

**MATHEMATICS**  
**LOUISIANA TECH UNIVERSITY**  
*Curriculum as of 2010*

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 244                   | 3          | W _____    | * _____ |
| 408   | MATH 307 or 311            | 3          | F _____    | * _____ |
| 482   | MATH 244; 311 or 307       | 3          | W _____    | * _____ |
| CHEM 101  | CHEM 100 (or by placement) | 2          | _____      | * _____ |
| 102   | CHEM 101                   | 2          | _____      | * _____ |
| 103   | CHEM 101**                 | 1          | _____      | * _____ |
| 104   | CHEM 103                   | 1          | _____      | _____   |
| COMM 110<br>or 377                                      |                            | 3          | _____      | _____   |
| ENGL 101  |                            | 3          | _____      | _____   |
| 102   | ENGL 101                   | 3          | _____      | _____   |
| 210, 211, or 212  | ENGL 102                   | 3          | _____      | _____   |
| 303   | ENGL 102                   | 3          | _____      | _____   |
| PHYS 201  | MATH 241                   | 3          | _____      | * _____ |
| 202   | PHYS 201, MATH 242         | 3          | _____      | _____   |
| 261   | MATH 241                   | 1          | _____      | * _____ |
| 262   | PHYS 261                   | 1          | _____      | _____   |
| <b>Mathematics or Statistics Electives (see note 2)</b> |                            |            |            |         |
| 1st course  |                            | 3          | _____      | * _____ |
| 2nd course  |                            | 3          | _____      | * _____ |
| 3rd course  |                            | 3          | _____      | * _____ |
| 4th course  |                            | 3          | _____      | * _____ |
| <b>Concentration or Minor Courses (see note 2)</b>      |                            |            |            |         |
| 1st course  |                            | 3          | _____      | _____   |
| 2nd course  |                            | 3          | _____      | _____   |
| 3rd course  |                            | 3          | _____      | _____   |
| 4th course  |                            | 3          | _____      | _____   |
| 5th course  |                            | 3          | _____      | _____   |
| 6th course  |                            | 3          | _____      | _____   |
| <b>ELECTIVES</b>  |                            |            |            |         |
| ART (ART 290, KINE 280, MUGN 290, or THTR 290)          |                            | 3          | _____      | _____   |
| HIST _____  | See note 5                 | 3          | _____      | _____   |
| HIST _____  | See note 6                 | 3          | _____      | _____   |
| BISC 130  |                            | 3          | _____      | _____   |
| BISC 131  |                            | 1          | _____      | _____   |
| Social Science  | See notes 1 and 5          | 3          | _____      | _____   |
| Social Science  |                            | 3          | _____      | _____   |
| Social Science  |                            | 3          | _____      | _____   |
| Computer Literacy (select one of the following)         |                            | 3          | _____      | _____   |
| CSC 120   |                            |            | W,Sp _____ | _____   |
| MATH 313  |                            |            | _____      | _____   |
| Science Elective  | See note 2                 | 3          | _____      | _____   |
| Foreign Language  | See note 6                 | 3          | _____      | _____   |
| Foreign Language  | See note 6                 | 3          | _____      | _____   |
| <b>TOTAL SEMESTER HOURS</b>                             |                            | <b>120</b> |            |         |

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

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

**NOTES**

\* Requires grade of "C" or better.  
 \*\* Credit or registration in

1 Social Science electives must include at least two disciplines selected from Economics, Geography, Political Science, Psychology, or Sociology.

2 Directed electives must be selected in consultation with student's advisor.

3 Substitutions must be initialed by Program Chair. Put substitution number in the "grade" blank of the course being replaced.

4 A student must have a 2.0 grade point average on all hours pursued in courses designated as MATH or STAT (Mathematics or Statistics).

5 All students must complete an International Education Requirement. HIST 102, GEOG 205, and GEOG 210 are acceptable for this requirement.

6 These courses can be replaced by courses at or above the 300 level in English, mathematics, or the student's minor/concentration. Must have advisor's approval.

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 130         | Biological Principles     | 3  |                |  |  | CHEM 103*      | General Chemistry Lab  | 1  |    |    | CHEM 104       | General Chemistry Lab   | 1  |  |  |
| BISC 131         | Biological Principles Lab | 1  |                |  |  | ENGL 101       | Freshman Composition I | 3  |    |    | ENGL 102       | Freshman Composition II | 3  |  |  |
| UNIV 100         | University Seminar        | 1  |                |  |  | HIST ____ ***  |                        | 3  |    |    | HIST ____ **** |                         | 3  |  |  |
|                  |                           | 10 |                |  |  |                |                        | 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  |    |    | Science Elective                |                        | 3  |  |  |
| Social Science*** |                          | 3  |                |  |  | CSC 120 or MATH 313 |                           | 3  |    |    | ENGL 210, 211 or 212 Literature |                        | 3  |  |  |
|                   |                          | 10 |                |  |  |                     |                           | 10 |    |    |                                 |                        | 12 |  |  |

| JUNIOR YEAR          |                        |    |                |  |  |                      |                                |    |    |    |                                       |                             |   |  |  |
|----------------------|------------------------|----|----------------|--|--|----------------------|--------------------------------|----|----|----|---------------------------------------|-----------------------------|---|--|--|
| Fall Quarter         |                        |    | Winter Quarter |  |  | Spring Quarter       |                                |    | Cr | Gr |                                       |                             |   |  |  |
| MATH/STAT Elective*  |                        | 3  |                |  |  | <b>MATH 308*</b>     | Introduction to Linear Algebra | 3  |    |    | <b>MATH 307*</b>                      | Fundamentals of Mathematics | 3 |  |  |
| Concentration/Minor  |                        | 3  |                |  |  | ENGL 303             | Technical Writing              | 3  |    |    | Concentration/Minor                   |                             | 3 |  |  |
| ART†                 | Fine Arts Appreciation | 3  |                |  |  | Concentration/Minor  |                                | 3  |    |    | COMM 110 or 377 Professional Speaking |                             | 3 |  |  |
| Foreign Language**** |                        | 3  |                |  |  | Foreign Language**** |                                | 3  |    |    |                                       |                             |   |  |  |
|                      |                        | 12 |                |  |  |                      |                                | 12 |    |    |                                       |                             | 9 |  |  |

| SENIOR YEAR         |                                  |   |                |  |  |                     |                               |   |    |    |                     |  |   |  |  |
|---------------------|----------------------------------|---|----------------|--|--|---------------------|-------------------------------|---|----|----|---------------------|--|---|--|--|
| Fall Quarter        |                                  |   | Winter Quarter |  |  | Spring Quarter      |                               |   | Cr | Gr |                     |  |   |  |  |
| <b>MATH 408*</b>    | Introduction to Abstract Algebra | 3 |                |  |  | <b>MATH 482*</b>    | Introduction to Real Analysis | 3 |    |    | MATH/STAT Elective* |  | 3 |  |  |
| MATH/STAT Elective* |                                  | 3 |                |  |  | MATH/STAT Elective* |                               | 3 |    |    | Concentration/Minor |  | 3 |  |  |
| Concentration/Minor |                                  | 3 |                |  |  | Social Science***   |                               | 3 |    |    | Social Science***   |  | 3 |  |  |
|                     |                                  | 9 |                |  |  |                     |                               | 9 |    |    |                     |  | 9 |  |  |

Neither *MATH 240* nor *CHEM 100* counts toward the Mathematics degree. Placement exams are available.

\* Grade of C or higher required before taking a course for which this one is a prerequisite.

\*\* Directed electives are chosen in consultation with advisor and approved by the Program Chair.

\*\*\* HIST 102, GEOG 205, or GEOG 210 count as the International Education Requirement (IER).

\*\*\*\* 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.

† ART 290, KINE 280, MUGN 290, or THTR 290 counts as the Fine Arts Requirement.

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