APPLIED MATHEMATICS (M.S.)

The Master of Science (M.S.) in Applied Mathematics program is intended to prepare students for a career in which professional success depends upon a high level of quantitative skill, analytical ability, and problem-solving expertise. Exceptional students may use this preparation as a foundation for entering a doctoral program.

Program Admission Requirements

- Submit a completed FGCU Graduate Admissions Application (https://www.fgcu.edu/admissionsandaid/graduateadmissions/) and satisfy all applicable university admissions requirements.
- Earned baccalaureate degree from an institution that maintains accreditation by a U.S. Department of Education sanctioned accrediting body (https://www.ed.gov/laws-and-policy/higher-education-laws-and-policy/college-accreditation (https://www.ed.gov/laws-and-policy/higher-education-laws-and-policy/college-accreditation/)) or equivalent foreign institution in mathematics or related discipline.
- A cover letter of introduction and expression of interest
- An official copy of all undergraduate and graduate (if applicable) transcripts.
- A minimum grade point average (GPA) of 3.0 on a 4.0 maximum scale for the most recent 60 hours of undergraduate coursework.
- An official copy of all score reports from the Graduate Record Examination (GRE); GRE subject exams are not required.
- Minimum GRE scores of 148 and 153 in the Verbal and Quantitative Reasoning sections, respectively.
- International students must demonstrate English language proficiency in accordance with University regulation.
- Two letters of recommendation from academic sources capable of assessing your ability to succeed in a graduate program.

Program Progression and Additional Graduation Requirements

- Earn a minimum of 30 credit hours with at least a 3.0 GPA on a 4.0 scale.
- All core courses must be passed with a minimum grade of B (not B minus) or "Satisfactory" (out of Satisfactory/Unsatisfactory), as applicable
- All elective courses must be passed with a minimum grade of C (not C minus) or "Satisfactory" (out of Satisfactory/Unsatisfactory), as applicable.
- Successful completion of comprehensive exam(s).
- Application to graduate must be submitted prior to the deadline given in the FGCU academic calendar.
- A maximum of 9 credits may be transferred from another institution to apply towards the 30 credits required for the Applied Mathematics (M.S.) Requests for transfer of credits are subject to the approval of the Graduate Program Coordinator. Graduate credits of an appropriate nature earned at FGCU by students prior to formal acceptance into the Mathematics (M.S.) program may be applied towards the degree requirement on a case-by-case basis at the discretion of the Graduate Program Coordinator.
- Students must register for a minimum of one credit during the semester in which they apply for graduation.
- Earn more than 50% of the credits toward the degree through FGCU.

Program Requirements

Code	Title	Credits
Required Courses in the Major		**(18 credits)**
MAA 5228	Modern Analysis I	3
MAP 5316	Differential Equations I	3
MAS 5145	Advanced Linear Algebra	3
MAS 5311	Modern Algebra I	3
MAT 6930	Research Seminar	3
STA 5355	Appl Mathematical Statistics	3
Restricted Electives in the Major		**(12 credits)**
EDG 6356	Inst Models and Strategies	3
MAA 5406	Complex Analysis I	3
MAD 5206	Applied Combinatorics I	3
MAD 5405	Numerical Methods & Computing	3
MAE 6336	Math Med: 6-12	3
MAP 5489	Mathematical Biology	3
MAP 6436	Topics in Applied Mathematics	3
MAS 5117	Math for Machine Learning	3
MAS 5215	Number Theory	3
MAT 5932	Special Topics Math	1-3
MAT 6907	Directed Individual Study	1-4
MHF 5107	Set Theory	3
MHF 5306	Mathematical Logic	3
MTG 5217	Foundations of Geometry	3
MTG 5316	General Topology	3
STA 5348	Bayesian Data Analysis	3
STA 5666	Statistical Quality Control	3

Total Credits Required: 30