

Certificate in Mathematical Foundations of Data Analytics

The graduate certificate in mathematical foundations of data analytics is designed to provide training in data analytics to individuals who are currently working, as well as current graduate students in mathematics, statistics, physics, engineering, etc.

Admission

New graduate students: Applicants to the certificate in MFDA are required to meet Graduate School requirements for nondegree admission. The graduate certificate should be selected as the intended program in the Graduate School application.

Current WSU graduate students: To apply for the certificate program, submit the Graduate School's Declaration of Intent to Pursue a Graduate Certificate form located on the Graduate School's webpage. With departmental approval, the student may then be admitted to the certificate program. All Graduate School and departmental admission requirements apply. International students may enroll in the certificate program but must ensure it complies with their visa requirements. Students should contact the office of graduate studies in mathematics to inform it of their intent to enroll in the program.

Program Requirements

The certificate in MFDA consists of 15 credit hours. Six (6) of the credit hours are composed of two required courses. The remaining 9 credit hours are satisfied by completing elective courses. In addition to these requirements, students must meet the Graduate School's requirements (<http://catalog.wichita.edu/graduate/academic-information/types-programs-courses/certificate-residency-badge-programs/>) in order to earn this certificate.

Course	Title	Hours
Required Courses		
MATH 746	Introduction to Data Analytics	3
MATH 802	Data Analytics Capstone	3
Electives		
Select 9 credit hours from the following		9
MATH 553	Mathematical Models ¹	
PHYS 730	Computational Methods for Physics ¹	
MATH 751	Numerical Linear Algebra	
STAT 763	Applied Regression Analysis	
STAT 764	Analysis of Variance	
STAT 774	Statistical Computing I	
STAT 776	Applied Statistical Methods II	
PHYS 816	Methods in Experimental Physics	
Total Credit Hours		15

¹ Only one of these courses may be counted toward completion of the certificate program.