Concurrent ME/BME (Bio-mechanics option) degree – 148 credits

with 2019 ME curriculum changes

Course	Class	Credits	Course	Class	Credits
Semester 1			**Semester 2**		
MATH 140	***Calculus***	4	***MATH 141***	***Calculus II***	4
CHEM 110	***Chemical Principles I***	3	***PHYS 211***	***Mechanics***	4
CHEM 111	CHEM Lab I	1	CHEM 112	Chem II	3
EDSGN 100	Engr Design	3	CHEM 113	Chem Lab II	1
ENGL 015	**Composition**	3	**BIOL 141**	**Physiology**	3
ECON 102/ 104	Economics (GS)	3	**BIOL 162 or 164**	**Physiology Lab**	1
			FYS	FY Seminar	1
		17			**17**
Semester 3			**Semester 4**		
MATH 251	***Diff. Equations***	4	MATH 230	Calculus III	4
E MCH 210	**Statics & Strength**	5	MATH 220	Matrices	2
CMPSC 200	MATLAB	3	**E MCH 212**	**Dynamics**	3
PHYS 212	***Elect & Magnetism***	4	**BME 201**	**Fund of Cells & Molecules**	3
			E MCH 315	Engr Materials	2
			E MCH 316	Materials Lab	1
		16			**15**
Semester 5			**Semester 6**		
M E 300	**Thermodynamics I**	3	MATSE 259	Engr. Materials	3
M E 360	**Mechanical Design**	3	**BME 409**	**Biofluid Mechanics**	3
BME 303	**Bio-continuum Mechanics**	3	**BME 401**	**Numerical Simulations in BME**	3
BME 301	**Analysis of Phys. Sys.**	4	**BME 402**	**Biomed Inst & Meas**	3
GHW	Health & Wellness	1.5	**BME 403**	**Biomed Inst Lab**	1
Gen ed *		3	Gen ed *		3
		17.5			**16**
Semester 7			**Semester 8**		
IE 312	Manuf. Processes	3	BME Related Elect	(See BME guidelines)	3
M E 370	**Vibration Mech Syst**	3	BME 450W or ME 440W	Senior Design (CAPSTONE)	3
BME 440	BME Prof Seminar	1	**M E 410**	**Heat Transfer**	3
M E 340	**ME Design Method**	3	**ME 454**	**Mechatronics**	3
ENGL 202C	**Technical Writing**	3	GHW	Health & Wellness	1.5
BME 429	**Biomech & Tech Lab**	2	Gen Ed *		3
		15			**16.5**
Semester 9					
BME-Related & ME – ETE Elective	(See BME & ME guidelines)	3			
M E 450	**Modeling**	3			
METE	M E Technical Elective	3			
CAS 100A/B	**Effective Speech**	3			
Gen Ed *		3			
Gen Ed *		3			
		18			
	Total	**148**			

Courses listed in ***boldface italic type*** require a grade of C or higher for entrance to an engineering major
Courses listed in **bold face type** require a grade of C or higher for degree requirements

*Students must take 3 credits of United States Cultures (US) and 3 credits of International Cultures (IL) and 6 credits integrative studies (Interdomain or Linked) in conjunction with gen ed courses

12/11/19