**CCAS SYLLABUS TEMPLATE**

**COURSE AND CONTACT INFORMATION**
Course: [Stat 4181 .SECTION 10]
Semester: [Spring , YEAR 2011]
Time: [Tuesday], [TIME 18:10-TO 20:50]
Location: [2020 K St. R22]

**INSTRUCTOR**
Name: Dr. Chen
Campus Address: 2140 Pennsylvania Ave. R 06
Phone:
E-mail: [wschen@gwu.edu]
Office hours: Tues. 1:00pm to 4:30pm

**COURSE DESCRIPTION**
Unit One: Apply regression analysis (include simple linear regression, multiple linear regression, model building, residual analysis)
Unit Two; Time Series Regression , nonseasonal Box-Jenkins Models and Identification. Estimation, diagnostic checking and forecasting, Box-Jenkins Seasonal Modeling. Advanced Box-Jenkins Modeling, Decomposition Methods, Exponential Smoothing.

**COURSE PREREQUISITE(S)**
Stat 051,

**TEXTS**
Author    Title   Edition
Bowerman, O’Connell, Koehler ; Forecasting, Time Series and Regression; Fourth Edition.

**LEARNING OUTCOMES:**
As a result of completing this course, students will be able to:
1. Could build regression (parametric or nonparametric) method in real life data.
2. Could analysis time series data using “SAS” program.
3. Could use “SAS” identify “ARIMA” model to analysis given data.
4. Understand autocovariance, autocorrelation and partial autocorrelation function And use these function to identify the ARIMA model.

**GRADING**
[List what will be counted and percentages. For example:
- midterm exam (33 %),
- homework (33 %),
- final exam (33 %);]
NOTE: IN ACCORD WITH UNIVERSITY POLICY, THE FINAL EXAM WILL BE GIVEN DURING THE FINAL EXAM PERIOD AND NOT THE LAST WEEK OF THE SEMESTER

CLASS POLICIES
[Attendance policy: if you are sick you need to make up what is missing by yourself.]
[Late work: will it be accepted? If there is some condition you cannot control.]
[Make-up exams: If you let me know in advance]
[Religious Holidays]
[NOTE: for university policies on teaching, see http://www.gwu.edu/~academic/Teaching/main.htm]

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/~negrity/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://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.