

PHYSICS ASSOCIATE OF SCIENCE DEGREE

To graduate with a specialization in Physics, students must complete the following required courses plus the general breadth requirements for the Associate Degree (minimum total = 60 units).

| Code | Title | Units |
|-------------------------|-----------------------------|-----------|
| Required Courses | | |
| PHYSIC 202 | Physics I | 4 |
| PHYSIC 203 | Physics II | 4 |
| PHYSIC 204 | Physics III | 4 |
| PHYSIC 210 | Modern Physics | 4 |
| MATH 250 | Single Variable Calculus I | 4 |
| MATH 251 | Single Variable Calculus II | 4 |
| MATH 252 | Multivariable Calculus | 5 |
| Total Units | | 29 |

| Code | Title | Units |
|----------------------------|----------------------|-------|
| Recommended Courses | | |
| CHEM 150 | General Chemistry I | 5 |
| CHEM 151 | General Chemistry II | 5 |

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- Transfer to an accredited university as a junior with a major in physics or a physics-related major
- Integrate physical concepts and principles to other science disciplines
- Develop a world view that incorporates the role of physics in modern society
- Solve work-related problems by employing physical concepts to formulate and solve representative physical models
- Apply physical knowledge and skills required in securing and maintaining employment
- Demonstrate a proficiency in standard physics laboratory techniques commonly acquired in lower-division coursework