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 161, Math 162, Math 163, and Math 165. 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.

### PLACEMENT IN MATHEMATICS

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

The ACT Assessment 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.

1. A student whose ACT mathematics score is 18 or below is required to take Math 92: Transitional Mathematics. Students who are placed in Math 92 must pass the course before enrolling in Math 155.

2. Placement of beginning freshman according to ACT mathematics score:
   - **Math 92**: ACT mathematics score of 18 or below. Credit for Math 92 does not count towards graduation.
   - **Math 155**: ACT mathematics score of 19 or 20.
   - **Math 161**: ACT mathematics score of 21 or higher.
   - **Math 165**: ACT mathematics score of 25 or higher.
   - **Math 200**: ACT mathematics score of 28 or higher.

3. Advanced Placement – a student whose ACT mathematics score is 28 or above is eligible to be placed directly into Math 162, 163, 165, 167, or 241, depending upon their choice of major. Upon completion of Math 162, 163, 165, 167, or 241 with the Grade “C” or better, the student will receive the Grade “P” in Math 161, with 3 credit hours. Upon completion of Math 200 with the Grade “C” or better, the student will receive the Grade “P” in Math 165, with 3 credit hours.

### MAJORS

Majors in Mathematics in the College of Science and Technology must complete a minimum of forty-three (43) 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 380** .................................................................3 hours
- **Math 417** .................................................................3 hours
- **Math 441** .................................................................3 hours
- **Math Electives (400 level)** ........................................9 hours

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

- **English 121H** ............................................................3 hours
- **English 122H** ............................................................3 hours
- **History 101H** ............................................................3 hours
- **History 102H** ............................................................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** ............................................................3 hours
- **Foreign Language 101** .............................................3 hours
- **Foreign Language 102** .............................................3 hours
- **Math 350, 360, 370, 380** .........................................12 hours
- **Math 490** .................................................................3 hours

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3Math 460 and Math 467 may not be used to satisfy this requirement.

### HONORS DIPLOMA IN MATHEMATICS

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

- **English 121H** ............................................................3 hours
- **English 122H** ............................................................3 hours
- **History 101H** ............................................................3 hours
- **History 102H** ............................................................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** ............................................................3 hours
- **Foreign Language 101** .............................................3 hours
- **Foreign Language 102** .............................................3 hours
- **Math 350, 360, 370, 380** .........................................12 hours
- **Math 490** .................................................................3 hours
Honors 300 Senior Thesis................................................................. 1 hour
Total ................................................... 37 hours

1 English 121H can be substituted for English 101.
2 English 122H can be substituted for English 102.
3 History 101H can be substituted for History 101 or 201.
4 History 102H can be substituted for History 102 or 202.
5 Any of English 291H, English 292H, History 201H, History 202H, Econ 201H, 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.
6 These hours must be completed as an H-Option.
7 The domain in which the student will complete the thesis project and the student’s participation in the STAR 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 309, 350, 360, 370 or 400 level Math courses (Choose 2) ............................ 6 hours

Math 460 and Math 467 may not be used to satisfy this requirement.

CURRICULUM IN MATHEMATICS
LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

FIRST SEMESTER S.H.
†Mathematics 200 .................................................. 5
Chemistry 121 ..................................................... 3
Chemistry Laboratory 123 ................................... 1
Computer Science 161 ....................................... 3
Southeastern 101 ............................................. 0-3

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SECOND SEMESTER S.H.
†Mathematics 223 .................................................. 3
†Mathematics 312 .................................................. 3
History Elective .................................................. 3
Foreign Language 101 ........................................ 3
English 230, 231 or 232 .................................... 3

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THIRD SEMESTER S.H.
†Mathematics 370 .................................................. 3
Physics 221 ....................................................... 3
Physics Laboratory 223 ................................... 1
Computer Science 355, 383, 389, or 390 ....... 3
Social Science Elective2 ................................... 3
Art Elective3 ...................................................... 3

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FOURTH SEMESTER S.H.
†Mathematics 417 .................................................. 3
†Mathematics Elective (400 level) 3 ...................... 6
Electives ......................................................... 6
Kinesiology Laboratory .................................. 1

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Total semester hours required 121-124
Southeastern 101 is not required of transfer or readmitted Southeastern students with 30 hours or more.

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

Any 200-, 300-, or 400-level course in Botany, General Biology, Microbiology, Zoology, Chemistry, or Physics; or use to complete a second science sequence.

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

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

*Must complete a one-year sequence by taking Biology 153/154, Chemistry 122/124, or Physics 222/224.

*Math 460 and 467 may not be used to satisfy this requirement.