

MATHEMATICS
LOUISIANA TECH UNIVERSITY

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 | F,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, 311 & consent of instructor | 2 | F | * |
| MATH 495 | MATH 394 | 1 | F | * |
| MATH 496 | MATH 495 | 1 | W | * |
| MATH 497 | MATH 496 | 1 | Sp | * |

| | | | | |
|----------|----------------------------|---|--|---|
| 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**

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.

Comments: _____

Advisor's Name _____

MATHEMATICS

LOUISIANA TECH UNIVERSITY

Name _____

Date _____

Student ID _____

Email _____

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

| SOPHOMORE YEAR | | | | | | | | | | |
|---|----|----|---|----|----|---------------------------------------|----|----|--|--|
| Fall Quarter | | | Winter Quarter | | | Spring Quarter | | | | |
| | Cr | Gr | | Cr | Gr | | Cr | Gr | | |
| <i>MATH 243*</i> Calculus III | 3 | | <i>MATH 244*</i> Calculus IV | 3 | | <i>MATH 245*</i> Differential Equatio | 3 | | | |
| <i>PHYS 201*</i> Physics for Engr & Sci I | 3 | | <i>PHYS 202</i> Physics for Engr & Sci II | 3 | | Concentration/Minor* | 3 | | | |
| <i>PHYS 261*</i> General Physics Lab | 1 | | <i>PHYS 262</i> General Physics Lab | 1 | | <i>ENGL 210, 211 or 212</i> | 3 | | | |
| Social Science ** | 3 | | <i>CSC 130 or MATH 313</i> | 3 | | | | | | |
| | 10 | | | 10 | | | 9 | | | |

| JUNIOR YEAR | | | | | | | | | | |
|--|----|----|---|----|----|-----------------------------|----|----|--|--|
| Fall Quarter | | | Winter Quarter | | | Spring Quarter | | | | |
| | Cr | Gr | | Cr | Gr | | Cr | Gr | | |
| <i>MATH 307*</i> Fundamentals of Mathematics | 3 | | <i>MATH 308*</i> Introduction to Linear Algebra | 3 | | Fine Arts Appreciation | 3 | | | |
| Concentration/Minor* | 3 | | <i>ENGL 303</i> Technical Writing | 3 | | Concentration/Minor* | 3 | | | |
| <i>MATH/STAT</i> Electives | 3 | | Concentration/Minor* | 3 | | <i>MATH/STAT</i> Electives* | 3 | | | |
| <i>INEN 300* ***</i> Engineering Economics | 2 | | <i>INEN 301* ***</i> Industrial Cast Analysis | 3 | | <i>MATH/STAT</i> Electives* | 3 | | | |
| | 11 | | | 12 | | | 12 | | | |

| SENIOR YEAR | | | | | | | | | | |
|---|----|----|--|----|----|------------------------------------|----|----|--|--|
| Fall Quarter | | | Winter Quarter | | | Spring Quarter | | | | |
| | Cr | Gr | | Cr | Gr | | Cr | Gr | | |
| <i>MATH 408*</i> Introduction to Abstract Algebra | 3 | | <i>MATH 482*</i> Introduction to Real Analysis | 3 | | <i>MATH/STAT</i> Elective* | 3 | | | |
| <i>MATH 394*</i> Research Methods | 2 | | <i>MATH/STAT</i> Elective* | 3 | | Concentration/Minor* | 3 | | | |
| Concentration/Minor* | 3 | | Foreign Language | 3 | | Social Science ** | 3 | | | |
| <i>MATH 495*</i> Senior Research Capstone I | 1 | | <i>MATH 496*</i> Senior Research Capstone II | 1 | | <i>MATH 497*</i> Senior Research C | 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.