

STATISTICS MINOR

Students must complete all coursework including satisfaction of the University General Education Requirements (<http://bulletins.wayne.edu/undergraduate/general-information/general-education/>) and the College of Liberal Arts and Sciences Group Requirements (<http://bulletins.wayne.edu/undergraduate/college-liberal-arts-sciences/bachelors-degree-requirements/>), as well as the departmental minor requirements cited below. All coursework must be completed in accordance with the regulations of the University (<http://bulletins.wayne.edu/undergraduate/general-information/academic-regulations/>) and the College (<http://bulletins.wayne.edu/undergraduate/college-liberal-arts-sciences/academic-regulations/>) governing undergraduate scholarship and degrees.

It is each student's responsibility to learn the requirements, policies, and procedures governing the program the student is following and to act accordingly. Students should consult the Department of Mathematics' undergraduate academic advisor on a regular basis. Although the advisor will provide assistance, the responsibility for fulfilling degree requirements remains with the student.

Minor Requirements

Residency: A minimum of 7 credits of minor requirements at or above MAT or STA 5030 must be taken at Wayne State University. This includes courses that are considered equivalent to the Mathematics Department's MAT or STA courses and that are approved by the Mathematics Department to meet a major requirement.

Minimum Grade Requirements: The following grade requirements must be satisfied in the minor.

- C- or better in all required coursework.
- C or better average for all coursework.

Notes:

1. STA courses previously designated by MAT (for example STA 2210 was previously labelled MAT 2210) are the same courses and meet the same requirements.
2. Although this policy is found in the College of Liberal Arts and Sciences (CLAS) requirements, it is worth noting that if a student is majoring in a CLAS major, they must obtain at least one minor that has 3 unique courses from the major. This means that at least 3 courses used to complete requirements in the minor must not be used to complete requirements in the major.
3. The required courses listed are the minimum that students should complete. Students are encouraged to take more courses in order to strengthen their background and enhance their prospects for employment and/or graduate school.

Course Requirements

Code	Title	Credits
Foundational mathematics		11-12
MAT 2010	Calculus I	
MAT 2020	Calculus II	
Select one of the following:		
MAT 2250	Elementary Linear Algebra	
MAT 2150	Differential Equations and Matrix Algebra	
Statistics courses		10-12
Select one of the following:		

STA 2210	Probability and Statistics
BE 2100	Basic Engineering III: Probability and Statistics in Engineering
ECO 5100	Introductory Statistics and Econometrics
PH 3200	Introduction to Biostatistics
TIS 3400	Quantitative Methods II: Statistical Methods
Select at least two of the following:	
STA 5030	Statistical Computing and Data Analysis
MAT 5540	Topological Data Analysis
MAT 5700	Introduction to Probability Theory
STA 5800	Introduction to Mathematical Statistics
STA 5820	Introduction to Data Science
STA 5830	Applied Time Series
MAT 5890	Special Topics in Mathematics (Topic must be approved by the Department of Mathematics.)
STA 6830	Design of Experiments
STA 6840	Applied Regression Analysis
TOTAL	21-24

Students should be aware that MAT 2150, MAT 5700, MAT 5890 and STA 5800, and STA 6840 require MAT 2030 as a prerequisite.