Biology (BIOLOGY) 100
Critical Readings In Biology
Prepares students to read in the life sciences. Writing assignments, as appropriate to the discipline, are part of the course.
3 Lecture hours. 3 Credit Hours.
Offered At: HW

Biology (BIOLOGY) 101
General Course Biology I
Basic principles and concepts of biology; general considerations of biological processes, including cellular and organismic levels. Writing assignments, as appropriate to the discipline, are part of the course.
3 Lecture hours. 3 Credit Hours.
Offered At: KK, TR

Biology (BIOLOGY) 102
General Course Biology II
Continuation of Biology 101. Basic principles and concepts of biology; including how organisms reproduce and inherit; how life on earth evolved and how present day organisms relate to each other. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in BIOLOGY 101, or Consent of Department Chairperson.
3 Lecture hours. 3 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR

Biology (BIOLOGY) 103
Biology Of Human Sexuality
Structure and function in human sexuality; sexuality related to physical, mental, and emotional health; the relationships between sexual behavior and human ecology, population, gene frequencies, and society. Writing assignments, as appropriate to the discipline, are part of the course.
3 Lecture hours. 3 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR

Biology (BIOLOGY) 107
Nutrition-Consumer Education
Science of food as it relates to health, including food composition and utilization, food preparation and preservation, nutrition, special diets, fad foods, and foods of the future; social and political aspects of food in the world’s future. Writing assignments, as appropriate to the discipline, are part of the course.
3 Lecture hours. 3 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR
GE: Life Sciences

Biology (BIOLOGY) 109
Human Genetics & Evolution
Basis of inheritance; analysis of human pedigrees; sex-linkage; physical and behavioral aspects of human evolution. Writing assignments, as appropriate to the discipline, are part of the course.
3 Lecture hours. 3 Credit Hours.
Offered At: HW
IAI: L1 907 GE: Life Sciences

Biology (BIOLOGY) 110
Human Ecology
Effects of dense population, effect of humans on air, minerals, water, noise; and how these affect humans. Writing assignments, as appropriate to the discipline, are part of the course.
3 Lecture hours. 3 Credit Hours.
Offered At: KK
IAI: L1 904L GE: Life Sciences

Biology (BIOLOGY) 113
The Biology Of Women
A comprehensive look at the human female throughout her entire life span. Deals with Biological sex differentiation, fetal development and reproductive anatomy. Explains events of a woman's reproductive life from menarche to menopause, sexuality, birth control, infertility, and pregnancy. Discusses sexually transmitted diseases, gynecological problems, breast cancer, controversial treatments and health care. Examines sociological and cultural health factors that influence a woman's nutrition, physical activity, use of cosmetics, use and abuse of drugs. Writing assignments, as appropriate to the discipline, are part of the course.
Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.
3 Lecture hours. 3 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR
GE: Life Sciences HD Course

Biology (BIOLOGY) 114
General Education Biology
A laboratory course emphasizing scientific inquiry through selected concepts of biology, such as organization, function, heredity, evolution, and ecology. Biological issues with personal and social implications will be introduced to enable students to make informed decisions. This course is equivalent to the Illinois Articulation Initiatives General Education generic course numbered L1900L. Writing assignments, as appropriate to the discipline, are part of the course.
Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.
2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR, WR
IAI: L1 900L GE: Life Sciences

Biology (BIOLOGY) 115
Human Biology
Examines practical aspects of selected concepts in biology and their application to technology. Concepts may include heredity, growth, development, health, and ecology. Human systems may be studied as they relate to the major topics. Emphasis will be placed on the relationship of the issues to the individual and society. This course is equivalent to the Illinois Articulation Initiative's General Education generic course numbered L1904L. Writing assignments, as appropriate to the discipline, are part of the course.
Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.
2 Laboratory hours. 3 Lecture hours. 4 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR, WR
IAI: L1 904L GE: Life Sciences

Biology (BIOLOGY) 116
Introduction to Anatomy And Physiology
An introduction to human structure and function, from cellular structures to organ systems, with emphasis on scientific processes and common laboratory techniques. Writing assignments, appropriate to the discipline, are part of the course.
Eligibility for ENGLISH 101, or successfully completing BIOLOGY 120 with a grade of “C” or higher, or consent of Department Chairperson.
4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.
Offered At: DA, MX, OH, TR, WR
GE: Life Sciences
Biology (BIOLOGY) 119
Environmental Biology
This general education laboratory course is geared for both environmental science majors as well as non-science majors. The environment and human impacts on natural resources, pollution, and ecosystems are emphasized. Writing assignments, as appropriate to the discipline, are part of the course.
Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.
4 Laboratory hours. 2 Lecture hours. 3 Credit Hours.
Offered At: OH, TR, WR
IAI: L1 905L GE: Life Sciences

Biology (BIOLOGY) 120
Terminology For Medical Careers
Basic medical vocabulary for allied health professionals and others with minimal background in anatomy and physiology; includes study of the human body systems. Writing assignments, as appropriate to the discipline, are part of the course.
3 Laboratory hours. 3 Credit Hours.

Biology (BIOLOGY) 121
Cellular and Molecular Biology. Introduction to biochemistry, molecular genetics, cell structure, function and processes. Laboratory required. Writing assignments, as appropriate to the discipline, are part of the course.
Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.
2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.

Biology (BIOLOGY) 122
Biochemistry
Continuation of Biology 121. Organismal biology, ecology, and evolution. An introduction to structure and function of major groups of microorganisms, fungi, animals, and plants. Emphasis on evolutionary relationships and ecological principles. Laboratory required. Writing assignments, as appropriate to the discipline, are part of the course.
Offered At: DA, HW, KK, MX, OH, TR, WR
IAI: BIO 910, L1 910L GE: Life Sciences

Biology (BIOLOGY) 130
Human Cadaver Anatomy I
Student-directed learning experiences designed to enhance histology and human cadaver competence. Includes osteology, articulations. Skeletal muscles, and neurology. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in BIOLOGY 226.
1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.
Offered At: MX

Biology (BIOLOGY) 131
Human Cadaver Anatomy II
Continuation of Biology 130. Directed learning experiences are designed to enhance histology and human cadaver competence. Primarily stresses the following areas: cardiovascular, thoracic and abdominal cavity systems. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in (BIOLOGY 226 and BIOLOGY 227), or Consent of Department Chairperson.
1 Laboratory hours. 0.5 Lecture hours. 1 Credit Hours.
Offered At: MX

Biology (BIOLOGY) 200
Field Biology
Natural history of local biota. Laboratory and field identification of plants and animals with a study of their habitats and relationships. Writing assignments, as appropriate to the discipline, are part of the course.
Eligibility for ENGLISH 101 based on prior coursework or CCCRTW, ACT, SAT, GED, or HiSET test scores, or Consent of Department Chairperson.
3 Laboratory hours. 2 Lecture hours. 3 Credit Hours.

Biology (BIOLOGY) 201
Individual Topics in Biology
Students may conduct laboratory research, engage in a library project, and attend seminars. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: No more than 2 credit hours counted toward graduation.
0.5 Laboratory hours. 1 Lecture hours. 1 Credit Hours.
Offered At: HW, KK, TR, WR
Repeatable: Yes, up to 2 times

Biology (BIOLOGY) 205
Pathophysiology
This course introduces the students to pathophysiology, which is the systematic study of the functional changes in cells, tissues, and organs altered by disease and/or injury. Students will also be introduced to the molecular and cellular basis of disease. Background in Anatomy and Physiology (Biology 226 and 227) is highly recommended for this course. Writing assignments, as appropriate to the discipline, are part of the course.
Completion of BIOLOGY 115 or BIOLOGY 116 with a grade of C or higher or BIOLOGY 226 and BIOLOGY 227 completion or BIOLOGY 226 completion and concurrent enrollment in BIOLOGY 227.
3 Lecture hours. 3 Credit Hours.
Offered At: DA, MX, OH

Biology (BIOLOGY) 209
Biochemistry
Biochemistry is designed to give the student in life sciences, allied health fields, and biotechnology a basic understanding of the biological processes at the molecular, cellular and organismic level. An emphasis is placed on the use of laboratory tools and equipment in order to familiarize the student with current biochemical techniques. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in BIOLOGY 121 and CHEM 205. Concurrent enrollment or prior completion of CHEM 207 with a grade of C or better, or Consent of Department Chairperson.
4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.
Offered At: HW, MX, TR
Biology (BIOLOGY) 210
Survey Of Biotechnology
This course will serve to introduce students to modern biotechnology which is based on recent developments in molecular biology, especially those in genetic engineering and bioengineering. Students will explore the diversity of the field focusing on such areas as medicine, biohazard, bioremediation, biocatalysis, biosafety, agriculture, forensics, quality control and assurance, testing, regulation, law and policy, intellectual property, proteomics, pharmacogenomics, nutrition, and product development. This course will incorporate speakers that are representative of specific areas in biotechnology. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in BIOLOGY 226, or Consent of Department Chairperson.
2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR, WR

Biology (BIOLOGY) 226
Human Structure and Function I
Human anatomy and physiology. This laboratory course is recommended for those contemplating a career in the health professions and emphasizes the structure and function of the human body. Microscopic and gross anatomy are correlated with physiology. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in BIOLOGY 121.
2 Laboratory hours. 2 Lecture hours. 3 Credit Hours.
Offered At: HW, TR

Biology (BIOLOGY) 227
Human Structure and Function II
Continuation of Biology 226. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in BIOLOGY 226, or Consent of Department Chairperson.
4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.
Offered At: DA, HW, KK, MX, OH, TR, WR

Biology (BIOLOGY) 236
Environmental Biology II
This course is a continuation of Biology 119. Environmental sampling and analysis techniques will be taught in the laboratory. Topics such as environmental toxicology, bioremediation, genetic contamination of plant species, conservation biology, and environmental law, policy and ethics may be covered in the lecture. Writing assignments, as appropriate to the discipline, are part of the course.
4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.
Offered At: OH

Biology (BIOLOGY) 240
Vertebrate Embryology
Introduction to the major morphogenetic events in vertebrate development, including development of gametes, fertilization, and the development of organ systems. Special attention will be paid to human development, developmental anomalies, and teratogens. Laboratory required. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in BIOLOGY 226, or consent of department chairperson.
2 Laboratory hours. 4 Lecture hours. 5 Credit Hours.
Offered At: MX

Biology (BIOLOGY) 241
Genetics
Principles of heredity, structure of genetic material, mechanism of transmission, and the role of genetics in evolution. Application of these principles to human and other organisms is included. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in (BIOLOGY 101 and BIOLOGY 102), or (BIOLOGY 114 and BIOLOGY 115), or Consent of Department Chairperson.
2-3 Lecture Hours. 3-4 Credit Hours.
Offered At: DA

Biology (BIOLOGY) 242
Evolution
Origin, history and development of plants and animals. Includes evidence from anatomy, paleontology, comparative physiology, biochemistry, immunology, and genetics. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in (BIOLOGY 101 and BIOLOGY 102), or (BIOLOGY 114 and BIOLOGY 115), or Consent of Department Chairperson.
2-3 Lecture Hours. 2-3 Credit Hours.
Offered At: DA

Biology (BIOLOGY) 250
Intro To Molecular Biology
The first course in a three-part series in the biotechnology program/plan 215. This course stresses an introduction to current concepts and progress in modern molecular biology with emphasis on DNA science and genetic engineering as it applies to molecular, cellular and organismic biology. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: Not more than an accumulated six credit hours will be counted toward graduation.
Grade of C or better in BIOLOGY 121, or Consent of Department Chairperson.
3 Lecture hours. 3 Credit Hours.
Offered At: HW, KK, TR

Biology (BIOLOGY) 251
Molecular Biology I
The second course in a three-part series in the biotechnology program/plan 215. The course stresses the theory and practice of separation techniques and safety procedures that would be employed in the purification and assay of such biomolecules as nucleic acids, proteins and other related substances and the relationship of these molecules to living organisms. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in BIOLOGY 250, or Consent of Department Chairperson.
4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.
Offered At: HW, TR

Biology (BIOLOGY) 252
Molecular Biology II
The third course in a three part series, stresses the theory and practice of current techniques used in DNA science, protein isolation, immunology and introduces selected biotechnology protocols. An emphasis is placed on the use of laboratory tools and equipment in order to familiarize the student with current biochemical techniques. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in BIOLOGY 251, or Consent of Department Chairperson.
4 Laboratory hours. 2 Lecture hours. 4 Credit Hours.
Offered At: TR
Biology (BIOLOGY) 253
Plant Molecular Biology
This course is designed for students in the life sciences, and biotechnology to understand how plants function at the molecular level and discuss the current advances in plant molecular biology and genetic engineering. Writing assignments, as appropriate to the discipline, are part of the course.
Grade of C or better in (BIOLOGY 121 or 250), or Consent of Department Chairperson.
3 Lecture hours. 3 Credit Hours.
Offered At: HW

Biology (BIOLOGY) 295
Undergraduate Research In Biology
Undergraduate Research in Biology allows the student to explore a topic of interest under the supervision of a faculty member. The course may include literature readings, research methodologies, attending seminars and professional meetings, engaging in independent research project/study, applying for scholarships, formal presentations or other activities deemed appropriate. In summary, this course provides students firsthand research experience and it encourages them to explore opportunities at upper levels to further develop their research skills. Writing assignments, as appropriate to the discipline, are part of the course. Allowed Repeatable Course: not more than an accumulated six credit hours will be counted toward graduation.
Grade of C or better in BIOLOGY 121 or 122 or Consent of Department Chairperson.
2 Laboratory hours. 1 Lecture hours. 2-6 Credit Hours.
Offered At: MX
Repeatable: Yes, up to 3 times

Biology (BIOLOGY) 299
Special Topics In Biology
Special topics in biology and biotechnology will be discussed along with appropriate lab and/or field trip activities. New developments will be emphasized, especially materials useful in K-12 education and industry. Writing assignments, as appropriate to the discipline, are part of the course.
0.5-5 Lecture Hours. 0-2 Laboratory Hours. 1-6 Credit Hours.
Offered At: DA, HW, KK, OH, TR, WR
Repeatable: Yes, up to 4 times