

SAINT LOUIS UNIVERSITY
Electrical and Computer Engineering Department
COMPUTER ENGINEERING FLOW CHART
(with Pre-Law Certificate)

Name _____ Student # _____ Entered CpE _____

Freshman

<input type="checkbox"/> CHEM 163 Chemistry I	3 _____	<input type="checkbox"/> CSCI 150 Intro to OOP	4 _____
<input type="checkbox"/> CHEM 165 Chemistry Lab	1 _____	<input type="checkbox"/> MATH 135 Discrete Math	3 _____
<input type="checkbox"/> ENGL 190 Adv Strategies of Rhetoric & Res ²	3 _____	<input type="checkbox"/> MATH 143 Calculus II (MATH 142)	4 _____
<input type="checkbox"/> ECE 101 Introduction to ECE I	1 _____	<input type="checkbox"/> PHYS 161 Eng Physics I (MATH 142)	3 _____
<input type="checkbox"/> MATH 142 Calculus I ¹	4 _____	<input type="checkbox"/> PHYS 162 Eng Physics Lab c(PHYS 161)	1 _____
<input type="checkbox"/> THEO 100 Theological Foundations	3 _____	<input type="checkbox"/> Introduction to ECE II	1 _____
<input type="checkbox"/> PLS 100 Intro to Law	<u>2</u>	<input type="checkbox"/> PLS 105 Intro to Legal Careers	<u>1</u>
	17		16

Sophomore Year

<input type="checkbox"/> ECE 205 Digital Design (Fulfills log. Req.)	3 _____	<input type="checkbox"/> CSCI 180 Data Structures (CSCI 150)	4 _____
<input type="checkbox"/> ECE 206 Digital Design Lab	1 _____	<input type="checkbox"/> Core: PLS 200 or 210	3 _____
<input type="checkbox"/> ECE 202 Electrical Circuits I (ECE 101, MATH 143, PHYS 161)	3 _____	<input type="checkbox"/> ECE 203 Electrical Circuits II (ECE 202)	3 _____
<input type="checkbox"/> MATH 244 Calculus III (MATH 143)	4 _____	<input type="checkbox"/> ECE 204 Electrical Science Lab c(ECE203)	1 _____
<input type="checkbox"/> PHYS 163 Eng Physics II (PHYS 161)	3 _____	<input type="checkbox"/> MATH 355 Differential Equations	3 _____
<input type="checkbox"/> PHYS 164 Eng Physics II Lab c(PHYS 163)	<u>1</u>	<input type="checkbox"/> MATH 311 Linear Algebra (MATH 244)	<u>3</u>
	15		17

Summer: Legal Internship (3 cr.)

Junior Year

<input type="checkbox"/> ECE 350 Sig & Sys(ECE 203, MATH 355)	3 _____	<input type="checkbox"/> ECE 390 ECE Sys Modeling Lab (ECE 350, cMATH 311)	1 _____
<input type="checkbox"/> ECE 351 Sig & Sys Lab	1 _____	<input type="checkbox"/> ECE 315 Computer Sys Design	3 _____
<input type="checkbox"/> ECE 330 Semiconductors Devices (ECE 203, MATH 355, cMATH 403)	3 _____	<input type="checkbox"/> ECE 316 Computer Sys Design Lab	1 _____
<input type="checkbox"/> ECE 325 Microprocessors (ECE 205)	3 _____	<input type="checkbox"/> ECE 317 Computer Architecture	3 _____
<input type="checkbox"/> ECE 326 Micro Lab c(ECE 325)	1 _____	<input type="checkbox"/> MATH 403 Prob. & Statistics (MATH 244)	3 _____
<input type="checkbox"/> ECE 305 Adv Digital Design (ECE205)	3 _____	<input type="checkbox"/> PLS 390 Intro to Aplt. Advocacy	3 _____
<input type="checkbox"/> CSCI 290 OO Software Design (CSCI 180)	<u>3</u>	<input type="checkbox"/> Core: Elective under Certificate Prog.	<u>3</u>
	17		17

Summer: Engineering Internship

Senior Year

<input type="checkbox"/> CSCI 324 Operating Systems (CSCI 180, ECE 311)	3 _____	<input type="checkbox"/> ECE 445/CSCI 334 Computer Networks (CSCI 324)	3 _____
<input type="checkbox"/> ECE 490 Design I (Senior Level)	3 _____	<input type="checkbox"/> ECE 491 Senior Design II (ECE 490)	3 _____
<input type="checkbox"/> ECE: ECE Elective ⁴	3 _____	<input type="checkbox"/> ECE: ECE Elective ⁴	3 _____
<input type="checkbox"/> PHIL 340 Ethics and Engineering	3 _____	<input type="checkbox"/> Technical Elective ⁶	3 _____
<input type="checkbox"/> PLS 375: Issues in Law (Law and Engin.)	<u>3</u>	<input type="checkbox"/> Core: Cultural Diversity (PLS 400 Comparative Legal Systems)	<u>3</u>
	15		15

Total Hours: 130

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 ENG-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 taken from the approved list of approved ECE or CSCI elective courses.

⁵ Must be taken from a list of approved courses (including Economics).

⁶ Must be selected from courses in science (CS at 300 level or higher), math, or engineering at 200 level or higher.