



Southeastern Louisiana University
Department of Mathematics

The mission of the Department of Mathematics is to provide an appropriate mathematical course of study for all students enrolled in Southeastern Louisiana University. In addition to contributing to the broad cultural background of the general education student, the Department of Mathematics offers courses that lead to the mathematical proficiency of students desiring to continue in mathematics as graduate students, as competent users of mathematics in business, industry or government, or as teachers of mathematics at either the elementary or secondary level.

All students are required to take at least six hours of mathematics. Students should consult their major to determine the proper track to follow.

The Department of Mathematics offers credit examinations for Math 160, Math 161, Math 162, Math 165, and Math 241. Students may take a credit exam for a particular course only once. For more information on credit exams, students should contact the Department of Mathematics.

In order to graduate with a major in mathematics, a student must have a grade of "C" or better in all mathematics courses taken and must have a minimum adjusted or degree GPA of 2.0 or better in all mathematics courses.

PLACEMENT IN MATHEMATICS

Placement of entering freshmen in mathematics courses is based on the mathematics score on the Enhanced ACT Assessment. Students are not permitted to register for mathematics courses until those scores are on file in the Office of Testing.

The Enhanced ACT Assessment is not used as an entrance examination. Rather, it is used as a means of determining the degree of preparation in mathematics. The placement procedure, outlined below, ensures that each entering freshman will begin the study of mathematics at a level for which he or she is prepared.

A student whose Enhanced ACT mathematics score is 17 or below is required to take a mathematics placement test during the orientation program to determine whether placement in Transitional Mathematics TRMA 92 or one of Math 160 or Math 161 should occur. Students who are placed in TRMA 92 must pass the course before enrolling in either Math 160 or Math 161.

Placement of beginning freshman according to Enhanced ACT mathematics scores:

TRMA 92: Enhanced ACT mathematics score of 17 or below and appropriate score on the mathematics placement test.

Math 160 or Math 161: Enhanced ACT mathematics score of 18 or higher or appropriate score on the mathematics placement test. Additionally, for direct placement into Math 160 or Math 161, students should have had at least two years of college preparatory mathematics in high school. The selection of Math 160 or Math 161 is dependent on the student's major.

Math 165: Enhanced ACT mathematics score of 22 or higher. Additionally, for direct placement into Math 165, students should have had at least three to three and one-half years of college preparatory mathematics in high school.

Math 200: Enhanced ACT mathematics score of 27 or higher. Additionally, for direct placement into Math 200, students should have had at least four years of college preparatory mathematics in high school.

Students with Enhanced ACT mathematics score of at least 24 and who plan to take Math 200 are encouraged to take the Calculus Readiness Test given by the Department of Mathematics. Satisfactory scores on this test can result in the student directly entering Math 200 instead of entering Math 165. Interested students should contact the Department of Mathematics.

Placement in a mathematics course beyond Math 160 or Math 161 does not automatically give credit for either Math 160 or Math 161. Students may take a credit exam for either Math 160 or Math 161 by contacting the Department of Mathematics.

MAJORS

Majors in Mathematics in the College of Arts and Sciences must complete a minimum of thirty-seven (37) semester hours in Mathematics. These hours are:

| | |
|---|---------|
| Math 200 | 5 hours |
| Math 201 | 5 hours |
| Math 223 | 3 hours |
| Math 312 | 3 hours |
| Math 350 | 3 hours |
| Math 360 | 3 hours |
| Math 370 | 3 hours |
| Math 417 | 3 hours |
| Math 441 | 3 hours |
| Math Electives (400 level) ¹ | 6 hours |

Honors Diploma in Mathematics

For the Honors Diploma in Mathematics, majors must complete the following:

| | |
|---|----------|
| English 121H ¹ | 3 hours |
| English 122H ² | 3 hours |
| History 101H ³ | 3 hours |
| History 102H ⁴ | 3 hours |
| English 291H, English 292H, History 201H, History 202H, Econ 201H, Gbio 151H, Math 161H, Honors 191, Honors 311, Honors 312, Honors 313, or Honors 314 ⁵ | 3 hours |
| Foreign Language 201 | 3 hours |
| Foreign Language 202 | 3 hours |
| Math 350, 360, 370, 380 ⁶ | 9 hours |
| Math 490 ⁷ | 3 hours |
| Honors 300 Senior Thesis | 1 hour |
| ----- | |
| Total..... | 34 hours |

¹English 121H can be substituted for English 101.

²English 122H can be substituted for English 102.

³History 101H can be substituted for History 101 or 201.

⁴History 102H can be substituted for History 102 or 202.

⁵Any of English 291H, English 292H, History 201H, History 202H, Econ 201H, Gbio 151H, Math 161H, Honors 191, Honors 311, Honors 312, Honors 313, or Honors 314 can be substituted for similar major requirements with the approval of the Department Head.

⁶These hours must be completed as an H-Option.

⁷The domain in which the student will complete the thesis project and the student's participation in the OSCAR program, service learning, internship, or international experience will be determined during the student's enrollment in Math 490.

MINORS

In order to minor in Mathematics, the student must complete a minimum of twenty-two semester hours. These hours are:

| | |
|--|---------|
| Math 200 | 5 hours |
| Math 201 | 5 hours |
| Math 223 | 3 hours |
| Math 312 | 3 hours |
| Math 350, 360, 370 or 400 level Math courses (Choose 2) ¹ | 6 hours |

¹Math 460 may not be used to satisfy this requirement

CURRICULUM IN MATHEMATICS LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

| FIRST YEAR | | | |
|--------------------------------|-------|---|------|
| FIRST SEMESTER | S.H. | SECOND SEMESTER | S.H. |
| †Mathematics 200 | 5 | †Mathematics 201 | 5 |
| Chemistry 121 | 3 | English 102 | 3 |
| Chemistry 123 Laboratory | 1 | Communication 211 | 3 |
| English 101 | 3 | Biological Science 151 | 3 |
| Computer Science 161 | 3 | Biological Science 152 | 1 |
| Orientation 101 | 0-1 | | |
| | ----- | | ---- |
| | 15-16 | | 15 |
| | | | |
| SECOND YEAR | | | |
| †Mathematics 223 | 3 | †Mathematics 350 | 3 |
| †Mathematics 312 | 3 | Foreign Language 102 | 3 |
| History ¹ | 3 | History ¹ | 3 |
| Foreign Language 101 | 3 | Computer Science 280 | 3 |
| English 230, 231 or 232 | 3 | Visual Art, Literature, Music, or Philosophy ² | |
| | 3 | | |
| | ---- | | ---- |
| | 15 | | 15 |

THIRD YEAR

| | | | |
|--|------|----------------------------------|------|
| †Mathematics 360 | 3 | †Mathematics 370 | 3 |
| Physics 221 | 3 | Economics 102, 201, or 202 | 3 |
| Physics Laboratory 223 | 1 | †Math 380 | 3 |
| Computer Science 390 | 3 | Science ⁷ | 4 |
| Social Science Elective ³ | 3 | Kinesiology Laboratory | 1 |
| Art ⁴ | 3 | | |
| | ---- | | ---- |
| | 16 | | 14 |

FOURTH YEAR

| | | | |
|--|-------|--|------|
| †Mathematics 417 | 3 | †Mathematics 441 | 3 |
| †Mathematics Elective (400 level) ⁸ | 3 | †Mathematics Elective (400 level) ⁸ | 3 |
| Technical Elective ^{5,6} | 4-5 | Electives | 9 |
| Kinesiology Laboratory | 1 | | |
| Electives | 3 | | |
| | ----- | | ---- |
| | 14-15 | | 15 |

Total semester hours required 120

Orientation 101 is not required of transfer or readmitted Southeastern students with 30 hours or more.

¹Must complete either History 101 and 102 or History 201 and 202.

²To be selected from the following four areas: Art (survey, sketching, or history), Literature (any 300 or 400 level courses), Music (appreciation, history, or theory), or Philosophy.

³To be selected from the disciplines of Geography, Anthropology, Political Science, Psychology, or Sociology.

⁴To be taken from Art, Music, Dance, or Theatre.

⁵If no credit is received for Orientation, then the 1-hour must be taken from the list of technical electives. Check with the Department of Mathematics.

⁶To be taken from a list approved by the Department of Mathematics.

⁷Must complete a one year sequence in either Biology, Chemistry, or Physics.

⁸Math 460 may not be used to satisfy this requirement.

†Major course; grade of "C" or better required.