ELECTRICAL ENGINEERING

Louisiana Tech University Curriculum as of 2018

Name _			Date	
CWID _	-		Emai	@latech.edu

CWID .						
COUR	RSE	PREREQUISITE	SCH	QTR		GRADE
ELEN	223	ENGR 221	3	WS	R*	
	224	ELEN 223, MATH 2450	3	F	R	
	229	ELEN 2240	1	F	R	
	242	MATH 2420	3	FW	R	
	313	PHYS 202, MATH 241-244 GPA >=2.0, Engr 22	3	W	R	
	321	ELEN 224, MATH 245	3	W	R	
	322	ELEN 321	3	S	R	
	333	ELEN 242	3	WS	R	
	334	MATH 244, PHYS 202, ENGR 221	3	F	R	
	335	ELEN 224, 334	3	W	R	
	336	ELEN 335	3	S	R	
	339	ELEN 3360	1	S	R	
	405	ELEN 321,322,336,339,411,ENGR 220,221,22	2	F	R	
	407	ELEN 405	1	W	R	
	408	ELEN 407	1	S	R	
	411	ELEN 313	3	S	R	
BISC	101		3			
CHEM	101	CHEM 100	2			
	103	CHEM 100, 101o	1			
COMM	101		3			
ENGL	101		3			
	102	ENGL 101	3			
	303	ENGL 102	3			
ENGR	120	MATH 240○, CHEM 100	2		*	
	121	ENGR 120, MATH 2410, CHEM 1010	2		*	
	122	ENGR 121, MATH 2420	2		*	
	220	ENGR 122, MATH 242, PHYS 201	3			
	221	ENGR 122, MATH 242, PHYS 201	3		*	
	222	ENGR 122, MATH 242	3			
MATH	241	MATH 240	3		*	
	242	MATH 241	3		*	
	243	MATH 242	3		*	
	244	MATH 243	3		*	
	245	MATH 244	3		*	
	313	MATH 245	3		R	
PHYS	201	MATH 241	3		*	
	202	MATH 242, PHYS 201	3			
ELECTIV		·				
		RT 290, KINE 280, MUGN 290, or THTR 290)	3			
ELEN Dire			3		R	
ELEN Dire	cted El		3		R	
ELEN Dire		ective	3		R	
ELEN Ser			3	FW	R4	
ELEN Ser			3	FW	R4	
ELEN Ser			1	FW	R4	
ELEN Ser			1	FW	R4	
Humanitie			3			
		PHYS Elective	3		R	
Social Sc		1110 2100010	3			
Social Sc			3			
TOTAL S	EMFS1	TER HOURS	128		·	
			120	l		

SUBSTITUTIONS												
	COURSE	SCH	GF	RADE								
1												
2												
3												
4												
5												

	ADDITIONAL COURSES												
	COURSE	SCH	GR/	ADE									
1													
2													
3													
4													
5													

	GPA	
Rubric GPA		
MATH 241-244 GPA		

NOTE	
MATH 241-244 GPA	
RUDIIC GPA	

- requires grade of "C" or higher credit or registration in
- course in rubric
- Directed electives must be selected in consultation with advisor.
- Petitions must be filed for substitutions. A student must have a minimum 2.0 GPA on all hours pursued in courses designated: ELEN.
- ELEN Senior Electives: Complete 2 out of 4 groups.
 - (1) ELEN 437 & 439 (2) ELEN 461 & 469 (3) ELEN 471 & 479

 - (4) ELEN 481 & 489

ADDITIONAL COMMENTS							

Advisor:			
muvioui.			

ELECTRICAL ENGINEERING

Louisiana Tech University

	FRESHMAN YEAR													
Fall Quarter				Winter Quarter		Hr	Spring Quarter	Hr						
ENGR	120 * Engineering Problem Solving I	2	ENGR 121	* Engineering Prob	olem Solving II	2	ENGR 122 * Engineering Problem	Solving III 2						
MATH	240 * Precalculus	3	MATH 241	* Calculus I		3	MATH 242 * Calculus II	3						
CHEM	100 * General Chemistry	2	CHEM 101	General Chemis	ry	2	PHYS 201 * Physics for Engr & S	Science I 3						
COMM	101 Principless of Communication	3	CHEM 103	General Chemis	ry Laboratory	1	ENGL 102 Freshman Composit	ion II 3						
FYE	100 Freshman Year Experience	1	ENGL 101	Freshman Comp	osition I	3								
		11				11		11						

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

JUNIOR YEAR												
Fall Quarter			Hr	r Winter Quarter			Hr	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	ELEN	333	Intro to Digital Design	3	ELEN	411	Electric & Magnetic Fields	3	
			10				12				10	
				1				1				

SENIOR YEAR											
Fall Quarter		Winter Quarter	Hr	Spring Quarter	Hr						
ELEN 405 Electrical Engr Design I	2	ELEN 407 Electrical Engr Design II	1	ELEN 408 Electrical Engr Design III	1						
ELEN Sr Option 1β		ELEN Sr Option 2β	4	ELEN Directed Elective◊	3						
ELEN Directed Elective◊	3	ELEN Directed Elective◊	3	Fine Arts Appreciation	3						
MATH/SCI Elective◊	3	Humanities Elective***	3	Social Science 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.

♦ Directed 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.

^{*} Requires grade of "C" or higher.

[☐] 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 Language, History, Literature, Philosophy, Religious Studies, Interdisciplinary.