

SOFTWARE FOR THE STATISTICAL SCIENCES**Instructor:**

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OFFICE HOUR:

Wednesday 12:00 -1:00 p.m. or by appointment.

Text:

Handouts, individual software help menus and information from the WEB (no texts are required).

COURSE DESCRIPTION:

This course is for one-hour credit and introduces the student to a number of additional statistics and math software packages not typically covered in standard coursework. A key purpose is to better prepare the student for a work environment that may be characterized by having one or more of these packages as the primary source for statistical and mathematical manipulations. This coverage includes a significant look at key aspects of each package including not only the standard mathematical and statistical analytical manipulations but also including plotting, symbolic manipulations and also scientific word processing. Particular packages to be covered include SPSS, Maple, Mathematica, Minitab, STATA, Excel and SAS. The student will also be made aware of numerous WEB links that are especially beneficial for statistical insight and manipulations.

COURSE OBJECTIVE:

To develop an understanding of and a facility for performing statistical scientific computing and related manipulations using canned software packages and the WEB.

APPROACH:

- Assigned problems for experience and familiarity with techniques.
- In-office discussions on applications — appropriate usage and value.
- List checkoff of items as they are completed; in-office demonstration of mastery of covered items. Also, a notebook is to be turned in at the end of the semester containing a printout of all assignments.

APPRAISAL:

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| Homework and Intermittent Demonstrations..... | 80% |
| End-of-semester Demonstration..... | 20% |

SPECIAL NOTE:

The student **MUST** stay current in all assignments (report periods will occur weekly).

POLICIES:

- Withdrawal — University policy will be followed: the last day for drop/withdrawal is as reported in the Academic Calendar. It is your personal responsibility to initiate and complete the drop/withdrawal process.
- Homework — The student **MUST** stay current in all assignments (report periods will occur weekly).
- Incomplete — A grade of Incomplete is not appropriate for this course.
- Attendance — All work will be done via the Web; results of this work will be handed in weekly. Typically an assignment is given on Wednesday of each week and is due to be handed in to Dr. Butar the following Wednesday. Intermittent demos may be resorted to for checking basic understanding.
- Academic Honesty — All work that is demonstrated to the instructor is to reflect solely your individual achievements.

STUDENT ABSENCES ON RELIGIOUS HOLY DAYS POLICY:

Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

University policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written statement concerning the religious holy day(s). This request must be made in the first fifteen days of the semester or the first seven days of a summer session in which the absence(s) will occur. The instructor will complete a form notifying the student of a reasonable timeframe in which the missed assignments and/or examinations are to be completed.

STUDENTS WITH DISABILITIES POLICY:

It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should register with the Office of Services for Students with Disabilities located in the Lee Drain Annex (telephone 936-294-3512, TDD 936-294-3786, and e-mail disability@shsu.edu). They should then make arrangements with their individual instructors so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired. SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Services for Students with Disabilities and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: No accommodation can be made

until you register with the Services for Students with Disabilities. For a complete listing of the university policy, see: <http://www.shsu.edu/dept/academic-affairs/documents/aps/students/811006.pdf>