CALIFORNIA STATE UNIVERSITY, HAYWARD
DEPARTMENT OF STATISTICS

STATISTICS 3910, Statistical Software Design
STATISTICS 4910, Advanced Statistical Software Design
WINTER 2000

Lecture: TTh 4:10-6:00, ScN206

Instructor: Prof. Eric A. Suess   **Office:** ScN 319   **Phone:** 885-3879   **e-mail:** esuess@csuhayward.edu
Office Hours: 6:10-6:30 TTh or by appointment

Required Texts:
- Your STATISTICS 1000 text.
- (3910, 4910 required) Cody and Smith: <u>Applied Statistics and the SAS Programming Language, 4th</u> <u>ed.</u>, Prentice Hall, 1997.
- (3910, 4910 required) Krause and Olson: <u>The Basics of S and S-PLUS</u>, Springer, 1997.
- (4910 required) Venables and Ripley: <u>Modern Applied Statistics with S-Plus</u>, Springer, 1994.
- (4910 optional) SAS Macro Language, Reference, 1st Edition.
- (4910 optional) SAS/IML Software, Usage and Reference, Version 6, 1st Edition.

Recommended Texts:
- Delwiche and Slaughter: <u>The Little SAS Book,</u> SAS Institute Inc., 1998.

Material To Be Covered:
- STATISTICS 3910: This course will introduce SAS and S-Plus programming.
- STATISTICS 4910: This course will introduce SAS and S-Plus programming.

Prerequisites: (3910, 4910) Completion of an introductory Statistics course such as Statistics 1000, knowledge of the Windows operating system, and experience with MS Office software (Word and Excel). Some experience with a computer programming language such as PASCAL, FORTRAN, or C. (4910) Completion of a course in which Probability is emphasized such as Statistics 3401 or 3502.

Homework: Weekly assignments will be given each Tuesday at the beginning of class and will be due the following Tuesday. Each assignment will be produced in MS Word.

Projects: There will be two programming projects.

Exams: One midterm will be given in the middle of the quarter, and the final will be given at the end.

Grading: Homework 20%, Project I 20%, Midterm 20%, Project II 20%, Final 20%

Policy on Make-up Exams: You are expected to take exams at the scheduled times. In case of genuine emergency, illness or hardship, for which you can present written documentation I may agree to arrange for a make-up exam. Make-up exams must always be arranged BEFORE the regular exam is given and always take place AFTER the regular exam.