Statistics
Prerequisites: All statistics courses have prerequisites. Thus, to be eligible to enroll in a statistics course, a student must have received a grade of C or higher in the HSU courses listed as prerequisites. In some lower division courses, a student may also satisfy the prerequisites with an appropriate score on a mathematics placement exam.

Statistics courses are also under other departmental prefixes. See BA 332, or PSYC 241, 478, 588.

LOWER DIVISION
STAT 106. Introduction to Statistics for the Health Sciences (3) FS. Descriptive methods, elementary probability, binomial and normal distributions, confidence intervals, test of hypothesis, regression, ANOVA; computer methods using Minitab. [Prereq: math remediation completed or not required. Weekly: 2 hrs lect, 2 hrs lab. GE.]

STAT 108. Elementary Statistics (4) FS. Probability, relative frequency, measure of central tendency, variation, correlation; binomial and normal distributions; testing of hypotheses and estimation; linear regression. [Prereq: math remediation completed or not required. Weekly: 3 hrs lect, 2 hrs activ. GE.]

STAT 109. Introductory Biostatistics (4). Descriptive statistics, probability, random variables, discrete and continuous distributions, confidence intervals, contingency tests, regression and correlation, tests of hypothesis, analysis of variance. Emphasis: methods and applications used in the biological and natural resource sciences. [Prereq: MATH 113 or MATH 115 [may be concurrent with IA] or equivalent, or IA. Weekly: 3 hrs lect, 2 hrs activ. GE.]

STAT 280. Selected Topics in Statistics (1-3). Topics accessible to lower division students. [Prereq: IA, Lect/lab as appropriate. Rep.]

UPPER DIVISION

STAT 333. Linear Regression Models/ANOVA (4). Linear regression, analysis of variance, and other linear models applied to experimental and observational studies. Course emphasizes model formulation, assumptions, selection, and interpretation in both hypothesis-testing and descriptive contexts. [Prereq: MATH 113 or MATH 115 or equivalent, and STAT 108 or STAT 109. Weekly: 3 hrs lect, 2 hrs activ.]


STAT 406. Sampling Design & Analysis (4) F. Randomized sample surveys are used for natural resource monitoring, election polling, plant abundance estimation, and other purposes. This course presents approaches to sample selection and inference/estimation from sample data. [Prereq: STAT 109 or equivalent. Weekly: 3 hrs lect, 2 hrs activ.]


STAT 480. Selected Topics in Statistics (1-3). [Prereq: IA. Lect/lab as appropriate. Rep.]

STAT 499. Directed Study (5-3). Directed reading and conferences on special topics. [Prereq: IA. Rep.]

GRADUATE
STAT 504. Multivariate Statistics (4). Meets jointly with STAT 404. Students in STAT 504 are expected to carry out an additional project and report findings. [Prereq: STAT 109 or equivalent; matrix algebra highly recommended. Weekly: 3 hrs lect, 2 hrs activ.]

STAT 506. Sampling Design & Analysis (4) F. Meets jointly with STAT 406. Students in STAT 506 expected to carry out additional independent sampling project and report findings in class. [Prereq: STAT 109 or equivalent. Weekly: 3 hrs lect, 2 hrs lab.]

STAT 509. Experimental Design & Analysis (4). Meets jointly with STAT 409. Students in STAT 509 are expected to carry out an additional project and report findings. [Prereq: STAT 109. Weekly: 3 hrs lect, 2 hrs activ.]

STAT 510. Modern Statistical Modeling (4). Meets jointly with STAT 410. Students in STAT 510 are expected to carry out an additional project and report findings. [Prereq: STAT 109 or STAT 108. Weekly: 3 hrs lect, 2 hrs activ.]

STAT 580. Selected Topics in Statistics (1-3). [Prereq: IA. Lect/lab as appropriate. Rep.]


STAT 699. Independent Study (5-3). Directed reading and conferences in special topics. [Prereq: IA. Rep.]