

**Spring 2015 Syllabus -Introduction to Probability and Statistics II-ONLINE  
STAT 244 W01 - CRN 63421**

**This is not a “Saturday class” but an online course with 3 Saturday meetings. You are expected to spend at least 2 hours daily to successfully complete this course. Due dates will vary throughout the week, so if you can only devote weekends, you will have to work ahead of schedule. There will be 3 required on campus meetings for this course: a course introduction to software, calculator, and course requirements; a proctored midterm; and a proctored final exam. Please make sure that you can attend the following dates:**

- 1. Introduction: Saturday, April 4<sup>th</sup> 10:00-11:50 NH 96**
- 2. Proctored Midterm: Saturday, May 2<sup>nd</sup> 10:00-11:50 NH 96**
- 3. Proctored Final Exam: Saturday, June 6<sup>th</sup> 10:00-11:50 NH96**

**All students that do not attend the introduction class without prior approval may be dropped from the course. If you are not in the Portland area you can arrange to take your exams at a testing center near you. This information needs to be checked with me at least 2 weeks prior to your exam dates.**

<b>Instructor: Rachel Webb</b>	
<b>Office Hours</b>	Tuesday & Thursday 14:30-15:30
<b>Office Location</b>	Neuberger Hall, Room Mezzanine 416, 724 SW Harrison Street
<b>Office Phone</b>	503-725-3642 Leave your name and number, specify that you are in my Stat243 online course. (I cannot return long distance calls)
<b>Email</b>	Use Desire2Learn Email tool: I will check this email roughly once per weekday.

### **Required Textbook**

Ebook included in the ALEKS 360 access code, see below for purchasing info.  
Elementary Statistics, A Step by Step Approach, **8<sup>th</sup> edition**, Bluman, McGraw Hill

### **Required Hardware/Software**

- Access to the internet to use Desire2Learn login at <http://my.pdx.edu> and go to the Courses tab and select the current term, then click on the title of the course, or go directly to <http://d2l.pdx.edu>.
- ALEKS 360 access code. Instructions on purchasing available in the intro module in D2L.
- Microsoft Excel running in Windows with the Data Analysis Add-in, available in all PSU campus computer labs. Note the new Mac operating system does not support the Data Analysis Tool. You will have to run Windows on your mac, find access to a PC for computer lab assignments, or download a statistics add on. I would recommend the free version of StatPlus. I don't have a Mac though and so I won't have directions on how to use this add on but the link will be posted in D2L.
- A TI-84 or TI-83 graphing calculator with advanced statistical program is **required**. The graphing calculator will be used **HEAVILY** throughout this course. A TI-89 can also be used if you have the stat-list editor app (if you bring your calculator the during the intro class I can load this app on to your TI-89 for free). Other brands will work, just make sure you calculator has a statistics menu that will find probability distributions and confidence intervals.

### **Desire2Learn and Technology Assistance**

If you cannot access your course through the courses tab at my.pdx.edu you can contact the **PSU Help Desk** either by email ([help@pdx.edu](mailto:help@pdx.edu)) or by phone (503-725-HELP). If you are local you can visit the PSU Help Desk in Room 18 of SMSU.

## Assignments and Grading

Your final grade in this course will be determined by your performance on the following activities:

- **Excel Computer Lab Assignments (10%)** These labs are done using the software Microsoft Excel, instructions are posted in Desire2Learn. Electronic copy is submitted via the Dropbox tool in D2L by the due date posted in the Desire2Learn Calendar. No late work is accepted, you can submit the assignment prior to the lab due date.
- **Online Homework and Assessment (ALEKS pie & quizzes) (20%)** Access the ALEKS homework.
- **Midterm Exam (35%)** The midterm is scheduled for **May 2<sup>nd</sup>**, 10:00-11:50.
- **Final Exam (35%)** The final exam is cumulative and is scheduled for **June 6<sup>th</sup>**, 10:00-11:50.

**Note: Students that do not get a passing grade on the final exam will not receive a passing grade in the course even if you overall percent is in the passing range.**

Grade Scale	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
%	93-100	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	63-66	60-62	<60

- Exams and quizzes cover concepts from homework, lecture, & the text. Materials to bring:
  - **Valid PSU photo ID (the white card or the PSU1 green card).**
  - A graphing calculator with an advanced stat program. All other electronic devices, including computers and cell phones, are not to be in use during the exams.
  - One 8.5" x 11" page of notes filled out on both sides. This can be typed or handwritten.
  - Bring a SASE with 2 stamps for the return of your exam (or pick up during office hours).
  - Glossy Formula Sheet
  - #2 pencil (or .5 lead) with an eraser.
  - Hypothesis Testing Guide

## Course Description

Statistics 244 is the second of a two quarter sequence in probability and statistics designed primarily for non-math students. This course covers chapters 8 through 13 from the text. This course serves as an introduction to inferential statistics. Included in this will be techniques to make inferences from samples to populations. We will be looking at hypothesis testing, confidence intervals, correlation, regression, analysis of variance, non-parametric statistics and the use of statistical computer packages. Most majors require that this course be taken for a letter grade and not a P/NP.

**The prerequisite for this course is a C- or above grade in Stat243.** Students can register for this course when they are concurrently enrolled in Stat243, however you will be dropped from the course the second week of classes if you do not meet this prerequisite and may still have to pay partial tuition. A basic understanding of computers and the MS Windows operating system is also required.

## Communication

Desire2Learn has an internal email system that will also be used in this course for correspondence involving more personal matters that should not go into the discussion forums. You can set your Desire2Learn e-mail to forward to your regular e-mail account so that you do not miss the reply messages. You cannot reply to forwarded e-mail. To reply you have to be in the Desire2Learn email tool.

## Learning Objectives

After successfully completing this course, students should be able to:

- Calculate and interpret simple descriptive statistics (e.g., mean, median, mode, standard deviation).
- Interpret data and graphs critically.
- Utilize sound methods to draw trustworthy conclusions based on data.
- Have sufficient command of the concepts and terminology of probability and statistics to engage in work, study, and applications.
- Calculate and interpret interval estimates for means, proportions, standard deviations and variances.
- Perform hypothesis tests for means, proportions, standard deviations and variances.
- Perform an analysis of variance.
- Perform a linear regression analysis.
- Utilize Excel to create and interpret statistical output.

## General Course Policies

- **Grades**-Official grades for the course will be posted to student records at the end of the term using the Portland State University [Grading System](#).
- **Refunds**-Portland State University's standard policies for registration, withdrawals, and [tuition refunds](#) apply to this course during the academic quarter. Refund and withdrawal options are based on the university's [Academic Calendar](#) and the deadlines provided apply to all courses, regardless of whether the primary work is completed in the first five or second five weeks of the term. For on-line courses, the last login date to D2L is considered your last day of attendance. Consult with the instructor if you have any questions regarding withdrawing from the course.
- **Late Paper/Assignment Policy**-Unless otherwise stated, the following policy applies to all late assignments and exams: You will be given a 0 if you miss or turn in late an assignment, quiz or exam without prior approval of the instructor. The **only** exceptions to these rules are for medically approved absences or other extenuating circumstances supported by appropriate documentation and the instructor's **prior** consent. Please note that while the computer may allow you to submit an assignment late, it is solely the instructor's discretion as to whether late assignments will be graded and whether any penalties apply.
- **Academic Accommodations and Disability Services**- If you are a student with a documented disability and have already registered with the [Disability Resource Center](#) (DRC), please contact the instructor immediately to arrange academic accommodations for this class. To register for services visit PSU's [DRC](#).
- **Portland State University Student Code of Conduct**-[Code of Student Conduct and Responsibility](#).
- **Academic Integrity**- By turning in an examination, paper, assignment, or in providing discussion board contributions, you (the student) certify that the work was produced without plagiarism or other forms of academic dishonesty. Quoting from the [University Bulletin](#): acts of academic dishonesty, include, but are not limited to, plagiarism, buying and selling of course assignments and research papers, performing academic assignments for other persons, unauthorized disclosure and receipt of academic information, and other practices commonly understood to be academically dishonest. If you have questions about what constitutes academic dishonesty or the university's policies on this matter you should carefully review the current the [University Bulletin](#); Ignorance of these rules is not an acceptable excuse for misconduct in this course. Students who are discovered engaging in such conduct will, at a minimum, receive no credit on the assignment for which the conduct was related. More formal proceedings may also be initiated at the discretion of the instructor. Questions regarding this policy may be addressed to the instructor or to the Office of Student Affairs (503-725-4422). **This includes digital copies of computer lab assignments.**
- **English Usage**- Your responses on homework and exams will be graded for content as well as spelling and grammar. If you have difficulty with written expression I recommend you avail yourself of the many services provided on campus for this purpose (See the [PSU Writing Center](#) site or the [Learning Center](#)).
- **Free Tutoring**- Math tutors are available free through PSU. Tutor are available in the [Learning Center](#) and the [Math Dept](#). Check the schedule to determine the hours most convenient for you.