

Electrical 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	14	17	16	16	14	16
Milestones								
General Education	A1 (3 Units) Oral Communication *Must pass with a C or better			D2 (3 Units) American Government			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 B1 CHEM 3A (4 Units) Physical Sciences [Pre-Req: GE B4 (may be taken concurrently)] *No credit for CHEM 3A after CHEM 1A	ECE 72 (2 Units) [Pre-Req: ECE 71 or CSCI 40]	ECE 90 (3 Units) [Pre-Req: MATH 77 (may be taken concurrently); PHYS 4B]	ECE 102 (3 Units) [Pre-Req: ECE 72 (may be taken concurrently); ECE 90; MATH 81 or ENGR 101]	CE 29, ME 29, or ME 136 (3 Units) *See course catalog for prerequisite requirements	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]	GE Area C2 PHIL 1 or 10 (3 Units) Humanities *See course catalog for prerequisite requirements	ECE 85 (3 Units) [Pre-Req: ECE 1; MATH 75]	ECE 90L (1 Unit) [Pre-Req: ECE 90 (may be taken concurrently); PHYS 4BL]	ECE 103 (2 Units)	ECE 121 (3 Units) [Pre-Req: ECE 128]	ECE 134 (3 Units) [Pre-Req: ECE 124; ECE 125 (may be taken concurrently)]	GE Area MI PLSI 120 OR BA 104 (3 Units) Multicultural / International *See course catalog for prerequisite requirements

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Major	ECE 1 (1 Unit)	ECE 71 (3 Units) [Pre-Req: MATH 75 (may be taken concurrently)]	ECE 85L (1 Unit) [Pre-Req: ECE 85 (may be taken concurrently)]	ECE 118 (3 Units) [Pre-Req: ECE 85; CSCI 40 or ECE 71]	ECE 124 (4 Units) [Pre-Req: ECE 2, ECE 90; MATH 81 or ENGR 101]	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)]	MATH Elective (3 Units) *See footnotes
		MATH 76 (4 Units) [Pre-Req: MATH 75 or MATH 75A & B]	MATH 77 (4 Units) [Pre-Req: MATH 76]	ECE 118L (1 Unit) [Pre-Req: ECE 118(may be taken concurrently), 85L]	ECE 126 (3 Units) [Pre-Req: MATH 81 (may be taken concurrently); ECE 90]	ECE 138 (3 Units) [Pre-Req: ECE 102, 128]	Senior Lab (1 Unit) *See footnotes	Senior Lab (1 Unit) *See footnotes
		PHYS 4A (3 Units) [Pre-Req: GE B4; MATH 76 (may be taken concurrently)]	PHYS 4B (3 Units) [Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)]	MATH 81 (3 Units) [Pre-Req: MATH 77] OR ENGR 101 (3 Units)	ECE 128 (3 Units) [Pre-Req: ECE 90]	ECE 138L (1 Unit) [Pre-Req: ECE 128L; ECE 138 (may be taken concurrently)]		
			PHYS 4BL (1 Unit) [Pre-Req: Corequisite: PHYS 4B]	PHYS 4C (3 Units) [Pre-Req: PHYS 4B; MATH 77]	ECE 128L (1 Unit) [Pre-Req: ECE 90L; ECE 128 (may be taken concurrently)]	ECE 155 (3 Units) [Pre-Req: ECE 124]		
Additional Graduation Requirements							Technical Area (3 Units) *See footnotes	Technical Area (6 Units) *See footnotes

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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 Electrical Engineering. The following prerequisite courses must be completed with a letter grade of C or better: ECE 71, 72, 85, 85L, 90, 90L.

Technical Area (9 units): Select 9 units from ECE 106, 107, 114, 115, 132, 135, 136, 140, 146, 148, 151, 152, 153, 162, 166, 168, 171, 176, 172, 173, 174, or 178.

Senior Lab (2 units): Select 2 units from ECE 119L, 121L, 134L, 136L, or 155L.

MATH Elective (3 units): Select one course from MATH 121, 123, 128, 152, 171, 181, or 182.

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.