## Electrical Engineering Louisiana Tech University Curriculum as of 2020 to Current

Name	 -	Date	
CWID		Fmail	@latech.edu

COURS	E	PREREQUISITE	SCH	QTR	GRADE	
		ENGR 221	3	WS	R*	
		ELEN 223, MATH 2450	3	F	R	
		ELEN 2240	1	F	R	
		MATH 2420	3	FW	R	
		PHYS 202, ENGR 221, MATH 241-244 GPA >=2.0,	3	W	R	
		ELEN 224, MATH 245	3	W	R	
		ELEN 321	3	S	R	
		ELEN 242	3	WS	R	
		MATH 244, PHYS 202, ENGR 221	3	F	R	
		ELEN 224, 334	3	W	R	
		ELEN 335	3	S	R	
		ELEN 336°	1	S	R	
		ELEN 321,322,336,339,411 & Senior Standing	1	F	R	
		ELEN 406	1	W	R	
		ELEN 407	1	S	R	
		ELEN 313	3	S	R	
	101	LLLIN O IO	3	- 5		
		CHEM 100	2			
		CHEM 100, 1010	1			
		FYE 100o	3			
	101	1 12 1000	3			
		ENGL 101	3			
		ENGL 101	3			
		MATH 240o, CHEM 100o	2		*	
		ENGR 120, MATH 2410, CHEM 1010	2		*	
		ENGR 121, MATH 2420			*	
		ENGR 121, MATH 2420 ENGR 122, MATH 242, PHYS 201	2			
		ENGR 122, MATH 242, PHYS 201	3		*	
		ENGR 122, MATH 242, PHTS 201 ENGR 122, MATH 242	3			
		ENGR 122, WATH 242				
	425	MATH 240	1		*	
		MATH 240 MATH 241	3		*	
		MATH 241	3		*	
		MATH 242 MATH 243			*	
		MATH 243	3		*	
			3			
		MATH 245 MATH 241	3		R [	
		MATH 241 MATH 242, PHYS 201	3			
ELECTIVES			3			
			2			
		NE 280, MUGN 290, or THTR 290)	3		D4	
ELEN Direc			3		R1	
ELEN Direc			3		R1	_
ELEN Direc			3	F\A/	R1	
ELEN Senio			3	FW	R 4	_
ELEN Senio			1	FW	R 4	
ELEN Senio			3	FW	R 4	
ELEN Senio	or Ele	ective	1	FW	R 4	
Humanity	. —	DINO EL C	3			
		PHYS Elective	3		R	
Social Scien			3			
Social Scien			3			
TOTAL SE	MES	TER HOURS	128			

	SUBSTITUTIONS										
	COURSE	SCH	GRADE								
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											

	ADDITIONAL COURSES										
	COURSE	SCH	GRADE								
1											
2											
3											
4											
5											

GPA	
Rubric GPA	
MATH 241-244 GPA	

	NOTES	

- \* requires grade of "C" or higher
- o credit or registration in
- R course in rubric
- 1 Directed electives must be selected in consultation with program chair.
- 2 Petitions must be filed for substitutions.
- 3 A student must have a minimum 2.0 GPA on all hours pursued in courses designated: R.
- 4 ELEN Senior Electives: Complete 2 out of 4 groups.
  - (1) ELEN 438 & 439
  - (2) ELEN 461 & 469
  - (3) ELEN 471 & 479
  - (4) ELEN 481 & 489

ADDITIONAL COMMENTS

Advisor:	
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## ELECTRICAL ENGINEERING Louisiana Tech University

	FRESHMAN YEAR											
		Fall Quarter	Hr		Winter Quarter			Spring Quarter				
ENGR	120	* Engineering Problem Solving I	2	ENGR	121	* Engineering Problem Solving II	2	ENGR 122 * Engineering Problem Solving III	2			
MATH	240	* Precalculus	3	MATH	241	* Calculus I	3	MATH 242 * Calculus II	3			
СНЕМ	100	* General Chemistry	2	CHEM	101	General Chemistry	2	PHYS 201 * Physics for Engr & Science I	3			
COMM	101	□ Principles of Comm Studies	3	CHEM	103	General Chemistry Laboratory	1	ENGL 102 Freshman Composition II	3			
FYE	100	First Year Experience	1	ENGL	101	Freshman Composition I	3					
			11	1			11		11			

	SOPHOMORE YEAR											
		Fall Quarter	Hr			Winter Quarter	Н	lr		Spring Quarter	Hr	
ENGR	221 *	Electrical Engineering & Circuits I	3	ENGR	220	Statics & Mechs of Materials	3	3	ENGR 222	Thermodynamics	3	
MATH	243 *	Calculus III	3	MATH	244	* Calculus IV	3	3	MATH 245*	Differential Equations	3	
ELEN	242	Intro to Microprocessors	3	ELEN	223	* Electrical Circuits II	3	3	PHYS 202	Physics for Engr & Sci. II	3	
BISC	101	Fundamentals of Biology	3	ELEN	333	Intro to Digital Design	3	3	ENGL 303	Technical Writing	3	
			12				1:	2			12	

	JUNIOR YEAR											
		Fall Quarter	Hr	Hr Winter Quarter			Spring Quarter			Hr		
ELEN	224	Electrical Circuits III	3	ELEN 313	Intro to Elec & Magnetic Fields	3	ELEN	322	Digital Signal Processing	3		
ELEN	229	Electrical Circuits Lab	1	ELEN 321	Linear Systems	3	ELEN	336	Electronic Circuits II	3		
ELEN	334	Solid State Electronics	3	ELEN 335	Electronic Circuits I	3	ELEN	339	Electronic Circuits Lab	1		
MATH	313	Intro to Numerical Analysis	3	Social Scien	re **	3	ELEN	411	Electric & Magnetic Fields	3		
			10			12				10		

SENIOR YEAR										
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr					
ELEN 406 Electrical Engr Design I	1	ELEN 407 Electrical Engr Design II	1	ELEN 408 Electrical Engr Design III	1					
ELEN Sr Option 1β	4	ELEN Sr Option 2β	4	ELEN Directed Elective◊	3					
ELEN Directed Elective◊	3	ELEN Directed Elective◊	3	Fine Arts Appreciation	3					
ENGR 425 Engr. Ethics & Professionalism	1	Humanity†	3	Social Science**	3					
MATH/SCI Elective	3									
	12		11		10					

Neither MATH 240 nor CHEM 100 count towards the electrical engineering degree.

β Select from: FALL - ELEN 437 and 439 or ELEN 471 and 479; or WINTER - ELEN 461 and 469 or ELEN 481 and 489.

Courses in **bold** are *typically* offered only once per year.

ODirected electives are chosen in consultation with advisor and approved by the Program Chair. Three must be ELEN; the other must be MATH, STAT, or PHYS.

ELEN Directed Electives must be ELEN 400 level courses. The MATH/SCI elective must be a 300/400 level Math, STAT, or PHYS course.

- must be completed within first year of enrollment
- \*\*Social Science electives can be selected from Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science, Psychology, and Sociology.
- †Humanities electives can be selected from Classical Studies, Communications, Foreign Languages, History, Literature, Philosophy, Religious Studies, Interdisciplinary

<sup>\*</sup> requires grade of "C" or higher.