

Instructor: Rosanna Overholser, 178 Boivin Hall, 885-1475, rosanna.overholser@oit.edu

Web Page: <http://math.oit.edu/~overholser> Please check this site frequently for updates to course materials and calendars and for homework assignments. Grades will be posted in Canvas.

Office Hours: 10-12pm Tuesday, 4-5pm Wednesday, 4-5pm Thursday and by appointment.

Textbook: Mathematical Statistics, by Oregon Tech's own Gregg Waterman. You may purchase a print copy of this book from the bookstore or access a pdf online for free at <http://math.oit.edu/~watermang/465book.pdf>. Please bring this book to class each day.

Supplemental Problems: Fifty Challenging Problems in Probability with Solutions by Frederick Mosteller. You can purchase both an ebook and print copy directly from Dover Publications online for \$11.

Other materials: In addition to the workbook, you will need to bring a **scientific calculator** to class. Occasionally I'll ask you to simulate answers to problems on a computer: you may either use a campus computer (BH 126 is often open), check out a laptop from the library, or use your own.

Course Goals and Objectives: After completing this course, students will be able to

1. Apply counting principles.
2. Solve classical probability problems.
3. Use general, special, and joint distributions to solve problems.

Course Grade: Your course grade will be based on the following components:

- *Midterm Exams:* There will be two exams given during the term. These exams will be held during regular class periods, and in our regular room. See the schedule at the end of this syllabus for exam dates. Make-up exams can be given for previously arranged absences if you have a good reason to miss an exam.
- *Final Exam:* The final will be given during the time period listed in the schedule below. It will be comprehensive. **The final MUST be taken at the designated time, so make all travel arrangements accordingly.**
- *Homework:* There will be six written assignments due throughout the term, in which you will write up detailed solutions to a few problems. In addition, daily practice problems from the textbook will be assigned, but not collected. Answers to these practice problems are in the back of the textbook.
- *Quizzes:* A quiz will be given each week without exams, generally on Mondays. Quizzes will be held during the first 10 minutes of class. No formula sheets or calculators are allowed unless permission is explicitly given on the quiz. Each quiz will consist of a few practice problems from the previous week's homework assignment.

Note: on Monday, October 7th the first quiz will be given.

Course grades will be computed from the above as follows:

- 30% of your grade will be determined by the average of the two midterm exam scores (15% each).
- 20% of your grade will be determined by your final exam score.
- 25% of your grade will be determined by your best 5 (out of 6) written homeworks.
- 25% of your grade will be determined by your best 5 (out of 6) quiz scores.

Letter grades will be assigned using the scale 90-100% \Rightarrow A, 80-89% \Rightarrow B, 70-79% \Rightarrow C, 60-69% \Rightarrow D, and below 60% is an F.

Other Things of Importance:

- *Incomplete Grades:* An incomplete grade can only be assigned to you under the following circumstances:
 1. You have/had a grade of 70% or better (including zeros for any work not done) by the date to withdraw with a W.
 2. You have a SERIOUS problem that begins after the withdraw date and prevents you from being able to complete the term.

An incomplete grade will definitely not be assigned in the event that you are not performing well in the course and fear that you may not obtain a passing grade!

- *Illness:* In the event that you are ill, please stay home and rest! You can always read the lecture notes online afterwards or ask a classmate to fill you in.
- *Disabilities:* Students with a documented disability who require assistance or academic accommodations should contact the office of Disability Services immediately to discuss eligibility. Disability Services staff are located on both the Klamath Falls and Wilsonville campuses, however arrangements can be made to meet with a student on any campus. Meetings are by appointment only, so please contact the Disability Services office at the campus closest to you: Klamath Falls (541) 885-1790 and Portland-Metro (503) 821-1305. Specific information and Disability Services forms can be found at www.oit.edu, then go to “Academics” and click on “Student Success Center” and then “Disability Services.” This link leads to the department’s website: <http://www.oit.edu/academics/ssc/disability-services>
- *Oregon Tech Campus Wide Syllabus:* Policies and resources for all Oregon Tech students may be found under the syllabus link in Canvas.

Calendar: Below are some important dates for the term. Please check the website frequently for any updates.

September 30th - Classes begin

October 11th - Last day to withdraw without a “W”

October 28th - Exam One

November 11th - Holiday

November 15th - Last day to withdraw with a “W” from this course

November 25th - Exam Two

November 27-29th - Holiday

December 11th, 2-4pm - Final Exam (in our regular room)