Welcome from your graduate coordinator

Jean A. Larson
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I. Key people for your academic program

You

Your advisor and your committee, when you have them

Your professors, including your faculty mentor

Your fellow graduate students, including your graduate student mentor

Graduate coordinator: Jean A. Larson

Graduate secretary: Stacie Austin

Office manager: Margaret Somers

Other department staff: Connie Doby, Sandy Gagnon

The coordinator of the course for which you are a TA

Supervisor of TAs: Kevin Knudsen

II. Our Programs

MS in Mathematics (exam option)

Sample Schedule

MS	Fall	Spring	Summer
Year 1	MAS 5311 MAA 5228 MTG 5316	MAS 5312 MAA 5229 MTG 5317	MAT 6905
Year 2	MAS 6331 MTG 6346 6000+ elective	MAS 6332 MTG 6347 6000+ elective	

Key points: Pass First Year Exams, take 18 credits of 6000+ courses (but independent study does not count); if continuing to PhD, take 2 sequences leading to PhD exams, here algebra and topology. The degree is sometimes called an "incidental master's" for people in the PhD program.

II. Our Programs

MS in Applied Mathematics (exam option)

Sample Schedule

MS	Fall	Spring	Summer
Year 1	MAS 5311 MAA 5228 MAD 6406	MAS 5312 MAA 5229 MAD 6407	MAT 6905
Year 2	MAA 6616 COP 5405 STA 6236	MAA 6617 MAP 6208 STA 6237	

Key points: Pass First Year Exams, design package for approval by graduate committee which combines 6000+ math courses with electives in allied fields. In this example, Analysis of Algorithms in computer science is combined with theoretical statistics, optimization and numerical analysis, and two sequences leading to PhD Exams are included.

II. Our Programs
MST

Sample Schedule

MST	Fall	Spring	Summer
Year 1	MAS 5311 MAD 6406 sci minor	MAS 5312 MAD 6407 ed elective	MAP 5304 MAE 6943
Year 2	MAA 5228 ed elective sci minor	MAA 5229 ed elective math elective	MAE 6943

Key points: Twenty-four credits of 5000+ mathematics, three 5000+ education courses in three different categories chosen in consultation with the graduate coordinator, two semesters of internship in college teaching, and a six credit minor in another science.

II. Our Programs
PhD

Overview of the PhD Program

- Knowledge of mathematics
  - Foundational:
    - First year **algebra**, **analysis**, topology
    - (numerical linear algebra, numerical analysis)
    - First Year Exam - pass 3 of 6 parts
  - Breadth: 21 credits in distribution requirements
  - Extent: 36 credits 6000+ courses, 90 credits overall
  - Depth: Qualifying exam (written part + oral part)
- Original research (the dissertation)
  - Qualifying exam
  - Final oral exam

II. Our Programs

PhD Milestones

First year

- 5000 algebra/analysis + elective courses, first year exams

Second year

- Form a doctoral committee, pass approved PhD exam
- Finish master's degree by December following second year

Third year

- Develop thesis topic
- Pass language exam, oral part of qualifying exam

Fourth year

- Continue research
- Complete breadth part of distribution requirement

Fifth year

- Complete research and write up dissertation
- Apply for a job and graduate

III. Research areas

Algebra/Number Theory/Combinatorics

Analysis/Functional Analysis/Probability

Applied Math: Bio Math, Imaging, Optimization, PDE

Topology/Foundations: Dynamical Systems, Logic

III. Research areas

Algebra: Crew, Keating, Sin, Turull

III. Research areas

Number Theory: Alladi, Berkovich, Garvan

III. Research areas

Combinatorics: Bona, Vatter, Vince

III. Research areas

Analysis: Brooks, Chen, Jury, McCullough, Rao, Robinson, Shen, Summers

III. Research areas

Biomath: Keesling, Martcheva, Pilyugin

III. Research areas

Numerical Analysis/Optimization: Hager, Mair

III. Research areas

Imaging, Data Analysis, PDEs: Chen, Hager, Zhang

III. Research areas

Topology/geometry/dynamical systems: Block, Boyland, Bubenik, Dranishnikov, Groisser, Keesling, King, Knudsen, Rudyak

III. Research areas

Logic/set theory: Cenzer, Larson, Porter, Zapletal

IV. Rhythm of the year

- Fall semester
  - First year and PhD exams offered prior to start of the semester
  - Year long sequences begin
  - Number of courses and students taught at a max
  - Multiple long weekends:
    - Labor Day
    - Homecoming (Veteran's day)
    - Thanksgiving
  - Fill out progress form around November
  - Holiday party at end of the term
  - Finals end in mid-December

IV. Rhythm of the year

Spring semester

- Classes resume January 5, 2016
- Some year long sequences may not continue
- First Year Exams before/early in semester
- PhD written exams only by petition
- Graduate committee interviews starting second week of classes
- Holidays concentrated in spring break week
- Spring Gala at the end of the spring semester with teaching awards, recognition of student leaders, lists of graduate degrees awarded
- Classes end April 20, finals end April 29.

IV. Rhythm of the year

Summer – two short sessions

- First Year/PhD exams offered before/early in summer A
- Most students do individual work:
  MAT 6905, MAT 6910, MAT 7979, MAT 7980
- Many members of the department travel
- Number of courses offered is at a minimum
- TA support varies
- Having a master's degree helps for summer teaching

V. Student groups

SIAM Gators: Current president Omar Saucedo

V. Student groups

Graduate Math Association (GMA) Officers:

V. Student groups

GMA Colloquium