Life Science-LIFE (LIFE)

Courses

LIFE 102 Attributes of Living Systems (GT-SC1) Credits: 4 (3-3-0)
Course Description: Levels of organization, stability, and change in living systems.
Prerequisite: None.
Registration Information: Must have taken high school chemistry. Must register for lecture and laboratory. Intended for students requiring additional courses in biology or areas related to biological science. Sections may be offered Online.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: Yes.
Additional Information: Biological & Physical Sciences 3A, Natural & Physical Sciences w/ lab (GT-SC1).

LIFE 103 Biology of Organisms-Animals and Plants Credits: 4 (3-3-0)
Course Description: Diversity of animals and plants; their structural and functional characteristics.
Prerequisite: LIFE 102.
Registration Information: Must register for lecture and laboratory. Sections may be offered Online.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: Yes.

LIFE 162 Bridging the Biol/Chem Gulf for Pre-Health Majors Credits: 2 (2-0-0)
Also Offered As: KEY 162.
Course Description: Connections between chemistry and biology through inquiry-based exercises centered around societal and health issues.
Prerequisite: None.
Registration Information: Enrollment in the KEY Health Professions Learning Community. Credit not allowed for both LIFE 162 and KEY 162.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

LIFE 201A Introductory Genetics: Applied/Population/Conservation/Ecological (GT-SC2) Credits: 3 (3-0-0)
Course Description: Introduction to genetics, with emphasis on applied genetics, population genetics, and conservation/ecological genetics.
Prerequisite: LIFE 102.
Registration Information: Credit not allowed for both LIFE 201A and LIFE 201B.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

LIFE 201B Introductory Genetics: Molecular/Immunological/Developmental (GT-SC2) Credits: 3 (3-0-0)
Course Description: Introduction to genetics, with emphasis on applied genetics, population genetics, and conservation/ecological genetics.
Prerequisite: LIFE 102.
Registration Information: Credit not allowed for both LIFE 201B and LIFE 201A.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

LIFE 202A Introductory Genetics Recitation: Applied/Population/Conservation/Ecological Credit: 1 (0-0-1)
Course Description: Case-studies and problem solving in applied genetics, population genetics, and conservation/ecological genetics.
Prerequisite: LIFE 201A, may be taken concurrently.
Registration Information: Credit not allowed for both LIFE 202A and LIFE 202B.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

LIFE 202B Introductory Genetics Recitation: Molecular Credit: 1 (0-0-1)
Course Description: Case studies and problem-solving in molecular genetics.
Prerequisite: LIFE 201B, may be taken concurrently.
Registration Information: Participation in University Honors program. Credit not allowed for both LIFE 202B and LIFE 202A.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

LIFE 203 Introductory Genetics Laboratory Credits: 2 (0-3-1)
Course Description: Basic molecular genetics and molecular aspects of development laboratory.
Prerequisite: LIFE 201A, may be taken concurrently or LIFE 201B, may be taken concurrently.
Registration Information: Must register for lecture and recitation.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

LIFE 205 Microbial Biology Credits: 3 (3-0-0)
Course Description: General principles of microbiology focused on human-microbial interactions.
Prerequisites: (CHEM 107 or CHEM 111) and (LIFE 102 or BZ 110 and BZ 111).
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: Yes.

LIFE 206 Microbial Biology Laboratory Credits: 2 (0-4-0)
Course Description: General principles of microbiology focused on human-microbial interactions.
Prerequisite: LIFE 205, may be taken concurrently.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.
LIFE 210 Introductory Eukaryotic Cell Biology Credits: 3 (3-0-0)
Course Description: Solid understanding of a cell, different cell types, molecular aspects of cellular and subcellular biology and biochemistry.
Prerequisites: CHEM 111 and CHEM 112 and LIFE 102.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

LIFE 211 Introductory Cell Biology Honors Recitation Credit: 1 (0-0-1)
Course Description: Molecular aspects of cellular and subcellular biology and introductory biochemistry recitation.
Prerequisite: LIFE 210, may be taken concurrently.
Registration Information: Participation in University Honors program.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

LIFE 212 Introductory Cell Biology Laboratory Credits: 2 (0-3-1)
Course Description: Molecular aspects of cellular and subcellular biology and introductory biochemistry laboratory.
Prerequisites: CHEM 112, may be taken concurrently and LIFE 210, may be taken concurrently.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: Yes.

LIFE 220 Fundamentals of Ecology (GT-SC2) Credits: 3 (3-0-0)
Also Offered As: LAND 220.
Course Description: Interrelationships among organisms and their environments. (GT-SC2, AUCC 3A).
Prerequisites: (BIO 100 to 199 or BZ 100 to 199 or LIFE 100 to 199 or HORT 100) and (MATH 100 to 199).
Registration Information: 3 credits of 100-level biology or HORT 100; 3 credits of 100-level MATH. Credit not allowed for more than one of the following: LIFE 220/LAND 220 or LIFE 320. Sections may be offered: Online.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: Yes.
Additional Information: Biological & Physical Sciences 3A, Natural & Physical Sciences w/o lab (GT-SC2).

LIFE 320 Ecology Credits: 3 (3-0-0)
Course Description: Interrelationships among organisms and their environments using conceptual models and quantitative approaches.
Prerequisites: (BZ 101 or BZ 104 or BZ 110 or BZ 120 or LIFE 102) and (MATH 141 or MATH 155 or MATH 160).
Registration Information: Credit not allowed for more than one of the following: LIFE 220/LAND 220 or LIFE 320.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.