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## LaGrange College

### Course Catalog - Biology

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## B.A. in Biology and M.A.T. - B.A. in Biology and M.A.T.

### Type:Major

Undergraduate students who meet the admission requirements for the M.A.T (passing GACE Program Admissions Assessment or a combined SAT score of more than 1080 (1000 prior to July 01, 2019) and completing the Georgia Code of Ethics for Educators Assessment) and those who have a GPA of 3.0 or higher in their undergraduate studies are eligible to participate in a combined B.A. and M.A.T. program of study after the completion of 90 semester hours. Once accepted, candidates may take entering M.A.T. cohort graduate courses the Summer Semester following their junior year of study. Upon gaining senior status, candidates may take one (1) three-credit graduate course during the Fall, Interim, and Spring semesters only if enrolled with twelve (12) undergraduate credits.

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## B.A. in Biology - B.A. in Biology

### Type:Major

In addition to completing the general education curriculum requirements, students pursuing a major in Biology must complete program requirements. The program offers a **Bachelor of Arts in Biology** with the following criteria:

- Ethos Curriculum (including [BIOL 1107](#), [1107 L](#), [1108](#), and [1108 L](#); A C- or better is required in these courses to declare the biology major or minor and to enroll in upper level biology courses). These courses fulfill PG2, Laboratory Science and the Natural World, of the Ethos Curriculum.
- [CHEM 1101](#) and [1102](#) ([MATH 1101](#) is the prerequisite.)
- A total of two (2) MATH courses for **Ethos** curriculum; choose from **Ethos PG1** [MATH 1101](#), [MATH 1221](#), or [MATH 2221](#) and choose from [MATH 1114](#), [MATH 1221](#), or [MATH 2221](#) for the biology major requirements
- Choice of one (1) cellular-level biology course ([BIOL 3321](#), [3322](#), [3360](#), [3370](#), [3372](#), [3373](#), [3374](#), [3376](#))
- Choice of one (1) organismal-level biology course ([BIOL 3334](#), [3335](#), [3336](#), [3340](#), [3351](#), [3353](#), [3384](#))
- [BIOL 4470](#)—Senior Seminar
- Six (6) additional upper level biology courses (Biochemistry I or II, [CHEM 4421](#) or [CHEM 4422](#), may be chosen as one of these courses. [BIOL 2148](#) or [2149](#) may be counted as one of these courses.) [BIOL 4470](#) and [BIOL 4496](#) do not satisfy this requirement.

This represents 45 semester hours of coursework in addition to the Core requirements.

No more than one approved upper-level course taken as a transient student at another institution may fulfill one of the biology major courses. All BIOL courses and CHEM 4421 and 4422 must be completed with a grade of C- or better to fulfill graduation requirements and to fulfill prerequisite requirements for other courses.

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## Minor in Biology - Minor in Biology

### Type:Minor

In addition to completing the general education curriculum requirements, students pursuing a minor in Biology must complete the following program requirements:

- [BIOL 1107](#), [1107 L](#), [1108](#), and [1108 L](#) or [BIOL 2148](#) and [2149](#); A C- or better is required in these courses to declare the biology major or minor and to enroll in upper level biology courses. These courses fulfill PG2, Laboratory Science and the Natural World, of the Ethos Curriculum.
- Choice of one (1) cellular-level biology course ([BIOL 3321](#), [3322](#), [3360](#), [3370](#), [3372](#), [3373](#), [3374](#), [3376](#))
- Choice of one (1) organismal-level biology course ([BIOL 3334](#), [3335](#), [3336](#), [3340](#), [3351](#), [3353](#), [3384](#))
- Two (2) additional upper-level biology courses (one of these courses may be [CHEM 4421](#) or [CHEM 4422](#)). If [BIOL 1107](#), [1107L](#), [1108](#), and [1108L](#) are used as the PG2 requirement in the Ethos Curriculum, either [BIOL 2148](#) or [2149](#) may satisfy one of the required courses in this section. [BIOL 4470](#) and [BIOL 4496](#) do not satisfy this requirement.
- All courses must be completed with a C- or better.

This represents 16 semester hours of coursework in addition to the Ethos requirements.

No more than one approved upper-level course taken as a transient student at another institution may fulfill one of the biology major courses. All BIOL courses and CHEM 4421 and 4422 must be completed with a grade of C- or better to fulfill graduation requirements and to fulfill prerequisite requirements for other courses.

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## B.S. in Biology - B.S. in Biology

### Type:Major

In addition to completing the general education curriculum requirements, students pursuing a major in Biology must complete program requirements. The program offers a **Bachelor of Science in Biology** with the following criteria:

- Ethos Curriculum including [BIOL 1107](#), [1107 L](#), [1108](#), and [1108 L](#); A C- or better is required in these courses to declare the biology major or minor and to enroll in upper level biology courses. These courses fulfill PG2, Laboratory Science and the Natural World, of the Ethos Curriculum.
- [CHEM 1101](#) and [1102](#) ([MATH 1101](#) is prerequisite)
- A total of two(2) MATH courses for Ethos curriculum; choose from **Ethos PG1** [MATH 1101](#), [MATH 1221](#), or [MATH 2221](#) and choose from [MATH 1114](#), [MATH 1221](#), or [MATH 2221](#) for the biology major requirements
- Choice of one (1) cellular-level biology course ([BIOL 3321](#), [3322](#), [3360](#), [3370](#), [3372](#), [3373](#), [3374](#), [3376](#))
- Choice of one (1) organismal-level biology course ([BIOL 3334](#), [3335](#), [3336](#), [3340](#), [3351](#), [3353](#), [3384](#))

- Organic Chemistry I ([CHEM 3201](#)) and Organic Chemistry II ([CHEM 3202](#))
- Introductory Physics I ([PHYS 1101](#)) and Introductory Physics II ([PHYS 1102](#)) ([MATH 1221](#) is the prerequisite)
- [BIOL 4470](#)—Senior Seminar
- Five (5) additional upper level biology courses (Biochemistry I or II, [CHEM 4421](#) or [CHEM 4422](#), may be chosen as one of these courses. [BIOL 2148](#) or [2149](#) may be counted as one of these courses.) [BIOL 4470](#) and [BIOL 4496](#) do not satisfy this requirement.

This represents 57 semester hours of coursework in addition to the Core requirements. No more than one approved upper-level course taken as a transient student at another institution may fulfill one of the biology major courses. All BIOL courses and CHEM 4421 and 4422 must be completed with a grade of C- or better to fulfill graduation requirements and to fulfill prerequisite requirements for other courses.

## **BIOL 1101 - General Biology I**

This is the beginning biology course for non-majors. General Biology deals with the phenomenon of life as is manifested in all types of living organisms. The origin of life, chemistry of life, cellular and tissue organization, metabolism, cell division, genetics, and gene action are among topics covered. This course fulfills 3 hours of the laboratory science portion of the Ethos (PG2) Curriculum requirements.

**Grade Basis:** AL

**Credit hours:** 3.0

**Lecture hours:** 3.0

**Restrictions:**

- Offered in Fall terms

## **BIOL 1102 - General Biology II**

This course is a continuation of General Biology I. General Biology deals with the phenomenon of life as is manifested in all types of living organisms. Evolution, diversity of life, ecology and the functioning of the organ systems are among topics covered. This course fulfills 3 hours of the laboratory science portion of the Ethos (PG2) Curriculum requirements.

**Grade Basis:** AL

**Credit hours:** 3.0

**Lecture hours:** 3.0

**Prerequisites:**

- [BIOL 1101](#) - General Biology I

**Restrictions:**

- Offered in Spring terms
  - Co-requisite: BIOL 1102 L
- 

**BIOL 1102 L - General Biology II Laboratory**

This laboratory course is designed to complement and provide experiential learning for General Biology II. This course fulfills 1 hour of the laboratory science portion of the Ethos (PG2) general education requirements. This lab meets 1.5 hours per week.

**Grade Basis:** AL

**Credit hours:** 1.0

**Lab hours:** 2.0

**Prerequisites:**

- [BIOL 1101](#) - General Biology I

**Restrictions:**

- Corequisite: BIOL 1102
  - Offered in Spring terms
- 

**BIOL 1107 - Principles of Biology I**

An introductory biology course for science majors that includes scientific method and its application, biological chemistry, cell structure and function, energy transfer, cell cycle, and mitosis. This course fulfills 3 hours of the laboratory science portion of the Ethos (PG2) Curriculum requirements.

**Grade Basis:** AL

**Credit hours:** 3.0

**Lecture hours:** 3.0

**Restrictions:**

- Must place in MATH 1101 or higher on math placement exam
  - Corequisite: BIOL 1107L
  - Offered in Fall terms
- 

**BIOL 1107 L - Principles of Biology I Laboratory**

Laboratory experience for science majors to accompany topics from BIOL 1107. This course focuses on the scientific method, data acquisition, manipulation and analysis, and presentation of results. This course fulfills 1 hour of the laboratory science portion of the Ethos (PG2) Curriculum requirements. Lab meets 3 hours per week.

**Grade Basis:** AL

**Credit hours:** 1.0

**Lab hours:** 3.0

**Restrictions:**

- Must place in MATH 1101 or higher on math placement exam
  - Corequisite: BIOL 1107
  - Offered in Fall terms
- 

## **BIOL 1108 - Principles of Biology II**

A continuation of introductory biology for science majors. Topics include genetics and meiosis, evolution, biodiversity, physiology, and ecology. This course fulfills 3 hours of the laboratory science portion of the Ethos (PG2) Curriculum requirements.

**Grade Basis:** AL

**Credit hours:** 3.0

**Lecture hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory

**Restrictions:**

- Corequisite: BIOL 1108L
  - Offered in Spring terms
- 

## **BIOL 1108L - Principles of Biology II Laboratory**

Laboratory experience for science majors to accompany topics from BIOL 1108. This course focuses on the scientific method, data acquisition, manipulation and analysis, and presentation of results. This course fulfills 1 hour of the laboratory science portion of the Ethos (PG2) Curriculum requirements.

**Grade Basis:** AL

**Credit hours:** 1.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory

**Restrictions:**

- Corequisite: BIOL 1108

- Offered in Spring terms
- 

## **BIOL 2148 - Human Anatomy and Physiology I**

A study of the structure and function of the human body. Designed for pre-nursing majors. This course consists of 3 hours of lecture and 1.5 hours of lab per week. This course fulfills 4 credit hours of the laboratory science portion of the Ethos (PG2) Curriculum requirements.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Restrictions:**

- Offered in Fall terms
- 

## **BIOL 2149 - Human Anatomy and Physiology II**

A continuation of Human Anatomy and Physiology I. This course consists of 3 hours of lecture and 1.5 hours of lab per week. This course fulfills 4 credit hours of the laboratory science portion of the Ethos (PG2) Curriculum requirements.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Prerequisites:**

- [BIOL 2148](#) - Human Anatomy and Physiology I

**Restrictions:**

- Offered in Spring terms
- 

## **BIOL 3320 - Medical Microbiology**

A study of human disease caused by pathogenic microbes and helminths. Designed for pre-health professions majors. Laboratory activities focus on bacteria as model organisms. This course consists of 3 hours of lecture and 1.5 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Prerequisites:**

- [BIOL 2148](#) - Human Anatomy and Physiology I
- [BIOL 2149](#) - Human Anatomy and Physiology II

**Restrictions:**

- Offered in Spring terms
- 

**BIOL 3321 - Microbiology**

A study of the morphology, physiology, classification, ecology, and economics of microbial forms, especially bacteria and fungi. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- Offered on Demand
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

**BIOL 3322 - Immunology**

A study of the fundamentals of immunology. Topics will include tissues and control of the immune system, including dynamics of B cell and T cell activation and function, inflammation and autoimmune disorders. Laboratory experiences include antigen-antibody interactions in gels, on membranes and in tissues, as well as complement-mediated cell lysis. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory



**Restrictions:**

- Offered in Spring terms (Even years).
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

**BIOL 3334 - General Ecology**

An introduction to the basic principles and concepts of ecology with emphasis on environmental sampling, analysis and characterization. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- Offered in Spring terms (Even years).
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

**BIOL 3335 - General Zoology**

A phylogenetic approach to the Animal kingdom following cladistic principles. Emphasis will be placed upon representative animal groups and the position of Animalia within the domains of life. Studies of local faunae will be highlighted. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- Offered in Spring terms (Odd years).
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

**BIOL 3336 - General Botany**

A phylogenetic and ecological survey of the kingdom Plantae. The focus will be on the general anatomy and physiology of plants as well as the natural history and ecology of plants. Lab work will be field based and strongly oriented toward the local flora. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- Offered in Fall terms (Odd years).
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

**BIOL 3340 - Conservation Biology**

An introduction to the principles and practices involved in the management of endangered species, communities and ecosystems. We will investigate how species natural history, ecology and population dynamics interact with human activities to impact the loss of species diversity. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- Offered in Fall terms (Even years).
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

**BIOL 3351 - Vertebrate Embryology**

A study of the embryological development of representative vertebrates, with laboratory emphasis upon the frog and chick. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- BIOL 2148 and 2149 may replace BIOL 1107/L and 1108/L as pre-requisite
  - Offered in Fall terms (Even years).
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

**BIOL 3353 - Fundamentals of Evolutionary Theory**

A balanced survey of the present-day concepts of evolution with emphasis on human evolution/paleoanthropology. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- BIOL 2148 and 2149 may replace BIOL 1107/L and 1108/L as pre-requisite
  - Offered in Fall terms (Even years).
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

**BIOL 3360 - Histology**

A study of the microscopic features of mammalian cells, tissues, and organs. Lectures correlate cell structure with tissue function. Laboratory experiences include the microscopic identification of tissues and organs at the cellular level. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- BIOL 2148 and 2149 may replace BIOL 1107/L and 1108/L as pre-requisite
  - Offered in Fall terms (Odd years).
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

**BIOL 3370 - Toxicology**

An introduction to the basic principles of toxicology. Topics include the cellular sites of action of toxicants, their physiological absorption, distribution and excretion and their effects on tissues and in an ecosystem. The lab applies these principles by students' implementation and analysis of data of an original research project. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- Offered in Fall terms (Even years).
- Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)

## **BIOL 3372 - Molecular Biology**

A molecular study of genes, their expression, the control of their expression, and the gene products that result. The lab uses molecular techniques to study questions involving genes and their gene products. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory
- [CHEM 1101](#) - General Chemistry I

**Restrictions:**

- Offered in Spring terms (taught in rotation with BIOL 3376; generally odd years)
- Current enrollment in (or completion of) CHEM 1102
- Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- Recommended: successful completion of BIOL 3373 or other upper-level cellular/molecular BIOL course
- Recommended: successful completion of CHEM 3201 and current enrollment in (or completion of) CHEM 3202

## **BIOL 3373 - Genetics**

This course includes topics in both classical and molecular genetics. Topics of study may include but are not limited to Mendelian and non-Mendelian transmission of genes, sex-linked traits, chromosomal genetics and genomes, DNA structure, replication,

mutation and repair, gene expression and its regulation, and other molecular genetics topics. The laboratory will evaluate wild-type and mutant model organisms using classical and/or molecular genetic approaches as well as pursue research questions in genetics using model organisms and other systems. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- Offered in Fall terms.
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

## **BIOL 3374 - Cell Physiology**

An advanced study of the structure and functions of the eukaryotic cell. Topics include the structure and function of macromolecules, the plasma membrane, intracellular trafficking and cell signaling. The lab uses techniques to microscopically identify organelles and cells, examine the role of enzymes and identify specific proteins involved in cell death. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- Offered in Spring terms (Odd years).
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
-

## **BIOL 3376 - Virology**

This introduction to virology will focus on animal viruses that are important for basic science and human and animal diseases. The topics in this course may include viral taxonomy, structure, entry/exit, replication, quantitation, genetics, pathogenesis, and virus-host interaction. The laboratory will study model viral systems. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- Offered in Spring terms (taught in rotation with BIOL 3372, generally even years)
  - Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

## **BIOL 3384 - Neurobiology**

An integrated study of the human nervous system correlating neuroanatomy and neurophysiology with fundamentals of clinical neurology. This course consists of 3 hours of lecture and 3 hours of lab per week.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [BIOL 1107](#) - Principles of Biology I
- [BIOL 1107 L](#) - Principles of Biology I Laboratory
- [BIOL 1108](#) - Principles of Biology II
- [BIOL 1108L](#) - Principles of Biology II Laboratory

**Restrictions:**

- BIOL 2148 and 2149 may replace BIOL 1107/L and 1108/L as pre-requisite
- Offered in Spring terms

- Minimum of C- in prerequisite courses is required to enroll in upper level biology courses (3000-4000)
- 

## **BIOL 4470 - Senior Seminar**

Senior seminar is a thematic capstone course that is a broad, integrative experience in biology. The course promotes independent thinking, develops analytical skills, and provides practice in group discussion and in written and oral presentation. This course is required of all biology majors. Seniors enroll in BIOL 4470 in their last spring semester of enrollment.

**Grade Basis:** AL

**Credit hours:** 1.0

**Lecture hours:** 1.0

**Restrictions:**

- Prerequisite: Senior Standing, Biology Major
  - Offered in Spring terms
- 

## **BIOL 4495 - Independent Study**

Although not required as part of the biology major, this course provides an opportunity for students, on an individual basis, to pursue in-depth research of a particular biology topic, question, or problem. Up to 4 hours of BIOL 4495 may be counted toward fulfillment of the major.

**Grade Basis:** AL

**Credit hours:** 4.0

**Lecture hours:** 4.0

**Restrictions:**

- Course Hours: (1-4)
  - Prerequisites: consent of the instructor, the department chair, and the Vice President for Academic Affairs (VPAA)
  - On demand
- 

## **BIOL 4496 - Internship**

An opportunity for students to gain added experience and insight in approved off-campus settings. The internship cannot be counted as one of the courses required for the major or minor in biology. Prerequisites: consent of the supervising instructor, department chair, and the Career Development Center

**Grade Basis:** AL

**Credit hours:** 3.0



**Lecture hours:** 3.0

**Restrictions:**

- Course Hours: (1-3)
- On demand

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