

Four Year Plan for Engineering Program – General Engineering Track (Fall 2026) – Last Updated on 05/18/26.

Fall Semester			Spring Semester	
Year	Class	Crds.	Class	Crds.
1	PHEN 110 Intro to Engineering CN1	2	PHEN 121 Classical Physics I	4
	Gen Ed.: Comm in Global/Digital CN2	3	MATH 140 Practical Statistics	3
	CHEM 111 General Chemistry I	4	MATH 190 Calculus I	4
	ENGL 121 English Composition	3	COMM 200 Fundamentals of Speech Comm.	3
	MUXP 101 Muskingum Experience 1	1		
	Gen. Ed.: Health	3		
	Total credits	16	Total credits	14
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	3	Gen. Ed. Moral Inquiry	3
	Total credits	13	Total credits	14
4	PHEN 410 Mechatronics	4	PHEN Technical Elective TN3	3
	PHEN 420 Fluid Mechanics	4	Free Elective	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 (CN):

1. You must place for MATH 180 Pre-Calculus or higher prior to starting at Muskingum University.
2. Consider taking Intro to Computer Science (CPSC 100) for Gen. Ed. Communicating in Global/Digital Age.
3. You must follow the sequence of PHEN and MATH courses (i.e. chain of prerequisites).
4. You must complete two writing unit courses, with at least one at the 300 or 400 level.
5. You must complete the PHEN Career Services Plan – see next page.

Track Notes (TN):

1. You must complete 6 credit hours of electives (from PHEN Technical Elective, Math / Basic Science, Gen. Ed. and Free) from 300 or 400 level courses.
2. You must complete at least 3 credit hours from the following Math / Basic Science courses: BIOL 107, BIOL 111, CHEM 112, GEOL 101, or MATH 310.
3. You must complete a PHEN Technical Elective chosen from the following courses: PHEN 200, PHEN 305, PHEN 315, PHEN 325, PHEN 335, PHEN 415, PHEN 425, PHEN 450, or PHEN 460.
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.
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7. You automatically complete a minor in math.
8. Engineering Topics = 47 credit hours, Math / Basic Science = 32 credit hours

PHEN Career Services Plan:

FALL	SPRING
	LinkedIn (Scheduled Event)
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)