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 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 24 or higher.
   - Math 200: ACT mathematics score of 27 or higher.

3. Advanced Placement – a student whose ACT mathematics score is 27 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

Honors 300 Senior Thesis ............................................................................................1 hour

Total 37 hours

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
- 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
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 201H, English 202H, History 201H, History 202H, Econ 201H, GHO 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 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
Chemistry 121 ............................................. 3
Chemistry Laboratory 123 ................................ 1
English 101 or 121H ..................................... 3
Computer Science 161 ................................ 3
Southeastern 101 ........................................ 0-3

Management of Contract Courses

CURRICULUM IN MATHEMATICS
LEADING TO THE DEGREE OF BACHELOR OF SCIENCE

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

FIRST YEAR
†Mathematics 201 .................................................. 5
English 102 or 122H ........................................ 3
Communication 211 ....................................... 3
Biological Science 151 .................................... 3
Biological Science Laboratory 152 .................. 1

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

SECOND YEAR
†Mathematics 350 .................................................. 3
Foreign Language 102 .................................... 3
History Elective ............................................. 3
Computer Science 280 .................................... 3
Visual Art, Literature, Music, or Philosophy† ...... 3

THIRD YEAR
†Mathematics 360 .................................................. 3
Economics 102, 201, or 202 .............................. 3
†Mathematics 380 .................................................. 3
Science‡ ....................................................... 4
Kinesiology Laboratory .................................. 1

THIRD YEAR
†Mathematics 417 .................................................. 3
†Mathematics Elective (400 level) § ..................... 3
Electives ..................................................... 6
Kinesiology Laboratory .................................. 1

FOURTH YEAR
†Mathematics 441 .................................................. 3
†Mathematics Elective (400 level) § ..................... 3
Electives ..................................................... 9

FOURTH YEAR
†Mathematics 417 .................................................. 3
†Mathematics Elective (400 level) § ..................... 3
Kinesiology Laboratory .................................. 1

Total semester hours required 121-125

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

†Major course; grade of “C” or better required.
1To be selected from the following four areas: Visual Art (survey, studio, or history). Literature (any 300 or 400 level course). Music (appreciation, history, or theory), or Philosophy.
2To be selected from the disciplines of Geography, Anthropology, Political Science, Psychology, or Sociology.
3To be taken from Art, Music, Dance, or Theatre.
4Must complete a one-year sequence by taking Biology 153/154, Chemistry 122/124, or Physics 222/224.
5Math 460 and Math 467 may not be used to satisfy this requirement.
6These hours must be completed as an H-Option.