

AGS General Studies Biology

Courses Descriptions

BIOL 104 GENERAL BIOLOGY LECTURE - [LCCN: CBIO 1013, *General Biology I*]
Broad biological principles for science majors: scientific method, biological molecules, cell structure and function, genetics and evolution. (3-0-3)

BIOL 104L GENERAL BIOLOGY LABORATORY - [LCCN: CBIO 1011, *General Biology I Lab*] Laboratory designed to supplement General Biology I for science majors. (0-2-1)

BIOL 105 GENERAL BIOLOGY LECTURE - [LCCN: CBIO 1043, *General Biology II*]
General concepts and principles of ecology, evolution, and biological diversity, including anatomy and physiology. *Prerequisite:* BIOL 104. (3-0-3)

BIOL 105L GENERAL BIOLOGY LABORATORY - [LCCN: CBIO 1021, *General Biology II Lab*] Laboratory designed to supplement General Biology II for science majors. *Prerequisite:* Biology 104L. (0-2-1)

BIOL 200 GENERAL MICROBIOLOGY LECTURE - [LCCN: CBIO 2123, *General Microbiology*] Microbial diversity; structure and function; interaction with hosts and environments. (3-0-3)

BIOL 200L GENERAL MICROBIOLOGY LABORATORY - [LCCN: CBIO 2121, *General Microbiology*] Laboratory designed to supplement General Microbiology for science majors. (0-2-1)

BIOL 215 INTRODUCTION TO NUTRITION – Principles of human nutrition in relation to health and physical and mental fitness, dieting requirements and longevity are studied. (3-0-3)

BIOL 220 HUMAN ANATOMY AND PHYSIOLOGY LECTURE I - [LCCN: CBIO 2213, *Human Anatomy and Physiology I*] Cells, tissues, integumentary, skeletal, muscular, and the nervous systems. (3-0-3)

BIOL 220L HUMAN ANATOMY AND PHYSIOLOGY LABORATORY I - [LCCN: CBIO 2211, *Human Anatomy and Physiology I Lab*] Laboratory is designed to supplement Human Anatomy and Physiology I lecture. (0-2-1)

BIOL 222 HUMAN ANATOMY & PHYSIOLOGY LECTURE II - [LCCN: CBIO 2223, *Human Anatomy and Physiology II*] Endocrine, circulatory, respiratory, lymphatic, digestive, excretory, and reproductive systems. *Prerequisite:* BIOL 220. (3-0-3)

BIOL 222L ANATOMY & PHYSIOLOGY LABORATORY II - [LCCN: CBIO 2221, *Human Anatomy and Physiology II Lab*] Laboratory designed to supplement Human Anatomy and Physiology II lecture. *Prerequisite:* BIOL 220L. (3-0-3)

BIOL 235 PARASITOLOGY - A course involving the collection, staining techniques, basic morphology, life histories, classification, distribution, and identification of common parasites of man and other vertebrates. *Prerequisite:* BIOL 104. (3-2-4)

BIOL 235L PARASITOLOGY LABORATORY - The laboratory study is designed to teach students the basic identification of common parasites and consideration of the biology, morphology, pathogenesis, and treatment of parasite diseases. (0-2-1)

BIOL 264 CELL AND MOLECULAR BIOLOGY - [LCCN: CBIO 2134, *CELL BIOLOGY LECTURE + LAB*] Structure and function of cells, and molecules essential for cellular processes are covered. The course material is presented in a combined lecture and laboratory format. *Prerequisites:* BIOL 104 and CHEM 130. (3-0-3)

BIOL 260 L CELL AND MOLECULAR BIOLOGY LABORATORY - This laboratory course provides students an opportunity to apply technical skills in the laboratory with an emphasis on cell biological techniques (cell and tissue, staining, cell biology quantitation, basic microscopy) which will reinforce the principles (introduced in lecture) that can be utilized for multidimensional approach to investigate cellular and molecular biological processes. This course is taken concurrently with BIOL 264 Cellular and Molecular Biology lecture course. *Prerequisites:* BIOL 104 and BIOL 104L; CHEM 130 and CHEM 130L. (0-2-1)