

Summer 2006

STATISTICS 581: Statistical Consulting Practicum II

Course Instructors:

Durland Shumway, PhD

323E Thomas Building

865-3541

dshumway@stat.psu.edu

Shabnam Mousavi, PhD

323F Thomas Building

863-8127

shabnam@stat.psu.edu

Class Meetings: 010 Life Science Bldg.

Monday, Tuesday & Thursday

11:10 am - 12:25 pm

Statistical Consulting Center Consultants (TA):

Ruth Hummel

rmh247@stat.psu.edu

Office hours:

Mousavi T (1:00-3:00) & Th (1:00-3:00)

Shumway M (9:00-11:00) & T (9:00-11:00)

Hummel M (1:30-3:30) & W (1:30-3:30)

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COURSE POLICIES

Class attendance: Required. The practicum is organized around principles of active and collaborative learning. Attendance and participation in class is an integral part of the course. There is no practical way of making up absences. Missed classes will impact your grade.

Requirements for working with clients:

- Exhibit professional behavior.
- Follow all steps of Activity Log.
- Be on time for all scheduled client meetings.
- Meet regularly with SCC instructors and consultants
- Maintain a client file as specified in the handbook. In particular, a final client folder must have (1) final report, (2) draft report, (3) peer-reviewed report with completed form, (4) client request form with five key words, (5) completed Activity Log, (6) completed Information about Short-Term consulting, (7) legible labeled and dated meeting and research notes, (8) first and second meeting summaries, and process summary, (9) copies of any correspondence, (9) information provided by the client, if applicable, and any other materials which would enable us to understand the consulting process.

Paper clip (or binder clip) together, in separate packets, the reports, SCC forms, correspondence, client materials, etc. Clips are available at the Operations Desk.

- All client-related electronic materials must be stored in your SCC directory ((\\Quasar\stat580).
- Provide a written recommendation for the client *in a timely fashion*. The norm for this seven business days in the Summer semester. At least 2 business days prior to your second meeting submit a draft copy for review. Turn in the client file as soon as you have delivered the recommendation to the client, no more than 24 hours after the second meeting.
- Get approval from one of the course instructors for any extended work with the client such as additional hours spent on developing a recommendation, additional follow-up meetings, or data analysis.

Criteria for assessment: Stat581 (1 credit) 20% class work, 80% consulting

You will receive grades on written assignments and draft and final versions of your client files. Client files will be graded on Process, Communication Skills, and Technical Accuracy:

- “Process”
 - Following Activity log and course guidelines (e.g., completeness of file) and displaying responsible behavior
- “Communication”
 - Quality of written work, including demonstration of a solid understanding of the client’s question, absence of spelling and grammatical errors, and clear presentation of statistical concepts in non-jargon terms
- “Technical Accuracy”

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- Appropriateness of methods proposed given the client's statistical background and data

Non-MAS students are required to complete a minimum of three client files this semester (Stat 581). MAS students will complete a minimum of two client files and a comprehensive MAS project.

Class attendance and participation is required and you will be asked to present a minimum of one client file per 580/581 sequence to the class. MAS students must present one client file in Stat580 and the MAS comprehensive project in Stat581. Each presentation will last 30 minutes, and the sign up form is included in the schedule presented in this syllabus; a master copy will be posted at the SCC.

Course grades will be assigned based on client file grades and overall professionalism (class attendance and participation, maintaining files on the SCC server, overall professionalism, each evaluated on a four point scale).

Excellent	3.7 to 4	A
Very Good	3.3 to 3.6	A-
Good	2.9 to 3.2	B+
Moderate	2.0 to 2.9	B
Fair	1.5 to 2	B-
	1.0 to 1.5	C+
Poor	<1.0	C

If difficulties are not corrected after one conference with me an "F" grade will result and no additional clients will be assigned. If plagiarism is detected, a "F" grade will be given and no additional clients will be assigned.

MAS Comprehensive Project: To fulfill a degree requirement, each MAS student will complete a comprehensive project, which usually is an extension of one short-term client while in Stat581. In each short-term report, advice is provided to the client. In the comprehensive project, you will implement the advice you proposed in the associated short-term report and analyze the client's data. The MAS project is due three weeks after the associated short-term file draft is turned in. A grade for Stat581 cannot be assigned until the MAS project has been accepted by a course instructor and the MAS degree coordinator.

The project consists of data analysis, a written consulting report, and an oral presentation to the class.

Use of SCC computers and accounts: As a student in STAT581, you will be assigned a subdirectory in your name on the SCC network (Q: drive). This account can be accessed from the PCs in Room 424. In addition, you may use SCC computers in 323 Thomas to work on client related activities while an Operations Assistant is on duty (usually Monday through Friday, 8:00 a.m. to 4:30 p.m.). All client-related electronic material must be saved in your Q: drive subdirectory in a logical and organized fashion.

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PENN STATE POLICIES

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. Plagiarism will be reported to the Department Head and any instances of academic dishonesty WILL be pursued under the University and Eberly College of Science regulations concerning academic integrity.

You must provide copies of materials used to write your recommendation report in the client file along with your notes on that material. This includes web pages, pages from books, and lecture notes from previous classes. A grade of "F" will be assigned at the first documented case of plagiarism and your academic advisor and the Department head will be notified.

ASSIGNMENTS

		ASSIGNMENT
Due Date	Reading	Topic
Within 7 bus. days of first meeting		Client recommendation file
Within two days of receiving draft file	Classmate's STAT581 draft Client file	Peer Review
May 15 – June 22th		MAS Presentation (for non-MAS students, one methodological presentation)

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SCHEDULE: SUMMER 2006 SEMESTER (SUBJECT TO CHANGE)

Monday	Tuesday	Thursday
5/15 – Class #1: EDA	5/16 – Class #2: Logistic Regression	5/18 – Class #3: F-test <i>Client discussions</i>
5/22 – Class #4: TBA	5/23 – Class #5: <i>Client discussions</i>	5/25 – Class #6: <i>Client discussions</i>
5/29 – Memorial Day Holiday – No Classes	5/30 – Class #7: <i>Client discussions</i>	6/1 – Class #8: <i>Client discussions</i>
6/5 – Class #9: <i>Client discussions</i>	6/6 – Class #10: <i>Client discussions</i>	6/8 – Class #11: <i>Client discussions</i>
6/12 – Class #12: <i>Client discussions</i>	6/13 – Class #13: <i>Client discussions</i>	6/15 – Class #14: <i>Client discussions</i>
6/19 – Class #15: MAS draft report due 1. _____ 2. _____	6/20 – Class #16: 1. _____ 2. _____	6/22 – Class #17: All Client Files due 1. _____ 2. _____