

Representative 4-Year Degree Plan Starting Fall Even Years
Howard Payne University
B.S. in Engineering Science

Freshman Fall Even				Freshman Spring Odd			
Hrs	Lecture	Lab		hrs	Lecture	Lab	
CHE 1479 General Chemistry I				BIB 1304 Introduction to New Testament or Directed STEM Elective (see list)			
CIS 1339 Intro. Information Technology				CIS 1359 Programing Logic			
ENG 1311 English Composition I				ENG 1312 English Composition II			
ENS 1101 Introduction to Engineering				ENS 1379 Engineering Princ. and Pract.			
GEN 1101 University Seminar				KIN 1100 Principles of Personal Fitness			
MAT 2451 Calculus I*				MAT 2461 Calculus II			
	0	0	0		0	0	0
Sophomore Fall Odd				Sophomore Spring Even			
Hrs	Lecture	Lab		Hrs	Lecture	Lab	
ENG 2351, 53, or 73 English Literature				BIB 1304 Introduction to New Testament or Directed STEM Elective (Choose course not chosen above)			
ENS 1304 Engrg. Graphics I				ENS 1305 Engrg. Graphics II			
KIN Course Class A				ENS 2301 Statics			
MAT 3302 Linear Algebra				MAT 3451 Differential Equations			
MAT 3361 Calculus III				PHY 2449 University Physics II			
PHY 2439 University Physics I							
	0	0	0		0	0	0
Junior Fall Even				Junior Spring Odd			
Hrs	Lecture	Lab		Hrs	Lecture	Lab	
BIB 1303 Introduction to Old Testament				COM 1310 Fund. Human Commun. Directed STEM elective (see list)			
ENS 2302 Dynamics				ENS 4109 Eng. Design Project Lab Proposal			
GOV 2311 American Government or Directed STEM Elective (See List)				ENS 4441 App Prob. & Stats			
ENS 3339 Mechanics of Materials				HIS 1310 or HIS 1320 U.S. History Psychology or Sociology course			
ENS 3351 Engineering Ethics (Fall Even)							
ENS 3331 Thermodynamics							
	0	0	0		0	0	0
Senior Fall Odd				Senior Spring Even			
Hrs	Lecture	Lab		Hrs	Lecture	Lab	
ENS 2334 Eng. Economic Anal. (Fall Odd)				ENG 3306 Technical Writing (Spring Even)			
ENS 4309 Electrical Circuit Theory				ENS 4319 Microelectronic Circuits			
ENS 4369 Engineering Design Projt Lab I				ENS 4379 Engineering Design Projt Lab II			
GEN 4100 Senior Seminar				Fine Arts from the approved list			
GOV 2311 American Government or Directed STEM Elective (Choose course not chosen above)							
KIN Course (Class A or B)							
	0	0	0		0	0	0
					0	0	34/38

Directed STEM Electives

CHE 1489, CIS 2310, 3309, 3319, 3329,
 ENS 2104, 2204, 2304, 2399, MAT 4371