Saint Louis University
Electrical and Computer Engineering Department

ELECTRICAL ENGINEERING FLOW CHART

Name__________________________ Student #_________________________ Entered EE________

Freshman

☐ CHEM 163 Chemistry I 3_____ ☐ CSCI 145 Scientific Programming 3____
☐ CHEM 165 Chemistry Lab 1_____ ☐ ECE 102 Introduction to ECE II 1_____ 
☐ ECE 101 Introduction to ECE I 1_____ ☐ MATH 135 Discrete Math 3_____ 
☐ ENGL 190 Adv Strategies of Rhetoric & Res2 3_____ ☐ MATH 143 Calculus II (MATH142) 4_____ 
☐ MATH 142 Calculus Ii1 4_____ ☐ PHYS 161 Eng Physics I (MATH142) 3_____ 
☐ THEO 100 Theological Foundations 3_____ ☐ PHYS 162 Eng Physics Lab c(PHYS161) 1_____ 
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Sophomore Year

☐ ECE 202 Electrical Circuits I (ECE 102, MATH 143, PHYS 161) 3_____ 
☐ ECE 205 Digital Design 3_____ ☐ ECE 204 Electrical Science Lab c(ECE203) 1_____ 
☐ ECE 206 Digital Design Lab c(ECE 205) 1_____ ☐ MATH 311 Linear Algebra (MATH 244) 3_____ 
☐ MATH 244 Calculus III (MATH 143) 4_____ ☐ MATH 355 Differential Equations 3_____ 
☐ PHYS 163 Eng Physics II 3_____ ☐ MATH 403 Prob. & Statistics 3_____ 
☐ PHYS 164 Eng Physics II Lab c(PHYS163) 1_____ ☐ Core: Humanities 3_____ 
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Junior Year

☐ ECE 310 Energy Conversion (ECE 203, MATH 355) 3_____ 
☐ ECE 325 Microprocessors (ECE-205) 3_____ ☐ ECE 332 Electronics Ckt Lab c(ECE 331) 1_____ 
☐ ECE 326 Micro Lab c(ECE-325) 1_____ ☐ ECE 340 EM Fields (ECE 203, MATH 355) 3_____ 
☐ ECE 330 Semiconductor Devices (ECE 203, MATH 355) 3_____ ☐ ECE 390 Junior Design (ECE 350, cMATH 311) 1_____ 
☐ ECE 350 Sig & Sys (ECE203,MATH355) 3_____ ☐ ECE 420 Auto Controls (ECE 350) 3_____ 
☐ ECE 351 Sig & Sys Lab 1_____ ☐ ENGL 400 Business & Professional Writing 3_____ 
☐ Open Elective7 3_____ ☐ Core: Social & Behavioral Science5 3_____ 
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Senior Year

☐ ECE 440 Electromagnetic Waves (ECE-340) 3_____ ☐ ECE 460 Communications (ECE 350, 
☐ ECE 490 Design I (Senior Level)** 3_____ ☐ ECE 490 Design II (ECE-490) 3_____ 
☐ ECE: ECE Elective6 3_____ ☐ ECE: ECE Elective6 3_____ 
☐ PHIL 340 Ethics & Engineering 3_____ ☐ Technical Elective4 3_____ 
☐ Technical Elective4 3_____ ☐ Core: Cultural Diversity3 3_____ 
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Total Hours: 125

**MUST BE AT SENIOR STANDING (pass all junior level ECE and CSCI requirements)
1 Requires a proficiency exam.
2 Students needing prerequisite work in writing skills as determined by ACT or SAT scores will be required to take
ENGL 150: The Process of Composition (3) and perhaps ENGL-094: Intro to College Reading (offered as Pass/Fail).
3 Must not be used to satisfy another core requirement.
4 Must be selected from courses in science, math, or engineering at 200 level or higher, or Computer Science at 180 or higher.
5 Must be taken from a list of approved courses in Social and Behavioral Science including Economics.
6 Must be taken from the approved list of ECE elective courses.
7 Course satisfying another minor or major or should be treated as technical elective.