

BIOLOGY (BIOL)

BIOL 1010 – Intro Anatomy and Physiology 3 credit hours

Lecture Hours: 3; Lab Hours:0 This course covers the structure and function of the systems of the human body, diagnostic procedures used to identify disorders and diseases of the body, and selected disorders and diseases.

Schedule type: Independent Study, Lecture, Web

BIOL 1020 – Intro Anatomy & Physiology Lab 1 credit hour

Lecture Hours:0; Lab Hours:1 Topics in this accompanying lab course include microstructures, chemical and physical processes, and the systems of the body.

Co-requisite(s): BIOL 1010

Schedule type: Independent Study, Laboratory, Web

BIOL 1030 – Nutrition for Food Service Prs 3 credit hours

Lecture Hours:3; Lab Hours: 0 This course covers nutrients, including functions, factors affecting their use, food sources, dietary allowances, food habits, special needs in the lifecycle, current issues in nutrition, and marketing nutrition in the food service industry.

Schedule type: Independent Study, Lecture, Web

BIOL 1040 – Animal Behavior 3 credit hours

Lecture Hours: 3; Lab Hours: 0 This course provides a detailed analysis of non-human animal behavior with emphasis on vertebrate behavior.

Schedule type: Independent Study, Lecture, Web

BIOL 1060 – Principles of Biology I 3 credit hours

Lecture Hours: 3; Lab Hours: 0 This course for non-science majors introduces general biological concepts including biochemistry, cell structure, cellular metabolism, photosynthesis, cellular respiration, the life cycle of the cell, genetics, evolution, and ecology.

Schedule type: Independent Study, Lecture, Web

BIOL 1070 – Principles of Biology I Lab 1 credit hour

Lecture Hours:0; Lab Hours:1 Topics in this accompanying lab course include prokaryotic and eukaryotic cell structure, plant and animal cell structure, the properties of enzymes, respiration and photosynthesis, the cell cycle, genetics and inheritance.

Co-requisite(s): BIOL 1060

Schedule type: Independent Study, Laboratory, Web

BIOL 1080 – Principles of Biology II 3 credit hours

Lecture Hours: 3; Lab Hours: 0 This course for non-science majors introduces students to evolution, animal behavior, phylogeny, and biodiversity, including a survey of viruses and the five kingdoms.

Schedule type: Independent Study, Lecture, Web

BIOL 1090 – Principles of Biology II Lab 1 credit hour

Lecture Hours:0; Lab Hours:1 Topics in this accompanying lab course include plant and animal tissues and organ systems, animal development, a field study of animal behavior, and a survey of specimen representing the five kingdoms.

Co-requisite(s): BIOL 1080

Schedule type: Independent Study, Laboratory, Web

BIOL 1100 – General Biology I 3 credit hours

Lecture Hours:3; Lab Hours: 0 This course introduces students to animal and plant structure and function from the cellular level through organ systems. Topics include digestion, circulation, respiration, excretion, chemical and neural coordination, sensory systems and effectors, reproduction, and development.

Schedule type: Independent Study, Lecture, Web

BIOL 1110 – General Biology I Lab 1 credit hour

Lecture Hours:0; Lab Hours:1 This accompanying lab course demonstrates several of the principles discussed in BIOL 1100, including the structure of plants and animals at the cell, tissue, and organ levels. Lab experiments explore functions of plants and animals and collect and analyze quantitative data. Other topics include control of the internal environment, organismic integration, the cell cycle, and animal development.

Co-requisite(s): BIOL 1100

Schedule type: Independent Study, Laboratory, Web

BIOL 1200 – General Biology II 3 credit hours

Lecture Hours:3; Lab Hours:0 This course introduces the student to organismal biology. It considers the theory of evolution and its historical development and provides the framework for a survey of the diversity encountered in the five kingdoms. It also introduces basic principles of genetics and their relation to the process of evolution.

Pre-requisite(s): BIOL 1100, BIOL 1110

Schedule type: Independent Study, Lecture, Web

BIOL 1210 – General Biology II Lab 1 credit hour

Lecture Hours:0; Lab Hours:1 This accompanying lab course studies representatives of the groups of organisms discussed in BIOL 1200 and includes taxonomy, genetics and evolution.

Co-requisite(s): BIOL 1200

Schedule type: Independent Study, Laboratory, Web

BIOL 1500 – Nutrition and Diet Therapy 3 credit hours

lecture Hours:3; Lab Hours:0 This course involves the principles of nutrition and their application in maintaining health and providing diet therapy. It focuses on the basic concepts of nutrition and its application to a balanced diet and healthy weight. The class entails a detailed study of nutrition with emphasis on metabolic pathways and relationships between nutritional intake and normal and pathological changes in the human organism.

Schedule type: Independent Study, Lecture, Web

BIOL 2000 – Microbiology 3 credit hours

Lecture Hours:3; Lab Hours:0 This course addresses general concepts of microbiology including microbe structure and function, genetics, metabolism and diversity, host-microbe interactions, pathogens, and immunology.

Pre-requisite(s): BIOL 1100

Schedule type: Independent Study, Lecture, Web

BIOL 2010 – Microbiology Laboratory 1 credit hour

Lecture Hours: 3; Lab Hours: 1 This accompanying lab covers general concepts of microbiology including microbe structure and function, genetics, metabolism and diversity, host-microbe interactions, pathogens, and immunology.

Co-requisite(s): BIOL 2000

Schedule type: Independent Study, Laboratory, Web

BIOL 2050 – Genetics 3 credit hours

Lecture Hours:3; Lab Hours:0 This course covers cell division, Mendelian, molecular, and population genetics, and their applications in biotechnology.

Schedule type: Independent Study, Lecture, Web

BIOL 2200 – Louisiana Wetlands Ecology 3 credit hours

Lecture Hours: 3; Lab Hours: 0 This course examines the Louisiana wetlands, the delta formation, problems related to human activities, and the consequences of wetland loss.

Schedule type: Independent Study, Lecture, Web

BIOL 2210 – Environmental Science 3 credit hours

Lecture Hours: 3; Lab Hours: 0 This environmental biology course addresses ecosystems, population, major environmental pollutants, and human health effects. The course is cross-listed as ENVN2210. Credit will not be awarded for both courses.

Schedule type: Independent Study, Lecture, Web

BIOL 2220 – General Botany 3 credit hours

Lecture Hours: 3; Lab Hours: 0 This course explores the ecology and distribution of vascular plants and includes the basic principles and methods of plant taxonomy: identification, classification, morphology, and herbarium techniques. This course includes lab and field experiences.

Co-requisite(s): BIOL 2230

Schedule type: Independent Study, Lecture, Web

BIOL 2230 – General Botany Lab 1 credit hour

Lecture Hours: 0; Lab Hours: 3 This laboratory will explore the ecology and distribution of vascular plants. It will include basic principles and methods of plant taxonomy and will include identification, classification, morphology, and herbarium techniques. This course will also include planting for and care of various plants. Students will also perform propagation techniques.

Co-requisite(s): BIOL 2220

Schedule type: Laboratory

BIOL 2300 – Human Anatomy & Physiology I 3 credit hours

Lecture Hours:3; Lab Hours:0 This course provides a detailed study of the structure and function of the cell and skeletal, muscular, nervous, and integumentary systems.

Pre-requisite(s): BIOL 1100

Schedule type: Independent Study, Lecture, Web

BIOL 2310 – Human Anatomy & Phys I Lab 1 credit hour

Lecture Hours:0; Lab Hours:1 This accompanying lab course includes gross and microscopic study of the skeletal, muscular, nervous, and integumentary systems.

Co-requisite(s): BIOL 2300

Schedule type: Independent Study, Laboratory, Web

BIOL 2400 – Human Anatomy & Phys II 3 credit hours

Lecture Hours:3; Lab Hours:0 This course covers the structure and function of the endocrine, cardiovascular, respiratory, digestive, excretory, and reproductive systems.

Pre-requisite(s): BIOL 2300

Schedule type: Independent Study, Lecture, Web

BIOL 2410 – Human Anatomy & Phys II Lab 1 credit hour

Lecture Hours: 0; Lab Hours:1 This accompanying lab course includes dissections and physiological studies of the endocrine, cardiovascular, respiratory, digestive, excretory and reproductive systems.

Co-requisite(s): BIOL 2400

Schedule type: Independent Study, Laboratory, Web