

Four Year Plan for General Engineering – Starting Fall 2024

Fall Semester			Spring Semester	
Year	Class	Crds.	Class	Crds.
1	PHEN 110 Intro to Physics and Engineering	2	PHEN 121 Classical Physics I	4
	CPSC 100 Intro to Computing	3	MATH 190 Calculus I	4
	CHEM 111 General Chemistry I	4	Gen. Ed.: U.S. Experience	3
	ENGL 121 English Composition	3	COMM 200 Fundamentals of Speech Comm.	3
	MUXP 101 Muskingum Experience 1	1	PHEN 111 Career Development in Physics and Engineering (MUXP 151)	1
	Gen. Ed.: Health	2		
	Total credits	15	Total credits	15
2	PHEN 122 Classical Physics II	4	MATH 140 Practical Statistics	3
	PHEN 210 Statics	4	PHEN 211 Dynamics	3
	MATH 200 Calculus II	4	PHEN 235 Electrical Circuit Analysis & Design	4
	Gen. Ed.: Artistic Understanding/Expression	3	Math & Basic Science Elective	3
			Gen. Ed.: International Perspectives	3
	Total credits	15	Total credits	16
3	PHEN 300 Material Science	4	PHEN 320 Thermodynamics	4
	PHEN 360 Strength of Materials	4	PHEN 330 Principles of Design	3
	Free Elective	3	MATH 320 Differential Equations	3
	MATH 230 Linear Algebra & Vectors	3	Gen. Ed. Moral Inquiry	3
	Gen. Ed.: Religious Understanding	3	Free Elective	3
	Total credits	17	Total credits	16
4	Free Elective	3	Free Elective	3
	PHEN 410 Measurements	4	PHEN 420 Fluid Mechanics	4
	PHEN 435 Engineering Economics, Ethics, and Society	3	PHEN 495 Gen. Engr. Senior Project	3
	PHEN 490 Intro to Gen. Engr. Senior Project	1	Gen. Ed.: Western Traditions	3
	Gen. Ed.: Cultural Diversity	3	Free Elective	3
	Total credits	14	Total credits	16

Note 1: You must place for MATH 180 Pre-Calculus or higher prior to starting at Muskingum University.

Note 2: You must follow the sequence of PHEN and MATH courses.

Note 3: You must complete two writing unit courses, with at least one at the 300 or 400 level.

Note 4: You can take 2 courses that are 1 credit hour each or 1 course that is 2 or 3 credit hours to satisfy the Gen. Ed. Health requirement.

Note 5: You must complete 7 credit hours of electives (from Math & Basic Science, Gen. Ed. and Free) from 300 or 400 level courses.

Note 6: You must complete Math & Basic Science Electives chosen from the following prefixes: MATH, ANST, BIOL, CHEM, CVSC, EVSC, GEOL, MBIO, NRSC, or Advisor Approval. The total number of credit hours must be greater than or equal to 3.

Note 7: You are encouraged to complete additional course work in Safety, Health and Environment and Numerical Methods.

Note 8: You must take the Fundamentals of Engineering Exam in Other Disciplines and share your scores with the Physics & Engineering Department Chair prior to the end of your senior year.

12/09/23

Engineering Topics = 47 credit hours, Math & Basic Sciences = 32 credit hours