

## MASTER OF SCIENCE IN MATHEMATICS

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

- a Bachelor's degree in a relevant discipline (from an accredited college or university).
- GPA 3.0 average or higher.
- Three letters of recommendation.
- CV and Personal Statement.
- International graduate applicants (whose native language is not English) are required to demonstrate: TOEFL score of 80/IELTS of 6.5/Duolingo 110, or equivalent,
- GRE (optional).

### Degree Options (for MS in Math)

There are two options a student can follow.

1. a completion of a minimum of 24 credits of graduate coursework and a master's project for another 6 credits under the direction of a faculty member, thus, totaling 30 credits.
2. a completion of 30 credit hours including electives as needed for students' future career interests.



### Two Tracks in MS available:

- **Mathematics (standard)**
- **Risk Analysis and Management (RAM)**

Both tracks consist of 30 credits; depending on the track - the core and elective courses differ according to speciality.

## PhD IN APPLIED MATHEMATICS

For the Ph.D. in Applied Math program admission a student should have the following:

- 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).
- Three letters of recommendation.
- CV and Personal Statement connecting with goals in applied math and possible research areas.
- International graduate applicants (whose native language is not English) are required to demonstrate: TOEFL score of 80/IELTS of 6.5/Duolingo 110, or equivalent.
- GRE (optional).

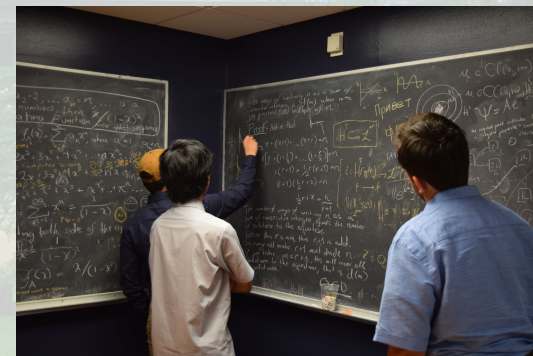
### Degree Requirements

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 6 possible choices: Analysis, Diff. Equations, Topology/Geometry, Numerical Analysis, Algebra/Lin Algebra, Math Stats)
5. Successful completion of the oral comprehensive exam (pre-candidacy).
6. Advancement to Candidacy (coursework, dissertation committee selection, passing of qualifying 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

## MASTER OF SCIENCE IN STATISTICS

For the Masters in Statistics program admission a student should have the following:

- a Bachelor's degree in a relevant discipline (from an accredited college or university).
- GPA 3.0 average or higher.
- Three letters of recommendation.
- CV and Personal Statement.
- International graduate applicants (whose native language is not English) are required to demonstrate: TOEFL score of 80/IELTS of 6.5/Duolingo 110, or equivalent.
- GRE (optional).



### Masters in Statistic Degree Options

There are two options a student can follow:

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

### More details on graduate applications:

◇ Check List:

[https://admissions.fiu.edu/\\_assets/docs/graduate-admissions-checklist.pdf](https://admissions.fiu.edu/_assets/docs/graduate-admissions-checklist.pdf)

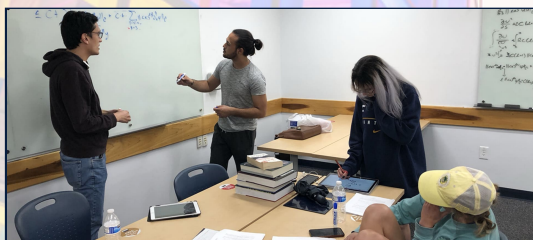
◇ Graduate school admission requirements:

<https://admissions.fiu.edu/how-to-apply/graduate-applicant/admission-requirements/>



# Highlights

- Financial support available
- Cutting-edge research
- Electives from multiple disciplines
- Internship opportunities
- Rich cultural environment
- Diverse student body & faculty
- Pleasant year-round climate
- World-class international city
- Amazing natural attractions
- Sub-tropical waters and beaches



## PhD Research Areas

- Harmonic/Fourier Analysis
- Nonlinear Differential Equations
- Stochastic Analysis & Diff Eq
- Fluid Dynamics
- Dynamical Systems
- Mathematical Physics
- Inverse Problems
- Numerical Analysis
- Scientific Computing
- Environmental Finance
- Financial Engineering
- Differential Geometry
- Topology
- Graph Theory
- Mathematical Biology

## Administration



**Louis Tebou**  
*Department Chair*  
[teboul@fiu.edu](mailto:teboul@fiu.edu)

**Hakima Bessaih**  
*Graduate Program Director*  
(Ph.D, MS Math)  
[hbessaih@fiu.edu](mailto:hbessaih@fiu.edu)



**B. M. Golam Kibria**  
*Assistant Graduate Program Director*  
(MS Statistics)  
[kibriag@fiu.edu](mailto:kibriag@fiu.edu)

### Mathematics Research Faculty

Hakima Bessaih  
Laura De Carli  
Julian Edward  
Eddie Fuller  
Gueo Grantcharov  
Kai Huang  
Xiaosheng Li  
Hamid Meziani  
Philippe Rukimbria  
Yuanchang Sun  
Louis Tebou  
Wei Wang

Walter Carballosa  
Tedi Draghici  
Anna Fino  
Ciprian Gal  
Yanqiu Guo  
Bao Qin Li  
Thomas Leness  
Svetlana Roudenko  
Indranil SenGupta  
Theodore Tachim  
Enrique Villamor  
Zhongming Wang

### Statistics Research Faculty

Florence George  
B.M. Golam Kibria  
Hassan Zahedi

Sneh Gulati  
Wensong Wu



## Graduate Programs

### DEPARTMENT OF MATHEMATICS AND STATISTICS

11200 SW 8th Street, DM 430 Miami, FL 33199

Main Tel: **305-348-3769**

Math Tel: **305-348-2743**

Stats 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/>

- Fill in the standard FIU application form (electronic).
- 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. For Fall PhD admissions (Dept of Math & Stats) the target deadline date is January 5.

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