

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 Chemistry 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	4800:111 Intro Biomedical Eng. 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 ^Analytic Geometry-Calculus III 4	3150:154 Qualitative Analysis 2	
3650:292 ^Elementary Classical Physics II 4	3450:335 Intro. To Ordinary Dif Equations 3	
4300:201 ^Statics 3	4300:202 Mechanics of Solids 3	
4800:201 Biomedical Eng.Sophomore Sem 1	4600:203 ^Dynamics 3	
16	15	

Third Year		
Fall	Spring	Summer
3150:263 Organic Chemistry I 3	4400:307 Basic Electrical Engineering 4	3470:461 Applied Statistics 4
3150:265 Organic Chemistry I Lab 2	4600:300 Thermodynamics I 3	*General Ed or Honors Distribution 3
3600:120 Intro to Ethics (Humanities) 3	4800:220 Biomedical Computing 3	*General Ed or Honors Distribution 3
4800:362 Transport Fundamentals for BME 3	4800:400 Biomaterials 3	
4800:365 Mechanics of Biological Tissues 3	*General Ed or Honors Distribution 3	
14	16	10

Fourth Year		
Fall	Spring	Summer
4800:305 Intro to Biophysical Measurements 4	4800:460 Experimental Tech in Biomechanics 3	
4800:440 Advanced Biomaterials 3	4800:492 Biomedical Engineering Design II (CS) 2	
4800:491 Biomedical Engineering Design I 2	Biomedical Engineering Elective 3	
Biomedical Engineering Elective 3	Biomedical Engineering Elective 3	
*General Ed or Honors Distribution 3	*General Ed or Honors Distribution 3	
	*General Ed or Honors Distribution 3	
15	17	

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.