

# ASTRONOMY ASSOCIATE OF SCIENCE DEGREE

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

| Code                       | Title   | Units     |
|----------------------------|---|-----------|
| <b>Required Courses</b>    |   |           |
| ASTRON 120<br>& ASTRON 125 | Introduction to Astronomy<br>and Astronomy Laboratory | 4         |
| MATH 250                   | Single Variable Calculus I                            | 4         |
| MATH 251                   | Single Variable Calculus II                           | 4         |
| MATH 252                   | Multivariable Calculus                                | 5         |
| PHYSIC 202                 | Physics I   | 4         |
| <b>Total Units</b>         |   | <b>21</b> |

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:

- Define physics and astronomical concepts, including the major structures, events, and components that make up the Universe and led to the formation of our current celestial systems
- Identify how the various principles of physics and astronomy describe the properties of stars, planets, galaxies, and their motion
- Demonstrate standard laboratory techniques commonly acquired in lower-division coursework