



Department of Electrical and Computer Engineering
B.S. Electrical Engineering with Co-op 44005BS

Updated: 12/17/2018

RECOMMENDED SCHEDULE
 Official course requirements based upon semester admitted into the program.

ENTERING FALL 2018

First Year								
Fall			Spring			Summer		
3150:151	^Principles of Chemistry I	3	3300:111	^^English Composition I	3			
3150:152	Principles of Chem I Lab	1	3450:222	^Analytic Geometry-Calculus II	4			
3300:111	^^English Composition I	3	3650:291	^Elementary Classical Physics I	4			
3450:221	^Analytic Geometry-Calculus I	4	4450:220	Digital Logic Design	4			
4400:101	Tools for Electrical Engineering	3		*General Ed or Honors Distribution	3			
14			18					

Second Year								
Fall			Spring			Summer		
3450:223	^Analytic Geometry-Calculus III	4	3450:335	Intro. To Ordinary Dif Equations	3			
3650:292	^Elementary Classical Physics II	4	4300:201	^Statics	3		Possible	
4400:230	Circuits I Lab	1	4400:330	Circuits II Lab	1	4100:300	Cooperative Education Work Period	
4400:231	Circuits I	3	4400:332	Circuits II	3			
	*General Ed or Honors Distribution	3	4450:208	Programming for Engineers	3			
	*General Ed or Honors Distribution	3		*General Ed or Honors Distribution	3			
18			16					

Third Year								
Fall			Spring			Summer		
4300:202 or 4600:203	Intro: Mechanics of Solids or ^Dynamics	3				3470:401	Prob. & Stat. for Engineers	2
4400:340	Signals & Systems	4				4200:305 or 4600:305	Material Science or Thermal Science	2
4400:353	Electromagnetics I	4	4100:301	Cooperative Education Work Period			*General Ed or Honors Distribution	3
4400:360	Physical Electronics	3				4400:302	Research II (Optional)	1
4400:381	Energy Conversion	4						
4400:301	Research I (Optional)	1						
19						8		

Fourth Year								
Fall			Spring			Summer		
			4400:309	Design Project Seminar	1			
			4400:341	Intro. Communication Systems	3			
4100:302	Cooperative Education Work Period		4400:354	Electromagnetics II	3	4100:403	Cooperative Education Work Period	
			4400:361	Electronic Design	4			
			4400:371	Control Systems I	4			
			4400:303	Research III (Optional)	1			
			16					

Fifth Year								
Fall			Spring			Summer		
4400:401	Senior Design Project I (CT)	2	4400:402	Senior Design Project II (CS)	3			
	Electrical Engineering Elective	3		Electrical Engineering Elective	3			
	Electrical Engineering Elective	3		Electrical Engineering Elective	3			
	Electrical Engineering Elective	3		Electrical Engineering Elective	3			
	*General Ed or Honors Distribution	3		*General Ed or Honors Distribution	3			
14			15					

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.

Electrical Engineering Program Notes
 Up to three credits of undergraduate research in Electrical Engineering may be applied to program requirements as Electrical Engineering Electives. Students may take at most one credit of undergraduate research in a semester.

See Electrical and Computer Engineering advisors for Approved Electrical Engineering Electives (including Breadth and Depth requirements)

*The Electrical and Computer Engineering Department recommends that English Composition be used to satisfy writing course requirements but other choices are available. See the General Education Program or Honors Distribution for details.

In addition to meeting all other degree requirements, a minimum of 137 credits must be completed.