Program Description
The mathematics area of concentration is a transfer program that provides the first two years of courses necessary for a four-year baccalaureate degree in mathematics.

Program Outcomes
Upon completion of this program a student will be able to:

• Effectively communicate the concepts of single and multivariable calculus, differential equations, and linear algebra using appropriate mathematical language.
• Apply mathematical approaches from single and/or multivariable calculus, differential equations, and linear algebra to analyze and solve problems in mathematics and other disciplines.
• Appropriately use current mathematical software, such as Matlab or MAPLE, for tasks in multivariable calculus, differential equations, and/or linear algebra.
Suggested Course Sequence
A suggested course sequence for full-time students follows. All students should review this advising guide and consult an advisor.

**First Semester**
- ENGL 101 - Introduction to College Writing 3 semester hours *
- MATH 181 - Calculus I 4 semester hours (MATF)
- Arts Distribution 3 semester hours (ARTD)
- Behavioral and Social Sciences Distribution 3 semester hours (BSSD) **
- Humanities Distribution 3 semester hours (HUMD)

**Second Semester**
- English Foundation 3 semester hours (ENGF)
- MATH 182 - Calculus II 4 semester hours
- Program Electives 4 semester hours †
- Natural Sciences Distribution with Lab 4 semester hours (NSLD) ‡

**Third Semester**
- MATH 117 - Elements of Statistics 3 semester hours (GEEL)
- OR
- COMM 108 - Foundations of Human Communication 3 semester hours (GEEL)
- OR
- COMM 112 - Business and Professional Speech Communication 3 semester hours (GEEL)

- OR
- General Education Elective 3 semester hours (GEEL)
- MATH 280 - Multivariable Calculus 4 semester hours
- Natural Sciences Distribution with Lab 4 semester hours (NSLD) ‡
- Program Electives 4 semester hours †

**Fourth Semester**
- MATH 282 - Differential Equations 3 semester hours
- MATH 284 - Linear Algebra 4 semester hours
- Program Electives 4 semester hours †
- Behavioral and Social Sciences Distribution 3 semester hours (BSSD) **

**Total Credit Hours: 60**
* ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or program elective.
** Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.
‡ Students are strongly encouraged to take two consecutive lab sciences courses.
† Students should choose electives carefully based on the requirements of their intended transfer institution. Students are encouraged to take a two-semester sequence of courses that fulfills their transfer goals. Program electives include: ACCT 221, ACCT 222, BIOL 150, BIOL 151, BIOL 210, CHEM 131, CHEM 132, CHEM 203, CHEM 204, CMSC 140, CMSC 203, CMSC 207/MATH 207, COMM 108, ECON 201, ECON 202, ENEE 140, ENES 102, ENES 206, ENES 220, ENES 221, ENES 240, MATH 165, PHYS 161, PHYS 233, PHYS 234, PHYS 262, or PHYS 263. Students must take at least one 200 level program elective.