

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	3150:153	^Principles of Chemistry II	3
3150:152	Principles of Chem I Lab	1	3450:222	^Analytical Geometry-Calculus II	4
3300:111	~^English Composition I	3	3650:291	^Elementary Classical Physics I	4
3450:221	^Analytical Geometry-Calculus I	4	4800:111	Intro Biomedical Engineering Design	3
4800:101	Tools for Biomedical Engineering	3		^2nd Writing Course	3
14			17		

Second Year					
Fall		Spring		Summer	
3100:200	Human Anatomy & Physiology I	3	3100:202	Human Anatomy & Physiology II	3
3100:201	Human Anatomy & Physiology I Lab	1	3100:203	Human Anatomy & Physiology II Lab	1
3450:223	^Analytical Geometry-Calculus III	4	3450:335	Intro. To Ordinary Diff 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	4450:220	Digital Logic Design	4
4800:201	Biomedical Eng.Sophomore Sem	1	4800:220	Biomedical Computing	3
17			18		

Third Year					
Fall		Spring		Summer	
3600:120	Intro to Ethics (Humanities)	3	4800:310	Model & Sim of Biomedical Systems	3
4300:201	^Statics	3	4600:203	^Dynamics	3
4400:343	Signals & Systems	4		Biomedical Engineering Elective	3
4400:360	Physical Electronics	3		*General Ed or Honors Distribution	3
4800:305	Intro Biophysical Measurements	4		*General Ed or Honors Distribution	3
17			15		

Fourth Year					
Fall		Spring		Summer	
4800:325	Design of Medical Devices	3	4800:400	Biomaterials	3
4800:420	Biomedical Signal& Image Proc	3	4800:430	Design of Medical Imaging Systems	3
4800:491	Biomedical Design I	2	4800:492	Biomedical Design II (CS)	2
	Biomedical Engineering Elective	3		Biomedical Engineering Elective	3
	*General Ed or Honors Distribution	3		*General Ed or Honors Distribution	3
14			14		

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.

Biomedical Engineering Department Notes
 The 9 credits of BME Electives must include:
 a minimum of 3 credits from a BME (4800) course
 6 credits of BME Electives must be 300-400 level Engineering, Math, Physics, Biology or Chemistry courses
 ~The Biomedical 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 134 credits must be completed.