

APPLIED STATISTICS MINOR COURSE LISTS

For the most current lists of approved courses in these categories, please consult the Data Scholarship Program.

Introductory Statistics

Code	Title	Credit Hours
3, 4, or 5 on the Advanced Placement Statistics exam		
ANTH 4683		3
ANTH 4713	Statistical Concepts in Anthropology	3
BIOL 2913	Intro to Quantitative Biology	3
COMM 2513	Introduction to Statistics	3
ECON 2843	Elements of Statistics	3
GEOG 3924	Quantitative Methods	4
METR 4313	Statistical Meteorology	3
P SC 2013	Introduction to Political Analysis	3
PSY 2003	Understanding Statistics	3
SOC/P SC 3123	Social Statistics	3
S WK 2223	Statistics for Social Work	3

Intermediate Statistics

Code	Title	Credit Hours
ECON 4223	Econometric Analysis	3
MATH 4743	Introduction to Mathematical Statistics	3
MATH 4773	Applied Regression Analysis	3
PSY 3003	Advanced Undergraduate Statistics	3

Experimental Design/Research Methods/Linear Algebra

Code	Title	Credit Hours
BIOL 4913	Quantitative Biology	3
MATH 3333	Linear Algebra I	3
PSY 3114	Research Methods: Applications and Experimental Design	4
SOC 3133	Methods of Social Research	3
S WK 4083	Undergraduate Social Work Research Methods I	3
S WK 4093	Undergraduate Social Work Research Methods II	3

Statistical Computing

Code	Title	Credit Hours
ASTR 3190	Topics in Astronomy (topic: Introduction to Research)	3
C S 1213	Programming for Non-Majors with Python	3
C S 1313	Programming for Non-Majors with C	3
C S 1321	Java for Programmers	1
C S 1323	Introduction to Computer Programming for Programmers	3

C S 1324	Introduction to Computer Programming for Non-Programmers	4
LIS 4643	Introduction to Data Analytics	3
MBIO/PBIO 4783	Introduction to Python Programming for Data Analytics	3
METR 1313	Introduction to Programming for Meteorology	3
PSY 2503	Computing for Behavioral Sciences	3

Applied Statistics Experience or Advanced Elective

Most of the advanced electives require instructor permission and many disciplinary-specific prerequisites that should be met or specifically discussed with the instructor prior to enrollment. Upon or before enrollment, students will need to identify a faculty member affiliated with the Data Scholarship Program who can supervise their internship, independent study, or research experience.

To fulfill this requirement, the course must include a data-related project with a written report. Students will submit a DSP Project Experience Course Approval Form for approval before the end of the free add/drop period. Alternatively, an additional course can be taken from among listed courses in the previous categories AND that includes a substantial project that includes data analysis, visualization, and interpretation and a discussion of any ethical considerations with respect to the topic and data. In this case, students will submit a DSP Project Experience Course Approval Form to describe the project in the course.

Code	Title	Credit Hours
BIOL 4913	Quantitative Biology	3
BIOL 4943	Multivariate Analysis	3
CAS 4630	CAS Internship	3
CAS 4990	Independent Study (with a DSP faculty affiliate or with an approved, applied statistical research component)	3
DSP 4983	Data Analytics and Applied Statistics Research Experience	3
GIS 4923	Spatial Statistics	3
MATH 4743	Introduction to Mathematical Statistics	3
MATH 4803	Topics in Mathematics	3
MATH 4753	Applied Statistical Methods	3
MATH 4773	Applied Regression Analysis	3
MATH 4793	Advanced Applied Statistics	3
PSY 4023	Psychological Test and Measurements	3