

2014-2015 Catalog

BS: ENGINEERING DEGREE PLAN (ENGR)	
UNIVERSITY REQUIREMENTS	
Please see the University Requirements section of this catalog (page 39).	
MAJOR REQUIREMENTS	
Engineering Physics	
PHYS 220 Engineering Physics I	(3) ¹
PHYS 221 Engineering Physics I Laboratory	(1) ¹
PHYS 222 Engineering Physics II	(3) ¹
PHYS 223 Engineering Physics II Laboratory	(1) ¹
Engineering	
ENGR 115/116 Introduction to Engineering and Physics	4
ENGR 220 Engineering Mechanics: Statics	3
ENGR 222 Engineering Mechanics: Dynamics	3
ENGR 335/336 Introduction to Electronics Lecture/Lab and ENGR 342/343	6
Fluid Dynamics, Mechanics of Materials, ENGR 481	9
Choose 5 from ENGR 200-499	15
ENGR 430 Capstone/Design I	4
ENGR 432 Capstone/Design II	4
Physics	
PHYS 330/331 Modern Physics Lecture/Lab	4
Philosophy	
PHIL 379 Philosophy, Religion and Science	(3) ¹
Mathematics	
MATH 185 Calculus I	(3) ¹
MATH 186 Calculus II, 286 Calculus III, 361 Ordinary Differential Equations	9
Math/Science Selections	
College Level Math, Chemistry, Physics, or Biology	8
Economics	
ECON 261 Principles of Microeconomics	(3) ¹
Design	
DSGN 232 Digital Design Communication	3
TOTAL	72
¹ Hours (in parenthesis) may also fulfill university requirements and are not included in total major hours	
ELECTIVES	
Minimum	0
TOTAL MAJOR HOURS	72
OTHER GRADUATION REQUIREMENTS	
Minimum grade for PHYS or ENGR	C
Minimum GPA for graduation	2.00
Minimum advanced hours	33
Minimum total hours	128
<i>Courses numbered 0** do not count in minimum hours required for degree.</i>	

Proposed

BS: ENGINEERING DEGREE PLAN (ENGR)	
UNIVERSITY REQUIREMENTS	
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MAJOR REQUIREMENTS	
Chemistry	
CHEM 133/131 General Chemistry I and Laboratory	4
Engineering	
ENGR 115 Introduction to Engineering and Physics	2
ENGR 116 Introduction to Engineering and Physics Lab	1
ENGR 131 Computer Aided Design and Modeling	3
ENGR 135 Circuits	3
ENGR 136 Circuits Lab	1
ENGR 220 Engineering Mechanics: Statics	3
ENGR 222 Engineering Mechanics: Dynamics	3
ENGR 305 Environmental and Health Safety	2
ENGR 306 Ethics	1
ENGR 333 Fluid Mechanics	3
ENGR 342 Measurement Techniques	3
ENGR 343 Measurement Techniques Laboratory	1
ENGR 350 Engineering Economics	(3) ¹
ENGR 390 Junior Clinic	3
ENGR 430 Senior Clinic 1	3
ENGR 432 Senior Clinic 2	3
ENGR 481 Thermodynamics	3
Engineering Electives	
Selected in consultation with advisor	14
Mathematics	
MATH 185 Calculus I	(3) ¹
MATH 186 Calculus II, 286 Calculus III, 361 Ordinary Differential Equations	9
Math/Science Selections	
Choose from the following	4
MATH 325, 341, 377, 463	
BIOL 112 or above, excluding 203	
Chem 114 or above, excluding 203	
PHYS above 331, excluding 335/336, 342/343, 379, 388 and 401	
Philosophy	
PHIL 379 Philosophy, Religion and Science	(3) ¹
Physics	
PHYS 220 Engineering Physics I	(3) ¹
PHYS 221 Engineering Physics I Laboratory	1
PHYS 222 Engineering Physics II	(3) ¹
PHYS 223 Engineering Physics II Laboratory	1
PHYS 330 Modern Physics	(3) ¹
PHYS 331 Modern Physics Laboratory	1
TOTAL	72
¹ Hours (in parenthesis) may also fulfill university requirements and are not included in total major hours	
ELECTIVES	
Minimum	0
TOTAL MAJOR HOURS	72
OTHER GRADUATION REQUIREMENTS	
Minimum grade for PHYS or ENGR	C
Minimum GPA for graduation	2.00
Minimum advanced hours	33
Minimum total hours	128
<i>Courses numbered 0** do not count in minimum hours required for degree.</i>	