

Computer Engineering, B.S. (124 Units)
Valid for Catalog Years: 2018/2019 to 2019/2020
*Official planning guide approved by the Lyles College of Engineering

For assistance or to schedule an advising appointment, please contact the **Department of Electrical and Computer Engineering** at 559-278-2726, Engineering East 254A
Lyle College of Engineering Advising Center: 559-278-1076, Engineering East 383

	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	14	17	16	16	16	17-24	15	13
Milestones								
General Education	A1 (3 Units) Oral Communication *Must pass with a C or better	D2 (3 Units) American Government				B3 (0-3 Units) Lab	D1 (3 Units) American History	
	A2 (3 Units) Written Communication *Must pass with a C or better							
Major	GE Area B2 BIOL 10 (3 Units) Life Sciences *Not open to students with credit in BIOL 1A	GE Area C2 PHIL 1 or 10 (3 Units) Humanities *See course catalog for prerequisite requirements	ECE 81 OR CSCI 41 (4 Units) [Pre-Req: CSCI 40]	ECE 72 (2 Units) [Pre-Req: ECE 71 or CSCI 40]	ECE 103 (2 Units)	GE Area B1 CHEM 3A (4 Units) Physical Sciences [Pre-Req: GE B4 (may be taken concurrently)] *No credit for CHEM 3A after CHEM 1A	GE Area D3 ECON 40 or 50 (3 Units) Social Science	GE Area IB ECE 186B (3 Units) Physical Universe & Its Life Forms [Pre-req: ECE 186A; UDWS]

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	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
	14	17	16	16	16	17-24	15	13
Major	GE Area B4 MATH 75 (4 Units) Quantitative Reasoning [Pre-Req: Elementary geometry, intermediate algebra, & trigonometry OR precalculus. Passing score on department's Calculus Readiness Test; ELM]	ECE 71 OR CSCI 40 (4 Units) [Pre-Req: ELM or College Intermediate Algebra (C or better); trigonometry]	ECE 85 (3 Units) [Pre-Req: ECE 1; MATH 75]	ECE 90 (3 Units) [Pre-Req: MATH 77 (may be taken concurrently); PHYS 4B]	ECE 124 (4 Units) [Pre-Req: ECE 2, ECE 90; MATH 81 or ENGR 101]	ECE 107 (3 Units) [Pre-Req: ECE 124]	ECE 174 (3 Units) [Pre-Req: ECE 115]	GE Area MI PLSI 120 OR BA 104 (3 Units) Multicultural/International *See course catalog for prerequisite requirements
	ECE 1 (1 Unit)	MATH 76 (4 Units) [Pre-Req: MATH 75 or MATH 75A & B]	ECE 85L (1 Unit) [Pre-Req: ECE 85 (may be taken concurrently)]	ECE 90L (1 Unit) [Pre-Req: ECE 90 (may be taken concurrently); PHYS 4BL]	ECE 128 (3 Units) [Pre-Req: ECE 90]	ECE 125 (3 Units) [Pre-Req: ECE 124]	ECE 186A (1 Unit) [Pre-Req: 30 units of ECE or instructor permission; UDWS (may be taken concurrently)]	Lab Elective (1 Unit)
		PHYS 4A (3 Units) [Pre-Req: GE B4; MATH 76 (may be taken concurrently)]	MATH 77 (4 Units) [Pre-Req: MATH 76]	ECE 106 (3 Units) [Pre-Req: ECE 85 or equivalent]	ECE 128L (1 Unit) [Pre-Req: ECE 90L; ECE 128 (may be taken concurrently)]	ECE 178 (4 Units) [Pre-Req: ECE 120L, 176]		
			PHYS 4B (3 Units) [Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)]	ECE 118 (3 Units) [Pre-Req: ECE 85, ECE 71 OR CSCI 40]	ECE 176 (3 Units) [Pre-Req: ECE 106]	PHYS 4C (3 Units) [Pre-Req: PHYS 4B; MATH 77]		

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	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	14	17	16	16	16	17-24	15	13
Major			PHYS 4BL (1 Unit) [Pre-Req: Corequisite: PHYS 4B]	MATH 81 (3 Units) [Pre-Req: MATH 77] OR ENGR 101 (3 Units)				
				ECE 118L (1 Unit) [Prerequisite or corequisite: ECE 118]				
Additional Graduation Requirements					Technical Elective (3 Units)	UDWS (0-4 Units) *Upper Division Writing Exam OR "W" Course (must pass with a C or better)	Technical Electives (6 Units) *See footnotes	Technical Electives (6 Units) *See footnotes

FOOTNOTES:

Prerequisites/Corequisites: Other restrictions may apply. Please see your course catalog for detailed prerequisite/corequisite requirements. Students violating any course prerequisites may be required to take an additional course (if they earned a C) or repeat a course (if they earned a D or less.) Repeated violations of prerequisites may trigger disciplinary action.

Grade Requirements: Courses in mathematics, the physical sciences, or engineering taken CR/NC are not counted toward fulfillment of degree requirements in Computer Engineering. The following prerequisite courses must be completed with a letter grade of C or better: ECE 72, 71, 85, 85L, 90, 90L.

Technical Area (9 units): Select at least 9 units from ECE 114, 126, 132, 134, 135, 138, 138L, 140, 146, 148, 155, 172, 173; CSCI 144, or 156.

Upper Division Writing Skills requirement (UDWS): All undergraduate students must demonstrate competency in writing skills by passing the Upper Division Writing Exam (UDWE) or by obtaining a C or better in an approved upper division writing course, identified by the letter "W."

Substitutions: If substitutions/exceptions/waivers are made for any major courses that also meet GE and/or the Multicultural/International graduation requirement, the student is responsible for completing additional courses to satisfy the respective areas (GE and/or MI). This also includes the upperdivision writing requirement.

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Units	Freshman		Sophomore		Junior		Senior	
	Fall 14	Spring 17-20	Fall 16	Spring 15	Fall 17	Spring 17-24	Fall 16	Spring 12-13
General Education	A1 (3 Units) Oral Communication *Must pass with a C or better	D2 (3 Units) American Government				B3 (0-3 Units) Lab	D1 (3 Units) American History	
	A2 (3 Units) Written Communication *Must pass with a C or better							
Major	GE Area B2 BIOL 10 (3 Units) Life Sciences *Not open to students with credit in BIOL 1A	GE Area C2 PHIL 1 or 10 (3 Units) Humanities *See course catalog for prerequisite requirements	CSCI 41 (4 Units) [Pre-Req: CSCI 40]	ECE 72 (2 Units) [Pre-Req: ECE 71 or CSCI 40]	ECE 103 (2 Units)	GE Area B1 CHEM 3A (4 Units) Physical Sciences [Pre-Req: GE B4 (may be taken concurrently)] *No credit for CHEM 3A after CHEM 1A	GE Area D3 ECON 40 or 50 (3 Units) Social Science	GE Area IB ECE 186B (3 Units) Physical Universe & Its Life Forms [Pre-req: ECE 186A; UDWS]
	GE Area B4 MATH 75 (4 Units) Quantitative Reasoning [Pre-Req: Elementary geometry, intermediate algebra, & trigonometry OR precalculus. Passing score on department's Calculus Readiness Test; ELM]	CSCI 40 (4 Units) [Pre-Req: ELM or College Intermediate Algebra (C or better); trigonometry]	ECE 85 (3 Units) [Pre-Req: ECE 1; MATH 75]	ECE 90 (3 Units) [Pre-Req: MATH 77 (may be taken concurrently); PHYS 4B]	ECE 118 (3 Units) [Pre-Req: ECE 85; CSCI 40 or ECE 71]	ECE 107 (3 Units) [Pre-Req: ECE 124]	CSCI 150 (3 Units) [Pre-Req: CSCI 41]	GE Area MI PLSI 120 or BA 104 (3 Units) Multicultural/International *See course catalog for prerequisite requirements

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	Fall 14	Spring 17-20	Fall 16	Spring 15	Fall 17	Spring 17-24	Fall 16	Spring 12-13
Major		MATH 76 (4 Units) [Pre-Req: MATH 75 or MATH 75A & B]	ECE 85L (1 Unit) [Pre-Req: ECE 85 (may be taken concurrently)]	ECE 90L (1 Unit) [Pre-Req: ECE 90 (may be taken concurrently); PHYS 4BL]	ECE 118L (1 Unit) [Pre-Req: ECE 118, 85L]	ECE 125 (3 Units) [Pre-Req: ECE 124]	ECE 174 (3 Units) [Pre-Req: ECE 115]	Technical Area (3 Units) *See footnotes
	ECE 1 (1 Unit)	PHYS 4A (3 Units) [Pre-Req: GE B4; MATH 76 (may be taken concurrently)]	MATH 77 (4 Units) [Pre-Req: MATH 76]	ECE 106 (3 Units) [Pre-Req: ECE 85 or equivalent]	ECE 124 (4 Units) [Pre-Req: ECE 2, ECE 90; MATH 81 or ENGR 101]	ECE 178 (4 Units) [Pre-Req: ECE 120L, 176]	ECE 186A (1 Unit) [Pre-Req: 30 units of ECE or instructor permission; UDWS (may be taken concurrently)]	Technical Area (3 Units) *See footnotes
			PHYS 4B (3 Units) [Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)]	ECE 115 (3 Units) [Pre-Req: ECE 85; CSCI 40 or ECE 70]	ECE 128 (3 Units) [Pre-Req: ECE 90]	PHYS 4C (3 Units) [Pre-Req: PHYS 4B; MATH 77]	Technical Area (3 Units) *See footnotes	
			PHYS 4BL (1 Unit) [Pre-Req: Corequisite: PHYS 4B]	MATH 81 (3 Units) [Pre-Req: MATH 77] OR ENGR 101 (3 Units)	ECE 128L (1 Unit) [Pre-Req: ECE 90L; ECE 128 (may be taken concurrently)]			
					ECE 176 (3 Units) [Pre-Req: ECE 106]			
Electives						UDWS (0-4 Units) *Upper Division Writing Exam OR "W" Course (must pass with a C or better)		

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