

Four Year Plan for Engineering Program – General Engineering Track (Fall 2025) – Last Updated on 09/01/25.

Fall Semester			Spring Semester	
Year	Class	Crds.	Class	Crds.
1	PHEN 110 Intro to Engineering CN1	2	PHEN 111 Career Development in Engineering (MUXP 151)	1
	Gen Ed.: Communicating in the World CN2	3	PHEN 121 Classical Physics I	4
	CHEM 111 General Chemistry I	4	MATH 140 Practical Statistics	3
	ENGL 121 English Composition	3	MATH 190 Calculus I	4
	MUXP 101 Muskingum Experience 1	1	COMM 200 Fundamentals of Speech Comm.	3
	Gen. Ed.: Health CN3	2		
	Total credits	15	Total credits	15
2	PHEN 122 Classical Physics II	4	PHEN 211 Dynamics	3
	PHEN 210 Statics	4	PHEN 360 Strength of Materials	4
	MATH 200 Calculus II	4	Math / Basic Science Elective TN2	3
	Gen. Ed.: Artistic Understanding/Expression	3	Gen. Ed.: U.S. Experience	3
			Gen. Ed.: International Perspectives	3
	Total credits	15	Total credits	16
3	PHEN 300 Materials Science	4	PHEN 235 Circuit Analysis	4
	MATH 230 Linear Algebra & Vectors	3	PHEN 320 Thermodynamics	4
	Gen. Ed.: Religious Understanding	3	MATH 320 Differential Equations	3
	Free Elective	4	Gen. Ed. Moral Inquiry	3
	Total credits	14	Total credits	14
4	PHEN 410 Mechatronics	4	PHEN Technical Elective TN3	3
	PHEN 420 Fluid Mechanics	4	Free Elective	3
	PHEN 435 Engineering Economics, Ethics, and Society	3	PHEN 495 Senior Project	3
	PHEN 490 Intro to Senior Project	2	Gen. Ed.: Western Traditions	3
	Gen. Ed.: Cultural Diversity	3	PHEN 310 Internship	3
	Total credits	16	Total credits	15

Common Notes:

1. You must place for MATH 180 Pre-Calculus or higher prior to starting at Muskingum University.
2. Consider taking PC Applications (CPSC 100) for Gen. Ed. Communicating in the World.
3. You can take two courses that are 1 credit hour each or one course that is 2 or 3 credit hours to satisfy the Gen. Ed. Health requirement.
4. You must follow the sequence of PHEN and MATH courses.
5. You must complete two writing unit courses, with at least one at the 300 or 400 level.
6. You must complete the Career Services Plan. Except for PHEN 111, advisors will need to monitor student progress each semester.

Track Notes:

1. You must complete 6 credit hours of electives (from Math / Basic Science, Gen. Ed. and Free) from 300 or 400 level courses.
2. You must complete Math / Basic Science Electives chosen from the following prefixes: MATH, ANST, BIOL, CHEM, ENCV, GEOL, or Advisor Approval. The total number of credit hours must be greater than or equal to 3.
3. You must complete a PHEN Technical Elective chosen from the following courses:
4. You are encouraged to complete additional course work in Safety, Health and Environment and Numerical Methods.
5. 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.
- 6.
7. You automatically complete a minor in math.
8. Engineering Topics = 48 credit hours, Math / Basic Science = 32 credit hours

Career Services Plan:

FALL	SPRING
LinkedIn (Scheduled Event)	PHEN 111 (Fin. Lit., Career Exploration, Grad Plan, Resume Building)
Khana Connections Conference (Scheduled Event)	Resume Workshop (Scheduled Event)
Job Search Strategies & Resources (Scheduled Event)	Speed Networking (Scheduled Event)
Etiquette Dinner (Scheduled Event)	Big Interview (Multiple Scheduled Events)