B.S in Mathematics
with Statistics Concentration

Name: _____   Minor: _____   From AY 2024-2025

Core Courses	Semester/Year	Grade
ITSC 1212+L- Introduction to Computer ScienceI		
MATH 1241- Calculus I		
MATH 1242- Calculus II		
MATH 2164- Matrices and Linear Algebra		
MATH 2241- Calculus III		
MATH 2242- Calculus IV		
MATH 2688- Mathematics Awareness Seminar		
MATH 3689- Senior project (or honors MATH 3790/3791)		

Concentration Courses	Semester/Year	Grade
MATH 3141- Advanced Calculus of One Variable		
STAT 3110- Applied Regression		
STAT 3122- Probability and Statistics I		
STAT 3123- Probability and Statistics II		
STAT 3160- Applied Multivariate Analysis		

Restricted Elective Courses: select three from STAT 3140, 3150, 4116, 4123, 4124.

Course	Semester/Year	Grade
1)		
2)		
3)		

Restricted Technical Elective Courses (10-12 credits): see the approved list below.

Course	Semester/Year	Grade
1)		
2)		
3)		
4)		

Minor/Related Work: 18 hours

_____	_____	_____
_____	_____	_____

Suggested minors: Artificial Intelligence, Bioinformatics and Genomics, Computer Engineering, Data Science. Some credits from the Restricted Technical Electives may double-count for the minor.

Check DegreeWorks for General Education and College's Foreign Language Requirements. A minimum of 120 credits are required for graduation.

Restricted Technical Elective Courses: approved list

The categories below are only to suggest concentration groups. Courses in these groups form the approved list. Students can choose from different groups.

Computer Science group:

ITSC 1213: Introduction to Computer Science II
ITSC 2214: Data Structures and Algorithms

And one from the following:
ITCS 3153: Introduction to Artificial Intelligence
ITCS 3160: Database Design and Implementation
ITCS 3162: Introduction to Data Mining 3
ITCS 3190: Cloud Computing for Data Analysis
ECGR 4115: Convex Optimization and AI Applications

Bioinformatics group:

ITSC 1213: Introduction to Computer Science II
BINF 2111: Introduction to Bioinformatics Computing
BINF 3121: Statistics for Bioinformatics

Econometrics group:

ECON 2101: Principles of Economics - Macro
ECON 2102: Principles of Economics - Micro
INFO 2130: Introduction to Business Computing
ECON 3112: Econometrics