### The George Washington University
#### Department of Statistics

**STAT 6207 - Section 11**  
**Fall 2016**

**Days:**  
Mondays

**Meeting Time:**  
6:10-8:40pm

**Classroom:**  
Phillips Hall 109

**Instructor:**  
Winfried Barta

**Office address:**  
Phillips Hall 729

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(202) 994-7514

**Email:**  
barta@gwu.edu

**Office hours:**  
TBD

**Teaching Assistant:**  
Xiaoxue Huang

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**Office hours:**  
TBD

**Required Textbook:**


**Supplementary Textbooks:**

*Computational Statistics, 2009.*  
Available freely online while on campus via  
http://findit.library.gwu.edu/go?sid=sfx:e_collection&isbn=9780387981444&pid=serviceType=getFullTxt

Available freely online while on campus via  
http://findit.library.gwu.edu/go?sid=sfx:e_collection&isbn=9781441915764&pid=serviceType=getFullTxt
Course Description:

Computing is essential for the practice of statistics. In this course we will introduce some basic computational methods in statistics. We will also learn how to implement and/or use these methods in the high level statistical (programming) language R.


Learning outcomes

As a result of completing this course, students will be able to:

1. Understand the basics of computing.
2. Implement computational methods in statistics in a high level language.
3. Perform statistical inference based on computational methods.
4. Interpret the result of computationally intensive methods in statistics.

Prerequisites:

A course in mathematical statistics and linear algebra are necessary, e.g. STAT 6201,6202; or STAT 4157,4158; MATH 2184.

Knowledge of a programming language is helpful but not required.

Grading Policy

Midterm (30%)
Homework (35%)
Final Project (35%)
Class participation (0-5%)

Note that these add up to 100-105%.

Class Policies

Late work: Will not be accepted. If you turn in your homework or final project late, you get zero points.
Make-up exams: Except for emergencies with proper documentation, there will be absolutely no make-ups; you missed an exam, you failed it.
Blackboard

Please check Blackboard frequently, as there may be assignments, announcements, and material passed to the class via this electronic medium during the week. You can find it at

http://blackboard.gwu.edu/

You need to login, using your NetID and password. You should also check your Email regularly, as some announcements regarding the class might be sent via Email.
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

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/

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://counselingcenter.gwu.edu

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.