

# APPLIED STATISTICS MINOR ELECTIVES

## Approved Electives

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 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 3923	Quantitative Methods	3
METR 4313	Statistical Meteorology	3
PHCH 3313	Health Data and Statistics	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
BIOL 4783	Introduction to Python Programming for Data Analytics	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
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	Measurement in Psychology	3