

MULTIPLE SCIENCES

2016-2017

The Associate of Science Multiple Sciences degree emphasizes the role of science, scientific inquiry and technology in our world. Students will apply a problem solving strategy such as the scientific method or other systematic process of inquiry and recognize the contributions of science and technology in our world. This degree is multidisciplinary, giving students the knowledge and experience in both the physical and biological sciences.

To complete the requirements for the Associate of Arts for this degree*, a student must:

1. Complete the requirements for an associate degree.
2. **Complete a minimum of eighteen (18) units with a "C" or better in each course** in the following multidisciplinary program.
3. Complete elective units to meet the minimum 60 units required for the associate degree.

A minimum of six (6) units must be taken from two of the following three groups:

| Physical Sciences: | | Units | IP | Need | Grade |
|---------------------------------------|-----------------------------------|--------------|-----------|-------------|--------------|
| ASTRON 150 or 150H | Introduction to Astronomy | 3 | | | |
| ASTRON 160 | Astronomy Laboratory | 1 | | | |
| CHEM 101 | Introduction to Chemistry | 4 | | | |
| CHEM 102 | Introduction to Organic Chemistry | 4 | | | |
| CHEM 123 | Chemistry for Everyone | 3 | | | |
| CHEM 150 or 150H | General Chemistry I | 5 | | | |
| CHEM 151 or 151H | General Chemistry II | 5 | | | |
| CHEM 212 | Organic Chemistry I | 4 | | | |
| CHEM 213 | Organic Chemistry II | 4 | | | |
| ENGR 101 | Introduction to Engineering | 3 | | | |
| PHYSIC 100 | Introduction to Physics I | 4 | | | |
| PHYSIC 110 | General Physics I | 4 | | | |
| PHYSIC 111 | General Physics II | 4 | | | |
| PHYSIC 250 | College Physics I | 4 | | | |
| PHYSIC 251 | College Physics II | 4 | | | |
| PHYSIC 252 | College Physics III | 4 | | | |
| Total Physical Sciences Units: | | | | | |

| Earth Sciences: | | Units | IP | Need | Grade |
|------------------------------------|---|--------------|-----------|-------------|--------------|
| GEOL 100 or 100H | Physical Geography | 4 | | | |
| GEOL 101 or 101H | Introduction to Geology | 3 | | | |
| GEOL 112 | Historical Geology | 4 | | | |
| GEOL 113 | Earth and Life History | 3 | | | |
| GEOL 150 or 150H | Geology and the Environment | 3 | | | |
| GEOL 160 | Geology Laboratory | 1 | | | |
| GEOL 170 | Geologic History of the Great Basin | 1 | | | |
| GEOL 175 | Geology of the Eastern Mojave Desert | 1 | | | |
| GEOL 177 | Geology of the High Desert and Western Mojave Desert Region | 1 | | | |
| GEOL 180 | Geology of Joshua Tree National Park | 1 | | | |
| GEOL 181 | Geology of the Anza Borrego Region | 1 | | | |
| GEOL 190 | Geology of the Eastern Sierra Nevada, Northern Section | 1 | | | |
| GEOL 250 | Geology of California | 3 | | | |
| GEOL 270 | Geology of the Eastern Sierra Nevada | 1 | | | |
| GEOG 110 or 110H | Physical Geography | 3 | | | |
| GEOG 111 or 111H | Physical Geography Laboratory | 1 | | | |
| GEOG 126 | Geography of California | 3 | | | |
| OCEAN 100 | Investigations in Oceanography | 4 | | | |
| OCEAN 101 or 101H | Elements of Oceanography | 3 | | | |
| Total Earth Sciences Units: | | | | | |

| Biological Sciences: | | Units | IP | Need | Grade |
|---|--|--------------|-----------|-------------|--------------|
| ANAT 101 | Essentials of Human Anatomy and Physiology | 4 | | | |
| ANAT 150 | Human Anatomy and Physiology I | 4 | | | |
| ANAT 151 | Human Anatomy and Physiology II | 4 | | | |
| ANTHRO 106 or 106H | Biological Anthropology | 3 | | | |
| BIOL 100 | General Biology | 4 | | | |
| BIOL 123 | Ecology and Environment | 3 | | | |
| BIOL 130 or 130H | Cell and Molecular Biology | 4 | | | |
| BIOL 131 | Populations and Organisms | 4 | | | |
| Health 263 or 263H | Nutrition and Health | 3 | | | |
| MICRO 102 | Introductory Microbiology | 4 | | | |
| MICRO 150 | Medical Microbiology | 5 | | | |
| Total Biological Sciences Units: | | | | | |

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|---------------------------------------|--|-----------|--|--|--|
| Total Multiple Sciences Units: | | 18 | | | |
|---------------------------------------|--|-----------|--|--|--|

Students planning to transfer to a four-year university are cautioned that this degree may not meet all of the lower division requirements for transfer into a particular major; however, through careful educational planning with a counselor, this degree would offer a solid foundation in the transfer process. Students should consult with a counselor for specific information regarding their intended major at the university of their choice. Information is also available at www.assist.org.