

UCO 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
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	20 PHY 3883 Math Physics I 11,14	25 ENGR 3183 EM Fields I 20	29 ENGR 4882 Senior Design I 22,26,27,28,S,P	34 ENGR 4892 Senior Design II 29,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	21 ENGR 3404 Analog Elec. & Lab 18,19	26 ENGR 3323 Sig. and Sys. & Lab 15,18,19	30 ENGR 3222 Digital Logic Design & Lab 18,19	35 ENGR 4343 Biomechanics 15,17
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	22 ENGR 3113 Principles of BME 8,12,13,15,17,23C	ECON 1103 Intro. to Econ. CC/Soc	31 ENGR 4223 Biomedical Imaging 26	HIST 1483/1493 History of US CC/Hist
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 2043 Dynamics 10,14C	23 BIO 2604 Human Phys & Lab 12, 16	27 ENGR 3302 Engr. Stat. & Exp 18,19	32 ENGR 4132 BME Lab 26,28C	POL 1113 Am. Nat. Govt. CC/Hist
ENG 1113 English Comp. CC/Comm	ENG 1213 English Comp. Res. CC/Comm	12 CHEM 1103 Gen. Chem. I	18 ENGR 2303 Electrical Science 11, 19C	24 ENGR 3043 Biomaterials 8,11,12,13,15C	28 ENGR 4233 Biomedical Instr. 15,18,19	FMKT 2323 Global Div/Prot or Foreign Language CC/Cult	36 ENGR/PHY/BIO xxx3 11,14C
	8 ENGR 1311 Intro. to BME	13 CHEM 1112 Gen. Chem. I Lab	19 ENGR 2311 Electrical Science Lab 18C		HUM 2113/2223 Humanities CC/Crit	33 ENGR/PHY xxx3 Elective	
<div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px; width: 20%;"> <p style="text-align: center; background-color: #e6f2ff; margin: 0;">Core Curriculum</p> <ul style="list-style-type: none"> <li style="background-color: #e6f2ff; padding: 2px;">CC/Comm Written and Oral Communication <li style="background-color: #e6f2ff; padding: 2px;">CC/Crit Critical Inquiry Aesthetic Analysis <li style="background-color: #e6f2ff; padding: 2px;">CC/Cult Cultural and Language Analysis <li style="background-color: #e6f2ff; padding: 2px;">CC/Hist Historical and Political Analysis <li style="background-color: #e6f2ff; padding: 2px;">CC/Life Life Skills <li style="background-color: #e6f2ff; padding: 2px;">CC/Quant Quantitative Reasoning/Sci. Method <li style="background-color: #e6f2ff; padding: 2px;">CC/Soc Social and Behavioral Analysis </div> <div style="width: 60%; text-align: center;"> <p style="background-color: #ffff00; padding: 10px; margin: 0;">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> </div> <div style="width: 20%; text-align: center;"> <p style="background-color: #ffcc99; padding: 10px; margin: 0;">ENGR/PHY xxx3 Elective Choose any 3000 or 4000 level PHY or ENGR course with the following exceptions: PHY 3014, PHY 3044, PHY 3054, or PHY 3503.</p> </div> </div>							
15 hrs.	17 hrs.	17 hrs.	16 hrs.	17 hrs.	17 hrs.	15 hrs.	14 hrs.

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

March, 2014