

SYLLABUS

Subject:	Advance Computer Processing Data (STA 5103)
Lecture:	MW 6:00-7:15pm, Room 220, CL1
Time Length:	08/21/2006 - 12/09/2006
Instructor:	Dr. Xiaogang Su Room 102, CC II (407) 823-2940 [O] xiaosu@mail.ucf.edu
Office Hours:	MF 2:00-3:00 pm
Text Book:	1, <i>Combining and Modifying SAS Data Sets: Examples</i> , SAS Institute, (1995). 2, <i>Integrating Results through Meta-Analytic Review Using SAS Software</i> , SAS Institute, (1999).
Course Web Page:	http://pegasus.cc.ucf.edu/~xsu/CLASS/STA5103
Prerequisite:	STA 4163 and Knowledge of a Programming Language
Computing	SAS

- **Course Coverage:**

Significant portion of computer resources are devoted on data processing and a huge amount of data is generated each day. Although these data represent a wealth amount of information that can be used to improve decision-making process in virtually any field, most of the information hided in the data has never been discovered. Even if the information has been discovered, communicate the information with other people poses a challenge to data analyst or data miner. This course focuses on teaching tools that can be used in preparing data for analysis or mining and tools that can be used to communicate analytical findings to general public. SAS products covered in this course include SAS Base, SAS/GRAPH, SAS Macro Language, SAS/SQL, ODS, PROC Report, and SAS/IntrNet.

After you complete this course, you should know:

- Converting data from different sources such as MicroSoft ACCESS database, ASCII file, PeopleSoft database, and web log file with SAS/BASE.
- Combining and Modifying SAS data sets.
- Presenting analytical results graphically using SAS/GRAPH procedures
- Creating analytical reports with the SAS reporting procedures
- Performing Statistical analysis with PROC SQL

How will I learn in this course?

- Reading chapters from the text especially the book on meat analysis
- Going to lectures and working on project
- Working with classmates and discussing your questions with lab assistants

- Consulting your instructor if necessary
- Using Internet/e-mail (if desired)
- Preparing you presentations

• **Useful References**

- SAS Programming I Course Notes
- SAS Programming II Course Notes
- SAS SQL Course Notes
- SAS Graphs Course Notes
- SAS MACRO Language Course Notes
- SAS Web Tools: Static and Dynamic Solutions Using SAS/IntraNet Software Course Notes
- SAS Web Tools: Advanced Dynamic Solutions Using SAS/IntraNet Software Course Notes

- **Grading:** There will be a number of assignments (or exams) and a final presentation and report. The assignments make up 70% and the final project makes up 30% to your final score. There will be also 5% from in-class quizzes. The criterion for assigning grades is listed as follows. Note that the total will be based on 105. Incomplete grades and make-up exams are given only in extreme instances and only with prior permission of the instructor.

Range	94+	93-90	89-87	86-83	82-80	79-77	76-73	72-70	69-67	66-63	62-60	59-0
Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F