

Hello Everyone,  
Welcome to the Online MATH 130-Elementary Statistics course.

This course studies the development of statistical concepts with applications to various disciplines. Topics include descriptive and inferential statistical techniques. The latter are explained in terms of concepts derived from probability theory, such as normal distribution, t-distribution, sampling theory, estimation, confidence intervals, hypothesis testing, t-test, Chi square test, analysis of variance and regression and correlation.

The course consists of a series of lectures that will be posted on Bb as Powerpoint files and will be available to you as the semester proceeds. We will be covering all of the chapters in the order that are presented in the book except Chapters 6 and 7. **Make sure you read the book in addition to the ppt lectures.**

Students should be able to:

- (1) Effectively express themselves in statistical terms either in written or oral form.
- (2) Demonstrate ability to think critically and effectively by utilizing statistical methods or SPSS to perform data analysis.
- (3) Locate and use information from SPSS output to draw statistical conclusion.
- (4) Demonstrate ability to integrate knowledge and ideas in a coherent and meaningful manner.
- (5) Understand basic statistical methods and choose a suitable method.
- (6) Perform statistical analysis, such as estimation, hypothesis testing, regression analysis and draw conclusions.
- (7) Effectively utilize SPSS to perform data analysis and draw conclusion from SPSS output.

After you study each lesson and corresponding book section, you should attempt to do the homework problems that will be posted on **WebAssign**. Some of the assignments may be easy, others a bit frustrating and long. Do not hesitate to contact me via email if you have any problems. It is my goal to solve enough problems so that you can be better prepared for your exams. There is also a discussion board where you can discuss the material amongst yourselves. PLEASE READ IT. The course material will take some time to learn and understand. DO NOT WAIT UNTIL THE LAST MINUTE TO DO THE ASSIGNMENTS.

SUPPLIES NEEDED FOR THE COURSE:

- Purchase the book that comes as a package from the bookstore. It consists of the following items:
  1. Textbook
  2. WebAssign access code (this is for homework and it is located in the back of your book). In addition, you will also need a class key that I will be sending to you on my first announcement ALONG WITH A PDF FILE THAT explains in detail how to access and use WebAssign. Once you

use the key, you will be officially part of the roster in WebAssign. Your WebAssign access code will allow you to work and solve the assignments.

3. Webtutor (this is your blackboard access code for the lectures).

If you have technical problems registering, please call WebAssign at 1-800-955-8275. Keep this number handy in case you have any problems with WebAssign and require technical support. Please do not contact me for technical issues related to WebAssign.

In addition, please visit the Announcements page every time you log on since I will be posting current and important information relevant to the course. You will be also notified via the University's email that an announcement has been posted. Any changes in assignments, deadlines, etc., will also be posted on the Announcements page.

To take this course, it is a requirement that you are knowledgeable with:

- Internet browsing
- E-mail (sending and receiving attachments)
- Inserting files (pictures, tables, etc.) into a document;

And that you have access to

- A computer with the minimum hardware specifications described in the following link: <http://www.wpunj.edu/cedl/dfag.html#9>
- Wpunj e-mail account and that this **will be** the only e-mail account that you will use during the course
- Microsoft Word (or any compatible word processor).

Therefore, there will be no orientation for this course and we will not meet in person at any time during the course. If you are not familiar with Blackboard, please see the tab within Blackboard entitled:

#### **Bb Support: Students**

The same information is available on the Bb Home before you on log on:

<http://bb.wpunj.edu>

If you cannot find help in the documentation the best way to obtain support is to contact the Bb Support center at this address:

<https://liberty.wpunj.edu/bb/support-center/>

In addition, student documentation can be found at: <http://www.wpunj.edu/bb/students/>

I will **NOT** accept:

- Late homework
- Technical excuses, such as “my computer froze”, “I could not access the web site”, “I did not receive the email”. You are responsible for submitting your work **ON TIME**.

We will communicate **in two ways**:

**Discussion Board:** Remember that any message post to the board will be read by the entire group. If you are replying to an individual, use their personal email instead. Remember that using the reply option to answer a message will send your message to everyone in the class.

**Personal E-mail:** It should be used when you send your questions and/or files to me or if you want to communicate privately with your classmates. You **MUST** use your William Paterson university e-mail address unless you are a visiting student and you do not have one.

**You must place "MATH130-Online" in the subject line. If you don't, I will not read your email.**

### **Grading Policy**

3 Exams (15 % each): 45%  
Spss Assignment: 10%  
Homework Assignments: 15%  
Final Exam: 30%  
Total: 100%

### **NOTE ON SPSS Statistical Software version 19:**

The SPSS statistical software is required for the completion of this course. I will be giving you mini projects that need to be completed using SPSS and will be collecting them towards the end of the semester. It is your responsibility to familiarize yourselves with this software and learn how to use it. Spss is available in the computer labs on campus and it is free for you to use. In case you do not wish (or cannot come to campus) you can purchase the software by going to the following link. It lists various vendors through which you can purchase the software:

[http://www.spss.com/vertical\\_markets/education/online.htm](http://www.spss.com/vertical_markets/education/online.htm)

The assignments are to be submitted **ONLY** as WORD files or PDF file format. The file name should adhere to the following format for it to be accepted: MATH130\_yourlastname\_spss

### **Textbook:**

**Book Title:** Understanding Basic Statistics      **Author:** Brase/Brase      **Edition:** 5th

Lastly, you will need to approach this course with seriousness and willingness to work hard. Online courses are demanding and require even more **SELF-DISCIPLINE** than regular class courses. Successful completion of the course depends largely on you and your ability to work on your own. I wish you the best of luck and hope this course will be an important learning experience in your academic studies.

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