SYLLABUS

COURSE AND CONTACT INFORMATION
Course: STAT227, Section 11, Survival Analysis
Semester: Fall, 2015
Time: Wednesday, 18:10 – 20:40
Location: Smith Hall Room120 (801 22nd St)

INSTRUCTOR
Name: Qing Pan
Campus Address: Rome Hall 665
Phone: 202-994-6359
E-mail: qpan@gwu.edu
Office hours: Wednesday 15:00-17:00 (Please email ahead to make appointment)

COURSE DESCRIPTION
Parametric and nonparametric methods for the analysis of events observed in time (survival data), including Kaplan—Meier estimate of survival functions, logrank and generalized Wilcoxon tests, the Cox proportional hazards model and an introduction to counting processes.

COURSE PREREQUISITES
Stat201-202 or equivalent

TEXTS & REFERENCES


LEARNING OUTCOMES:
As a result of completing this course, students will be able to:
1. Describe and summarize partially censored time to event data
2. Fit appropriate parametric/semiparametric model to answer specific research questions
3. Carry out survival analysis in SAS

**GRADING**
- Homework (30%): ~ 8 homeworks
- Quiz (10%): based on most recent lecture and submitted homework
- Midterm exam (30%): in class; closed book; one formula sheet.
- Final project (30%): Independent research on a failure time dataset and scientific writing.

**NOTE:** IN ACCORD WITH UNIVERSITY POLICY, THE FINAL WILL BE GIVEN DURING THE FINAL EXAM PERIOD AND NOT THE LAST WEEK OF THE SEMESTER

**CLASS POLICIES**
Attendance policy: Attendance is expected. Please inform me as early as possible if you need to miss a class so that appropriate arrangements can be made.
Late work: Generally not accepted unless appropriate justification provided.
Make-up exam/quiz: No make-up exam unless extremely special occasions.

University Policy on Religious Holidays:
1. Students should notify faculty during the first week of the semester of their intention to be absent from class on their day(s) of religious observance;
2. Faculty should extend to these students the courtesy of absence without penalty on such occasions, including permission to make up examinations;
3. Faculty who intend to observe a religious holiday should arrange at the beginning of the semester to reschedule missed classes or to make other provisions for their course-related activities

**ACADEMIC INTEGRITY**
I personally support the GW Code of Academic Integrity. It states:: “Academic dishonesty is defined as cheating of any kind, including misrepresenting one’s own work, taking credit for the work of others without crediting them and without appropriate authorization, and the fabrication of information.” For the remainder of the code, see: [http://www.gwu.edu/~ntegrity/code.html](http://www.gwu.edu/~ntegrity/code.html)

**SUPPORT FOR STUDENTS OUTSIDE THE CLASSROOM**
**DISABILITY SUPPORT SERVICES (DSS)**
Any student who may need an accommodation based on the potential impact of a disability should contact the Disability Support Services office at 202-994-8250 in the Marvin Center, Suite 242, to establish eligibility and to coordinate reasonable accommodations. For additional information please refer to: [http://gwired.gwu.edu/dss/](http://gwired.gwu.edu/dss/)

**UNIVERSITY COUNSELING CENTER (UCC) 202-994-5300**
The University Counseling Center (UCC) offers 24/7 assistance and referral to address students' personal, social, career, and study skills problems. Services for students include: crisis and emergency mental health consultations, confidential assessment, counseling services (individual and small group), and referrals. [http://gwired.gwu.edu/counsel/CounselingServices/AcademicSupportServices](http://gwired.gwu.edu/counsel/CounselingServices/AcademicSupportServices)

**SECURITY**
In the case of an emergency, if at all possible, the class should shelter in place. If the building that the class is in is affected, follow the evacuation procedures for the building. After evacuation, seek shelter at a predetermined rendezvous location.