



Department of Electrical and Computer Engineering
B.S. Computer Engineering 445000BS

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	3300:112	^*English Composition II	3			
3150:152	Principles of Chem I Lab	1	3450:208	Discrete Math	4			
3300:111	^*English Composition I	3	3450:222	^Analytic Geometry-Calculus II	4			
3450:221	^Analytic Geometry-Calculus I	4	3650:291	^Elementary Classical Physics I	4			
4450:101	Tools for Computer Engineering	3	4450:220	Digital Logic Design	4			
14			19					

Second Year								
Fall			Spring			Summer		
3460:209	Computer Science I	4	3460:210	Computer Science II	4			
3450:223	^Analytic Geometry-Calculus III	4	3450:335	Intro. To Ordinary Differential Equations	3			
3650:292	^Elementary Classical Physics II	4	4400:330	Circuits II Lab	1			
4400:230	Circuits I Lab	1	4400:332	Circuits II	3			
4400:231	Circuits I	3	4450:320	Computer Systems	3			
	*General Ed or Honors Distribution	3		*General Ed or Honors Distribution	3			
19			17					

Third Year								
Fall			Spring			Summer		
4400:340	Signals & Systems	4	4450:309	Design Project Seminar	1	3470:401	Prob. & Stat. for Engineers	2
4400:360	Physical Electronics	3	4450:367	VLSI Design	3		*General Ed or Honors Distribution	3
4450:325	Operating Systems Concepts	3	4450:420	Computer Sys. Design	3		*General Ed or Honors Distribution	3
4450:422	Embedded Systems Interfacing	3	4450:427	Computer Networks	3	4450:303	Research 3 (Optional)	1
	*General Ed or Honors Distribution	3	4450:440	Digital Signal Processing	3			
4450:301	Research I (Optional)	1	4450:302	Research II (Optional)	1			
17			14			9		

Fourth Year								
Fall			Spring			Summer		
4450:401	Senior Design Project I (CT)	2	4450:402	Senior Design Project II (CS)	3			
	Computer Engineering Elective	3		Computer Engineering Elective	3			
	Computer Engineering Elective	3		Computer Engineering Elective	3			
	Computer Engineering Elective	3		Computer 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.

Computer Engineering Program Notes

Up to three credits of undergraduate research in Computer 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 Computer 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.