

# Biology: Life Science AS

## PROGRAM LEARNING OUTCOMES

1. Understand and apply the scientific method of inquiry.
2. Explain, illustrate and analyze chemical bonds and reactions.
3. Discuss the mechanisms and evidence for the theory of evolution.
4. Understand the molecular aspects of genetics.
5. Discuss interactions of organisms in communities.
6. Demonstrate knowledge of the structure and function of the human body.

Take at least 12 units, 3 minimum from each group

### BIOLOGY FOUNDATIONS Take at least 4 units

**BIOSC 117**  
Human Biology

DVC II

**BIOSC 102**  
Fundamentals  
of Biological  
Science

DVC II

or

**BIOSC 130**  
Principles of  
Cellular and  
Molecular  
Biology

DVC II

and

**BIOSC 131**  
Principles of  
Organismal Biology,  
Evolution and  
Ecology Biology

DVC II

### CHEMISTRY FOUNDATIONS Take 1

**CHEM 107**  
Integrated  
Inorganic, Organic,  
and Biological  
Chemistry\*

**CHEM 120**  
General College  
Chemistry I\*

DVC II

co req

**CHEM 109**  
Introduction  
to Organic and  
Biochemistry

DVC II

### GROUP A CELLULAR BIOLOGY

#### GENETICS

**BIOSC 107**  
Genetics and  
Evolution

DVC II

**BIOSC 130**  
Principles of  
Cellular and  
Molecular  
Biology

DVC II

#### MICROBIOLOGY

**BIOSC 146**  
Principles of  
Microbiology

DVC II

or

**BIOSC 119**  
Fundamentals of  
Microbiology

DVC II

### GROUP B FIELD STUDIES

#### ECOLOGY

**BIOSC 126**  
Ecology and Field  
Biology

DVC II

**BIOSC 131**  
Principles of  
Organismal Biology,  
Evolution and  
Ecology Biology

DVC II

**HORT 148L**  
California  
Native Plants  
Laboratory

#### ENVIRONMENTAL SCIENCE

**BIOSC 170**  
Environmental  
Science

DVC II

or

**BIOSC 171**  
Environmental  
Science with  
Laboratory

DVC II

#### MARINE SCIENCE

**BIOSC 161**  
Fundamentals of  
Marine Biology

DVC II

or

**BIOSC 162**  
Fundamentals of  
Marine Biology  
with Lab

DVC II

**OCEAN 101**  
Fundamentals of  
Oceanography

DVC II

or

**OCEAN 102**  
Fundamentals of  
Oceanography  
with Lab

DVC II

### GROUP C HEALTH

Pick 1

**BIOSC 120**  
Introduction to  
Human Anatomy  
and Physiology

DVC II

Choose BIOSC 120 or  
BIOSC 139 as pre-req  
for BIOSC 140

**BIOSC 139**  
Human Anatomy

DVC II

**BIOSC 140**  
Human  
Physiology

DVC II

**NUTRI 160**  
Nutrition:  
Science and  
Applications

Entry

## Careers in

- Education
- Research
- Medicine

Required

Elective

DVC GE category

\* This course has prerequisites.

You need to see a Counselor for specific recommendations about courses that will best meet your educational goals. Not all courses on the map are offered every term. Consult the Catalog and the Schedule of Classes for more details.

For information about transferring, see:  
<https://www.dvc.edu/enrollment/transfer/index.html>

For information on careers in this field see:  
<https://www.dvc.edu/enrollment/career-employment/index.html>