

# UCO BS Biomedical Engineering—Concentration B: Instrumentation Fields

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 gray; padding: 5px; 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 gray; padding: 5px; margin-bottom: 5px;"> <b>2</b> PHIL 2313 Engineering Ethics <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Crit</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>3</b> ENGR 1112 Intro. to Engr. &amp; Lab                 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>4</b> BIO 1204 Biology I For Majors <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Quant</span> </div> <div style="border: 1px solid gray; padding: 5px; 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 gray; padding: 5px; margin-bottom: 5px;"> <b>5</b> MATH 2323 Calculus 2 <span style="background-color: #0056b3; color: white; padding: 2px;">1</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>6</b> PHY 2014 PSE I &amp; Lab <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Quant</span> <span style="background-color: #0056b3; color: white; padding: 2px;">5C</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>7</b> ENGR 1213 Engr. Comput. &amp; Lab <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Life</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">                     MCOM 1113 Fund. of Speech <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Comm</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">                     ENGR 1213 English Comp. Res. <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Comm</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>8</b> BME 1311 Intro. to BME                 </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>9</b> MATH 2333 Calculus 3 <span style="background-color: #0056b3; color: white; padding: 2px;">5</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>10</b> ENGR 2033 Statics <span style="background-color: #0056b3; color: white; padding: 2px;">6,9C</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>11</b> PHY 2114 PSE II &amp; Lab <span style="background-color: #0056b3; color: white; padding: 2px;">6,9C</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">                     HLTH 1112 Health Life Skills <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Life</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>12</b> CHEM 1103 Gen. Chem. I                 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>13</b> CHEM 1112 Gen. Chem. I Lab                 </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>14</b> MATH 2343 Calculus 4 <span style="background-color: #0056b3; color: white; padding: 2px;">9</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>15</b> MATH 3103 Differential Equation <span style="background-color: #0056b3; color: white; padding: 2px;">14C,P</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>16</b> BIO 2203 Cell Biology <span style="background-color: #0056b3; color: white; padding: 2px;">4,12</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">                     ECON 1103 Intro. to Econ. <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Soc</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>17</b> ENGR 2303 Electrical Science <span style="background-color: #0056b3; color: white; padding: 2px;">11, 18C</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>18</b> ENGR 2311 Electrical Science Lab <span style="background-color: #0056b3; color: white; padding: 2px;">17C</span> </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>19</b> BME 3043 Biomaterials <span style="background-color: #0056b3; color: white; padding: 2px;">8,11,12,13,15C</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>20</b> BME 3113 Principles of BME <span style="background-color: #0056b3; color: white; padding: 2px;">8,10,12,13,15,21C</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>21</b> BIO 2604 Human Phys &amp; Lab <span style="background-color: #0056b3; color: white; padding: 2px;">12, 16</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>22</b> ENGR 3403 Analog Elec. <span style="background-color: #0056b3; color: white; padding: 2px;">17,18</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>23</b> ENGR 3421 Analog Elec. Lab <span style="background-color: #0056b3; color: white; padding: 2px;">22C</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>24</b> PHY 3883 Math Physics I <span style="background-color: #0056b3; color: white; padding: 2px;">11,14</span> </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>25</b> ENGR 3323 Sig. and Sys. <span style="background-color: #0056b3; color: white; padding: 2px;">15,17,18, A</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>26</b> ENGR 3331 Sig. and Sys. Lab <span style="background-color: #0056b3; color: white; padding: 2px;">25C</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>27</b> ENGR 3303 Engr. Prob. &amp; Stat. <span style="background-color: #0056b3; color: white; padding: 2px;">17, 18</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>28</b> BME 4233 Biomedical Instr. <span style="background-color: #0056b3; color: white; padding: 2px;">15,17,18</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">                     HUM 2113/2223 Humanities <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Crit</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>29</b> BME/ENGR/PHY/BIO xxx3 <span style="background-color: #0056b3; color: white; padding: 2px;">11,14C</span> </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>30</b> BME 4882 BME Senior Design I <span style="background-color: #0056b3; color: white; padding: 2px;">20,25,26,27,28,S,P, A</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>31</b> ENGR 3223 Digital Logic Design &amp; Lab <span style="background-color: #0056b3; color: white; padding: 2px;">17,18</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>32</b> BME 4223 Biomedical Imaging <span style="background-color: #0056b3; color: white; padding: 2px;">25, A</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>33</b> BME 4132 BME Lab <span style="background-color: #0056b3; color: white; padding: 2px;">25, 26, 28, A</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">                     FMKT 2323 Global Div/Prot or Foreign Language <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Cult</span> </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>34</b> ENGR 4892 Senior Design II <span style="background-color: #0056b3; color: white; padding: 2px;">30,S, A</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>35</b> BME 4343 Biomechanics <span style="background-color: #0056b3; color: white; padding: 2px;">10, 15, A</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">                     HIST 1483/1493 History of US <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Hist</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;">                     POL 1113 Am. Nat. Govt. <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Hist</span> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>36</b> BME/ENGR/PHY xxx3 Elective                 </div>		
<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Comm</span> Written and Oral Communication                 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Crit</span> Critical Inquiry Aesthetic Analysis                 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Cult</span> Cultural and Language Analysis                 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Hist</span> Historical and Political Analysis                 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Life</span> Life Skills                 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Quant</span> Quantitative Reasoning/Sci. Method                 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #0056b3; color: white; padding: 2px;">CC/Soc</span> Social and Behavioral Analysis                 </div>		<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>Course Sequence</b> </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #0056b3; color: white; padding: 2px;">■</span> Fall and Spring course                 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <span style="background-color: #ffff00; color: white; padding: 2px;">■</span> Fall or Spring course                 </div>		<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>BME/ENGR/PHY/BIO xxx3 Elective</b>                      Choose any 3000 or 4000 level BME, ENGR, or PHY course or 3000 level BIO course                 </div>		<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>BME/ENGR/PHY xxx3 Elective</b>                      Choose any 3000 or 4000 level BME, ENGR, or PHY course                 </div>		<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> <b>Prerequisite</b>                      C: Concurrent Enrollment                      P: Permission Required                      J: Junior Standing                      S: Senior Standing                      A: Admission to EP and BME Programs                 </div>	
15 hrs.	17 hrs.	17 hrs.	16 hrs.	17 hrs.	16 hrs.	13 hrs.	14 hrs.		