

UCO BS Electrical Engineering

These courses have prerequisites. To make sure you meet the prerequisites, refer to 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	8 MATH 2333 Calculus 3 5	13 MATH 2343 Calculus 4 8	19 PHY 3883 Math Physics 10,13	25 ENGR 3183 EM Fields I 19,A	31 ENGR 4882 Senior Design I 23,S,P,A	36 ENGR 4892 Senior Design II 31,S,A
2 PHIL 2313 Engineering Ethics CC/Crit	6 PHY 2014 PSE I & Lab CC/Quant 5C,P	9 ENGR 2033 Statics 6,8C	14 MATH 3103 Differential Equations 13C,P	20 ENGR 3403 Analog Elec. 17,18	26 ENGR 3323 Sig. and Sys. 14,17,A	32 ENGR 4333 Dig. Sig. Proc. 26,A	HIST 148/1493 History of US CC/Hist
3 ENRG 1112 Intro. to Engr. & Lab	7 ENGR 1213 Engr. Comput. & Lab CC/Life	10 PHY 2114 PSE II & Lab 6,8C	15 PHY 3103 Mod. Phys. 10,13C	21 ENGR 3403 Analog Elec Lab 20C	27 ENGR 3331 Sig. and Sys. Lab 26C	33 ENGR 4351 Dig. Sig. Proc. Lab 32C	FMKT 2323 Global Div./Prot. Or Foreign Language CC/Cult
4 BIO 1114 General Biology CC/Quant	MCOM 1113 Fund. of Speech CC/Comm	HLTH 1112 Health Life Skills CC/Life	16 ENGR 3703 Comp. Meth. Engr 6,7,14C	22 ENGR 3413 Material Science 10,11,14C	28 ENGR 3613 Microprocessors & Lab 17,18,24	34 ENGR 4803 Mechatronics & Lab 17,18,26,A	37 ENGR 4323 Digital & Analog Comm. 26,A
ENG 1113 English Comp. CC/Comm	ENG 1213 English Comp. Res. CC/Comm	11 CHEM 1315 Chem. For Engr. and Lab	17 ENGR 2303 Electrical Science 10	23 ENGR 3303 Engr. Prob. & Stat. 17,18	29 ENGR 3803 Elect. Power System 13,17,18	Econ 1103 Intro. to Econ. CC/Soc	POL 1113 Am. Nat. Govt. CC/Hist
		12 CHEM 1315L Chem. For Engr. Recitation and Lab	18 ENGR 2311 Electrical Science Lab 17C	24 ENGR 3223 Digital Logic Design & Lab 17,18,A	30 HUM 2113/2223 Humanities CC/Crit	35 ENGR 4xx3 Elective	

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 Skills

Prerequisite

C: Concurrent Enrollment
 P: Permission Required
 J: Junior Standing
 S: Senior Standing
 A: Admission to EP/ME/EE/BME Program

■ Fall and Spring
 ■ Fall or Spring

Elective Group

- [E1] ENGR 4263 Engineering Optics (10)
- [E2] ENGR 4613 Photonics (15,E1)
- [E3] ENGR 4633 Solid State Device (15,20,25)
- [E4] ENGR 4183 Electromagnetic (25)
- [E5] ENGR 4303 Control Systems (26)

15 hrs. 16 hrs. 17 hrs. 16 hrs. 16 hrs. 16 hrs. 15 hrs. 14 hrs.