410 Spanish Peninsular Literature. (3) (Prereq: SPAN 340) A survey of the major literary works of Spain from the Middle Ages through the twentieth century.

411 Spanish American Literature. (3) (Prereq: SPAN 340) A survey of the major literary works of Spanish American from pre-Columbian times through the twentieth century.

430 Spanish Linguistics. (3) (Prereq: SPAN 340) Study of modern Spanish with attention to the application of linguistic theory to the effective teaching of Spanish.


480 Capstone: Advanced Topics in Literature and Culture (3) (Prereq: SPAN 340 or equivalent) (Writing Intensive) Intensive study and analysis of a notable author or authors, literary trends or selected cultural topics. Emphasis may be placed on one or more of the various forms of artistic, cultural or linguistic expressions. Consolidate and further the skills developed in the Spanish major.

495 Internship. (3) (Prereq: permission of the Department Chair) This is a guided internship and requires 120 hours of outside work, a journal, and a final evaluation paper. Students must have permission of the Department Chair before applying for internship. Application for the internship can be obtained without receiving permission from the Department Chair. Students are professionally supervised in an organization while working 120 hours during a semester (12 weeks at 10 hours per week). The application states the course’s objective, requirements, and grading procedures. A contract between the student and the facility or organization where the internship will take place is signed by all parties – the student faculty supervisor, Chair of the Department, and the Dean of the Edwards College of Humanities and Fine Arts. During the internship period, students are required to maintain a journal. Interim and final reports are sent to the organization by the coordinator of internships.

STATISTICS (STAT)

201 Elementary Statistics. (3) (Prereq: MATH 130 or 130I) (Coreq: STAT 201L) An introductory course in the fundamentals of modern statistical methods. Topics include descriptive statistics, introduction to probability, random variables and sampling distribution, linear regression and correlation, testing of hypothesis concerning one and two population samples, confidence interval estimation of parameters and introduction to one way ANOVA (analysis of variance). Primarily for students in the field of science who need basic knowledge of statistics. Students may not receive credit for this course if credit has been received from any of the following courses: Business Administration 291, or PSYC 225. Three lecture hours per week. F, S, Su.

201L Elementary Statistics Computer Laboratory. (1) (Coreq: STAT 201) The computer laboratory involves exercises and/or lectures accompanying STAT 201. Students will use various statistical software. Laboratory exercises are designed to analyze data using appropriate tests/methods introduced in Statistics 201. F, S, Su.

315 Regression Analysis. (3) (Prereq: STAT 201, CBAD 291, or PSYC 225 with a grade of C or better) This course, which provides an in-depth coverage of regression analysis, is suitable as a second course in statistics. Topics include correlation, simple and multiple linear regression, method of least squares, model building and diagnostic checking, hypothesis testing, outliers, influence, multicollinearity, transformations, categorical regressors, and logistic regression. Examples and case studies are drawn from the sciences and business. Computers and statistical software will be used extensively. F, odd years.
316 Experimental Design. (3) (Prereq: STAT 201, CBAD 291, or PSYC 225 with a grade of C or better) Topics include, but are not limited to, analysis of variance, analysis of covariance, Fisher assumptions, randomization, basic factorial designs, complete block designs, two-way factorial designs, split plot/repeated measures designs, interaction, blocking, Latin squares, and multiple comparisons. Computers and statistical software will be used extensively. F.

317 Nonparametric Statistical Methods. (3) (Prereq: STAT 201, CBAD 291, or PSYC 225 with a grade of C or better) Topics include nonparametric analogues to t- and F-tests, ANOVA, regression and correlation, goodness of fit tests, tests of independence, and measures of association. Computers and statistical software will be used extensively. S, even years.

318 Applied Statistical Methods. (3) (Prereq: STAT 201, CBAD 291, or PSYC 225 with a grade of C or better) This course covers issues and methods for biological, marine and health sciences. Topics include study design, hypothesis testing, linear models, multivariate methods, analysis of rates and proportions, analysis of survival data, logistic regression, and log-linear models. Examples and case studies are drawn from biology, marine science and health-related fields. Computers and statistical software will be used extensively. S.

319 Categorical Data Analysis. (3) (Prereq: STAT 201, CBAD 291, or PSYC 225 with a grade of C or better) A first course in the analysis of discrete data including two-dimensional tables, the log linear model, goodness-of-fit of the model, measures of dependence, three and higher dimensional tables, hierarchical models, model selection, ordered categories, logit model, and introduction to Bayesian analysis of categorical data. Computers and statistical software will be used extensively. S, odd years.

320 Multivariate Data Analysis (3) (Prereq: STAT 201, CBAD 291, or PSYC 225 with a grade of C or better) In this course students will learn about statistical methods for data that contain more than one variable. Topics include description of multivariate data, dimension reduction using principal components analysis and factor analysis, case reduction using cluster analysis and other multivariate methods including multivariate analysis of variance. Inferential methods based on the assumption of multivariate normally distributed population will be discussed as time permits. F, even years.

399 Independent Study/Internship in Statistics. (3) (Prereq: STAT 412) Directed study of specific topics or supervised work as part of an approved internship. F.

412 Statistical Inference I. (3) (Prereq: MATH 161 with a grade of C or better) Sample spaces, probability, random variables, distributions. S.

413 Statistical Inference II. (3) (Prereq: STAT 412 with a grade of C or better) Point and interval estimation, tests of hypothesis, limiting distributions, order statistics. Offered as needed.

419 Actuarial Mathematics I. (3) (Prereq: STAT 412 with a grade of C or better or permission of the instructor) Survival distributions and life tables, life insurance, annuities, benefit analysis risk theory. Offered as needed.

420 Statistical Computing. (3) (Prereq: STAT 412 with a grade of C or better or permission of the instructor) Random number generation, Monte-Carlo simulation techniques, statistical programming, introduction to statistical packages, computing on the internet. S.

SWAIN SCHOLARS (SWNS)

301 Swain Scholars I. (1) (Prereq: Current Swain Scholar) This course may be used as an elective. Preparatory classroom experiences to improve the capacity of Swain Scholars to