Program: Engineering Physics  
Major: Engineering Physics - Physics  
Degree: Bachelor of Science (B.S.)

<table>
<thead>
<tr>
<th>University Core (Total Listed 42-44)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific courses within the University Core are listed on pages 93-94.</td>
</tr>
<tr>
<td>• Courses from the major may apply to the areas marked in the University Core.</td>
</tr>
</tbody>
</table>

| Written and Oral Communication                           | 9 |
| Quantitative Reasoning/Scientific Method                 | 10-11 |
| • Math                                                  | 3 |
| • Life Science                                          | 4 |
| • Physical Science                                      | 3-4 |

| Critical Inquiry and Aesthetic Analysis                  | 6 |
| Aesthetic Analysis                                      | 3 |
| • Critical Inquiry                                      | 3 |

<table>
<thead>
<tr>
<th>Support Courses</th>
<th>9-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1123 Contemporary Moral Problems</td>
<td></td>
</tr>
<tr>
<td>ECON 1103 Introduction to Economics</td>
<td></td>
</tr>
<tr>
<td>FMKT 2323 Global Protocol and Diversity</td>
<td></td>
</tr>
<tr>
<td>(or Foreign Language)</td>
<td></td>
</tr>
</tbody>
</table>

Support Courses:
- PHIL 1123 Contemporary Moral Problems
- ECON 1103 Introduction to Economics
- FMKT 2323 Global Protocol and Diversity
.orig Foreign Language

Students majoring in the Engineering Physics program are encouraged to complete the following courses in high school.

- One year of High School Algebra II and Trigonometry OR
  - MATH 1513 College Algebra AND
  - MATH 1593 Plane Trigonometry
- One year of high school physics OR
  - PHY 1003 Introduction to Physics

<table>
<thead>
<tr>
<th>Major Requirements</th>
<th>95-96</th>
</tr>
</thead>
</table>

Physics
- Required courses:
  - PHY 2014 Physics for Scientists and Engineers I and Lab
  - PHY 2114 Physics for Scientists and Engineers II and Lab
  - PHY 3103 Modern Physics
  - PHY 3883 Mathematical Physics I
  - PHY 4003 Mathematical Physics II
  - *PHY 4163 Analytical Mechanics OR
  - *ENGR 4183 Electromagnetic Fields II
  - *PHY 4173 Classical Mechanics OR
  - *PHY 4203 Quantum Mechanics

Enginnering Physics - Physics
- Required courses:
  - ENGR 1112 Introduction to Engineering and Laboratory
  - ENGR 1213 Engineering Computing and Laboratory
  - ENGR 2033 Statics
  - ENGR 2043 Dynamics
  - ENGR 2143 Strength of Materials
  - ENGR 2303 Electrical Science
  - ENGR 2311 Electrical Science Laboratory
  - ENGR 3183 Electromagnetic Fields I

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>14-15</th>
</tr>
</thead>
</table>

Required courses:
- MATH 2305 Accelerated Calculus 1 and 2 OR
- MATH 2313 Calculus 1 AND
- MATH 2323 Calculus 2
- MATH 2333 Calculus 3
- MATH 2343 Calculus 4
- MATH 3103 Differential Equations

Chemistry
- Required courses:
  - CHEM 1315 Chemistry for Engineering and Lab

Physics or Engineering Electives
- Any 3000 or 4000 level PHY or ENGR course with the following exceptions: PHY 3014, PHY 3044, PHY 3054, or PHY 3503.

*Students in the Accelerated BS/MS program in Engineering Physics must enroll in the graduate level versions of this course. Students need only three 5000-level courses as part of the accelerated program.

The number of credits needed to meet degree requirements exceeds 124 hours and will vary according to course selection.

- CONTINUED ON NEXT PAGE -
Minimum Grade Requirements

1. Average in (a) all college course work, and (b) course work at UCO
   ........................................................................................................ 2.00

2. A minimum grade of “C” must be earned in all courses in the major to count toward meeting degree requirements.

For other regulations pertaining to graduation, see pages 64-65 of the 2014-2015 catalog.

This program requires admission to the Upper Division with special requirements. See page 56-57 of the 2014-2015 catalog for selective admission criteria.