

Cyber Engineering
Louisiana Tech University
Curriculum as of 2021 to Current

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 | |
|---------------------|--|
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| | |

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 | * Senior Capstone I | 2 | CYEN | 400 | * Cyber Futures | 3 |
| ENGL | 303 | Technical Writing | 3 | INEN | 300 | Engineering Economics | 2 | CYEN | 484 | * Senior Capstone II | 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.

