

RECOMMENDED SCHEDULE

ENTERING FALL 2018

Official course requirements based upon semester admitted into the program.

First Year

Fall			Spring			Summer		
3150:151	^Principles of Chemistry I	3	3150:153	^Principles of Chemistry II	3			
3150:152	Principles of Chem I Lab	1	3450:222	^Analytic Geometry-Calculus II	4			
3300:111	~^English Composition I	3		^2nd Writing Course	3			
3450:221	^Analytic Geometry-Calculus I	4		*General Ed or Honors Distribution	3			
4600:165	Tools for Mechanical Engineering	3		*General Ed or Honors Distribution	3			
14			16					

Second Year

Fall			Spring			Summer		
3250:244	Intro to Economic Analysis (Social Sci)	3	3450:335	Intro. To Ordinary Dif Equations	3			
3450:223	^Analytic Geometry-Calculus III	4	3650:292	^Elementary Classical Physics II	4		Possible	
3650:291	^Elementary Classical Physics I	4	4300:202	Mechanics of Solids	3	4100:300	Cooperative Education Work Per	
4300:201	^Statics	3	4600:203	^Dynamics	3			
	*General Ed or Honors Distribution	3	4600:260	Engineering Analysis I	2			
17			15					

Third Year

Fall			Spring			Summer		
3470:401	Prob. & Stats. For Engineers	2				4600:311	Fluid Mechanics II	3
4600:300	Thermodynamics I	3				4600:380	Introduction to Materials Sci and Eng	2
4600:310	Fluid Mechanics I	2	4100:301	Cooperative Education Work Per		4600:340	Systems Dynamics & Response	3
4600:321	Kinematics of Machines	2						
4600:336	Analysis of Mechanical Components	3						
4600:360	Engineering Analysis II	2						
14						8		

Fourth Year

Fall			Spring			Summer		
			4600:301	Thermodynamics II	2			
			4600:315	Heat Transfer	3			
4100:302	Cooperative Education Work Per		4600:337	Design of Mechanical Components	3	4100:403	Cooperative Education Work Per	
			4600:431	Fundamentals Of Mechanical Vibrations	3			
			4600:483	Mechanical Eng Measurements Lab	2			
			4400:307	Basic Electrical Engineering	4			
			17					

Fifth Year

Fall			Spring			Summer		
4600:400	Thermal System Components	3		Mechanical Engineering Elective	3			
4600:402	Senior Seminar	1		Mechanical Engineering Elective	3			
4600:441	Control Systems Design	3	4600:471	ME Senior Design Project II	2			
4600:460	Concepts of Design	3		*General Education Courses	9			
4600:484	Mechanical Engineering Laboratory	2		Non-Honors Track	17			
	Mechanical Engineering Elective	3		Honors Project	4			
4600:461	ME Senior Design Project I (CS)	2		Honors Distribution	6			
	Non-Honors Track	17		Honors Track	16			
	Honors Course	3						
	Honors Track	18						

College of Engineering Notes

*Credit hours shown for General Education or Honors Distribution are general guidelines only. These courses should be chosen in accordance with the appropriate General Education curriculum guide (for non-honors students) or Honors Distribution (for honors students). Honors students must also ensure that their course selections meet additional requirements not shown on this curriculum guide.

[Gen Ed Program - https://www.uakron.edu/general-education/](https://www.uakron.edu/general-education/)

[Honors Distribution - https://www.uakron.edu/honors/curriculum/](https://www.uakron.edu/honors/curriculum/)

^Honors sections may be available; check the schedule of classes.

Mechanical Engineering Program Notes

ME Electives must include 3 credits Mechanical Engineering design elective, 3 credits Technical elective, and 3 credits Mechanical Engineering technical elective.

See Mechanical Engineering Departmental advisors for approved mechanical engineering electives

~The Mechanical Engineering Department recommends that English Composition I be used to satisfy writing course requirement but other choices are available. See the General Education Program for details.

*Check General Education Program or Honors Distribution to find courses that satisfy the 2nd writing course requirement.

In addition to meeting all other degree requirements, a minimum of 136 credits must be completed.