

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

Fall Semester			Spring Semester	
Year	Class	Crds.	Class	Crds.
<b>1</b>	PHEN 110 Intro to Engineering <b>CN1</b>	2	PHEN 121 Classical Physics I	4
	Gen. Ed.: Comm in Global/Digital Age <b>CN2</b>	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	<b>16</b>	Total credits	<b>14</b>
<b>2</b>	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	<b>15</b>	Total credits	<b>16</b>
<b>3</b>	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	<b>13</b>	Total credits	<b>14</b>
<b>4</b>	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	<b>16</b>	Total credits	<b>16</b>

## 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.
- 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 a minor in math.
8. Engineering Topics = 51 credit hours, Math & Basic Sciences = 32 credit hours

**PHEN Career Services Plan:**

<b>FALL</b>	<b>SPRING</b>
	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)