Texas A&M University
Departmental Request for a Change in Course
Undergraduate ▪ Graduate ▪ Professional
Submit original form and attachments

1. This request is submitted by the Department of STATISTICS

2. Course prefix, number and complete title of course: STAT 604 - Special Problems in Statistical Computation and Analysis

3. Attach a brief supporting statement for changes made to items 3a thru 3d, and 5 below.
   a) Prerequisite(s): From STAT 601 or concurrent enrollment in STAT 610 and 641 To MATH 221, 251, or 253
   b) Withdrawal (reason)
   c) Cross-list with (cross-listed courses require the signature of both department heads)
   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.
   e) Change in credit/contact hours. Complete item 6b. Underline change(s). Attach a course syllabus.

4. Complete current course title and current course description: Special Problems in Statistical Computation and Analysis: Computer algorithms for programming; statistical analysis, efficient uses of existing statistical computer programs, generating random numbers and statistical variables, programming of simulation studies, selected topics in statistical analysis not covered in STAT 601.

5. Complete proposed course title and proposed course description (not to exceed 50 words): Topics in Statistical Computations: Efficient uses of existing statistical computer programs (SAS, R, etc.); generation of random numbers; using and creating functions and subroutines; statistical graphics; programming of simulation studies; and data management issues.

6. a) As currently in course inventory:

   Prefix | Course # | Title (excluding punctuation) | Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | FICE Code | Level
   -- | -- | -- | -- | -- | -- | -- | -- | -- | --
   STAT 604 | STAT COMP & ANLYS PROB | 0 3 0 0 0 3 2 7 0 5 0 1 0 0 0 1 | 0 0 3 6 3 2 |

   b) Change to:

   Prefix | Course # | Title (excluding punctuation) | Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | Acad. Year | FICE Code | Level
   -- | -- | -- | -- | -- | -- | -- | -- | -- | --
   STAT 604 | STATISTICAL COMPUTATIONS | 0 3 0 0 0 3 2 7 0 5 0 1 0 0 0 1 | 0 0 3 6 3 2 |

Approval recommended by:
Michael Songmaker 2-19-2009
Head of Department Date

Chair, College Review Committee Date
2/27/09

Head of Department (if cross-listed course) Date

Dean of College Date

Submitted to Coordinating Board by:

Date

Questions regarding this form should be directed to Sandra Williams at 845-8836.
OAR/AS – 04/07
February 12, 2009

MEMORANDUM

TO: University Curriculum Committee

FROM: Michael Longnecker  
Associate Department Head, Statistics

SUBJECT: Change in Statistics Courses

The Department of Statistics has recently conducted an in-depth analysis of its Ph.D. program. The result of this analysis was a revision of several courses and the development of new courses to reflect new areas of research in statistics. The follow courses required changes in the topics covered in the course and/or changes in the course prerequisites: STAT 604, STAT 605, STAT 612, STAT 613, STAT 614, STAT 620, STAT 621, and STAT 632.
Course: STAT 604 — Spring 2009

Instructor: Dr. Jamis Perrett, jamis@stat.tamu.edu, Blocker Hall 510H

Class Times: online (pre-recorded).

Virtual Q&A Session: (When requested by the students) Mondays, 6:00-7:00 p.m. online (live!). Go to “Links” page on DoStat.

Pre-requisites: None

Textbooks: The following textbooks are suggested, but not required.


Required Software:

R can be downloaded free and installed from the following website: http://cran.r-project.org/
we will discuss downloading and installation in class.

SAS can be obtained as follows: Distance Learning students contact Kim Ritchie at kritchie@stat.tamu.edu and local students should consult the following location for information on obtaining SAS: http://cis.tamu.edu/customer-sales/sell/studentsas.php

JMP can be downloaded free from the “Links” page in DoStat.

Note: We will use only R for the beginning of the semester. We will then use SAS and then JMP, So, don’t worry about getting SAS and JMP in the first couple of weeks of the semester. But you should have SAS and JMP installed by the fourth week of the semester.

Note 2: Microsoft Office files (i.e.- Word, PowerPoint, Excel) require version 2007 of the MS Office products. If you have an earlier version, you can download the Microsoft Office Compatibility Pack that will allow you to view the files on an earlier version of MS Office products. See the “Links” page for the link to that compatibility program.

Scope: Learn basics of the software packages SAS, R, and JMP

Evaluation: Assignments and projects will be completed by students for credit. Each assignment/project will be worth 10 points toward the final grade unless otherwise specified. No exams
will be given. Attendance (watching all the course lectures) is encouraged, but is not recorded for grading purposes.

Each assignment will be given a due date and will not be graded until after the due date. Late assignments will be accepted for a potential of half credit. However, no late assignments will be accepted the last two weeks of the semester. There will be approximately 12 assignments.

I encourage students to collaborate and ask their classmates for assistance. However, your assignment should be completed by you. You can seek help from another, but you cannot copy any aspect of your assignment from another’s work. If it is discovered that any copying has occurred, your final grade will automatically drop by one letter for each occurrence. Please post your questions on the discussion board and help others by answering their questions on the discussion board. DO NOT post your assignments on the discussion board and ask for someone to find the mistakes. You may post a single line of your code on the discussion board and ask for help, but please do not show everyone else your code. The ability to write code is being evaluated for the final grade.

If you believe you have a disability requiring an accommodation, please contact the Office of Support Services for Students with Disabilities in Cain Hall. The phone number is 845-1637.

**Tentative scale for final grade:** 90%-100% A; 80%-89% B; 70%-79% C; 60%-69% D; below 60% F
• **ADA Statement:**

**STATEMENT ON DISABILITIES:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Office of Disabilities Services in Room B118, Cain Hall. The phone number is 845-1637

• **Plagiarism Statement:**

**STATEMENT ON PLAGIARISM:** The handouts used in this course are copyrighted. By "handouts," I mean all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless I expressly grant permission. As commonly defined, plagiarism consists of passing off as one's own ideas, words, writing, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section "Scholastic Dishonesty."

• **Academic Integrity Statement:**

"An Aggie does not lie, cheat, or steal or tolerate those who do."

All syllabi shall contain the above Aggie Honor Code and refer students to the Honor Council Rules and Procedures at the web site: www.tamu.edu/aggiehonor. If you encounter students cheating or not abiding by university rules then it is mandatory that you report the student to the Aggie Honor System Office: complete information at http://www.tamu.edu/aggiehonor.