



PHYSICAL SCIENCE PROGRAM

Associate of Science Degree

PURPOSE

This curriculum plan is intended for those interested in transferring to a four-year college or university. However, the courses in this program do not necessarily fulfill the prerequisites for the major at any particular institution. Students are encouraged to consult with the physical science and counseling staff in order to choose courses satisfying the prerequisites of the major and addressing the student's career goals.

MAJOR COURSES

- General Chemistry 1
- General Chemistry 2
- Calculus: First Course
- Calculus: Second Course
- Calculus: Third Course
- General Physics
- Mechanics, Heat, and Waves
- Electricity, Magnetism, Optics, Atomic & Nuclear Structure
- Introduction to Astrophysics
- Introduction to Astronomy Laboratory
- Introduction to Modern Astronomy
- Organic Chemistry 1
- Organic Chemistry 2
- Physical Geology
- Earth Science

CAREER OPPORTUNITIES

- Physicist
- Chemist
- Astronomer
- Geologist
- Earth Scientist

FACULTY ADVISORS

- | | |
|--|--|
| Ken Meidl
Professor of Physics
meidk@mjc.edu
(209) 575-6288 | Dr. William Luebke
Professor of Astronomy
luebkw@mjc.edu
(209) 575-6284 |
| Tom Nomof
Professor of Physics
nomoft@mjc.edu
(209) 575-6811 | Garry Hayes
Professor of Geology
hayesg@mjc.edu
(209) 575-6294 |
| Dr. Laura Maki
Professor of Chemistry
makil@mjc.edu
(209) 575-6171 | Noah Hughes
Instructor of Earth Science
hughesn@mjc.edu
(209) 575-6800 |

CAREER PROFILE

Physicist

OVERVIEW

Physicists study matter, energy, and the relationship between them. They devise methods to apply laws and theories of physics to industry, medicine, and other fields.

FUTURE OUTLOOK

Employment of physicists is projected to keep pace with the average growth for all occupations through 2014. The minimum requirement for employment is currently a bachelor's degree, although an increasing number of employers are requiring a master's degree in physics. For specializations such as teaching, industrial, or government positions, extensive graduate training is needed. Physicists with a Ph.D. have the best opportunities to advance.

SALARY OPPORTUNITIES

	LOW	MEDIAN	HIGH
U.S.	\$49,120	\$89,088	\$132,780
Modesto	\$54,850	\$94,099	\$113,334

Sources:
U.S. Bureau of Labor Statistics <http://www.bls.gov>
Occupational Outlook Handbook <http://www.bls.gov/oco/>
California Labor Market Information Office <http://www.calmis.cahwnet.gov>