

**Focus Areas:**

**Biology, Chemistry,  
Physical Science,  
Physics**

# SCIENCE

Department Chair: Dr. Craig Lamb  
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**Employment:**

**\$35,000-\$200,000**



***Potential Careers:***

- Environmental Scientist
- Wildlife/Field Biologist
- Doctor, Dentist, Chiropractor
- Brewmaster/Distiller
- Conservation Officer

Science builds and organizes knowledge in the form of testable explanations and predictions. Students can select an area of science based on interest: the study of life and living organisms; the origin, history and structure of the earth; properties, reactions, and the structure of matter; or matter and energy. There are some opportunities for employment after two years, many careers require a Bachelor of Science degree. Students planning to complete a four-year degree should enroll in the A.S. program.

## DEGREES & CERTIFICATES

Associate of General Studies..... A.G.S. - 62 hours

Associate of Science ..... A.S. - 62 hours

# Fields of Study

## SCIENCE

Associate of General Studies

62 Hours

### Minimum General Education Required Courses 25 cr

<i>Communication Requirement</i>	6
CM101 English Composition I (3 cr)	
CM115 Public Speaking (3 cr) <b>or</b>	
CM240 Interpersonal Communications (3 cr)	
<i>Mathematics Requirement</i>	3
Mathematics General Education Course <b>or</b>	
MA110 Intermediate Algebra (3 cr)	
<i>Humanities Requirement</i>	3
Art Humanities	
Music Literature	
Theatre Philosophy	
Foreign Language History	
<i>Social/Behavioral Science Requirement</i>	3
Economics Anthropology	
Psychology Political Science	
Sociology Geography	
<i>Humanities <b>or</b> Social Science Requirement</i>	3
(Must be from second area)	
<i>Natural Science Requirement</i>	4
Physical Science w/lab <b>or</b>	
Biological Science w/lab	
<i>Open General Education Elective</i>	3

### Required Science Courses 9 cr

SC130 General Chemistry (5 cr) <b>or</b>	
SC131 Chemistry I (5 cr)	
Physical Science General Education Course (4 cr)	

### Elective Courses 18 cr

<b>Biological Science</b>	
MA114 Elementary Statistics	3
SC101 General Biology	4
SC103 Physical Science	5
SC110 Principles of Biology I	5
SC111 Microbiology Lecture	3
SC112 Microbiology Lab	2
SC120 Human Anatomy and Physiology I	4
SC121 Human Anatomy and Physiology II	4
SC125 Human Body Dissection	1
SC126 Anatomy and Physiology	5
SC128 Pathophysiology	4
SC151 Principles of Biology II	5
SC199 General Zoology	5

### Physical Sciences

MA112 Trigonometry	3
MA120 Analytical Geometry and Calculus	5
SC104 Geology	4
SC105 Astronomy	4
SC107 Meteorology	4
SC131 Chemistry I	5
SC132 Chemistry II	5
SC134 Organic Chemistry I	5
SC135 Organic Chemistry II	5
SC137 Natural Hazards and Disasters	3
SC138 Natural Hazards and Disasters Lab	1
SC140 College Physics I	5
SC141 College Physics II	5
SC142 University Physics I	5
SC143 University Physics II	5
SC146 Environmental Science and Conservation	3
SC147 Environmental Science and Conservation Lab	1

### Agri-Bio Technology

AG108 Environmental Quality	3
AG109 Environmental Quality Lab	1
AG160 Introduction to Biotechnology	3
AG236 Molecular Biology for Agribiotechnology	4
AG237 Integrated Organic and Biochemistry for Agri-Technology	5
AG250 Introduction to Genetic Engineering	4

### Life Skills

BE139 Basic Personal Finance	1
BE210 Leadership Development	3
PE141 Personal Wellness	3
PE250 Stress Management	3
SS106 Marriage and Family	3

### Open Electives 10 cr

**CLOUD COUNTY**  
Start Here

# Fields of Study

## SCIENCE

Associate of Science

62 Hours

### Required General Education Courses 34 cr

<i>Communication Requirement</i>	9
CM101 English Composition I (3 cr)	
CM102 English Composition II (3 cr)	
CM115 Public Speaking (3 cr)	
<i>Humanities Requirement (2 areas required)</i>	6
Art Humanities	
Music Literature	
Theatre Philosophy	
Foreign Language History	
<i>Mathematics Requirement</i>	3
Mathematics General Education Course	
<i>Natural Science Requirement (2 areas required)</i>	10
SC131 Chemistry I (5 cr)	
SC112 Principles of Biology (5 cr)	
<i>Social/Behavioral Science Requirement (2 areas required)</i>	6
Economics Anthropology	
Psychology Political Science	
Sociology Geography	

### Required Science Courses 10 cr

Two from the following:

SC132 Chemistry II	5
SC140 College Physics	5
SC141 College Physics II	5
SC142 University Physics	5
SC143 University Physics II	5
SC151 Principles of Biology II	5

### Elective Courses 10 cr

#### Biological Science

SC103 Physical Science	5
SC110 Principles of Biology I	5
SC111 Microbiology Lecture	3
SC112 Microbiology Lab	2
SC120 Human Anatomy and Physiology I	4
SC121 Human Anatomy and Physiology II	4
SC125 Human Body Dissection	1
SC126 Anatomy and Physiology	5
SC128 Pathophysiology	4
SC151 Principles of Biology II	5
SC199 General Zoology	5

#### Math

BE170 Business Statistics	3
MA112 Trigonometry	3
MA114 Elementary Statistics	3
MA120 Analytical Geometry and Calculus	5
MA121 Calculus II	5
MA122 Calculus III	5
MA123 Differential Equations	4

### Physical Sciences

AG108 Environmental Quality	3
AG109 Environmental Quality Lab	1
SC103 Physical Science	3
SC104 Geology	4
SC105 Astronomy	4
SC107 Meteorology	4
SC131 Chemistry I	5
SC132 Chemistry II	5
SC134 Organic Chemistry I	5
SC135 Organic Chemistry II	5
SC137 Natural Hazards and Disasters	3
SC138 Natural Hazards and Disasters Lab	1
SC140 College Physics I	5
SC141 College Physics II	5
SC142 University Physics I	5
SC143 University Physics II	5
SC146 Environmental Science and Conservation	3
SC147 Environmental Science and Conservation Lab	1

### Open Electives 8 cr

