

Electrical Engineering, B.S. (124 Units)

Valid for Catalog Years: 2015/2016 to 2016/2017

*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

Units	Freshman		Sophomore		Junior		Senior	
	Fall 14-15	Spring 17-20	Fall 14	Spring 17	Fall 16	Spring 16-20	Fall 14	Spring 16-17
General Education	A1 (3 Units) Oral Communication *Must pass with a C or better	B3 (0-3 Units) Lab		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]

Electrical Engineering, B.S. (124 Units)

Valid for Catalog Years: 2015/2016 to 2016/2017

*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

Units	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
	14-15	17-20	14	17	16	16-20	14	16-17
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]	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
		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 1 (1 Unit)	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, 85L]	ECE 126 (3 Units) [Pre-Req: MATH 81 (may be taken concurrently); ECE 90]	ECE 138 (3 Units) [Pre-Req: ECE 102, 128]	Technical Area (3 Units) *See footnotes	Technical Area (3 Units) *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)]	Senior Lab (1 Unit) *See footnotes	Technical Area (3 Units) *See footnotes
			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]		Senior Lab (1 Unit) *See footnotes
Electives						UDWS (0-4 Units) *Upper Division Writing Exam OR "W" Course (must pass with a C or better)		

Electrical Engineering, B.S. (124 Units)

Valid for Catalog Years: 2015/2016 to 2016/2017

*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	14-15	17-20	14	17	16	16-20	14	16-17

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."