in Zoo/Bio 101, 102 or Botany/Bio 130
Requisites: None
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2021

BIOLOGY/BOTANY/ZOOLOGY 152 — INTRODUCTORY BIOLOGY
5 credits.
Second semester of a two semester course designed for majors in biological sciences. Continuation of 151. Topics include: selected topics in plant physiology, a survey of the five major kingdoms of organisms, speciation and evolutionary theory, and ecology at multiple levels of the biological hierarchy. Enroll Info: Biology/Botany/Zooology/Biology/Botany 151. Not recommended for students with credit already in Zoology/Biology/Zooology 101,102 or Botany/Biology/Botany 130
Requisites: Zoology/Bio/Botany 151
Course Designation: Gen Ed - Communication Part B
Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2021

BIOLOGY 299 — DIRECTED STUDIES
1-4 credits.
Graded on a letter basis. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2015

BIOLOGY 375 — SPECIAL TOPICS
1-5 credits.
Enroll Info: Requisite varies by topic
Requisites: None
Course Designation: Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2017
BIOLOGY 399 — INTERNSHIP/FIELD EXPERIENCE
1-8 credits.
Graded on a letter basis. Enroll Info: So st cons of supervising inst, advisor internship progm coordinator
Requisites: Consent of instructor
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2017

BIOLOGY/GENETICS 522 — COMMUNICATING EVOLUTIONARY BIOLOGY
2-3 credits.
Exposure to diverse topics in contemporary evolutionary biology and development of critical thinking and communication skills. Most weeks guest lecturers present their own primary research on a specialized topic in evolutionary biology. Seminars include perspectives from genetics, ecology, geoscience, zoology, botany, microbiology, systematics, molecular biology, and integrative research. Some weeks feature special topics and discussions on pedagogical, legal, outreach, or other issues in evolutionary biology. Includes thinking critically about methodology, experimental design and interpretation, and how conclusions are reached in evolutionary biology by reading primary and secondary literature, attending seminars, discussing topics with speakers and other students, and preparing a written report. The 3-credit version of the course delves deeper into communication of evolutionary biology to researchers, undergraduates, K-12 students, and the general public. Enroll Info: None
Requisites: GENETICS 466, 468, ZOOLOGY/ANTHRO/BOTANY 410, or BIOCORE 381, or concurrent enrollment
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2021

BIOLOGY 675 — SPECIAL TOPICS
1-5 credits.
Enroll Info: Requisite varies by topic
Requisites: None
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2015

BIOLOGY 681 — SENIOR HONORS THESIS
2-3 credits.
Graded on a letter basis. Enroll Info: 2 sem of coll biol cons inst
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Honors - Honors Only Courses (H)
Repeatable for Credit: No
Last Taught: Fall 2020

BIOLOGY 682 — SENIOR HONORS THESIS
2-3 credits.
Graded on a letter basis. Enroll Info: 2 sem of coll biol cons inst
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Honors - Honors Only Courses (H)
Repeatable for Credit: No
Last Taught: Spring 2021

BIOLOGY 691 — SENIOR THESIS
2-3 credits.
Graded on a letter basis. Enroll Info: 2 sem of coll biol cons inst
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2019

BIOLOGY 692 — SENIOR THESIS
2-3 credits.
Graded on a letter basis. Enroll Info: 2 sem of coll biol cons inst
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2020

BIOLOGY 699 — DIRECTED STUDIES
1-4 credits.
Graded on a letter basis. Enroll Info: 2 sem of coll biol cons inst
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2018