

## General Engineering – Program Sequence

Fall Semester			Spring Semester	
Year	Class	Crds.	Class	Crds.
<b>1</b>	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	<b>15</b>	Total credits	<b>15</b>
<b>2</b>	PHEN 122 Classical Physics II	4	PHEN 203 Modern Physics	4
	PHEN 210 Statics	4	PHEN 211 - Dynamics	3
	MATH 200 Calculus II	4	PHEN 235 Electrical Circuits Analysis & Design	4
	Gen. Ed.: Artistic Understanding/Expression	3	MATH 310 Calculus III	3
			Gen. Ed.: International Perspectives	3
	Total credits	<b>15</b>	Total credits	<b>17</b>
<b>3</b>	PHEN 300 Material Science	4	PHEN 320 Thermodynamics	4
	PHEN 310 Optics	4	PHEN 330 Principles of Design	3
	PHEN 370 Electromagnetics	3	MATH 320 Differential Equations	3
	MATH 230 Linear Algebra & Vectors	3	Gen. Ed. Moral Inquiry	3
	Gen. Ed.: Religious Understanding	3	Free Elective or Eng. Elective	3
	Total credits	<b>17</b>	Total credits	<b>16</b>
<b>4</b>	PHEN 405 Signals & Systems	3	PHEN 415 Control Systems	3
	PHEN 410 Measurements	3	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
	Free Elective or Eng. Elective	3	Gen. Ed.: Cultural Diversity	3
	Total credits	<b>13</b>	Total credits	<b>16</b>

**Note 1:** The schedule above assumes that the student has the necessary prerequisites to take MATH 190 in the spring semester of the first year. Students who did not take Precalculus in high school must have the prerequisites to take MATH 180 in the fall semester of their freshman year.

**Note 2:** The schedule includes all the General Education requirements provided that the additional writing unit courses are included. There is some flexibility to deviate from the above schedule for Gen Ed courses.

**Note 3:** It is strongly recommended that you follow the above schedule for all major courses and meet frequently with your academic advisor.

**Note 4:** Two credits are required for the General Education Health category. You can take 2 courses that are 1 credit each or 1 course that is 2 or 3 credits to satisfy this requirement.