

Statistics

Duration: 4 Years

★ **Minimum Credits:** 120

BS

Statistics (BS) Curriculum

Fall Semester Year 1

Course	Title/Desc	Credit
MATH1061	Calculus I (C- min)	4
ENGL1001	English Composition (C- min)	3
BoK: SCE	FOREIGN LANGUAGE	3 - 5
Free	ELECTIVE or MATH2010	0 - 2
Electives		
	A&S FRESHMAN SEMINAR: list provided each semester by advising office	3

Spring Semester Year 1

Course	Title/Desc	Credit
MATH1062	Calculus II (C- min)	4
BoK: SS	SOCIAL SCIENCE	3
BoK: NS	NATURAL SCIENCE	3
BoK: SCE	FOREIGN LANGUAGE	3 - 5
PD1170	Career Readiness For the Liberal Arts	1

Fall Semester Year 2

Course	Title/Desc	Credit
MATH2063	Multivariable Calculus (C- min)	4
PD2070	Professionalism and Purpose	3
MATH2076	Linear Algebra (C- min)	3
STAT2037	Probability and Statistics I (C- min)	3
	FOREIGN LANGUAGE or ELECTIVE	3

Spring Semester Year 2

Course	Title/Desc	Credit
STAT3038	Probability and Statistics II (C- min)	3
STAT3041	Introduction to Data Science (C- min)	3
ENGL2089	Intermediate Composition	3
BoK:	HUMANITIES or FINE ARTS	3
FA,HU		
	FOREIGN LANGUAGE or ELECTIVE	3

Fall Semester Year 3

Course	Title/Desc	Credit
STAT4131	Applied Regression Analysis (C- min)	3
STAT4121	Mathematical Statistics I (C- min)	3
STAT4041	Bayesian Data Science (C- min)	3
BoK: NS	NATURAL SCIENCE	3
Free	ELECTIVE	3
Electives		

Spring Semester Year 3

Course	Title/Desc	Credit
STAT5132	Design and Analysis of Experiments (C- min)	3
	(STAT-BS) Statistics Electives (C- min)	3
Free	ELECTIVE/EXPERIENTIAL LEARNING	3
Electives		
BoK: HP	HISTORICAL PERSPECTIVE	3
BoK: DEI	CONTEMPORARY TOPICS	3

Fall Semester Year 4

Course	Title/Desc	Credit
	SCIENTIFIC DISC 1: complete 6 hrs in 1 discipline. see list below.	3
Free	ELECTIVE or MATH4010	3
Electives		
BoK: SS	SOCIAL SCIENCE	3
BoK: HP	HISTORY (HIST)	3
	(STAT-BS) Statistics Electives (C- min)	3

Spring Semester Year 4

Course	Title/Desc	Credit
MATH	MATH5001 or MATH5002 Capstone (C- min)	3
	SCIENTIFIC DISC 2: complete 6 hrs in 1 discipline. see list below.	3
PD4070	Professionalism & The Common Good	1
Free	ELECTIVE	3 - 6
Electives		
	(STAT-BS) Statistics Electives (C- min)	3

(STAT-BS) SCIENTIFIC DISCIPLINE

Course	Title/Desc	Credit
BIOL1081	Biology I: Molecules, Cells, and the Foundation of Life	3
BIOL1082	Biology II: Evolution, Physiology, and Ecology	3
CHEM1040	General Chemistry I	4
CHEM1041	General Chemistry II	4
CS1021C	Computer Science 1	4
CS2028C	Data Structures	4
ECON2020	Intermediate Microeconomics	3
ECON2030	Intermediate Macroeconomics	3
GEOG5171C	Introduction to Geographic Information Sciences	3
GEOG5181C	Intermediate GIS	3
GEOG6071C	Introduction to Geographic Information Sciences	3
GEOG6081C	Intermediate GIS	3
PHYS2005	College Physics I (Calculus-based course for physics majors)	4
PHYS2006	College Physics II (Calculus-based course for physics majors)	4
PHYS2001	College Physics I (Calculus-based) (C- min)	4
PHYS2002	College Physics II (Calculus-based) (C- min)	4

(STAT-BS) Statistics Electives

Course	Title/Desc	Credit
MATH3001	Introduction to Abstract Math (C- min)	3
MATH4008	Introduction to Probability (C- min)	3
MATH4009	Financial Mathematics for Actuarial Sciences (C- min)	3
STAT4021	Special Topics in Statistics (C- min)	3
MATH5106	Numerical Analysis (C- min)	3
MATH5108	Applied Probability and Stochastic Processes (C- min)	3
STAT5122	Mathematical Statistics II (C- min)	3
STAT5141	Time Series (C- min)	3
STAT5142	Survival Analysis and Logistic Regression (C- min)	3
STAT5143	Applied Bayesian Analysis (C- min)	3
STAT5144	Nonparametric Statistics (C- min)	3
STAT5145	Statistical Computing (C- min)	3
STAT5151	Statistical Consulting (C- min)	3
STAT5171	Statistics and Machine Learning (C- min)	3

★ This is the typical minimum number of credit hours students must complete.

The minimum number of credit hours can vary based on previously earned credits, and/or the level of placement into required coursework.