STA5176-2089/2090 Biostatistics
Fall 2013

Instructor: Dr. Subhash Bagui
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Class Hours:
Lecture Times: TR 4:00-5:15 a.m.
Class Room: Bldg. 04, Room 248 (or Elluminate online)

Course Objective: Introduction to Concepts of Statistics used in Biology

Text Book: Biostatistical Analysis, 5th Edition by Jerrold H. Zar
Publisher: Prentice Hall

Prerequisites: STA2023 or equivalent statistics course(s)

Course Outline: Chapters 10: Analysis of Variance
Chapter 11: Multiple Comparisons
Chapter 12: Two-Factor Analysis of Variance
Chapter 13: Data Transformations
Chapter 17: Simple Linear Regression
Chapter 19: Simple Linear Correlation
Chapter 20: Multiple Regression
Chapter 22: Goodness of Fit
Chapter 23: Contingency Tables

Student Learning Outcomes: Upon completion of the course the student will:
Demonstrate the ability to do one-way and two-way ANOVA.
Demonstrate the ability to draw statistical conclusions based on an ANOVA table.
Demonstrate the ability to use linear regression models (linear regression/multiple linear regression) to analyze data in practice.
Be able to do categorical data analysis.
Demonstrate the ability to use the statistical software SAS, SPSS, Excel or Minitab to solve statistical problems.
Be competitive in his/her future work.
Grading:  
*Homework (3)-15%*  
*Project- 10%*  
*Term Exam 1- 25%*  
*Term Exam 2- 25%*  
*Final Exam- 25%*  

**Final Exam Date:** December 12, 2013 (12/12/2013)  

**Grading Scale:**  
A(93%-100%), A- (90%-92.9%)  
B+(88%-89.9%), B(81%-87.9%), B-(79.9%-81%)  
C+(78%-89.9%), C(71%-78%), C-(69.9%-71%)  
D+(68%-70%), D(61%-67.9%), D- (60%-60.9%), F(below 60%).  

**Brief description of the format of the Online STA5176-Biostatistics class:**  
This is a real time online class. In order to successfully complete the class you need a computer, high speed internet connection, a head-set to listen to the class lectures, a scanner to scan documents in pdf format, and a printer.  

**Elluminate and elearning,** will be used to deliver the class.  
Two elluminate URLs will be emailed to you for each class. The first link will be for attending the class real time (called the **Class Link**) and the second link will be called the **Recording Link**.  
During the scheduled class time (or 5 to 10 minutes earlier) click the **Class Link** to join the class. 
By doing this you will be able to view and listen to the live class lecture. There are options available to ask questions during the lecture.  

The **Recording Link** may be used to view and listen to recorded lecture at a later time.  
The class syllabus, class notes, additional notes, homework assignments, and exams will be posted on elearning, [https://elearning.uwf.edu](https://elearning.uwf.edu). You will be able print them from elearning. You must get a UWF email address. All communications will be done via UWF email.  

**Emails:** Email will be answered in the order that it was received. There may be a delay due to the high volume of email received.  

**Makeup tests:** Excused makeup tests should be completed within one week of the original test date.  

**Makeup homework:** There will be a penalty for late submission. Late submissions will be accepted up to one week of the original due dates.  

**Class Attendance:** Class attendance is essential for successful completion of the course.  

**Note:**  
1. All exams are closed book exams. One formula sheet (letter size) is allowed (you may write on both sides of the sheet). No examples or solutions are allowed on the formula sheet.  

2. Knowledge of SAS, SPSS , R Commander, Excel or Minitab is essential in this class.  
   - A TI 30 or better calculator is required for the course.
8. **Expectations for Academic Conduct/Plagiarism Policy:**

As members of the University of West Florida, we commit ourselves to honesty. As we strive for excellence in performance, integrity-personal and institutional-is our most precious asset. Honesty in our academic work is vital, and we will not knowingly act in ways which erode that integrity. Accordingly, we pledge not to cheat, nor to tolerate cheating, nor to plagiarize the work of others. We pledge to share community resources in ways that are responsible and that comply with established policies of fairness. Cooperation and competition are means to high achievement and are encouraged. Indeed, cooperation is expected unless our directive is to individual performance. We will compete constructively and professionally for the purpose of stimulating high performance standards. Finally, we accept adherence to this set of expectations for academic conduct as a condition of membership in the UWF academic community.

**The Student Code of Conduct**

The Student Code of Conduct sets forth the rules, regulations and expected behavior of students enrolled at the University of West Florida. Violations of any rules, regulations, or behavioral expectations may result in a charge of violating the Student Code of Conduct. It is the student’s responsibility to read the Student Code of Conduct and conduct themselves accordingly. You may access the current Student Code of Conduct at [http://www.uwf.edu/judicialaffairs](http://www.uwf.edu/judicialaffairs).

**ASSISTANCE:**

Students with special needs who require specific examination-related or other course-related accommodations should contact Barbara Fitzpatrick, Director of Disabled Student Services (DSS), [dss@uwf.edu](mailto:dss@uwf.edu), (850) 474-2387. DSS will provide the student with a letter for the instructor that will specify any recommended accommodations.

**Withdrawal Policy:** Students must initiate withdrawals. Important deadlines are:

- Withdrawal from individual or all courses; *automatic grade of W*: 11/1
- Withdrawal from all courses; W or WF at instructor’s discretion: 12/6

*Late withdrawals:* Students who are requesting a late withdrawal from class, must have the approval of the advisor, instructor, and department chairperson (in that order) and finally, by the Academic Appeals committee. Requests for late withdrawals may be approved only for the following reasons (which must be documented):

1. A death in the immediate family.
2. Serious illness of the student or an immediate family member.
3. A situation deemed similar to categories 1 and 2 by all in the approval process.
4. Withdrawal due to Military Service (*Florida Statute 1004.07*)
5. National Guard Troops Ordered into Active Service (*Florida Statute 250.482*)

Requests without documentation should not be accepted. Requests for a late withdraws simply for not succeeding in a course, do not meet the criteria for approval and should not be approved.
WEATHER EMERGENCY INFORMATION

In the case of severe weather or other emergency, the campus might be closed and classes cancelled. Official closures and delays are announced on the UWF website and broadcast on WUWF-FM.

Weather Emergency Information

- WUWF-FM (88.1MHz) is the official information source for the university. Any pertinent information regarding closings, cancellations, and the re-opening of campus will be broadcast.
- In the event that hurricane preparation procedures are initiated, the UWF Home Web Page and Argus will both provide current information regarding hurricane preparation procedures, the status of classes and the closing of the university.

Emergency plans for the University of West Florida related to inclement weather are available on the following UWF web pages:

Information about hurricane preparedness plans is available on the UWF web site: http://uwfemergency.org/hurricaneprep.cfm

Information about other emergency procedures is available on the UWF web site: http://uwfemergency.org/