

# ELECTRICAL ENGINEERING LOUISIANA TECH UNIVERSITY

*Revised Spring 2011*

Name \_\_\_\_\_

Date \_\_\_\_\_

Student ID \_\_\_\_\_

Email \_\_\_\_\_

COURSE	PREREQUISITE	SH	SCHED	GRADE
ELEN 223	ENGR 221	3	W,Sp	_____
224	ELEN 223, MATH 245**	3	F	_____
229	ELEN 224	1	W	_____
232	MATH 242**	2	F	_____
242	ELEN 232	3	W,Sp	_____
311	PHYS 202, MATH 241-244 GPA ≥ 2.0	2	W	_____
321	ELEN 224, MATH 245	3	W	_____
334	MATH 244, PHYS 202	3	F	_____
335	ELEN 224	3	W	_____
336	ELEN 335	3	Sp	_____
339	ELEN 336**	1	Sp	_____
381	ELEN 224	3	W	_____
406	ELEN 321, 336, 339, 381, 411, and senior standing	1	F	_____
407	ELEN 406	1	W	_____
408	ELEN 407	1	Sp	_____
411	ELEN 311	3	Sp	_____
422	ELEN 321	3	F	_____
Sr Option†	_____	3		_____
Sr Option†	_____	1		_____
Sr Option†	_____	3		_____
Sr Option†	_____	1		_____
CHEM 101	CHEM 100 (or by placement), ENGR 121 (Co-req), MATH 241 (Co-req)	2		_____
103	CHEM 101 (Co-req)	1		_____
ENGL 101		3		_____
102	ENGL 101	3		_____
210, 211, or 212	ENGL 102	3		_____
303	ENGL 102	3		_____
363	ENGL 303	3		_____
ENGR 120	MATH 240**, CHEM 100**	2		*_____
121	ENGR 120, MATH 241 (Co-req), CHEM 101 (Co-req)	2		*_____
122	ENGR 121, MATH 242 (Co-req), PHYS 201 (Co-req)	2		*_____
220	ENGR 122, PHYS 201, MATH 242	3		_____
221	ENGR 122, MATH 242	3		*_____
222	ENGR 122, MATH 242	3		_____
MATH 241	MATH 240 (or by placement)	3		*_____
242	MATH 241	3		*_____
243	MATH 242	3		*_____
244	MATH 243	3		*_____
245	MATH 244	3		*_____
313	MATH 245**	3		_____
PHYS 201	ENGR 122 (Co-req), MATH 242 (Co-req)	3		*_____
202	PHYS 201, MATH 242	3		_____
<b>ELECTIVES</b>				
ART (ART 290, MUGN 290, SPTH 290, or KINE 280)	_____	3		_____
HIST _____	See note 5	3		_____
BISC 101	_____	3		_____
Social Science	See notes 1 and 5	3		_____
Social Science	_____	3		_____
Social Science	_____	3		_____
ELEN Directed Elective	_____	3		_____
Directed Elective	See note 2	3		_____
<b>TOTAL SEMESTER HOURS</b>		<b>128</b>		

SUBSTITUTIONS	APPR	SH	GRADE
1 _____	_____	_____	_____
2 _____	_____	_____	_____
3 _____	_____	_____	_____
4 _____	_____	_____	_____
5 _____	_____	_____	_____
6 _____	_____	_____	_____
7 _____	_____	_____	_____

ADDITIONAL COURSES	SH	GRADE
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

NOTES
* Requires grade of "C" or better.
** Credit or registration in
1 Social Science electives must include at least two disciplines selected from Economics, Geography, Political Science, Psychology, or Sociology.
2 Directed electives must be selected in consultation with student's advisor. One must be ELEN; the other must be MATH, STAT, or PHYS.
3 Substitutions must be initialed by Program Chair. Put substitution number in the "grade" blank of the course being replaced.
4 A student must have a 2.0 grade point average on all hours pursued in courses designated as ELEN (Electrical Engineering).
5 All students must complete an International Education Requirement. HIST 102, GEOG 205, and GEOG 210 are acceptable for this requirement.
Comments: _____
_____
_____
_____

Advisor's Name \_\_\_\_\_

# ELECTRICAL ENGINEERING LOUISIANA TECH UNIVERSITY

Name \_\_\_\_\_

Date \_\_\_\_\_

Student ID \_\_\_\_\_

Email \_\_\_\_\_

FRESHMAN YEAR											
Fall Quarter			Winter Quarter			Spring Quarter					
	Cr	Gr		Cr	Gr		Cr	Gr		Cr	Gr
ENGR 120*	2		ENGR 121*	2		ENGR 122*	2		Engr Problem Solving I	Engr Problem Solving II	Engr Problem Solving III
MATH 240*	3		MATH 241*	3		MATH 242*	3		Math for Engr & Science	Calculus I	Calculus II
CHEM 100*	2		CHEM 101	2		PHYS 201*	3		General Chemistry	General Chemistry	Physics for Engr & Sci. I
ENGL 101	3		CHEM 103	1		BISC 101	3		Freshmen Composition I	General Chemistry Lab	Fundamentals of Biology
UNIV 100	1		ENGL 102	3					University Seminar	Freshmen Composition II	
									11	11	11

SOPHOMORE YEAR											
Fall Quarter			Winter Quarter			Spring Quarter					
	Cr	Gr		Cr	Gr		Cr	Gr		Cr	Gr
ENGR 221*	3		ELEN 223	3		ENGR 220	3		Electrical Engr & Circuits I	Electrical Circuits II	Statics & Mechs of Materials
MATH 243*	3		MATH 244*	3		MATH 245*	3		Calculus III	Calculus IV	Differential Equations
<b>ELEN 232</b>	2		PHYS 202	3		ELEN 242	3		Intro to Digital Design	Physics for Engr & Sci. II	Intro to Microprocessors
HIST ____***	3		Social Science ***	3		Social Science ***	3				
									11	12	12

JUNIOR YEAR											
Fall Quarter			Winter Quarter			Spring Quarter					
	Cr	Gr		Cr	Gr		Cr	Gr		Cr	Gr
<b>ELEN 224</b>	3		<b>ELEN 229</b>	1		ENGR 222	3		Electrical Circuits III	Electrical Circuits Lab	Thermodynamics
<b>ELEN 334</b>	3		<b>ELEN 311</b>	2		<b>ELEN 336</b>	3		Solid State Electronics	Intro Elec & Magnetic Fields	Electronic Circuits II
MATH 313	3		<b>ELEN 321</b>	3		<b>ELEN 339</b>	1		Intro Numerical Analysis	Linear Systems	Electronic Circuits Lab
ENGL 210, 211 or 212	3		<b>ELEN 335</b>	3		<b>ELEN 411</b>	3		Literature	Electronic Circuits I	Electric & Magnetic Fields
			<b>ELEN 381</b>	3						Electrical Machinery	
									12	12	10

SENIOR YEAR											
Fall Quarter			Winter Quarter			Spring Quarter					
	Cr	Gr		Cr	Gr		Cr	Gr		Cr	Gr
<b>ELEN 406</b>	1		<b>ELEN 407</b>	1		<b>ELEN 408</b>	1		Electrical Engr Design I	Electrical Engr Design II	Electrical Engr Design III
<b>ELEN 422</b>	3		ELEN Sr Option 2‡	4		Directed Elective**	3		Digital Signal Processing		
ELEN Sr Option 1‡	4		ELEN Directed Elective**	3		ENGL 363	3				Scientific/Tech Presentation
ART†	3		ENGL 303	3		Social Science***	3		Fine Arts Appreciation	Technical Writing	
									11	11	10

Neither *MATH 240* nor *CHEM 100* counts toward the Electrical Engineering degree. Placement exams are available.

\* Grade of C or higher required before taking a course for which this one is a prerequisite.

\*\* Directed electives are chosen in consultation with advisor and approved by the Program Chair. (One must be ELEN; the other must be MATH, STAT, or PHYS)

\*\*\* HIST 102, GEOG 205, or GEOG 210 count as the International Education Requirement (IER).

† ART 290, SPTH 290, MUGN 290, or KINE 280 counts as the Fine Arts Requirement.

‡ Select from: FALL - ELEN 437 (3) and 439 (1) or ELEN 471 (3) and 479 (1); or WINTER - ELEN 461 (3) and 469 (1); or SPRING - ELEN 481 (3) and 489 (1).

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