

**Curriculum Check Sheet**  
**Biomedical Engineering AND Electrical Engineering**

157 Credits

Name: \_\_\_\_\_  
**\*\*Advisers, pls use advising sections on back**

**First Year – 31 Credits – Courses (prereqs) Cr FA SP**

BIOM 101	Intro to Biomedical Engineering	F	3		
ECE102	Digital Circuit Logic	F	4		
MATH160	Calculus for Physical Scientists I (MATH 124; MATH 126)	F,S,SS	4		
CHEM111	General Chemistry I (MATH 118 or MATH 124 or MATH 155 or MATH 160 or MATH 161 or MATH 229 or MATH 261)	F,S,SS	4		
CHEM112	General Chemistry Lab I (CHEM 111 concurrent or CHEM 117 concurrent)	F,S,SS	1		
ECE103	DC Circuit Analysis (MATH 160)	S	3		
MATH161	Calculus for Physical Scientists II (MATH 124 or MATH 126)	F,S,SS	4		
PH141	Physics for Scientists and Engineers I (MATH 126 and MATH 155 or MATH 160)	F,S,SS	5		
CHEM113	General Chemistry II (CHEM 107 or CHEM 111 or CHEM 117; MATH 124 or MATH 141 or MATH 155 (or concurrent) or MATH 160 (or concurrent) or MATH 161 (or concurrent) or MATH 229 (or concurrent) or MATH 261 (or concurrent))	F,S,SS	3		

**Third Year - 30 Credits Cr FA SP**

ECE/STAT303	Intro to Communication Principles (MATH 261; ECE 311(or concurrent))	F	3		
ECE311	Linear Systems Analysis I (ECE 202; MATH 340 or MATH 345)	F	3		
ECE341	Electromagnetics Fields and Devices I (PH 142; MATH 340 or MATH 345)	F	3		
MECH337	Thermodynamics* (MATH 261; PH 141)	F,S	4		
LIFE210	Introduction to Eukaryotic Cell Biology (CHEM 111; CHEM 112 (or concurrent); LIFE 102)	F,S	3		
BMS300	Principles of Human Physiology (BZ 101 or BZ 110 or LIFE 102; CHEM 103 or CHEM 107 or CHEM 111)	F,S,SS	4		
ECE312	Linear Systems Analysis II (ECE 311)	S	3		
ECE342	Electromagnetic Fields and Devices II (ECE 341)	S	3		
CHEM245	Fund. of Organic Chemistry (CHEM 107 or CHEM 113)	F,S,SS	4		

**Second Year – 31 Credits Cr FA SP**

MATH261	Calculus for Physical Scientists III (MATH 161)	F,S,SS	4		
CO150	College Composition (CO 130 or SAT vrb/critcl reading score 600, or ACT English score 26)	F,S,SS	3		
PH142	Physics for Scientists and Engineers II (MATH 161 (or concurrent) or MATH 255 (or concurrent); PH 141)	F,S	5		
CS155 OR CS156, CS157	CS155 OR Unix, CS 156, CI, CS 157, CII	F,S	3		
ECE202	Circuit Theory Appl. (ECE 103)	S,SS	4		
MATH340 OR MATH345	Intro to Ordinary Differential Equations -OR- Differential Equations	F,S,SS	4		
CIVE262	Engineering Mechanics (MATH 161; PH 141)	F	4		
LIFE102	Attributes of Living Systems	F,S,SS	4		

**Additional AUCC**

**3B Arts and Humanities 6** \_\_\_\_\_  
**3C Social/Behavioral Science 3** ECON 202  
**3D Historical Perspective 3** \_\_\_\_\_  
**3E Global/Cultural Awareness 3** \_\_\_\_\_

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**Students: Please note that curricula can change; be sure to check with your adviser regularly to be sure you are on track.**

**Fourth Year - 33 Credits Cr FA SP**

ECE331	Electronics Principles I (ECE 202; MATH 340 or 345)	F	4		
ECE/BIOM 4XX*	ECE Gateway course (*Pending approval)		3		
BIOM/ECE	Technical Electives		5		
ECE251	Introduction to Microprocessors (ECE 102)	F	4		
BIOM 300	Problem-Based Learning BME Lab (BIOM 101; MATH 340)	S	4		
ECE332	Electronics Principles II (ECE 331; MATH 340 or MATH 345)	S	4		
BIOM/ECE	Technical Elective		3		
ECON202	Microeconomics (MATH 117 or MATH 118 or MATH 141 or MATH 155 or MATH 160)	F,S,SS	3		
AUCC			3		

**Fifth Year - 32 Credits Cr FA SP**

BIOM486A	Capstone Design Practicum I (BIOM 300; BIOM 330 or BIOM 441 or ECE 441)	F	4		
ECE/BIOM	Technical Elective		6		
CO301B	Writing in the Disciplines-Sci. -- OR -- JTC 300 Professional & Technical Communication (CO 150 or HONR 193)	F,S,SS	3		
AUCC			3		
BIOM486B	Capstone Design Practicum II	S	4		
ECE/BIOM	Technical Elective		6		
AUCC			6		