B.S. in Applied Mathematics

A Mathematics Degree for Real-World Professionals

The amount of data across all industries is increasing exponentially. As a result, organizations need skilled analysts to interpret data so that leaders can make informed decisions that benefit clients, improve processes and increase profit. In WilmU's Applied Mathematics degree program, you'll develop the advanced mathematics and technical skill sets needed to gather and analyze data to solve complex real-world problems. With a choice of two concentrations and multiple certificates embedded into this applied math degree, it's a valuable credential you can customize to meet your specific career goals.

An Interdisciplinary Program That Emphasizes Application Over Theory

While some math degree programs dive deeply into advanced mathematics theory, WilmU's program prepares graduates for the workforce by focusing on solid foundational skills in mathematics, statistics, analysis and communication. Integrating curriculum taught by WilmU's Mathematics, Business and Technology faculty — experts who apply these concepts in their own careers — this well-rounded STEM program uses project-based learning, coupled with co-ops/internships, to help students develop skills and apply their knowledge in context.

Align Your Degree to Your Career Goals

Choose from two concentrations, each with multiple embedded certificates.

- **Data Visualization** focuses on applied predictive modeling, forecasting, data mining, data visualization and machine learning. This concentration incorporates five business analytics courses and includes three embedded certificates: Data Analytics, Data Visualization and Applied Business Statistics.
- **Programming** focuses on data warehousing, programming, artificial intelligence and machine learning. This concentration incorporates six computer science courses and includes two certificates: Data Analytics and Java Programming or Microsoft .NET Applications Development.

An Affordable Applied Mathematics Degree With Online Options

Choose your preferred format. The 100% online option allows you to advance your education while working full time — or learning at a distance — so you can continue to earn while you learn. There is also a face-to-face synchronous option for those who prefer face-to-face instruction.

Get started today at wilmu.edu/Apply.

40 courses | 120 total credits
Finish your Applied Mathematics degree faster by transferring credits.

$1,257
per course
Cost of a typical 3-credit course

Classes start every 8 weeks.

WILMINGTON UNIVERSITY™

B.S. in Applied Mathematics

General Education Requirements (39 Credits)

☐ CTA 326	Integrating Excel Into Business Problem-Solving	☐ MAT 205	Introductory Survey of Mathematics	
☐ ECO 101	Economics 1	☐ Natural Science (3-4 credits)		
☐ ENG 121	English Composition I	☐ HIS 381	Contemporary Global Issues	
		OR ☐ POL 300	American Politics	
☐ ENG 122	English Composition II	☐ PHI 100	Critical Thinking	
☐ ENG 131	Public Speaking	☐ Humanities Elective		
☐ ENG 310	Research Writing	☐ Humanities Elective		
☐ PSY 101	Introduction to Psychology			
OR ☐ SOC 101	Introduction to Sociology			

Program Core (39 Credits)

☐ MAT 200	Precalculus		☐ MAT 312	Business Statistics	
☐ MAT 310	Calculus 1		☐ MAT 313	Experimental Design	✅
☐ MAT 311	Calculus 2		☐ CSC 402	Data Analysis Storytelling	✅
☐ MAT 315	Calculus 3	✅	☐ CSC 414	Ethics for AI and Data Analytics	✅
☐ MAT 322	Linear Algebra With Applications	✅	☐ BBA 460	R for Business Analytics	✅
☐ MAT 320	Finite Mathematics	✅	☐ MAT 330	Discrete Mathematics	✅
☐ MAT 490	Experiential Learning in Applied Mathematics				✅
OR ☐ MAT 491	Internship in Applied Mathematics				✅

Concentration Option: Programming (33 credits)

☐ CSC 315	Fundamentals of Object-Oriented Programming	✅
☐ CSC 400	Object-Oriented System Analysis and Design	✅
☐ CSC 325	Java Programming 1	✅
OR ☐ CSC 310	Microsoft.NET 1	✅
☐ CSC 335	Java Programming 2	✅
OR ☐ CSC 311	Microsoft.NET 2	✅
☐ CSC 340	JavaScript 1	✅
☐ CSC 345	Database Foundations	✅
☐ CSC 407	Data Analysis for Organizations	✅
☐ CSC 419	Python for Data Science	✅
☐ CSC 420	Introduction to Artificial Intelligence	✅
☐ CSC 430	Machine Learning Principles	✅
☐ ISM 420	Data Modeling and Warehousing	✅
☐ Free Elective (9 credits) (FYE if required)		

Concentration Option: Data Visualization (33 credits)

☐ BBA 301	Introduction to Business Analytics	✅
☐ BBA 305	Advanced Excel for Business Analytics	✅
☐ BBA 350	Predictive Analytics	✅
☐ BBA 360	Forecasting for Business Analytics	✅
☐ BBA 420	Data Mining	✅
☐ BBA 430	Big Data and Visualization	✅
☐ BBA 450	Advanced Visualization	✅
☐ GIS 300	Geographic Information Systems Science and Technology	✅
☐ CSC 345	Database Foundations	✅
☐ CSC 407	Data Analysis for Organizations	✅
☐ CSC 419	Python for Data Science	✅