

**CYBER ENGINEERING**  
 Louisiana Tech University  
 Curriculum as of 2016

Name \_\_\_\_\_

Date \_\_\_\_\_

CWID \_\_\_\_\_

Email \_\_\_\_\_@latech.edu

COURSE	PREREQUISITE	SCH	QTR	GRADE
CYEN 130	MATH 101 or equivalent	3		R*
131	CSC 130 or CYEN 130	3		R*
132	CSC 131 or CYEN 131	3		R*
301	CSC 220	3	Sp	R*
400	junior standing	3	Sp	R*
480	CSC 220, MATH 311	3		R*
481	CYEN 480 and senior standing	3	W	R*
482	CYEN 481	3	Sp	R*
BISC 101		3		
COMM 101		3		
CSC 220	CSC 132 or CYEN 132, MATH 240○	3		R*
222	CSC 132 or CYEN 132, MATH 240○	3	W	R*
345	CSC 222	3	Sp	R*
450	CSC 325	3		R*
ENGL 101		3		
102	ENGL 101	3		
303	ENGL 102	3		
ELEN 242	MATH 242○	3		R*
333	ELEN 242	3		R*
423	ELEN 242	3	F	R*
ENGR 120	MATH 240○, CHEM 100○	2		*
121	ENGR 120, MATH 241○, CHEM 101○	2		*
122	ENGR 121, MATH 242○	2		*
220	ENGR 122, MATH 242, PHYS 201	3		
221	ENGR 122, MATH 242, PHYS 201	3		
222	ENGR 122, MATH 242	3		
INEN 300		2		
MATH 241	MATH 240	3		*
242	MATH 241	3		*
243	MATH 242	3		*
244	MATH 243	3		*
245	MATH 244	3		*
308	MATH 243 or 311	3		
311	MATH 242	3		
PHYS 201	MATH 241	3		*
202	MATH 242, PHYS 201	3		
STAT 405	MATH 242	3		*
<b>ELECTIVES</b>				
Art (ART 290, KINE 280, MUGN 290, or THTR 290)		3		
CYEN Directed Elective		3		*
CYEN Directed Elective		3		*
CYEN Directed Elective		3		*
HIST Information Warfare		3	W	
Social Science Security Policy & Legal Issues		3	Sp	
Social Science		3		
<b>TOTAL SEMESTER HOURS</b>		<b>128</b>		

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	
○ credit or registration in	
R course in rubric	
□ must be taken within first year of enrollment	
1 Directed electives must be selected in consultation with advisor.	
2 Petitions must be filed for substitutions.	
3 A student must have a minimum 2.0 GPA on all hours pursued in courses designated: CYEN.	
4 All students must complete an International Education Requirement (IER). Courses acceptable: HIST 102, GEOG 205, and GEOG 210.	

ADDITIONAL COMMENTS	

IER requirement met

Advisor: \_\_\_\_\_

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FRESHMAN YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
ENGR 120 * Engineering Problem Solving I	2	ENGR 121 * Engineering Problem Solving II	2	ENGR 122 * Engineering Problem Solving III	2
<i>MATH 240 * Precalculus</i>	3	MATH 241 * Calculus I	3	MATH 242 * Calculus II	3
CYEN 130 * The Science of Computing I	3	CYEN 131 * The Science of Computing II	3	CYEN 132 * The Science of Computing III	3
COMM 101 Principles of Comm Studies	3	ENGL 101 Freshman Composition I	3	ENGL 102 Freshman Composition II	3
FYE 100 First Year Experience	1				
	12		11		11

SOPHOMORE YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
CSC 220 * Data Structures	3	CSC 222 * Systems Programming	3	CSC 345 * Operating Systems	3
ELEN 242 * Introduction to Microprocessors	3	ENGR 220 Statics & Mechanics of Materials	3	CYEN 301 * Computer Network Security	3
MATH 243 * Calculus III	3	MATH 244 * Calculus IV	3	ELEN 333 * Introduction to Digital Design	3
PHYS 201 * Physics for Engr. & Science I	3	HIST Information Warfare	3	MATH 245 * Differential Equations	3
	12		12		12

JUNIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
ELEN 423 * Embedded Systems	3	CSC 450 * Computer Networks	3	CYEN 480 * Theory of Cyber Science	3
ENGR 221 Electrical Engineering & Circuits I	3	ENGR 222 Thermodynamics	3	PHYS 202 Physics for Engr & Science II	3
MATH 311 * Discrete Mathematics I	3	MATH 308 Introduction to Linear Algebra	3	Social Science Security Policy & Legal Issues	3
CYEN Elective *	3	CYEN Elective *	3	CYEN Elective *	3
	12		12		12

SENIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
BISC 101 Fundamentals of Biology I	3	CYEN 481 * Software Design and Engineering	3	CYEN 400 * Cyber Futures	3
ENGL 303 Technical Writing	3	INEN 300 Engineering Economics	2	CYEN 482 * Senior Capstone	3
Social Science	3	STAT 405 * Statistical Methods	3	Fine Arts Appr.	3
	9		8		9

MATH 240 does not count towards the cyber engineering degree.

\* requires grade of "C" or higher.

must be taken within first year of enrollment

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

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

All students must complete an International Education Requirement prior to graduation. A list of courses can be found in the university catalog

Courses that do not have any pre-requisite requirement are: GEOG 205, GEOG 210, HIST 102.