

MATHEMATICS
LOUISIANA TECH UNIVERSITY

Curriculum as of 2017 to Current

Name _____

Date _____

Student ID _____

Email _____

| COURSE | PREREQUISITE | SH | SCHED | GRADE |
|----------|-------------------------------------|----|-------|-------|
| MATH 241 | MATH 240 (or by placement) | 3 | | * |
| 242 | MATH 241 | 3 | | * |
| 243 | MATH 242 | 3 | | * |
| 244 | MATH 243 | 3 | | * |
| 245 | MATH 244 | 3 | | * |
| 307 | MATH 243 | 3 | Sp | * |
| 308 | MATH 243 or MATH 311 | 3 | | * |
| 408 | MATH 307 or 311 | 3 | F | * |
| 482 | MATH 244 and one of MATH 311 or 307 | 3 | W | * |

| SUBSTITUTIONS | APPR | SH | GRADE |
|---------------|------|----|-------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

| Mathematics or Statistics Electives (see note 6) | | | | |
|--|--|---|--|---|
| 1st course | | 3 | | * |
| 2nd course | | 3 | | * |
| 3rd course | | 3 | | * |
| 4th course | | 3 | | * |
| 5th course | | 3 | | * |

| ADDITIONAL COURSES | SH | GRADE |
|--------------------|----|-------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

| Senior Research Capstone | | | | |
|--------------------------|----------------------------------|---|----|---|
| MATH 394 | MATH 308 & consent of instructor | 2 | F | * |
| MATH 495 | MATH 394 | 1 | F | * |
| MATH 496 | MATH 495 | 1 | W | * |
| MATH 497 | MATH 496 | 1 | Sp | * |

NOTES

- * Requires grade of "C" or better.
- ** Credit or registration in
- 1 Music, Visual Arts, Applied Arts, Theatre, Dance, Interdisciplinary (e.g. ART 290; KINE 280; MUGN 290; THTR 290,etc)
- 2 Social Science - Anthropology, Criminal Justice, Economics, Geography, International Studies, Interdisciplinary, Political Science
Behavioral Science - Psychology, Sociology
- 3 These courses can be replaced by those at or above the 300 level in English, mathematics, or the student's minor/concentration. Must have advisor's approval.
- 4 Substitutions must be initiated by Program Chair. Put Substitution number in the "grade" blank of the course being replaced.
- 5 A student must have a 2.0 grade point average on all hours pursued in courses designated as MATH or STAT (Mathematics or Statistics).
- 6 Directed electives must be selected in consultation with student's advisor.

| | | | | |
|----------|----------------------------|---|--|---|
| CHEM 101 | CHEM 100 (or by placement) | 2 | | * |
| 102 | CHEM 101 | 2 | | |
| 103 | CHEM 101 (Co-req) | 1 | | * |
| 104 | CHEM 103 | 1 | | |

| | | | | |
|------------------|----------|---|--|--|
| ENGL 101 | | 3 | | |
| 102 | ENGL 101 | 3 | | |
| 210, 211, or 212 | ENGL 102 | 3 | | |
| 303 | ENGL 102 | 3 | | |

| | | | | |
|----------|--|---|--|--|
| COMM 101 | | 3 | | |
|----------|--|---|--|--|

| | | | | |
|----------|--------------------|---|--|---|
| PHYS 201 | MATH 241 | 3 | | * |
| 202 | PHYS 201, MATH 242 | 3 | | |
| 261 | MATH 241 | 1 | | * |
| 262 | PHYS 261 | 1 | | |

| | | | | |
|----------|----------------|---|---|--|
| INEN 300 | See note 3 & 4 | 2 | | |
| INEN 301 | See note 3 & 4 | 3 | W | |

| Concentration or Minor Courses (see note 6) | | | | |
|---|--|---|--|---|
| 1st course | | 3 | | * |
| 2nd course | | 3 | | * |
| 3rd course | | 3 | | * |
| 4th course | | 3 | | * |
| 5th course | | 3 | | * |
| 6th course | | 3 | | * |

| ELECTIVES | | | | |
|---|----------------|---|-----|--|
| Fine Arts | See note 1 | 3 | | |
| HIST | | 3 | | |
| BISC 101 | | 3 | | |
| Social/Behavioral Sciences | See note 2 | 3 | | |
| Social/behavioral Sciences | See note 2 | 3 | | |
| Computer Literacy (select one of the following) | | 3 | | |
| CSC 130 | | | F,W | |
| MATH 313 | | | | |
| Foreign Language | See note 3 & 4 | 3 | | |

| | | | | |
|-----------------------------|--|------------|--|--|
| TOTAL SEMESTER HOURS | | 120 | | |
|-----------------------------|--|------------|--|--|

Comments: _____

Advisor's Name _____

MATHEMATICS

LOUISIANA TECH UNIVERSITY

Name _____

Date _____

Student ID _____

Email _____

| FRESHMAN YEAR | | | | | | | | | | |
|---------------------|-------------------------|---|------------------|------------------------|----|----------------|-------------------------|----|----|----|
| Fall Quarter | | | Winter Quarter | | | Spring Quarter | | | Cr | Gr |
| <i>MATH 240</i> * † | Math for Engr & Science | 3 | MATH 241* | Calculus I | 3 | MATH 242* | Calculus II | 3 | | |
| <i>CHEM 100</i> * † | General Chemistry | 2 | CHEM 101* | General Chemistry | 2 | CHEM 102 | General Chemistry | 2 | | |
| BISC 101 | Fundamentals of Biology | 3 | CHEM 103* | General Chemistry Lab | 1 | CHEM 104 | General Chemistry Lab | 1 | | |
| <i>FYE 100</i> † | University Seminar | 1 | ENGL 101 | Freshman Composition I | 3 | ENGL 102 | Freshman Composition II | 3 | | |
| | | | History Elective | | 3 | Comm 101 | | 3 | | |
| | | 9 | | | 12 | | | 12 | | |

| SOPHOMORE YEAR | | | | | | | | | | |
|--|--------------------------|----|----------------|--------------------------------|----|-----------------------|---------------------------|----|----|----|
| Fall Quarter | | | Winter Quarter | | | Spring Quarter | | | Cr | Gr |
| MATH 243* | Calculus III | 3 | MATH 244* | Calculus IV | 3 | MATH 245* | Differential Equations | 3 | | |
| PHYS 201* | Physics for Engr & Sci I | 3 | PHYS 202 | Physics for Engr & Sci II | 3 | Concentration/Minor * | | 3 | | |
| PHYS 261* | General Physics Lab | 1 | PHYS 262 | General Physics Lab | 1 | MATH 307 * | Fundaments of Mathematics | 3 | | |
| MATH/STAT Electives (MATH 311 or STAT 405) | | 3 | MATH 308* | Introduction to Linear Algebra | 3 | Social Science ** | | 3 | | |
| | | 10 | | | 10 | | | 12 | | |

| JUNIOR YEAR | | | | | | | | | | |
|---------------------------------|----------------------------------|----|----------------------|-------------------------------|----|------------------------|--|---|----|----|
| Fall Quarter | | | Winter Quarter | | | Spring Quarter | | | Cr | Gr |
| MATH 408 *§ | Introduction to Abstract Algebra | 3 | MATH 482 *§ | Introduction to Real Analysis | 3 | Fine Arts Appreciation | | 3 | | |
| Concentration/Minor* | | 3 | Foreign Language *** | | 3 | Concentration/Minor* | | 3 | | |
| ENGL 210, 211 or 212 Literature | | 3 | Concentration/Minor* | | 3 | MATH/STAT Electives* | | 3 | | |
| INEN 300*** | Engineering Economics | 2 | INEN 301 *** | Industrial Cost Analysis | 3 | | | | | |
| | | 11 | | | 12 | | | 9 | | |

| SENIOR YEAR | | | | | | | | | | |
|----------------------|----------------------------|---|---------------------|-----------------------------|----|----------------------|---------------------------|----|----|----|
| Fall Quarter | | | Winter Quarter | | | Spring Quarter | | | Cr | Gr |
| MATH 394 * | Research Methods | 2 | MATH/STAT Elective* | | 3 | MATH/STAT Elective* | | 3 | | |
| MATH 495 * | Senior Research Capstone I | 1 | CSC 130 or MATH 313 | | 3 | Concentration/Minor* | | 3 | | |
| Concentration/Minor* | | 3 | ENGL 303 | Technical Writing | 3 | Social Science ** | | 3 | | |
| MATH/STAT Electives | | 3 | MATH 496 * | Senior Research Capstone II | 1 | MATH 497 * | Senior Research Capstone* | 1 | | |
| | | 9 | | | 10 | | | 10 | | |

† Neither *MATH 240* nor *CHEM 100* counts toward the Mathematics degree. Placement exams are available. *FYE 100* will not be counted either.

* Grade of C or higher required

** Social Science electives can be selected from Anthropology, Criminal Justice, Economic, Geography, International Studies, Interdisciplinary, Political Science, Psychology, and Sociology.

*** Can be replaced by courses which are approved by the student's advisor and are at the 300 level in English, mathematics, or the student's minor/concentration.

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

§ These can be taken in the senior year if necessary.