and sociological aspects of the correlation between the media, sports, and society.

497 Special Studies (3), (2), or (1) (Permission of the department) Open only to juniors and seniors with a grade point average of 3.0 or higher in their major courses. A maximum of 3 semester hours may be earned. All individual research projects are reviewed by three faculty members from two different disciplines. May be taken for credit (3 hours) towards the Honors degree by special arrangement.

498 Communication Internship (3:8) (Prerequisite: Permission of department and internship agency, senior status, and successful completion of 24 semester hours in the major at a minimum grade point average of 3.0 in all Mass Communication courses and 2.5 cumulative grade point average in all courses taken at FMU.) Internships will be awarded according to merit and availability determined by the department when the student meets the prerequisite. Students otherwise unqualified may be awarded an internship provided he/she presents clear and convincing evidence of extraordinary circumstances which the Mass Communication faculty deems worthy of an exception.

SPEECH COMMUNICATION

Coordinator: Dr. Jenifer Butler

MAJOR
No major in speech communication is offered.

MINOR
No minor in speech communication is offered.

COLLATERAL
No collateral in speech communication is offered.

SPEECH COMMUNICATION COURSES (SPCO)

101 Basics of Oral Communication (3) F, S, SU. Fundamental principles of oral communication: delivery, audience analysis, and holding listener attention. Practice in extemporaneous speaking and in constructive criticism of speaking.

203 Voice and Diction (3) F, S. Improvement in voice and diction through understanding of the basic physiology of the speech communication mechanism, through application of the International Phonetic Alphabet, and through the oral interpretation of literature.

300 Argumentation and Persuasion (3) (Prerequisite: 101) Students learn the basic principles of argumentation and persuasion with a focus on the fundamentals of Lincoln-Douglas style debate and classical rhetorical appeals. Topics include Internet database research, synthesis of collected data, analysis of evidentiary quality, refutation of counter claims, identification of logical fallacies, framing of issues and coherent storytelling. Students are prepared to work with a great range of issues and coherent storytelling. Students work with a great grant of opinion and evidence. Class debates on contemporary issues are used as an evaluative tool. Debates outside class are offered as well.

301 Small Group Methods and Discussion (3) (Prerequisite: Psychology 206) Provides students with the opportunity to explore and apply research in small group communication. Students will learn the skills necessary to participate effectively in small groups. Special attention will be given to the role and function of decision-making in groups. Other topics to be covered include (but are not limited to) leadership, power, and conflict management.

DEPARTMENT OF MATHEMATICS

Chair and Coordinator: Dr. Thomas L. Fitzkee
Faculty: Fangjun Arroyo, K. Daniel Brauss, Minerva Brauss, Chace Covington, Monica Dowdy, Renee Dowdy, Ivan Dungan, Thomas Fitzkee, Johanna Gibson, Jordan Kirby, Kevin LoPresto, Kathy McCoy, Sharon O'Kelley, Nicole Panza, J. Lee Phillips, Daniel Scofield, Damon Scott, and Denise Tracy

MISSION STATEMENT

The Department of Mathematics offers a baccalaureate degree in Mathematics. Mathematics majors can choose between two track offerings, Mathematical Sciences or Teacher Licensure. The department also offers two minors, one in Mathematics and another in Statistics. In addition, the department has a collateral offering in Mathematics.

The principal purpose of the Department of Mathematics at Francis Marion University is to offer all University students a varied and well-balanced program of undergraduate education in mathematics. In the liberal arts tradition, the courses in the program teach students to think logically, to analyze problems and solve them appropriately, and to communicate their ideas clearly.

The department provides a broad range of entry-level courses in order to meet the needs of students with widely varying mathematical backgrounds and to provide them with skills appropriate for their selected majors. The mid-level and upper-level curriculum provided by the department leads to baccalaureate degrees in two distinct but overlapping areas: mathematical sciences and teacher licensure in mathematics. These courses prepare students for careers in education, business or industry, or for further study at the graduate level. The department also offers graduate courses in support of the post-baccalaureate program in teacher relicensure.

To maintain the vitality of the department and enhance the University's teaching mission, members of the department undertake new course development, conduct research, or pursue other avenues of faculty development. The department serves the general public by hosting an annual high-school mathematics competition and by actively participating in workshops, seminars, science fairs, and other programs that support the region's general education and developmen

MAJOR
A major in mathematics requires the following:
Students must choose one of the following two options:

MAJOR IN MATHEMATICS WITH THE MATHEMATICAL SCIENCE OPTION

1. Mathematics 201, 202, 203, 304, 306, and 499.
2. Mathematics 213 or Computer Science 226.
3. Mathematics 311, but double majors may substitute Mathematics 230 for 311.
4. Mathematics 405, 407, or 411.
5. Mathematics Electives (Mathematics 170, 270, and 370 may not serve as a mathematics elective at any level)
   a. One mathematics elective at or above 200 level,
   b. one more mathematics elective at or above the 300 level,
   c. and a third mathematics elective at or above the 400 level.
6. Two 12-hour collaterals approved by the faculty advisor, or one 18-hour minor approved by the faculty advisor.

MAJOR IN MATHEMATICS WITH THE TEACHER LICENSURE OPTION

The Francis Marion University School of Education prepares caring and competent teachers for the 21st century. The Department of Mathematics provides the major knowledge base for students seeking licensure to teach mathematics in the state of South Carolina. The department supports and encourages the conceptual framework of the School of Education.

General Education	**B.S.**	**B.A.**
Communications	9-10 hours	18-19 hours
English 101 (or English 101E/L)	3 or 4	3 or 4
English 102	3	3
Speech Communication 101	3	3
Foreign Language	0	9
Social Science	9 hours	9 hours
a. Political Science 101 or 103	3	3
b. Anthropology, Economics, Geography, or Sociology	3	6
c. Anthropology, Economics, Geography, Political Science, Sociology, or Honors 250-259	3	0
Humanities	12 hours	12 hours
a. Literature (any language)	3	3
b. History	3	3
c. Art 101, Music 101, or Theatre 101	3	3
d. Mathematics 315	3	3
Mathematics (a minimum of 6 hours: Mathematics 111 (or 111E) and higher; B.A. degree allows Philosophy and Religious Studies 203 to be substituted for one of the math courses.)	-	-
Natural Sciences (Laboratories are required with courses)	12 hours	8 hours
a. Biology	4	4
b. Chemistry, Physics, or Physical Science*	4	4
c. Astronomy, Biology, Chemistry, Physics, Physical Science*, Psychology 206/216, or Honors 280-289	4	0

(To satisfy the Natural Sciences Requirement, students must take at least one course from a, at least one course from b, and for the B.S. degree, at least one course from c above.)

*Credit toward graduation may not be earned in both Physical Science 101-102 and any chemistry or any physics course.

	B.S.	B.A.
Pre-Professional Education	18 hours	18 hours
Education 190	3	3
Education 192	3	3
Mathematics 213 or Education 310 or Computer Science 190	3	3
Education 311	3	3
Education 322	3	3
Education 420	3	3
Professional Education	10 hours	10 hours
Education 313	2	2
Education 411	3	3
Education 393 and 436 taken concurrently	5	5
Student Teaching Block**	14 hours	14 hours
Education 487	2	2
Education 490	12	12
**Education 487 and 490 to be taken concurrently		
Supporting Courses	6 hours	6 hours
Education 322	3	3
Education 411	3	3
Major or collateral courses (See specific courses below)	40-70	40-70

Mathematics Major Requirements:

	B.S.	B.A.
Mathematics 201	3	3
Mathematics 202	3	3
Mathematics 203	3	3
Mathematics 230	3	3
Mathematics 304	3	3
Mathematics 306	3	3
Mathematics 311	3	3
Mathematics 312	3	3
Mathematics 315	3	3
Mathematics 345	3	3
Mathematics 405	3	3
Mathematics 499	3	3
Mathematics 213 or Computer Science 190 or 226	3	3
Electives (if needed)		

Collateral requirement for Teacher Licensure option:
a) one 12-hour collateral approved by the faculty adviser

It is strongly recommended that all mathematics majors take Physics 201 and 202. The minimum number of semester hours required in major courses for a major in mathematics is 33 for the Mathematical Sciences Option and 36 for the Teacher Licensure Option. The minimum number of semester hours in all courses (major and non-major) required for the major in mathematics is 120 (121 for Teacher Licensure Option if the collateral is chosen in a biological or physical science).

MINOR

A minor in mathematics consists of Mathematics 201, 202, and 203 plus nine additional semester hours above the 203-level. At least six of those additional hours must be at the 300-level or higher. Mathematics 270 and 370 cannot be used to satisfy the requirements for a minor in mathematics.

COLLATERAL

A collateral in mathematics consists of Mathematics 201 and 202 plus six semester hours above the 202 level. Mathematics 270 and 370 cannot be used to satisfy the requirements for a collateral in mathematics.

OTHER INFORMATION

During registration, beginning students at Francis Marion University are placed into their first mathematics course by the Department of Mathematics through the Chair or designee upon consideration of the appropriate and available information. The Department reserves the right to require a student to take a placement test if the available information is not adequate for making a sound determination of placement. All listing of prerequisites of mathematics courses are requirements, not recommendations, and may be waived only by the Department Chair or designee.
Below are typical student placements or credits based on AP test results:

- Score of 3 or higher on AP Calculus BC exam typically results in placement into Mathematics 203.
- Score of 5 on AP Calculus AB exam typically results in placement into Mathematics 203.
- Score of 3 or 4 on AP Calculus AB exam typically results in placement into Mathematics 202.
- Score of 1 or 2 on AP Calculus AB exam typically results in placement into Mathematics 201.
- Score of 4 or higher on AP Precalculus exam yields credit for Math 137.
- Score of 4 or higher on AP Statistics exam yields credit for Math 134.

Mathematics 105 and Mathematics 105E and 105L, while earning credit toward graduation, will not satisfy any of the six hours of Mathematics in the General Education Requirements.

Mathematics 170, 270, and 370 are designed for students seeking South Carolina Teacher Licensure in early childhood education or in elementary education or a B.G.S. in Educational Studies. It should be noted that a grade of C or higher in Mathematics 111 (or 111E) or department placement is required to take Mathematics 170.

Many areas of concentration require completion of Mathematics 132 or 134 as preparation for certain applied courses.

Students who complete General Education Requirements for a B.A. by taking Mathematics 111 (or 111E/111L) and Logic should consider the restriction such selections place on future choices of a major.