CYBER ENGINEERING
Louisiana Tech University
Curriculum as of 2021

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		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 345	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		*					

ELECTIVES

	SCH	QTR	GRADE					
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 Information Warfare (HIST 490)	3	W						
Social Science Security Policy & Legal Issues (LBAR 389C)	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
○	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 Information Warfare**		3	MATH 311 * Discrete Mathematics I		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 245 * Differential Equations		3	MATH 308 Introduction to Linear Algebra		3	**Social Science Security Policy & Legal Issues**		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.