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 Bio 101, 102 or 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 2019

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: ZOOLOGY/BIOLOGY/BOTANY 151. Not recommended for students with credit already in BIOLOGY/BOTANY 101,102 or BIOLOGY/BOTANY 130
Requisites: ZOOLOGY/BIOLOGY/BOTANY 151
Course Designation: Gen Ed - Communication Part B
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2019

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/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 BOTANY/BIOLOGY/ZOOLOGY 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 2019

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 BOTANY/BIOLOGY/ZOOLOGY 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 2019

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 ZOOLOGY/BIOLOGY/BOTANY 151-152. HS or coll chem crse recommended
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 2019
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 — EVOLUTION SEMINAR SERIES-UNDERGRADUATE
1 credit.

The Evolution Seminar Series exposes students to diverse topics in contemporary evolutionary biology. Most weeks, one or more guest lecturers present their own primary research on a specialized topic in evolutionary biology. Diverse 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. Students learn to think 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, moderating discussions, and preparing a written report. Enroll Info: Prior or concurrent enrollment in ZOOLOGY/ANTHRO/BOTANY 410
Requisites: None
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 2019

BIOLOGY/MICROBIO 525 — ADVANCED BIOLOGICAL LABORATORY PRACTICES: A RESEARCH EXPERIENCE
2 credits.

Theory and practice of techniques typically used in microbiological and related biological research; biological experimental data interpretation and analysis; practice writing a research paper, reading primary literature, presenting their work to peers, and self-directing an independent research project (including keeping accurate lab notebooks); critical thinking in controversial scientific research ethics. Enroll Info: None
Requisites: MICROBIO 303 and 304
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

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: Spring 2019

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 2019

BIOLOGY 689 — 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