

Four Year Plan for Engineering Program – Mechanical 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 310 Calculus III	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	3	Gen. Ed. Moral Inquiry	3
	Total credits	13	Total credits	14
4	PHEN 410 Mechatronics	4	PHEN 460 Heat Transfer	3
	PHEN 420 Fluid Mechanics	4	PHEN 450 Mechanical Design and Manufacturing	4
	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	16

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.
- 2.
- 3.
4. You are encouraged to complete additional course work in Numerical Methods.
5. You must take the **Fundamentals of Engineering Exam in Mechanical Engineering** and share your scores with the Physics & Engineering Department Chair before the end of your senior year.
- 6.
7. You automatically complete minor in math.
8. Engineering Topics = 52 credit hours, Math & Basic Sciences = 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)