Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GEOL 2040</td>
<td>Historical Geology</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1609</td>
<td>Introduction to Astronomy</td>
<td>3</td>
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<tr>
<td>or GEOL 3080</td>
<td>Geomorphology</td>
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**Engineering**

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>SCI 3210</td>
<td>Fab Lab Teaching Internship</td>
<td>4</td>
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**Mathematics**

Select one of the following:

- MATH 1050 | Precalculus 1 |
- MATH 1040 | Precalculus I and II Combined |
- MATH 1060 | Precalculus II |
- MATH 2510 | Single Variable Calculus I |

**Physics**

- PHYS 2210 | Physics for Scientists and Engineers I |
- PHYS 2220 | Physics for Scientists and Engineers II |
- PHYS 2230 | Physics for Scientists and Engineers III |

**Physics Concentration**

- MATH 2520 | Single Variable Calculus II |
- MATH 2533 | Multivariable and Vector Calculus |
- PHYS 2070 | Electric Circuits |
- PHYS 3010 | Intermediate Laboratory in Modern Physics |
- PHYS 3070 | Analog Electronics |
- PHYS 3500 | Mathematical Methods for Physical Sciences & Engineering |
- PHYS 3510 | Modern Physics |
- PHYS 4900 | Senior Seminar |
- Upper division PHYS electives 3 |

**Total Units**

123-124

1 Or Satisfaction of the entry-level Mathematics requirement and a score of at least 70 on the Math Placement Exam
2 Or Satisfaction of the entry-level Mathematics requirement and a score of at least 80 on the Math Placement Exam
3 ≥ 4 units
4 Some major requirements may be used to satisfy GE: PHYS 2070 Electric Circuits satisfies the Critical Reasoning Foundational Skill (Area A3); GEOL 2010 Physical Geology satisfies Area B1; BIOL 2010 Introductory Biology - Cells satisfies Area B2; CHEM 1001 Foundations of Chemistry Laboratory satisfies Area B3; MATH 2510 Single Variable Calculus I satisfies the Quantitative Reasoning Foundational Skill (Area B4).
5 The SELF Requirement is met by completing a General Education Area C or D course with a SELF component. (THTR 1008 Beginning Acting, PHIL 2329 Sexual Ethics/INST 2329 Sexual Ethics or PSYC 4358 Positive Psychology).
6 It is recommended that JYDR be satisfied by EDTE 3308 Socio-Cultural Foundations of Education
7 It is recommended that GWAR be satisfied with UD C (PHIL 3318 Professional Ethics)

See appropriate links at https://www.csub.edu/ge/Students1/General_Education_Requirements/index.html or current lists of courses satisfying university-wide General Education requirements.