



Sample 4-year Guided Pathway for Bachelor of Science in Electrical Engineering

Last Revised 2024-2025

This is ONLY a sample degree pathway. Please meet with an academic or faculty advisor prior to registration to formulate your own plan, and for additional information refer to the [academic catalog](#).

Year	Fall Semester	Spring Semester
1st	MATH 2214 Calculus I (GE QA&SR)* 3	GE H&P 3
	GE WC&IL 1* 3	GE WC&IL 2 3
	GE SW 3	MATH 2215 Calculus II 3
	CSCI 1611 A Gentle Introduction to Programming** 3	CSCI 2651 Python 3
	ENGR 1500 Design Project Experience I 1	
	ENGE 1000 Introduction to Engineering (GE I&T) 3	
	Total Credits 15	Total Credits 13

Year	Fall Semester	Spring Semester
2nd	ENGE 2000 Linear Circuits & Systems 3	MATH 3305 Linear Algebra 3
	ENGE 2001 Linear Circuits & Systems Lab 1	ENGE 2004 Dig. Hardware & Mic. Cont. 3
	MATH 2216 Calculus III 3	ENGE 2005 Dig. Hard. & Mic. Cont. Lab 1
	PHYS 2050 General Physics I 3	ENGE 2006 Electronics 3
	PHYS 2051 General Physics I Lab 1	ENGE 2007 Electronics Lab 1
	CHEM 2050 General Chemistry I (GE NW) 3	Technical Elective 3
	CHEM 2051 General Chemistry I Lab 1	Technical Elective Lab 1
		ENGR 2500 Design Project Experience II 1
		Total Credits 16

Year	Fall Semester	Spring Semester
3rd	GE AE 3	GE CT&E 3
	ENGE 3000 Signals & Systems 3	GE CA 3
	ENGE 3001 Signals & Systems Lab 1	ENGE 3006 Electromagnetics 3
	MATH 3307 Differential Equations 3	ENGE 3007 Control Systems 3
	ENGR 3500 Engineering Design Project I 3	ENGE 3008 Control Systems Lab 1
		ENGR 3501 Engineering Design Project II 3
	Total Credits 13	Total Credits 16

Year	Fall Semester	Spring Semester
4th	GE GC&D	MATH 3470 Engineering Statistics
	ENGR 4500	GE T&M
	Major Elective – from Approved List	ENGR 4500
	Unrestricted Elective	Unrestricted Elective
	Unrestricted Elective	
	Total Credits	Total Credits
	3	3
	3	3
	3	3
	3	3
	3	3
	15	12

This schedule is only a suggestion; make sure you understand the necessary prerequisites for each course and consult with your Academic Advisor. Course availability subject to change; actual degree plan may change depending on course availability in a given semester.

** If you were placed into foundational Writing and Mathematics courses based on your placement and/or test scores, please consult with your academic advisor to develop a degree plan.*

*** If you seek to place out of CSCI 1911, contact Dr. Crawford (scrawford@hpu.edu).*

Baccalaureate Requirements

- Total Degree Credits Required = 120 credits of which a minimum of 38 are Upper-Division Credits (level 3000 and above)
- Completion of Major Requirements (*as indicated above*)
- Completion of General Education Requirements (*as indicated above*)
- Cumulative GPA of at least 2.0; Major GPA of at least 2.0
- Residency Requirements: 12 credits of major course work and 24 of the last 30 credits immediately preceding graduation (*Service member's Opportunity College students please see your academic advisor*)

For more information on our General Education curriculum please refer to our Academic Catalog or visit: <https://www.hpu.edu/gen-ed/index.html>