

BS in Engineering Physics Degree Requirements (old)

General Education Requirements	42
Area One - Communication and Mathematical Skills	
ENG 101 and 102 - Composition I & II	8
Mathematics – see required math below	
Area Two - The Western Experience	
HST 101, 102, 103 - American History	9
Great Books of the Western World	3
Fine and Performing Arts	3
Area Three - The Non-Western World	
Comparative Studies (CST)	3
Regional Studies (RST)	3
Area Four - Understanding the Contemporary World	
Natural Science - see required physics below	
PSY 105 - Psychology: The Science of Behavior	4
SOC 200 - Social Life	3
PLS 200 - Political Life	3
EC 200 - Economic Life	3
Required Mathematics / Statistics Courses	28
MTH 229, 230, 231, 232, 233 - Calculus I, II, III, IV & Differential Equations	25
MTH 253 - Matrix Algebra	3
Required Chemistry Courses	10
CHM 121 - Submicroscopic Chemistry	5
CHM 122 - Macroscopic Chemistry	5
Required Physics Courses	42
PHY 240/200, 242/202, 244/204 - General Physics	16
PHY 260 - Introduction to Modern Physics	4
PHY 316 - Digital Instrumentation Lab	3
PHY 371 - Analytical Mechanics I	3
PHY 372 - Analytical Mechanics II	3
PHY 450 - Electricity & Magnetism I	3
PHY 451 - Electricity & Magnetism II	3
PHY 452 - Electricity & Magnetism III	4
PHY 420 - Thermodynamics (may substitute ME 315)	3
Required Engineering Physics Courses:	12
EP 494 - Engineering Physics Design Project	2
EP 494 - Engineering Physics Design Project	3
EP 494 - Engineering Physics Design Project	3
PHY 461 - Solid State Physics	4
Required Engineering Courses	10
EGR 190, 191 - Fundamentals of Engineering I & II	6
CEG 220 - Intro to C for Engineers or CS 240 - Computer Science I	4
Required Electrical Engineering Courses	33
EE 301/302 - Circuit Analysis I + Lab	5
EE 303/304 - Circuit Analysis II + Lab	4
EE 321, 322 - Linear Systems I, II	8
EE 331/332 - Electronic Devices + Lab	4
EE 413/414 - Control Systems I + Lab	4
EE 415/415 - Control Systems II + Lab	4
EE 421 - Communication Theory	4
Technical Electives	20
Choose from courses numbered 200 level or higher from the Colleges of S&M, E&CS or B&A. Courses must be approved by student's advisor. Redundant courses such as MTH 228 and co-listed courses may not be used.	
Total Hours	197

BS in Engineering Physics Degree Requirements (new)

General Education Requirements	66
Area I: Communication and Mathematical Skills 18 ENG 101 and 102 - Composition I & II MTH 229 and 230 - Calculus I & II	
Area II: The Western Experience 8 History: CLS 150; HST 101, 102, 103 The Non-Western World: CSE; CST; HLT 202; SW 272; URS 200; RSE; RST	
Area III: The Non-Western World 8 Psychology: PSY 105 Sociology: SOC 200, 205; WMS 200 Political Science: PLS 200 Economics: EC 200	
Area IV: Understanding the Contemporary World 12 Great Books: CLS / ENG / PHL / REL 204 Fine and Performing Arts: ART / MUS / TH 214; MUS 290	
Area V: Natural and Physical Sciences 16 PHY 240/200, 242/202, 244/204	
Area VI: College Component 4 EGR 190 - Fundamentals of Engineering	
Related Course Requirements	32
MTH 231, 232, 233 - Calculus III, IV & Differential Equations	15
MTH 253 - Matrix Algebra	3
CHM 121 - Submicroscopic Chemistry	5
CHM 122 - Macroscopic Chemistry	5
CEG 220 - Intro to C for Engineers or CS 240 - Computer Science I	4
Physics Requirements	27
PHY 260 - Introduction to Modern Physics	4
PHY 316 - Digital Instrumentation Lab	3
PHY 371 - Analytical Mechanics I	3
PHY 372 - Analytical Mechanics II	3
PHY 450 - Electricity & Magnetism I	3
PHY 451 - Electricity & Magnetism II	3
PHY 452 - Electricity & Magnetism III	4
PHY 461 - Solid State Physics	4
Engineering Requirements	49-50
EGR 101 - Introductory Math for Engineering Applications	5
EE 301/302 - Circuit Analysis I + Lab	5
EE 303/304 - Circuit Analysis II + Lab	4
EE 321, 322 - Linear Systems I, II	8
EE 331/332 - Electronic Devices + Lab	4
EE 413/414 - Control Systems I + Lab	4
EE 415/415 - Control Systems II + Lab	4
EE 421 - Communication Theory	4
EP 494 - Engineering Physics Design Project	8
PHY 420 - Thermodynamics (may substitute ME 315)	3-4
Technical Electives	23
Choose from courses numbered 200 level or higher from the Colleges of S&M, E&CS or B&A. Courses must be approved by student's advisor. Redundant courses such as MTH 228 and co-listed courses may not be used.	

Total Hours

197