BI 101 General Biology: Cells & Genes (4 Credits)
Designed to fulfill general education requirements, this course is intended for non-major students whose program requires biology courses. Centers on concepts of unity of living organisms including evolution, biochemistry, cell biology genetics and development. Need not be taken in sequence. Lab meets first week of classes.

BI 102 General Biology: Evolution (4 Credits)
Designed to fulfill general education requirements, this course is intended for non-major students whose program requires biology courses. Focus is on concepts of biological diversity including the evidence for and mechanisms of evolution, sexual selection, and adaptations to local environments. Need not be taken in sequence. Lab meets the first week of classes. This course includes animal dissection.

BI 103 General Biology: Ecology (4 Credits)
Designed to fulfill general education requirements, this courses is intended for non-major students whose program requires biology courses. Focus is on ecological concepts including interactions between organisms and the abiotic environment, co-evolutionary adaptations, and Central Oregon flora and/or fauna. Scheduled labs may include outdoor field trips. Need not be taken in sequence. Lab meets the first week of classes.

BI 105 Essentials of Human Biology (3 Credits)
Introductory human biology course covering structure and function of the body. Topics include relevant terminology, selected anatomical structures, normal function of human body systems, as well as the impact of selected pathological processes and age. Designed for Allied Health programs.

BI 121 Anatomy and Function I (4 Credits)
Covers body organization, the cell, skin, blood, heart and circulation, immunity, respiration, bones and skeletal muscles. Designed for pharmacy technician, medical assisting and massage therapy programs. Lecture and lab are taken simultaneously; they are not offered as separate classes. Preserved animal tissues are used in some labs.

BI 122 Anatomy and Function II (4 Credits)
**Recommended preparation:** BI 121.
Covers the nervous system, eyes, ears, reproduction, genetics, digestion, urinary system, hormones and diabetes. Designed for pharmacy technician, medical assisting and massage therapy programs. Lecture and lab are taken simultaneously; not offered as separate classes. Preserved animal tissues are used in some labs.

BI 142 Introduction to Marine Biology (4 Credits)
Examines the physical, chemical, and biological aspects of the marine environment with emphasis on ecology, biodiversity, sustainability and conservation of marine resources. Laboratory focuses on field experience through a multi-day trip to the Oregon Coast.

BI 188 Special Studies: Biology (1-6 Credits)
Explores topics of current interest in the discipline. P/NP grading.

BI 202 General Botany (4 Credits)
**Recommended preparation:** At least one previous biology course (BI 101, 102, 103, 211, 212, 213).
Studies plant anatomy, human interactions with plants, and especially plant taxonomy within an evolutionary framework. Focuses on flowering plant families common in Central Oregon and identification using taxonomic keys.

BI 205 Scientific Terminology: Latin and Greek Roots (3 Credits)
Designed for majors in natural science and social science wishing to enhance their understanding of the basic Latin and Greek prefixes, suffixes, and language roots that are applicable to study and reading in science-related fields. Develops skill in how words are formed, the history, meaning, pronunciation and spelling of scientific terms.

BI 211 Principles of Biology (5 Credits)
**Prerequisites:** WR 065 or WR 121 or minimum placement into WR 121 or (WR 121 plus WR 098).
**Prerequisites with concurrency:** CH 104 or CH 221.
Introduces basic principles common to all living organisms. Emphasizes the relationship between structure and function at the molecular and cellular levels of life. Emphasizes the structure of macromolecules that make up the cell. Explores the evolution of cellular morphology and the chemical processes of cellular function. Explores the genetic basis of evolution and how genetic information flows from DNA to RNA and from RNA to proteins. Designed for majors in the life sciences. BI 211 must be taken before BI 212 and BI 213. Living animals (insects) will be studied and processed in this class.

BI 212 Principles of Biology (5 Credits)
**Prerequisites:** BI 211.
Emphasizes transformations of energy and matter, systems level biology, and the structure and function of ecosystems. Studies the interrelationships between all forms of life and their environment. Emphasizes aspects of plant morphology and physiology that influence ecosystem function. Designed for majors in life sciences as well as those pursuing botany. Field Trips may be required.

BI 213 Principles of Biology (5 Credits)
**Prerequisites:** BI 211.
Examines evolutionary biology as well as animal diversity and systematics, morphology and physiology. Designed for majors in life sciences. This course includes animal dissection.

BI 231 Human Anatomy and Physiology I (4 Credits)
**Prerequisites:** WR 065 or minimum placement into WR 121 or (WR 121 plus WR 098).
Examines the structure and function of the human body utilizing a systems approach. Emphasizes body organization, cells, tissues, as well as microscopic and gross anatomy along with the functional roles of the integumentary, skeletal and muscular systems, and concludes with nerve cells and tissue. Concurrent labs include hands-on dissections of a variety of tissues, organs, rats, fetal pigs and/or cats. First course of a sequence for students in pre-nursing and other pre-professional health programs. This course includes animal dissection and cadaver observation.

BI 232 Human Anatomy and Physiology II (4 Credits)
**Prerequisites:** BI 231.
Continuation of examination of the structure and function of the human body utilizing a systems approach with an emphasis on anatomical and physiological relationships between nervous, endocrine and cardiovascular systems. Concurrent labs include hands-on dissections of a variety of tissues, organs, fetal pigs and/or cats. For students in pre-nursing and other pre-professional health programs. This course includes animal dissection and cadaver observation.
BI 233 Human Anatomy and Physiology III (4 Credits)
Prerequisites: BI 232.
Continuation of examination of the structure and function of the human body utilizing a systems approach. BI 233 emphasizes the anatomical and physiological relationships between the lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Concurrent labs include hands-on dissections of a variety of tissues, organs, fetal pigs and/or cats. For students in pre-nursing and other pre-professional health programs. This course includes animal dissection and cadaver observation.

BI 234 Microbiology (4 Credits)
Prerequisites: WR 065 (or higher) or minimum placement into WR 121 or WR 121 plus WR 098, and (BI 101, or BI 231 or BI 211).
Learn the characteristics and disease-causing features of microorganisms, especially the bacteria and viruses that cause serious infectious diseases in humans. Covers defense mechanisms against infections and disease, and the development of immunity against future infections. The mechanisms of action of certain classes of anti-microbial drugs are discussed. Also covers some of the historically-common human infections and diseases. Designed especially for students in nursing, pre-pharmacy and other pre-professional health programs.

BI 280 Co-op Work Experience Biology (1-4 Credits)
Prerequisites: instructor approval.
Provides experience in which students apply previous biology classroom learning in an occupational setting. Credits depend on the number of hours worked. P/NP grading.

BI 288 Special Studies: Biology (1-4 Credits)
Explores topics of current interest in the discipline.

BI 299 Selected Topics: Biology (1-5 Credits)
This course is in development.