

Summer 2006

## **Statistics 480 Statistics Packages**

### **Time and Place**

Class meets Tuesday, Thursday **12:45PM – 2:00PM** @ 006 [LIFE SCI](#)

### **Course Personnel**

Instructor: Hsiao-Pin Liu (Anderson) [hul138@stat.psu.edu](mailto:hul138@stat.psu.edu) 321 Thomas 863-0426  
TA: Mina Yoo [mxy170@psu.edu](mailto:mxy170@psu.edu) 301 Thomas 863-2314

### **Office Hour:**

T.B.A.

### **Homework**

Weekly assignments are designed to help you assimilate and practice the techniques covered in class and to prepare you for the material to come

### **Prerequisites**

Stat 480 was designed for all students. Students are expected to have at least STAT 200 knowledge. We will go through t-test, chi-square test, linear regression, and analysis of variance, etc.

### **Textbook(Optional)**

Applied Statistics and the SAS Programming Language, Fifth Edition, Ronald P. Cody and Jeffrey K. Smith, Pearson Prentice and Hall (2006).

Lecture notes will be the major resource of materials used in class. Online material of SAS documentation (SAS 9.1) can be found at <http://support.sas.com/91doc/>.

Some good references are listed below

- Cody, Ronald (1999), Cody's Data Cleaning Techniques Using SAS Software, Cary, NC: SAS Institute, Inc. ISBN: 1-58025-600-7.
- Cody, Ronald (1996), SAS Workbook and Solutions Set, Cary, NC: SAS Institute, Inc. ISBN: 1555447627.
- Delwiche, Lora D. and Susan J. Slaughter (1998), The Little SAS Book, Second Edition, Cary, NC: SAS Institute, Inc. ISBN: 1-58025-239-7.
- DiIorio, Frank and Hardy, Kenneth A. (1996), Quick Start to Data Analysis with SAS, IAP, Duxbury. ISBN:0-534-23760-6.

### **Academic Integrity**

All Penn State policies regarding ethics and honorable behavior apply to this course. Academic integrity is the pursuit of scholarly activity free from fraud and deception and is an educational objective of this institution. All University policies regarding academic

integrity apply to this course. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating of information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.

For any material or ideas obtained from other sources, such as the text or things you see on the web, in the library, etc., a source reference must be given. Direct quotes from any source must be identified as such.

All exam answers must be your own, and you must not provide any assistance to other students during exams. Any instances of academic dishonesty WILL be pursued under the [University and Eberly College of Science regulations](#) concerning academic integrity. For more information on academic integrity, see [Penn State's statement on plagiarism and academic dishonesty](#)

### **Disabilities**

It is Penn State's policy not to discriminate against qualified students with documented disabilities in its educational programs. If you have a disability-related need for modifications in this course, contact your instructor and the Office for Disability Services (located in 116 Boucke Building). Instructors should be notified as early in the semester as possible. You may refer to the Nondiscrimination Policy in the Student Guide to University Policies and Rules 1997. See the website <http://www.equity.psu.edu/ods/> for details.

### **Grading**

- At least 3 quizzes (20 %)
- Submission of homework problems (20 %) [**No late homework will be accepted, Missed homework will be received a grade of zero**]
- Midterm exam (30 %)
- Final exam (30 %)

A reasonable amount of collaboration on homework problems is allowed, but each student must turn in your own answer that reflects your understanding of the material. For the determination of final course grades, students will be ranked on the basis of the total score obtained from all of their course work. Course grades will be tentatively awarded based on the following lower bounds:

<b>B-</b>	<b>B</b>	<b>B+</b>	<b>A-</b>	<b>A</b>
74-77.99 %	78-81.99%	82-85.99%	86-89.99%	Above 90%
<b>F</b>	<b>D</b>	<b>C</b>	<b>C+</b>	
Below 60%	60-63.99%	64-69.99%	70-73.99 %	

### **Homework**

There will be at least 6 homework assignments throughout the semester. Each assignment will require you to turn in:

1. SAS code
2. SAS output
3. Answers

All material for the homework assignment must be **typed**. Please **do not** handwrite in your handwrite on your homework. In order to cut down on the amount of paper you turn in, you may copy your SAS output into a Word Document (or whatever program you prefer) and downsize the font. Also, please remember to staple your homework before you turn it in out of courtesy for T.A. The assignment will be due by the beginning of the noted class period.

### Exam

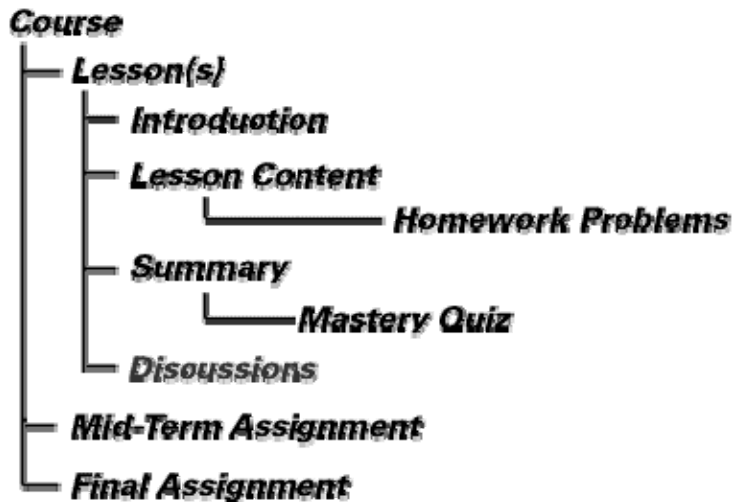
There will be one midterm exam, worth 30% of your course grade; the final exam will be worth 30% of your course grade

### Lectures

All homework assignments and exam questions will be centered on the content of lectures. All necessary material for the course will be posted on ANGEL. The recommended text is a good supplement to the material, but I will not follow the text closely.

### Course Outline

The following course outline is intended to give you a visual "snapshot" of the basic structure for this course. The major components of the course include a series of lessons and homework problems, a mid-term as well as a take home final exam. Each lesson that is the "meat" of the course consists of new content, homework problems, discussion boards, and occasionally a mastery quiz.



**Technical requirements**

For this course, we recommend that you have access to a computer with the following technical requirements:

<b>Statistics Packages</b>	
<b>Operating System</b>	Windows XP or 2000 with the latest service packs
<b>Processor</b>	500 MHz or higher
<b>Memory</b>	256 MB of RAM
<b>Hard Drive Space</b>	300 MB free disk space (500 MB recommended)
<b>Browser</b>	Netscape 7 or higher Internet Explorer 6 or higher Note: Your instructor uses Mozilla Firefox 0.9.1.
	Note: Java and JavaScript must be enabled. AOL users should upgrade to the latest version or connect through AOL and then use Netscape or Internet Explorer.
<b>Software</b>	SAS 9.1 Microsoft Word(or Open Office)
<b>Modem</b>	Angel can function with a 56 kbps connection, but you will be much, much happier with a higher speed connection.
<b>Printer</b>	graphics-capable (inkjet or laser printer)
<b>Monitor/Video Card</b>	15" monitor; SVGA or better (1024 X 768, 16-bit graphics)