

# UCO BS Engineering Physics - Physics

These courses have prerequisites. To make sure you meet the prerequisites look in the Course Catalog.

Year 1		Year 2		Year 3		Year 4									
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring								
<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>1</b> MATH 2313 Calculus 1 <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Quant</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>2</b> PHIL 2000 Engineering Ethics <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Crit</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>3</b> ENGR 1112 Intro. to Engr. &amp; Lab <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Comm</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>4</b> BIO 1114 Gen. Bio. <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Quant</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">                     ENGR 1113 English Comp. <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Comm</span> </div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>5</b> MATH 2323 Calculus 2 <span style="background-color: #92d050; color: white; padding: 2px;">1</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>6</b> PHY 2014 PSE I &amp; Lab <span style="background-color: #92d050; color: white; padding: 2px;">CC/Quant</span> <span style="background-color: #0056b3; color: white; padding: 2px;">5C</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>7</b> ENGR 1213 Engr. Comput. &amp; Lab <span style="background-color: #92d050; color: white; padding: 2px;">CC/Life</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">                     MCOM 1113 Fund. of Speech <span style="background-color: #92d050; color: white; padding: 2px;">CC/Comm</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">                     ENGR 1213 English Comp. Res. <span style="background-color: #92d050; color: white; padding: 2px;">CC/Comm</span> </div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>8</b> MATH 2333 Calculus 3 <span style="background-color: #92d050; color: white; padding: 2px;">5</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>9</b> ENGR 2033 Statics <span style="background-color: #92d050; color: white; padding: 2px;">6,8C</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>10</b> PHY 2114 PSE II &amp; Lab <span style="background-color: #92d050; color: white; padding: 2px;">6,8C</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">                     HLTH 1112 Health Life Skills <span style="background-color: #92d050; color: white; padding: 2px;">CC/Life</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>11</b> CHEM 1315 Chem. for Engr. and Lab <span style="background-color: #92d050; color: white; padding: 2px;">16C</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>12</b> CHEM 1315L Chem. for Engr. Recitation and Lab <span style="background-color: #92d050; color: white; padding: 2px;">10,14C</span> </div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>13</b> MATH 2343 Calculus 4 <span style="background-color: #92d050; color: white; padding: 2px;">8</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>14</b> MATH 3103 Differential Equation <span style="background-color: #92d050; color: white; padding: 2px;">13C,P</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>15</b> ENGR 2043 Dynamics <span style="background-color: #92d050; color: white; padding: 2px;">9,13C</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>16</b> ENGR 2303 Electrical Science <span style="background-color: #92d050; color: white; padding: 2px;">10, 17C</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>17</b> ENGR 2311 Electrical Science Lab <span style="background-color: #92d050; color: white; padding: 2px;">16C</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>18</b> PHY 3103 Mod. Phys. <span style="background-color: #92d050; color: white; padding: 2px;">10,14C</span> </div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>19</b> PHY 3883 Math Physics I <span style="background-color: #92d050; color: white; padding: 2px;">10,13</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>20</b> ENGR 3203 Thermodynamics <span style="background-color: #92d050; color: white; padding: 2px;">9,11,14C,J</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>21</b> ENGR 3703 Comp. Meth. Engr. <span style="background-color: #92d050; color: white; padding: 2px;">6,7,14C</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>22</b> ENGR 3303 Engr. Stat. &amp; prob. <span style="background-color: #92d050; color: white; padding: 2px;">16,17</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>23</b> ENGR 3403 Analog Elec. <span style="background-color: #92d050; color: white; padding: 2px;">16,17</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>24</b> ENGR 3421 Analog Elec. Lab <span style="background-color: #92d050; color: white; padding: 2px;">23C</span> </div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>25</b> ENGR 3443 Fluid Mechanics <span style="background-color: #92d050; color: white; padding: 2px;">14,20</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>26</b> ENGR 3183 EM Fields I <span style="background-color: #92d050; color: white; padding: 2px;">19</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>27</b> ENGR 3323 Sig. and Sys. <span style="background-color: #92d050; color: white; padding: 2px;">14,16,17</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>28</b> ENGR 3331 Sig. and Sys. Lab <span style="background-color: #92d050; color: white; padding: 2px;">27C</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>29</b> ENGR 4263 Engineering Optics <span style="background-color: #92d050; color: white; padding: 2px;">10</span> </div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>31</b> ENGR 4882 Senior Design I <span style="background-color: #92d050; color: white; padding: 2px;">22,S,P</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; background-color: #ffcc99;"> <b>32</b> ENGR/PHY 4000 Elective                 </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">                     ECON 1103 Intro. to Econ. <span style="background-color: #92d050; color: white; padding: 2px;">CC/Soc</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; background-color: #ffcc99;"> <b>33</b> PHY 4000 Elective                 </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px; background-color: #a52a2a; color: white;"> <b>34</b> ENGR Elective                      ↑                      ENGR/BME Elective                      Choose any 2000, 3000 or 4000 level ENGR or BME course                 </div>	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>35</b> ENGR 4892 Senior Design II <span style="background-color: #92d050; color: white; padding: 2px;">31,S</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">                     HIST 1483/1493 History of US <span style="background-color: #92d050; color: white; padding: 2px;">CC/Hist</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">                     FMKT 2323 Global Div/Prot or Foreign Language <span style="background-color: #92d050; color: white; padding: 2px;">CC/Cult</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">                     HUM 2113/2223 Humanities <span style="background-color: #92d050; color: white; padding: 2px;">CC/Crit</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <b>36</b> PHY 4203 Quantum Mech. <span style="background-color: #92d050; color: white; padding: 2px;">18</span> </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">                     POL 1113 Am. Nat. Govt. <span style="background-color: #92d050; color: white; padding: 2px;">CC/Hist</span> </div>								
15 hrs.		16 hrs.		17 hrs.		16 hrs.		16 hrs.		13 hrs.		14 hrs.		17 hrs.	

Core Curriculum	
CC/Comm	Written and Oral Communication
CC/Crit	Critical Inquiry Aesthetic Analysis
CC/Cult	Cultural and Language Analysis
CC/Hist	Historical and Political Analysis
CC/Life	Life Skills
CC/Quant	Quantitative Reasoning/Sci. Method
CC/Soc	Social and Behavioral Analysis

**Course Sequence**

■ Fall and Spring course  
■ Fall or Spring course

**Prerequisite**

C: Concurrent Enrollment  
 P: Permission Required  
 J: Junior Standing  
 S: Senior Standing