

UCO Biomedical Engineering—Concentration A: Pre-Medical Field

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;"> 1 MATH 2313 Calculus 1 CC/Quant </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 2 PHIL 2000 Engineering Ethics CC/Crit </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 3 ENGR 1112 Intro. to Engr. & Lab CC/Comm </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 4 BIO 1204 Biology I For Majors CC/Quant </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> ENGR 1113 English Comp. CC/Comm </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 5 MATH 2323 Calculus 2 1 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 6 PHY 2014 PSE I & Lab CC/Quant 5C,P </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 7 ENGR 1213 Engr. Comput. & Lab CC/Life </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> MCOM 1113 Fund. of Speech CC/Comm </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> ENGR 1213 English Comp. Res. CC/Comm </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 8 BME 1311 Intro. to BME </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 9 MATH 2333 Calculus 3 5 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 10 ENGR 2033 Statics 6,9C </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 11 PHY 2114 PSE II & Lab 6,9C </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> HLTH 1112 Health Life Skills CC/Life </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 12 CHEM 1103 Gen. Chem. I 17C </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 13 CHEM 1112 Gen. Chem. I Lab 12 </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 14 MATH 2343 Calculus 4 9 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 15 MATH 3103 Differential Equation 14C,P </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 16 BIO 2203 Cell Biology 4,12 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 17 ENGR 2303 Electrical Science 11, 18C </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 18 ENGR 2311 Electrical Science Lab 17C </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 19 CHEM 1223 Gen. Chem. II 12 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 20 CHEM 1232 Gen. Chem. II Lab 12C </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 21 BME 3043 Biomaterials 8,11,12,13,15C </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 22 ENGR 3323 Sig. and Sys. 15,17,18, A </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 23 ENGR 3331 Sig. and Sys. Lab 22C </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 24 CHEM 3303 Organic. Chem. I 19 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 25 BIO 2604 Human Phys & Lab 12, 16 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 26 BME 3113 Principles of BME 8,10,12,13,15,25C </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 27 ENGR 3303 Engr. Prob. & Stat. 17, 18 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 28 BME 4233 Biomedical Instr. 15,17,18, A </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 29 ENGR 3403 Analog Elec. 17,18 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 30 ENGR 3421 Analog Elec. Lab 29C </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> HUM 2113/2223 Humanities CC/Crit </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> ECON 1103 Intro. To Econ. CC/Soc </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 31 ENGR 4882 Senior Design I 22,23,26,27,28,S,P, A </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 32 ENGR 3223 Digital Logic Design & Lab 17,18 </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 33 BME 4223 Biomedical Imaging 22, A </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 34 BME 4132 BME Lab 22, 23, 28, A </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> FMKT 2323 Global Div/Prot or Foreign Language CC/Cult </div>	<div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 35 ENGR 4892 Senior Design II 31,S, A </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 36 BME 4343 Biomechanics 10, 15, A </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> HIST 1483/1493 History of US CC/Hist </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> POL 1113 Am. Nat. Govt. CC/Hist </div> <div style="border: 1px solid gray; padding: 5px; margin-bottom: 5px;"> 37 BME/ENGR/PHY xxx3 Elective 12 </div>								
15 hrs.		17 hrs.		17 hrs.		18 hrs.		17 hrs.		16 hrs.		13 hrs.		14 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

BME/ENGR/PHY xxx3 Elective
Choose any 3000 or 4000 level BME, ENGR, or PHY course

Prerequisite
C: Concurrent Enrollment
P: Permission Required
J: Junior Standing
S: Senior Standing
A: Admission to EP and BME Programs