Saint Louis University

Electrical and Computer Engineering Department ELECTRICAL ENGINEERING (BIOELECTRONICS CONCENTRATION) FLOW CHART

Name:	Student #:	First Semester:	
Name: ECE 1001 Introduction to ECE I CHEM 1110 General Chemistry I CHEM 1115 General Chemistry Lab (co-CHEM 1110) ENGL 1920 Adv Writing for Professionals ¹ MATH 1510 Calculus I BIOL 1240 Biology I BIOL 1245 Biology I Lab (co-BIOL 1240)	1 3		13 14 31
BIOL 1243 Biology I Lab (co-Biol 1240)	16	BIOL 1265 Biology II Lab (co-BIOL 1260)	1 17
	Sophon	nore	
ECE 2101 Electrical Circ I (MATH 1520, PHYS 1610) ECE 2205 Digital Design ECE 2206 Digital Design Lab (co-ECE 2205) MATH 2530 Calculus III (MATH 1520) PHYS 1630 Engr Physics II PHYS 1640 Engr Physics II Lab (co-PHYS 1630) BME 2000 BME Computing (MATH 1520)		ECE 2102 Electrical Circuits II (ECE 2101) ECE 2103 Electrical Circuits Lab (co-ECE 2102) MATH 1660 Discrete Math (MATH 1200) MATH 3550 Differential Eq. (MATH 2530) THEO 1000 Theological Foundations Core: Social & Behavioral Science ⁴	3 1 3 3 3 3 3 16
BIOL 2600 Human Physiology ECE 3130 Semiconductors (ECE 2102, MATH 3550) ECE 3225 Microprocessors (prog ⁶) ECE 3226 Microprocessors Lab (co-ECE 3225) ECE 3150 Linear Systems (ECE 2102, MATH 3550) ECE 3151 Linear Systems Lab (co-ECE 3150, prog ⁶)	33 33 13 114	ECE 3052 Prob & RV Engr (MATH 2530, prog ⁶) ECE 3131 Electronic Circuits (ECE 3130) ECE 3132 Electronic Circuits Lab (co-ECE 3131) ECE 3090 Junior Design (ECE 3150) BME 3150 Biomedical Instr (BIOL 2600, ECE 3150) MATH 3110 Linear Algebra (MATH 1520)	33 11 33 14
ECE 4800 Senior Design I ⁵ PHIL 3400 Ethics & Engineering BME 4100 Biomedical Signals ECE/BME Elective ³ Core: Cultural Diversity ²	Senio 3 3 3 3 15	ECE 4810 Senior Design II (ECE 4800) ECE 3140 EM Fields (ECE 2101, MATH 3550) ECE 4120 Auto Controls (ECE 3150) ECE/BME Elective ³ Core: Humanities ²	33 33 315

Total Hours: 125

¹ Students needing prerequisite work in writing skills as determined by ACT or SAT scores will be required to take ENGL 1500: the Process of composition (3) and perhaps ENGL 1040 Accelerated Reading

² Cannot be used to satisfy another core requirement.

³ Must be selected from an approved list of ECE or BME elective courses.

⁴ Must be taken from a list of approved courses in Social and Behavioral Science including Economics.

⁵ REQUIRES SENIOR STANDING (all required technical courses through the junior year have been completed and passed)

⁶ Prerequisite requirement of computer programming, either CSCI 1060, CSCI 1300, or BME 2000