

MATH 3800-001 SPRING 2007
PROBABILITY AND STATISTICS FOR
ENGINEERS
MW 1:00 PM – 2:15 PM SI 138
COURSE SYLLABUS

Instructor: Oleg V. Poliannikov
Office hours: CU Denver building, Room 611
MW 3–5 PM
Phone: (303) 556-4809 (office)
(303) 556-8442 (Department's main line)
Fax: (303) 556-8550 ATTN: Oleg V. Poliannikov
E-mail: Oleg.Poliannikov@gmail.com
WWW: <http://blackboard.cudenver.edu>
Department Lynn Bennethum, CU building, Room 638
Associate Chair: (303) 556-4810

Course Objectives

This course will cover basic probability and statistics. Topics for the course include: fundamental of probability, random variables: discrete and continuous distributions, joint random variables, hypothesis testing and statistical estimation: point and interval based, basic regressions.

Prerequisites

Good knowledge of 1D calculus is essential. Formally, MATH 2421 is a prerequisite and MATH 2411 is a corequisite. Prerequisites will be strictly enforced.

Required Text

The text for this course is Jay L. Devore, “Probability and Statistics for Engineers and the Sciences”, Thomson Brooks/Cole; 6 edition, ISBN 0-534-39933-9. We will follow it pretty closely, although occasional variations are expected.

Grading Policy

The final grade will be based on homeworks, 2 midterms, and a final exam. The homeworks will be given a weight of 40% and each exam will weigh 20%. The dates for the midterms are March 26 and April 23. Those cannot be changed unless the campus is closed. The lowest homework score will be dropped. *Any corrections to grading must be reported within a week after that particular assignment is returned.* After that the grade cannot be changed. No late assignments will be accepted. If circumstances arise that prevent you from submitting an assignment on time, contact the instructor ahead of time (if the problem is foreseeable) or immediately afterwards (otherwise). No make up work will be given. A grade for a missed homework (with a valid excuse) will be replaced with the average over others. Attendance to class is strongly recommended but not a factor in the final grade.

Important: Turning homeworks by email is acceptable so long as it is in a *single PDF file* of letter size. It is your responsibility to convert any scans that you might have to this format. Homeworks submitted in any other format will not be considered.

A letter grade will be assigned according to the following table¹:

<i>A</i>	93–100
<i>A–</i>	90–92
<i>B+</i>	87–89
<i>B</i>	83–86
<i>B–</i>	80–82
<i>C+</i>	77–79
<i>C</i>	70–76
<i>D</i>	60–69
<i>F</i>	0–59

¹Note that there is no grade of *C–* in this course.

Cheating

Cooperation between students while working on assignments is permitted and encouraged. Each write-up, however, should be the student's own work. Duplications of papers or parts thereof constitutes cheating. Submitting work that the student does not understand also constitutes cheating. Penalties for cheating vary from a zero grade for a particular assignment up to a course grade of *F* or even expulsion from the University.

Incompletes

Incomplete grades (IW or IF) are *not* granted for low academic performance. To be eligible for an Incomplete grade, students *must*

1. successfully complete a minimum of 75% of the course,
2. have special circumstances beyond their control that preclude them from attending class and completing graded assignments, and
3. make arrangements to complete missing assignments with the original instructor.

Verification of special circumstances is required. Completion of a CLAS Course Completion Agreement is strongly suggested. Incompletes cannot be awarded that stipulate

1. a student may repeat the entire course,
2. repeat or replace existing grades,
3. allow the student an indeterminate period of time to complete a course,
or
4. allow the student to repeat the course with a different instructor.

The CLAS Course Completion Agreement is available from the CLAS Advising Office, NC 2024.

Disability Accommodations

The faculty at the University of Colorado system have both a legal and moral obligation to provide reasonable accommodations to students with disabilities. To be eligible for accommodations, students must be registered with the UCDHSC Office of Disability Resources and Services (DRS) (Arts Building, Room 177; 303-556-33450, 303-556-4766 TDD). The DRS staff has experience to assist faculty in determining reasonable accommodations and to coordinate these accommodations. If a student is given accommodations, they must be followed. If a student chooses not to accept the accommodations set forth by the DRS, they **MUST** complete all assignments and do all course work in the same manner as all other students. No exceptions or alternate forms of evaluation can be used except those mandated by the DRS. Faculty cannot arbitrarily decide to give a student extra time, extra assistance or other forms of aid unless it is formally mandated by the DRS.

Spring 2007 CLAS Academic Policies

The following policies pertain to all students and are strictly adhered to by the College of Liberal Arts and Sciences (CLAS).

- Every student *must* check and verify their schedule prior to the published drop/add deadlines. Failure to verify a schedule is not sufficient reason to justify a late add or drop later in the semester. It is the student's responsibility to make sure that their schedule is correct prior to the appropriate deadlines.
- CLAS students must always have an accurate mailing and email address. Email is the official method of communication for all University of Colorado at Denver and Health Sciences Center business. Go to <http://www.cudenver.edu/registrar> to update and/or change your email address.
- Students are *not* automatically added to a course off a wait list after wait lists are dropped. If a student is told by a faculty member that they will be added off the wait list, it is the responsibility of the student to complete the proper paperwork to add a course. Students are *not* automatically added to a course from the wait list after the 5th day of the semester when wait lists are dropped.

- Students must complete and submit a drop/add form to make any schedule changes. Students are not automatically dropped from a class if they never attended, stopped attending or do not make tuition payments.
- Late add's will be approved only when circumstances surrounding the late add are beyond the student's control and can be documented independently. This will require a petition and documentation from the student. Late add's will only be approved if the student has not taken any exams, quizzes, or has not completed any other graded assignments. Independent verification of this from the professor of record will be required. Please note that the signature of a faculty member on an add form does not guarantee that a late add petition will be approved.
- Late drops will be approved only when circumstances surrounding the late drop are beyond the student's control and can be documented independently. This will require a petition and documentation from the student. Please note that the signature of a faculty member does not guarantee that a late drop petition will be approved.
- Students wishing to graduate in spring of 2007 must meet with their academic advisor by the end of the drop/add period to obtain a graduation application. This application must be completed and submitted by 5 PM on January 31, 2007. You can obtain an application ONLY after meeting with your academic advisor. There are no exceptions to this policy or date.
- Students are responsible for completing financial arrangements with financial aid, family, scholarships, etc. to pay their tuition. Students will be responsible for all tuition and fees for courses they do not officially drop using proper drop/add procedures and forms.
- Students who drop after the published drop/add period will not be eligible for a refund of the COF hours or tuition.

Spring 2007 Important Dates

Dates	Important Events
January 16, 2007	First day of Class
January 18, 2007	Last day to be added to a wait list
January 18 - January 31, 2007	Students are responsible for verifying an accurate spring 2007 course schedule via the SMART registration system. Students are <i>not</i> notified of their wait-list status by the university. All students must check their schedules prior to January 31, 2007 for accuracy.
January 19, 2007 at 5 PM	Wait lists are dropped. Any student who was not added to a course automatically from the wait list by this date and time <i>must</i> complete a drop/add form to be added to the class. Students are <i>not</i> automatically added to the class from the wait list after this date and time.
January 22, 2007	First day an instructor may approve a request to add a student to a course using the Schedule Adjustment Form (drop/add form).
January 25, 2007	Last day to add a course using the SMART Web Registration system. Students <i>must</i> check their registration to verify what classes they are enrolled in.
January 31, 2007 at 5 PM	Last day to add structured courses without a written petition for a late add. This is an absolute deadline and is treated as such. This deadline does not apply to independent study, internships, and late-starting modular courses.
January 31, 2007 at 5 PM	Last day to drop a spring 2007 course with a full tuition refund and no transcript notation. Drops after this date will appear on your transcript. <i>This is an absolute deadline and is treated as such.</i>
January 31, 2007 at 5 PM	Last day to completely withdraw from all spring 2007 courses with a full tuition refund and no transcript notation. Drops after this date will appear on your transcript. <i>This is an absolute deadline and is treated as such.</i>

Continued on next page

Dates	Important Events
January 31, 2007 at 5 PM	Last day for students to apply for Spring 2007 Graduation. Students <i>must</i> see their CLAS advisor to obtain a Graduation Application.
January 31, 2007 at 5 PM	Last day to request pass/fail option for a course.
January 31, 2007 at 5 PM	Last day to request a no credit option for a course.
January 31, 2007 at 5 PM	Last day to register for a Candidate for Degree.
January 31, 2007 at 5 PM	Last day to petition for a reduction in thesis or dissertation hours.
April 2, 2007 at 5 PM	Last day for Non-CLAS students to drop individual classes or withdraw from all classes without a petition and special approval from the student's academic Dean. <i>This is treated as an absolute deadline.</i>
April 13, 2007 at 5 PM	Last day for CLAS students to drop individual classes or withdraw from all classes without a petition and special approval from the student's academic Dean. <i>This is treated as an absolute deadline.</i>

No schedule changes will be granted once finals week has started. There are *no* exceptions to this policy.

Feedback and Help

The instructor's job is to help you succeed in this class. Please do not hesitate to ask questions, give your comments and otherwise ensure that your concerns are heard. *Always remember that problems that are unknown to the instructor cannot be resolved.* If you are reluctant to talk in person (you shouldn't be but it happens often), send an anonymous note through the Department rather than keep silent. Other ways to obtain help are:

The Center for Learning Assistance:

This is where students go to get help or insight with class assignments, course-loads, and study skills. The Center also helps with arranging tutoring sessions, which take place in the days or evenings.

North Classroom Building (NC) Room 2006
(303) 556-2802
Monday - Thursday 8AM - 7PM
Friday 8AM - 5PM

Program Access for Persons with Disabilities:

The University of Colorado at Denver is committed to providing reasonable accommodations and access to programs and services to persons with disabilities. Students should contact the Disabilities Services Offices.

Arts building 177
(303) 556-3450
TTY (303) 556-8484

Academic Advising Center:

This office serves as the first point of contact for students who are pre-business, pre-engineering, or who have not declared a major in CLAS or CAM. In addition, the center provides general information and resource referral to all students.

North Classroom Building (NC) Room 1
(303) 352-3520

Career Center:

The Career Center offers a full array of services that prepare students for career success, such as resume help, internship and career counseling and they have a large career library.

Tivoli Student Union Room 260

Miscellaneous

- All new information in this course will appear on the website. It is a student's responsibility to check it often for new announcements, assignments etc.
- Students are required to maintain academic environment in the classroom. Cell phones must be turned off while in class. No food is allowed. (Drinks are acceptable.)