**Associate in Science in Physics for Transfer Degree:**

The Associate in Science in Physics for Transfer Degree is intended for students who plan to complete a bachelor’s degree in Physics or a related major in the California State University (CSU) system. It is accepted by some but not all CSU campuses. Students who complete this degree and transfer to a participating CSU campus will be required to complete no more than 60 units after transfer to earn a bachelor’s degree. It may not be appropriate preparation for students transferring to a CSU campus that does not accept the degree.

**Program Learning Outcomes:**

Students who complete the Physics for Transfer Program will be able to:

- Utilize proper physics concepts and the relations among them to analyze problems qualitatively and quantitatively.
- Critically apply the principle of conservation of energy in the study of motions.
- Compose laboratory reports that describe the theory and experimental procedures, record and analyze data, and present conclusions and discussions.
- Write solutions to physics problems that identify the assumptions and input.

Students will be assessed through a combination of performance evaluations, written assignments, and written tests and quizzes.

**Note:** Students who plan to complete this degree should consult a counselor and visit www.assist.org for additional information about participating CSU campuses as well as university admission, degree and transfer requirements.

**Award Notes:**

Students are required to complete a maximum of 60 CSU transferable units with a minimum overall grade point average of 2.0.

**Major:** A minimum of 18 units with grade of “C” or better.

**General Education:** In addition to the courses required in the major, students must complete one of the following general education options:

- The California State University General Education Breadth pattern
- The Intersegmental General Education Transfer Curriculum pattern

**Courses Required for the Major:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 195</td>
<td>Mechanics</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 196</td>
<td>Electricity and Magnetism</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 197</td>
<td>Waves, Optics and Modern Physics</td>
<td>5</td>
</tr>
<tr>
<td>MATH 150</td>
<td>Calculus with Analytic Geometry I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus with Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 252</td>
<td>Calculus with Analytic Geometry III</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Units = 28**

**Recommended Electives:** Chemistry 200, 200L, 201, 201L.

Electives as needed to meet maximum of 60 units required for the degree.