

# UCO Biomedical Engineering—Concentration A: Pre-Medical 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
1 MATH 2313 Calculus 1  CC/Quant	5 MATH 2323 Calculus 2  1	9 MATH 2333 Calculus 3  5	14 MATH 2343 Calculus 4  9	21 ENGR 3043 Biomaterials  8,11,12,13,15C	26 ENGR 3302 Engr. Stat. & Exp.  17,18	31 ENGR 4882 Senior Design I  25,26,27, 28,S,P	36 ENGR 4892 Senior Design II  31,S
2 PHIL 2000 Engineering Ethics  CC/Crit	6 PHY 2014 PSE I & Lab  CC/Quant 5C,P	10 ENGR 2033 Statics  6,9C	15 MATH 3103 Differential Equation  14C,P	22 ENGR 2043 Dynamics  10,14C	27 ENGR 3323 Sig. and Sys. & Lab  15,17,18	32 ENGR 3222 Digital Logic Design & Lab  17,18	HIST 1483/1493 History of US  CC/Hist
3 ENGR 1112 Intro. to Engr. & Lab	7 ENGR 1213 Engr. Comput. & Lab  CC/Life	11 PHY 2114 PSE II & Lab  6,9C	16 BIO 2203 Cell Biology  4,12	23 CEHM 3303 Organic Chem. I  19	28 ENGR 4233 Biomedical Instr.  15,17,18	33 ENGR 4223 Biomedical Imaging  27	37 ENGR 4343 Biomechanics  15,22
4 BIO 1204 Biology I For Majors  CC/Quant	MCOM 1113 Fund. of Speech  CC/Comm	HLTH 1112 Health Life Skills  CC/Life	17 ENGR 2303 Electrical Science  11, 18C	24 BIO 2604 Human Phys & Lab  12, 16	29 ENGR 3404 Analog Elec. & Lab  17,18	34 ENGR 4132 BME Lab  27,28C	ECON 1103 Intro. to Econ.  CC/Soc
ENG 1113 English Comp.  CC/Comm	ENG 1213 English Comp. Res.  CC/Comm	12 CHEM 1103 Gen. Chem. I	18 ENGR 2311 Electrical Science Lab  17C	25 ENGR 3113 Principles of BME  8,12,13,15,22,24C	30 CHEM 3323 Organic Chem. II  23	FMKT 2323 Global Div/Prot or Foreign Language  CC/Cult	POL 1113 Am. Nat. Govt.  CC/Hist
	8 ENGR 1311 Intro. to BME	13 CHEM 1112 Gen. Chem. I Lab	19 CHEM 1223 Gen. Chem. II  12		HUM 2113/2223 Humanities  CC/Crit	35 ENGR/PHY xxx3 Elective  ↑	
Core Curriculum			20 CHEM 1232 Gen. Chem. II Lab  18C	<p>The UCO Biomedical Engineering Program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD, 21202-4012 – telephone: (410) 347-7700.</p>		<p><b>ENGR/PHY xxx3 Elective</b> Choose any 3000 or 4000 level PHY or ENGR course with the following exceptions: PHY 3014, PHY 3044, PHY 3054, or PHY 3503.</p>	
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						
15 hrs.	17 hrs.	17 hrs.	18 hrs.	16 hrs.	18 hrs.	15 hrs.	14 hrs.

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