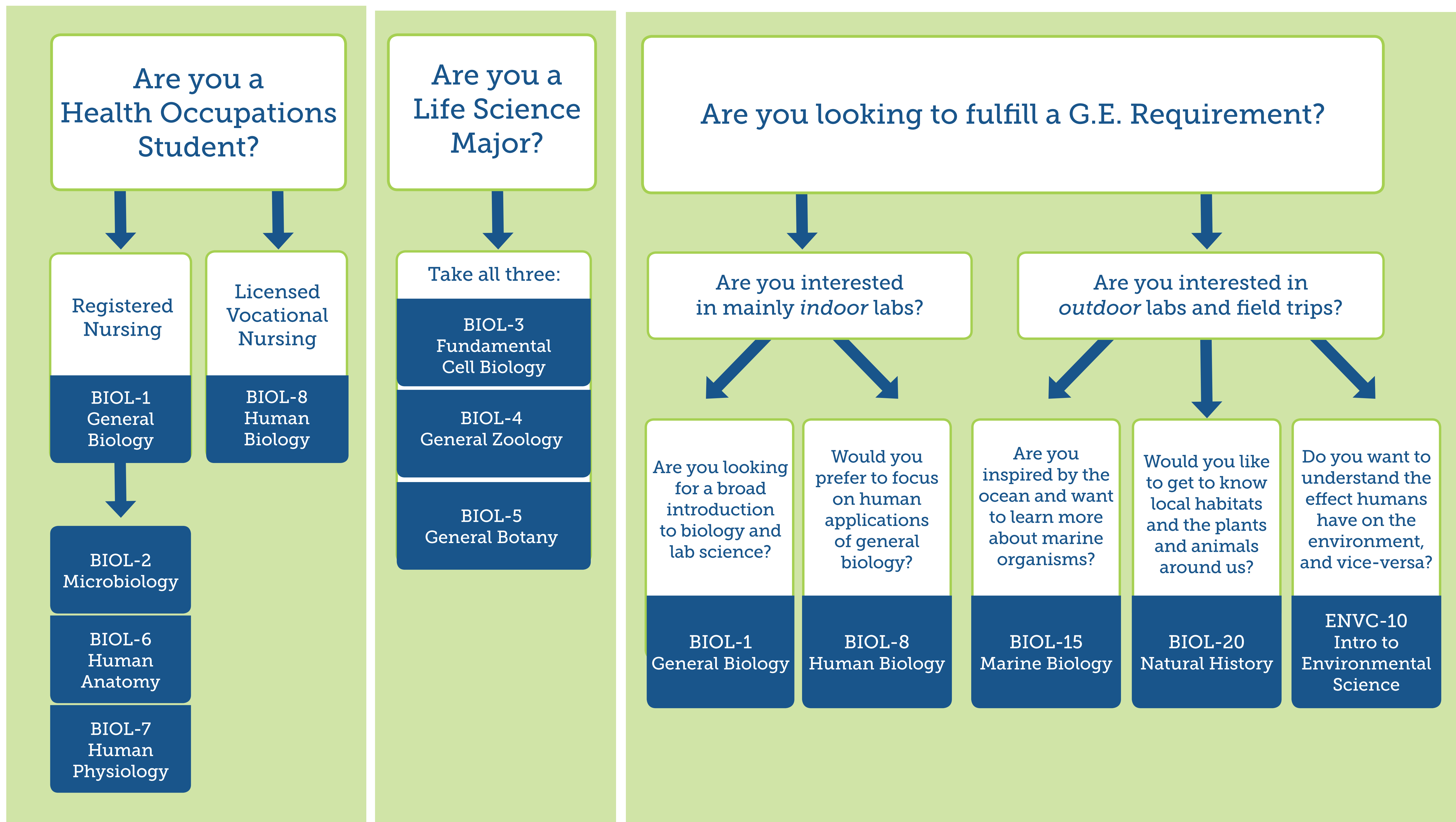




# Which Biology Course is Right for You?



# COURSE DESCRIPTIONS

## ■ Biology [BIOL]

### BIOL-1 General Biology

(4 Units LEC/LAB) P/NP option  
Recommended Prep: ENGL-150  
Transfers to: UC and CSU

An introductory course in life science dealing with basic biological concepts including molecular and cell biology, metabolism, heredity, evolution, ecology, natural history, and biodiversity.

*Note: This course is designed for non-science majors and nursing/health occupation students. Not open to students who have completed or who are currently enrolled in BIOL-3.*

### BIOL-2 Microbiology

(4 Units LEC/LAB) Grade only  
Prerequisite: BIOL-1 or BIOL-3  
Corequisite: CHEM-1A or CHEM-2  
Recommended Prep: ENGL-150 and MATH-120  
Transfers to: UC and CSU

A study of microorganisms including anatomy, physiology, genetics, and ecological importance. Emphasis will be on the role of microorganisms in disease and the mechanisms of microbe/host interactions. Laboratory work emphasizes the importance of aseptic techniques, methods of microbial control, and procedures for isolating, culturing microbes, and identifying microorganisms.

### BIOL-3 Fundamental Cell Biology

(4 Units LEC/LAB) Grade only  
Prerequisite: ENGL-150 and MATH-120 and either CHEM-1A or CHEM-2.  
Transfers to: UC and CSU

A course intended for biology majors covering principles and applications of prokaryotic and eukaryotic cell structure and function, biological molecules, homeostasis, cell reproduction and its controls, classical and molecular genetics, cell metabolism, and cellular communication.

### BIOL-4 General Zoology

(4 Units LEC/LAB) Grade only  
Prerequisite: MATH-120 and ENGL-150  
Recommended Prep: CHEM-100  
Transfers to: UC and CSU

An introduction to the anatomy, physiology, and ecology of the major animal taxa in an explicitly evolutionary and comparative framework.

*Note: This course is intended for majors.*

### BIOL-5 General Botany

(4 Units LEC/LAB) Grade only  
Transfers to: UC and CSU

A study of form, function, ecology, natural history, and evolution of members of the plant kingdom.

*Note: This course is designed for those majoring in biological sciences or related fields. UC Admissions requires that students have MATH-120 as a prerequisite or corequisite for this course.*

### BIOL-6 Human Anatomy

(4 Units LEC/LAB) Grade only  
Prerequisite: ENGL-150 and credit for or enrollment in BIOL-1  
Transfers to: UC and CSU

An introduction to human anatomy. The course includes the study of the gross and microscopic structure of all of the organ systems of the human body with special emphasis on the relation between structure and function. Laboratory work includes the study of human cadavers.

### BIOL-7 Human Physiology

(4 Units LEC/LAB) Grade only  
Prerequisite: ENGL-150 and BIOL-1 and BIOL-6 and (CHEM-2 or CHEM-1A)  
Transfers to: UC and CSU

An organ system approach to the study of human physiology. Special emphasis is given to molecular and cellular mechanisms responsible for homeostasis. Labs include experiments on human subjects as well as computerized simulations of complex physiological processes.

*Note: This course is required for application to the nursing program.*

### BIOL-8 Human Biology

(4 Units LEC/LAB) Grade only  
Prerequisite: ENGL-150  
Transfers to: CSU

A survey of human biology focusing on concepts in cell biology, genetics, anatomy, physiology, disease, and evolution as they relate to the human body. Students apply and evaluate these concepts in laboratory activities that include microscopy, experimentation, and dissection.

*Note: This course is specifically designed for students in the Licensed Vocational Nursing program and also satisfies life science general education requirements at CR and CSU. Students who have completed BIOL-1 should not take this course*

*unless they are planning on entering the LVN program. Also, students who have successfully completed both BIOL-6 and BIOL-7 are not eligible to enroll in this course.*

### BIOL-15 Marine Biology

(4 Units LEC/LAB) P/NP option  
Recommended Prep: ENGL-150  
Transfers to: UC and CSU

An introduction to ocean habitats and marine life. Topics covered include physical properties that define marine habitats, the diversity and ecology of marine organisms, and marine resource use and conservation. Labs and field trips focus on local habitats and the identification of local species.

*Note: This course includes required field trips to local marine habitats. The College does not provide transportation.*

### BIOL-20 Natural History

(4 Units LEC/LAB) P/NP option  
Prerequisite: ENGL-150  
Transfers to: UC and CSU

An introduction for non-science majors to the biotic communities of California and the identification, ecology and life history of the organisms living there. Coverage includes principles of ecology and evolution, techniques for studying organisms in the wild, and methods of recording field data.

*Note: Field trips are required. The College does not provide transportation. UC and CSU transferability requires a grade.*

## ■ Environmental Science [ENVSC]

### ENVSC-10 Introduction to Environmental Science

(4 Units LEC/LAB) P/NP option  
Recommended Prep: ENGL-150  
Transfers to: UC and CSU

A study of current and historical issues in the environmental sciences. This course emphasizes the interdisciplinary nature of environmental science, including physical and biological sciences as well as integrating social, economic, and ethical viewpoints in dealing with environmental problems. Laboratories augment lecture topics and include both lab and field work.

*Note: This course is designed for non-science majors. Field trips are required and transportation is not provided.*



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