

Cyber Engineering Curriculum 2022
Louisiana Tech University

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*
483	CYEN 481, C or better in ENGR 220, 221, & 222	2		R*
484	CYEN 483	1		R
BISC 101		3		
COMM 101	FYE 100o	3		
CSC 220	CSC 132 or CYEN 132, MATH 240o	3		R*
222	CSC 132 or CYEN 132, MATH 240o	3	W	R*
345	CSC 222	3	Sp	R*
450	CSC 345	3		R*
ENGL 101		3		
102	ENGL 101	3		
303	ENGL 102	3		
ELEN 242	MATH 242o	3		R*
333	ELEN 242	3		R*
423	ELEN 242	3	Sp	R*
ENGR 120	MATH 240o, CHEM 100o	2		*
121	ENGR 120, MATH 241o, CHEM 101o	2		*
122	ENGR 121, MATH 242o	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	MATH 220, MATH 242, or MEMT 206	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		*
ELECTIVES/ GER				
Fine Arts Appr. (ART 290, KINE 280, MUGN 290, or THTR 290)		3		
CYEN Directed Elective		3		*
CYEN Directed Elective		3		*
CYEN Directed Elective		3		*
History		3	W	
Social Science		3	Sp	
Social Science		3		
TOTAL SEMESTER HOURS		128		

SUBSTITUTIONS		
COURSE	SCH	GRADE
1		
2		
3		
4		
5		

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	
□ 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.	

ADDITIONAL COMMENTS	

Advisor Signature: _____

CYBER ENGINEERING
Louisiana Tech University

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
MATH 240 * Precalculus	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 Communication	3	ENGL 101 Freshman Composition I	3	ENGL 102 Freshman Composition II	3
FYE 100 Freshman 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	History	3	MATH 311 * Discrete Mathematics I	3
12		12		12	

JUNIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
PHYS 202 Physics for Engr & Science II	3	CSC 450 * Computer Networks	3	CYEN 480 * Theory of Cyber Science	3
ENGR 221 Electrical Engineering & Circuits I	3	ENGR 222 Thermodynamics	3	ELEN 423 * Embedded Systems	3
MATH 245 * Differential Equations	3	MATH 308 Introduction to Linear Algebra	3	Social Science Elective**	3
CYEN Directed Elective ◊	3	CYEN Directed Elective ◊	3	CYEN Directed Elective◊	3
12		12		12	

SENIOR YEAR					
Fall Quarter	Hr	Winter Quarter	Hr	Spring Quarter	Hr
BISC 101 Fundamentals of Biology I	3	CYEN 483 * Software Design and Engineering	2	CYEN 400 * Cyber Futures	3
ENGL 303 Technical Writing	3	INEN 300 Engineering Economics	2	CYEN 484 * Senior Capstone	1
CYEN 481 * Software Design and Engineering	3	STAT 405 * Statistical Methods	3	Fine Arts Appreciation	3
Social Science Elective**	3				
12		7		7	

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.

◊Directed Electives are chosen in consultation with advisor.