

# BIOLOGY (BIOL)

## Biology (BIOL)

### **BIOL 180 Introduction to Marine Biology 5 Credits**

Introduces students to the marine environment including principles of marine biology. Explores the interrelatedness of the physical, chemical, and biological components of the sea and the organisms that live in it. Also discusses the human impact on the ocean. Field trip(s) required.

**Prerequisite:** None.

**Distribution Requirements:** Natural Science with Lab

### **BIOL 214 Undergraduate Research I 2 Credits**

Prepares students to successfully complete their own scientific research project by introducing the use of the scientific method, ethics, research methods, proposal writing, and presentation techniques. This course also introduces students to research opportunities in the South Sound region.

**Prerequisite:** Prerequisite: Completion of or concurrent enrollment in CHEM& 161 or PHYS& 114 or PHYS& 221 or BIOL& 211 or instructor's permission.

### **BIOL 215 Undergraduate Research II 1 Credit**

Prepares students to successfully complete their own scientific research project by introducing the use of the scientific method, ethics, research methods, proposal writing, and presentation techniques. This course also introduces students to research opportunities in South Sound region.

**Prerequisite:** Prerequisite: BIOL 214 or CHEM 214 or PHYS 214 or instructor's permission.

### **BIOL 216 Undergraduate Research III 2 Credits**

Provides a framework for students to carry out their own scientific research project in collaboration with peers and mentors.

**Prerequisite:** Prerequisite: BIOL 214 or CHEM 214 or PHYS 214 or instructor's permission.

## Biology (CCN) (BIOL&)

### **BIOL& 100 Survey of Biology 5 Credits**

Introduces foundational biological concepts, including ecology, evolution, heredity and organismal and cellular structure and physiology.

**Prerequisite:** None.

**Distribution Requirements:** Natural Science

### **BIOL& 160 General Biology W/Lab 5 Credits**

Introduces foundational biological concepts including cell structure and function, metabolism, genetics, biotechnology, biological diversity, evolution, and ecology. Preparatory for further studies including BIOL& 211 and BIOL& 241.

**Prerequisite:** None.

**Distribution Requirements:** Natural Science, Natural Science with Lab

### **BIOL& 175 Human Biology W/Lab 5 Credits**

Covers elementary anatomy and physiology of the human body. Appropriate for non-majors (not for Nursing or Biology majors).

**Prerequisite:** None.

**Distribution Requirements:** Natural Science, Natural Science with Lab

### **BIOL& 211 Majors Cellular 5 Credits**

Introduces cell biology, molecular biology, and genetics in appropriate depth for science majors and students in pre-professional programs. Completion of or concurrent enrollment in CHEM& 139 or CHEM& 161 recommended.

**Prerequisite:** None.

**Distribution Requirements:** Natural Science, Natural Science with Lab

### **BIOL& 212 Majors Animal 5 Credits**

Introduces diversity of major animal and protozoan groups including anatomy, physiology, development, evolution, ecology, reproduction, and life cycles. Appropriate for science majors and students in pre-professional programs.

**Prerequisite:** Prerequisite: BIOL& 211 with a C or better.

**Distribution Requirements:** Natural Science, Natural Science with Lab

### **BIOL& 213 Majors Plant 5 Credits**

Introduces diversity of major plant and fungus groups including structure, evolution, ecology, and lifecycles. Appropriate for science majors and students in pre-professional programs

**Prerequisite:** Prerequisite: BIOL& 211 with a C or better.

**Distribution Requirements:** Natural Science

### **BIOL& 241 Human A & P 1 5 Credits**

Introduces study of the structure and function of the human body. Topics include cellular organization, metabolism, histology, integumentary, skeletal, muscular, and nervous systems.

**Prerequisite:** Prerequisite: CHEM& 121 or higher with a C or better.

**Distribution Requirements:** Natural Science with Lab

### **BIOL& 242 Human A & P 2 5 Credits**

Continues study of structure and function of the human body from BIOL& 241. Topics include endocrine, reproductive, cardiovascular, respiratory, lymphatic, urinary (including fluid and electrolytes), and digestive systems.

**Prerequisite:** Prerequisite: Completion of BIOL& 241 with a C or better.

**Distribution Requirements:** Natural Science, Natural Science with Lab

### **BIOL& 260 Microbiology 5 Credits**

Explores advanced biological topics relevant to microbiology, including pathogens and disease processes.

**Prerequisite:** Prerequisite: CHEM& 121 or higher and BIOL& 241.

**Distribution Requirements:** Natural Science, Natural Science with Lab