

Mathematics Ph.D.

Program Requirements

Catalog Department Overview # (<https://catalog.uaf.edu/academic-departments/mathematics-statistics/>)

Minimum Requirements for Mathematics Ph.D.: 36 credits

Code	Title	Credits
General University Requirements		
Complete the graduate general university requirements. (https://catalog.uaf.edu/phd/#gurphdtext)		
Ph.D. Degree Requirements		
Complete the Ph.D. degree requirements. (https://catalog.uaf.edu/phd/#phdrequirementstext)		18
As part of the Ph.D. requirements, complete the following:		
MATH F699	Thesis (18 credits)	
Mathematics Program Requirements		
MATH F692	Seminar ¹	1-6
Pass the Ph.D. qualifying exam.		
Total Credits		19-24

¹ One or more credit(s) of MATH F692 during the anticipated final semester of enrollment for the degree. A graduate advisory committee may choose to waive the requirement if its purpose has been met by other experiences.

Admission Requirements

Catalog Department Overview # (<https://catalog.uaf.edu/academic-departments/mathematics-statistics/>)

Complete the following admission requirements:

- Submit three letters of recommendation addressing the applicant's educational background, mathematical ability, and research and teaching potential.
- Submit undergraduate and, if applicable, graduate transcripts.
- Submit a resume and written statement of goals.
- Either submit transcripts indicating the completion of a master's degree in mathematics or a related area or complete all the requirements for the M.S. degree in mathematics, including a project or thesis which initiates study of the Ph.D. research area.

Note: For admission to the graduate school, students who are nonnative speakers of English are required to submit either TOEFL or IELTS scores. The GRE mathematics subject test score is not required, but we strongly recommend submitting the score as part of the application.

Learning Outcomes

Catalog Department Overview # (<https://catalog.uaf.edu/academic-departments/mathematics-statistics/>)

Learning Outcomes are measurable statements that describe knowledge or skills achieved by students upon completion of the program.

Students graduating from this program will be able to:

- Attain a level of technical ability and knowledge to carry out independent mathematical research, to succeed as educators in a classroom setting, and to achieve other mathematical professional goals
- Master foundational mathematical concepts and learn in-depth the area of the dissertation
- Demonstrate communication and presentation skills consistent with professional standards
- Obtain employment in their chosen field, or otherwise meet personal objectives for completing the degree