

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 register for lecture and laboratory. Strongly recommend high school chemistry or equivalent. Intended for students requiring additional courses in biology or areas related to biological science.

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 (GT-SC1) Credits: 4 (3-3-0)

Course Description: Diversity of animals and plants; their structural and functional characteristics.

Prerequisite: None.

Registration Information: Must register for lecture and laboratory.

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 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.

Additional Information: Biological & Physical Sciences 3A, Natural & Physical Sciences w/o lab (GT-SC2).

LIFE 201B Introductory Genetics: Molecular/Immunological/ Developmental (GT-SC2) Credits: 3 (3-0-0)

Course Description: Introduction to genetics, with emphasis on structure, regulation, and replication of genomes, and on genetic control of cell cycles, including development and cancer.

Prerequisite: LIFE 102.

Restriction: Must be a: Undergraduate.

Registration Information: Sections may be offered: Online. Credit not allowed for both LIFE 201A and LIFE 201B.

Terms Offered: Fall, Spring, Summer.

Grade Mode: Traditional.

Special Course Fee: No.

Additional Information: Biological & Physical Sciences 3A, Natural & Physical Sciences w/o lab (GT-SC2).

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: Yes.

LIFE 205 Microbial Biology Credits: 3 (3-0-0)

Course Description: General principles of microbiology focused on human-microbial interactions.

Prerequisite: (CHEM 107 or CHEM 111) and (LIFE 102 or BZ 110 and BZ 111).

Term Offered: Spring.

Grade Mode: Traditional.

Special Course Fee: No.

LIFE 206 Microbial Biology Laboratory Credits: 2 (0-4-0)

Course Description:

Prerequisite: LIFE 205, may be taken concurrently.

Terms Offered: Fall, Spring.

Grade Mode: Traditional.

Special Course Fee: Yes.

LIFE 210 Introductory Eukaryotic Cell Biology Credits: 3 (3-0-0)

Course Description: Structure and function of macromolecules focusing on proteins and lipid bilayers. Cellular composition, organelles and trafficking between them. Basic metabolism, cell signaling and proliferation control.

Prerequisite: CHEM 111 and CHEM 112 and LIFE 102.

Registration Information: Sections may be offered: Online.

Terms Offered: Fall, Spring, Summer.

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.

Prerequisite: 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.

Prerequisite: (BIO 100 to 199 or BZ 100 to 199 or LIFE 100 to 199 or HORT 100) and (MATH 100 to 199).

Registration Information: Sections may be offered: Online. Credit allowed for only one of the following: F 209, LAND 220, LIFE 220 or LIFE 320.

Term Offered: Fall.

Grade Mode: Traditional.

Special Course Fee: No.

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.

Prerequisite: (BZ 110 or BZ 120 or LIFE 103) and (MATH 141 or MATH 155 or MATH 160).

Registration Information: Credit allowed for only one of the following: F 209, LAND 220, LIFE 220 or LIFE 320.

Terms Offered: Fall, Spring, Summer.

Grade Mode: Traditional.

Special Course Fee: No.