

Instructor: Matthew Van Wyhe

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Office Hours: Monday 03:00-04:00 and Friday 12:00-02:00 PM in ECON 401

Textbook: Essential Mathematics for Economic Analysis 3rd ed. by K. Sydsaeter and P. Hammond.

Final: The final will be at 4:30-7:00 p.m. on Mon. Dec 17

Course Description: This class will give you mathematical tools that are essential to understanding and completing further courses in economics. This class is primarily a math class, but I will try incorporate examples throughout the semester that relates the material we cover with concepts in economics.

Calculator: As this is a course designed to teach mathematical techniques you will need a calculator that can do basic mathematical functions. These include exponentials, logarithms, radicals, and factorials (\log , \ln , e^x , $\sqrt[n]{\quad}$ and $x!$). Any basic scientific calculator will perform these functions. While a graphing calculator may be useful in doing some of the homework problems, you cannot use a graphing calculator on exams or in-class assignments. You also cannot use a cell phone calculator on in-class assignments or exams.

Grading: Your attendance will not directly affect your grade, however, missing classes will make it difficult to do well. Class notes will not be posted online and there will likely be tested material that is not found in the textbook. This course will be graded on the basis of your performance on problem sets, in-class quizzes, two midterms, and one final. The breakdown of your grade is as follows:

Quizzes	5%
Problem Sets	25%
Midterm 1	20%
Midterm 2	20%
Final Exam	30%

Grades will be curved as needed. If a curve is used, it will never lower anyone's grade.

Quizzes: There will be unannounced quizzes in classes throughout the semester. There will be no make up quizzes, so missing one will result in a zero for that quiz. The lowest quiz grade will be dropped. These quizzes do not have a large impact on your grade and the purpose of them is to

give you an indication of how well you understand the course material leading up to midterms and the final.

Problem Sets: The problem sets will be announced in class and posted online at least 1 week before they are due. They are to be handed in at the beginning of the lecture on the due date. Late homework will not be accepted and the lowest homework grade will be dropped. I will primarily assign problems out of the textbook but occasionally have additional problems as well. I encourage you to work in groups to complete the homework, but each student must turn in separate and hand-written work.

Midterms: Midterms will given during the regular lecture times on the dates specified in the course outline. There will be no make-up midterms. If there is a legitimate emergency which causes you to miss a midterm, please contact me as soon as possible (preferably before the midterm) and the final will become 50% of your overall grade. The material covered in the midterms will not be cumulative, and I will specify in class before each midterm exactly what material will be tested. Let me know in the first week if you need special accommodations for test taking.

Finals: The final will be cumulative. There are no make-ups for the final. If you have a conflict (3 or more finals on the same day) let me know as soon as possible, but no less than four weeks before the final exam, so I can make arrangements for a different time for you. Also, let me know in the first week if you need special accommodations for test taking.

Course Outline: Below is the tentative course outline. I will attempt to follow the schedule as closely as possible, but it is likely there will need to be some adjustments. However, the dates for the midterms and the final will not change.

Course Outline (Tentative):		
Week of:	Topic	Course Material
8/27	Introduction, Algebra	First Day 1.1, 1.2, 1.3
9/3	Algebra cont.	No Class 9/3; 1.4, 1.5, 1.6, 1.7
9/10	Equations	2.1, 2.2
9/17	Equations cont.	2.3, 2.4, 2.5
9/24	Review and Midterm	9/24-Finish up Material; 9/26-Review; 9/28-Midterm 1;
10/1	Summations, Set Theory, Logic	3.2, 3.3, 3.4, 3.6, 3.7
10/8	Functions	4.1, 4.2, 4.3
10/15	Functions cont.	4.4, 4.5, 4.6
10/22	Functions cont.	4.7, 4.8, 4.9, 4.10
10/29	Properties of Functions	5.1, 5.2, 5.3
11/5	Review and Midterm	11/5-Review; 11/7-Midterm 2; 11/9-Go over Midterm
11/12	Properties of Functions cont.	5.4, 5.5, 5.6
11/19	Fall Break	No classes all week
11/26	Matricies	15.1, 15.2, 15.3
12/3	Matricies cont.	15.4, 15.5, 15.6
12/10	Review Week	Finish remaining topics, Review for Final

Students with Disabilities: If you qualify for accommodations because of a disability, please

submit to me a letter from Disability Services in a timely manner so that your needs be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Center for Community N200, and <http://www.Colorado.EDU/disabilityservices>.

If you have a temporary medical condition or injury, see guidelines at <http://www.colorado.edu/disabilityservices/go.cgi?select=temporary.html>.

Disability Services' letters for students with disabilities indicate legally mandated reasonable accommodations. The syllabus statements and answers to Frequently Asked Questions can be found at <http://www.colorado.edu/disabilityservices>.

Religious Observance Policy: Campus policy regarding religious observances requires that faculty make every effort to deal reasonably and fairly with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. If you have a conflict, please contact me at the beginning of the term so that we can make proper arrangements. See full details at http://www.colorado.edu/policies/fac_relig.html.

Classroom Behavior Policy: Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, color, culture, religion, creed, politics, veterans status, sexual orientation, gender, gender identity, and gender expression, age, disability, and nationalities. Class rosters are provided to the instructor with the students legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See policies at <http://www.colorado.edu/policies/classbehavior.html> and at http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code.

Discrimination and Harassment Policy: The University of Colorado at Boulder Discrimination and Harassment Policy and Procedures, the University of Colorado Sexual Harassment Policy and Procedures, and the University of Colorado Conflict of Interest in Cases of Amorous Relationships Policy apply to all students, staff, and faculty. Any student, staff, or faculty member who believes s/he has been the subject of sexual harassment or discrimination or harassment based upon race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127, or the Office of Student Conduct (OSC) at 303-492-5550. Information about the ODH, the above referenced policies, and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>.

Honor Code: All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-735-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode/>.