

## DEPARTMENT OF MATHEMATICS AND STATISTICS

### Graduate Program Contact Information:

Department of Mathematics and Statistics  
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Stats Tel: [305-348-2745](tel:305-348-2745)  
Fax: 305-348-6158

### APPLICATION PROCEDURES

Prospective candidates submit an application for admission into the graduate program online, *steps to apply and deadlines can be found on:* <https://admissions.fiu.edu/how-to-apply/graduate-applicant/>

- Applicants should arrange to have official transcripts from all colleges and/or universities attended and test scores (GRE, TOEFL/IELTS/duolingo, if a foreign student) sent to the Admissions Office.
- Transcripts in a language other than English must be translated and certified.
- Three letters of reference should be submitted.
- There is a \$30.00 application fee.

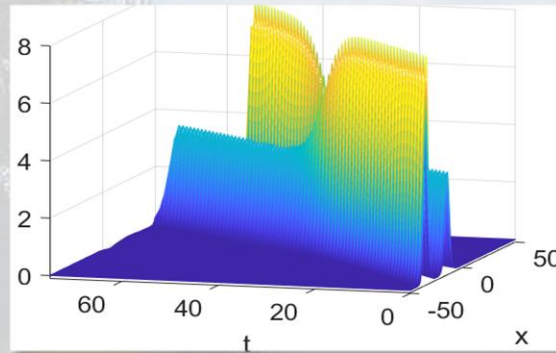
Florida International University has a rolling admissions policy.

*The deadline for application for PhD /MS programs (in the Dept. of Math & Stats) for Fall admissions is in January of each year, though it is currently flexible due to the pandemic situation.*

## MASTER OF SCIENCE IN MATHEMATICS

For the Masters in Math program admission a student should have:

- a Bachelor's degree in a relevant discipline (from an accredited college or university).
- GPA 3.0 average or higher.
- GRE (waived in 2021).
- Three letters of recommendation.
- Personal Statement.
- International graduate student applicants (whose native language is not English) are required to have a TOEFL score of 80 or IELTS of 6.5, or equivalent.



### Masters in Math Degree Options

There are two options a student can follow.

- 1) a completion of a minimum of 24 credits of graduate course work and a masters project for another 6 credits under the direction of a faculty member, thus, totaling of 30 credits.
- 2) a completion of 30 credit hours including electives as needed for students future career interests.

### Risk Analysis and Management Track :

This track consists of 12 one-semester three credit graduate courses (36 credits), including one optional elective during the last semester of the program. This degree in intensive mode can be completed in 12 months (full time students would take four courses per semester to complete the program in three semesters), or at a regular pace ,or part-time as desired.

## MASTER OF SCIENCE IN STATISTICS

For the Masters in Stats program admission a student should have:

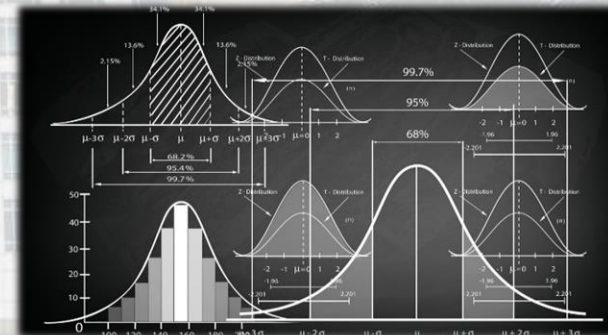
- a Bachelor's degree in a relevant discipline (from an accredited college or university).
- GPA 3.0 average or higher.
- GRE (waived in 2021)
- Three letters of recommendation.
- Personal Statement.
- International graduate student applicants (whose native language is not English) are required to have a TOEFL score of 80 or IELTS of 6.5, or equivalent.



### Masters in Stats Degree Options

There are two options a student can follow:

- 1) thesis option: a completion of 36 credit hours, including 6 core courses, 4 elective courses or an area of concentration, and a master thesis.
- 2) comprehensive option: a completion of 36 credit hours, including 6 core courses, 6 electives and a comprehensive examination.



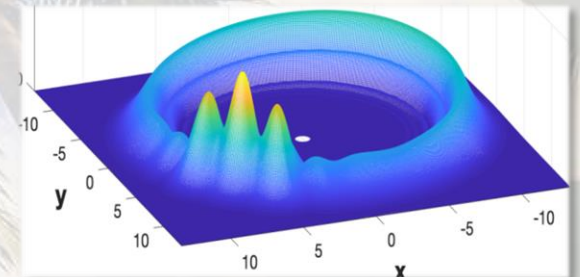
## PhD in APPLIED MATH

For the PhD in Applied Math program admission a student should have:

- a Bachelor's or a graduate degree in Math, Stats or another quantitative field (from an accredited college or university).
- Math and math-related classes showing applicants skills in math-related fields.
- GPA 3.0 average or higher (in the last degree).
- GRE (waived in 2021).
- Three letters of recommendation.
- Personal Statement connecting with goals in applied math and possible research areas.
- International graduate student applicants (whose native language is not English) are required to have a TOEFL score of 80 or IELTS of 6.5, or equivalent.

### Degree Requirements

1. Completing a total of 75 credits of coursework, including at least 15 of the PhD thesis research.
2. GPA 3.0 or higher in all required core courses
3. Cumulative average of 3.0 or higher in the 75 credits of coursework.
4. Successful completion of Qualifying Exams (2 out of 4 possible choices: Analysis, Diff. Equations, Numerical Analysis, Math Statistics)
5. Successful completion of the oral comprehensive exam (pre-candidacy).
6. Advancement to Candidacy (coursework, dissertation committee selection, passing of exams)
7. Original thesis research in mathematical sciences, submission of a dissertation.
8. Successful final oral PhD thesis defense.
9. Submission of ETD forms and dissertation.



Financial support available.  
For more information, please, visit :  
<https://case.fiu.edu/mathstat/>

# Mathematics



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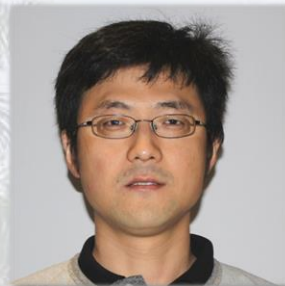
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# Mathematics



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Numerical Analysis



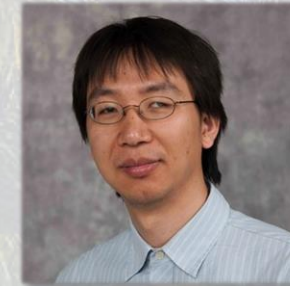
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# Statistics



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High Dimensional Data Analysis  
Model Selection  
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Inference  
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Reliability Analysis  
Goodness of Fit Testing  
Modeling Catastrophic Events



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model selection and model averaging  
for high-dimensional data, and statistical  
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Statistical Quality Control