

# UCO BS Mechanical Engineering

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	8 MATH 2333 Calculus 3  5	13 MATH 2343 Calculus 4  8	20 PHY 3883 Math Physics I  10,13	27 ENGR 3363 Mech. Engr. Design  14C,15,18, A	32 ENGR 4882 Senior Design I  19,22,27,28,29,34C,S,P, A	38 ENGR 4892 Senior Design II  32,S, A
2 PHIL 1123 Cont. Moral Prob.  CC/Crit	6 PHY 2014 PSE I & Lab  CC/Quant 5C,P	9 ENGR 2033 Statics  6,8C	14 MATH 3103 Differential Equation  13C,P	21 ENGR 3443 Fluid Mechanics  14,16, A	28 ENGR 4533 Thermal Sys. Design  14,21, A	33 ENGR 4123 Heat Transfer  14,20,21,25C, A	HIST 1483/1493 History of US  CC/Hist
3 ENGR 1112 Intro. to Engr. & Lab  CC/Comm	7 ENGR 1213 Engr. Comput. & Lab  CC/Life	10 PHY 2114 PSE II & Lab  6,8C	15 ENGR 2043 Dynamics  9,13C	22 ENGR 3451 Fluid Mechanics Lab  21C	29 ENGR 3303 Engr. Prob. & Stat.  23,24	34 ENGR 4141 Heat Transfer Lab  33C	39 FMKT 2323 Global Div/Prot or Foreign Language  CC/Cult
4 BIO 1114 Gen. Bio.  CC/Quant	MCOM 1113 Fund. of Speech  CC/Comm	HLTH 1112 Health Life Skills  CC/Life	16 ENGR 3203 Thermodynamics  9,11,14C,J	23 ENGR 2303 Electrical Science  10, 24C	30 ENGR 3323 Sig. and Sys.  14,23, A	35 ECON 1103 Intro. to Econ.  CC/Soc	POL 1113 Am. Nat. Govt.  CC/Hist
ENG 1113 English Comp.  CC/Comm	ENG 1213 English Comp. Res.  CC/Comm	11 CHEM 1315 Chem. for Engr. and Lab  16C	17 ENGR 3211 Thermal Eng. Lab  16C	24 ENGR 2311 Electrical Science Lab  23C	31 ENGR 3331 Sig. and Sys. Lab  30C	36 ENGR 4803 Mechanics & Lab  23,30,31, A	40 ENGR/PHY/BME Elective
12 CHEM 1315L Chem. for Engr. Recitation and Lab		18 ENGR 2143 Str. of Matls.  9		25 ENGR 3703 Comp. Meth. Engr.  6,7,14C		37 ENGR 4xx3 Elective	
19 ENGR 2151 Str. of Matls. Lab  18C		26 ENGR 3413 Material Science  10,11, 14C, A		HUM 2113/2223 Humanities  CC/Crit		*Elective Group A	
Core Curriculum		Prerequisite		*Mechanical Engineering Core Areas		*Elective Group B	
CC/Comm Written and Oral Communication		C: Concurrent Enrollment		Dynamics and Control (DC)		[DC1] ENGR 3153 Machine Dynamics (14,15)	
CC/Crit Critical Inquiry Aesthetic Analysis		P: Permission Required		Solid Mechanics and Materials (SM)		[DC2] ENGR 4143 Vibration (14,15)	
CC/Cult Cultural and Language Analysis		J: Junior Standing		Thermal and fluids (TF)		[DC3] ENGR 3222 Digital Logic Design and Lab (23,24)	
CC/Hist Historical and Political Analysis		S: Senior Standing				[DC4] ENGR 4303 Control System (30,31)	
CC/Life Life Skills		A: Admission to EP and BME Programs				[TF1] ENGR 4313 Fluid Dynamics (14, 21,J)	
CC/Quant Quantitative Reasoning/Sci. Method						[DC5] ENGR 3803 Electrical Power System (13, 23, 24)	
CC/Soc Social and Behavioral Analysis						[SM1] ENGR 4103 Finite Element Analysis (18, 20C, 25)	
						[SM2] BME 4343 Biomechanics (15,16, A)	
						[SM3] PHY 4163 Analytical Mechanics (20)	
						[TF2] ENGR 4203 Refrigeration and Air Conditioning (16, 21, 33C)	
15 hrs.	16 hrs.	17 hrs.	17 hrs.	17 hrs.	16 hrs.	15 hrs.	14 hrs.