BIOLOGICAL SCIENCES

PROGRAM DESCRIPTION:
The Biological Sciences Major is designed for students who plan to earn a Bachelor's Degree in Biology. The program includes courses that explore life at the molecular, cellular, organismal and ecological levels, providing a foundation for further study in the life sciences and related fields of study (e.g. medicine, dentistry, veterinary science, agriculture, botany, microbiology, zoology, entomology, ecology).

HOW DO I KNOW THIS MAJOR IS FOR ME?
- You enjoy conducting research and analyzing data
- You enjoy thinking critically and problem solving
- You like to keep detailed records of your work
- You like to work with charts and reports
- You like working with technology
- You enjoy working with hands-on problems and solutions
- You want to work in lab environment

WHAT CAN I DO WITH THIS ASSOCIATE DEGREE?
- Biological Technician
- Wildlife Technician
- Environmental Technician
- Laboratory Assistant
- Resource Technician
- Research Assistant
- Medical Lab Assistant
- Science Technician

WHERE CAN I WORK?
This pathway provides you with a choice of various work environments including:
- Colleges and Universities
- Federal/State Government
- Food Manufacturing
- Local Government
- Scientific Research Services
- Pharmaceutical Companies
- Medical Facilities
- Gaming/Fishing Management

WHAT IS THE POTENTIAL WAGE OUTLOOK?
This associate degree may lead to a position as a Biological Technician, which according to the EDD/LMID Occupational Employment Statistics Survey, 2017 the median wage in California was $49,153 annually, or $23.63. For more information, visit www.labormarketinfo.edd.ca.gov/OccGuides. The job and wage outlook will vary based on the position selected within this major. To review current salary information and job outlook, visit www.onetonline.org.

WHAT CAN I DO IN THE FUTURE WITH MORE EDUCATION?
The positions below require at least a bachelor’s degree in Biology. According to O*NetOnline, the median salary in 2016 for Chemists in California was $73,740 annually, or $35.45 per hour.
- Biological Science Teacher
- Biological Scientist
- Life Scientist
- Natural Scientist Manager
- Biologist
- Biochemist and Biophysicist
- Microbiologist
- Geneticist
- University Professor
- Physician’s Assistant
- Medical Doctor
- Zoologist
- Plant Scientist
- Wildlife Biologist
- Conversation Resource Manager
- Fisheries Manager
- Molecular Biologist
- Research Director

For additional information about career pathways and to find out if this major is a good fit for you visit the Career Center located in MACC 203. Career information was collected from www.onetonline.org and www.bls.gov.
In addition to completion of the MAJOR, there are other requirements for the degree, refer to the Chaffey College Graduation Requirement Sheet or see a counselor in the Counseling Center.

All courses required for a certificate must be completed with a minimum grade of C.

### MAJOR REQUIREMENTS:

#### LEGEND: G=Grade   IP=In Progress   N=Need   **Bold:** Prerequisites   Plain Text: No Prerequisites

### MAJOR REQUIREMENTS for the Associate in Science Degree: (S065)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Grade</th>
<th>IP</th>
<th>Need</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 61</td>
<td>Introduction to Cell &amp; Molecular Biology</td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>BIOL 62</td>
<td>Biology of Organisms</td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>BIOL 63</td>
<td>Evolutionary Ecology</td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>CHEM 24A</td>
<td>General Chemistry I</td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>CHEM 24B</td>
<td>General Chemistry II</td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>MATH 65A</td>
<td>Calculus I</td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

**Plus one course from the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Grade</th>
<th>IP</th>
<th>Need</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 23</td>
<td>General Microbiology</td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CHEM 75A</td>
<td>Organic Chemistry I</td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>MATH 65B</td>
<td>Calculus II</td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>PHYS 20A</td>
<td>Algebra/Trigonometry College Physics I</td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>PHYS 30A</td>
<td>Physics for the Medical and Life Sciences I</td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>PHYS 45</td>
<td>Physics for Scientists and Engineers I</td>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

### COUNSELOR NOTES:

$46 per unit for CA Residents