

Abilene Christian University

Spring 2012



MATH 130.01: Finite Math for Applications

MWF 8:00 - 8:50

Foster Science Building 204

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Course Blog: blogs.acu.edu/1220_MATH13001

Dr. John Ehrke

Assistant Professor of Mathematics

Office: Foster Science Building 229

Required Texts: The following text is required for this course and may be purchased in the campus book store, or ordered online at the student's discretion. Please bring this text everyday to class.

Barnett, Raymond A., Byleen, Karl E., and Ziegler, Michael R. *Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences*. Prentice Hall, 12th edition, 2011. ISBN 0-321-61401-8

Course Materials: A graphing calculator is required for this course. Calculators will not be loaned out during class and cannot be exchanged between students during tests or quizzes. Students may choose either a TI-83, TI-83 plus, or TI-84 calculator for use in class—**no exceptions or substitutions!**

Course Description: This course introduces mathematical reasoning as it relates to developing problem solving skills. The course is designed to rely heavily on the use of the required calculator. The skills developed in the course are an integral part of modeling and solving real world problems and the course will emphasize such. The ACU course catalog description is provided below:

MATH 130 Finite Math for Applications (3-0-3), fall, spring, Fundamental concepts of mathematics applications for business, economics, and the social and behavioral sciences. Math of finance, sets, introduction to probability, functions and mathematical modeling. Prerequisite: meet one of the following - MATH SAT of 500; MATH ACT of 20; or COMPASS placement into MATH 130. For COBA, information technology, and agribusiness majors only. Will satisfy the University Core mathematics requirement. Same as MATW 130.

Mission Statement: This course supports ACU's mission statement of preparing students for Christian service and leadership throughout the world by providing students a foundational understanding of the mathematical principles such as problem solving and decision making, as well as exposing students to the role of mathematics in a Christian worldview.

Departmental Mission: The mission of the Department of Mathematics is to educate students to be quantitative and analytical thinkers in preparation for Christian service and leadership throughout the world.

Grading Components: This course employs a standard grading scale. The specific grading components and associated percentages are described below.

90%	80%	70%	60%	<60%
A	B	C	D	F

Exams (60%): There will be three in-class exams this semester. Each exam will closely resemble the homework and cover approximately one unit of material. Each exam is worth 20% of your overall semester grade. Practice exams will be made available online prior to each exam.

Exam 1	Mathematical Models of Business	Chapters 1-2,4	Monday, February 13
Exam 2	Finance	Chapter 3	Wednesday, March 7
Exam 3	Reasoning with Uncertainty	Chapter 7-8	Friday, April 27

Daily Work (20%): Homework will be assigned regularly throughout the semester. Homework will normally be made available on the course blog up to one week before it is due. You will always have at least a weekend in which to complete the assignment. On occasion, for important topics, we will have an in-class quiz. Quizzes are usually given in the first 10 minutes of class and cannot be made up if missed. I will take your 10 best daily grades from throughout the semester to count toward your daily work grade. Daily work comprises 20% of your overall semester grade.

Final Exam (20%): A comprehensive final exam will be given in this course. The final exam is scheduled for 10:30-12:30, Tuesday May 8. University policy prohibits the giving of any final exam early. You must take the final exam at the allotted time. Make your end of semester plans accordingly. If you do not have too many absences (see the attendance policy section) you may use your final exam to replace your lowest exam grade from the semester. The final exam comprises 20% of your overall semester grade.

Attendance Policy: Your regular attendance is both necessary and expected. You are responsible for all material covered while absent and will be expected to take regularly scheduled exams and are responsible for turning in work on the assigned dates. Attendance will be recorded at the beginning of each class. If you come in after attendance is taken you will be counted absent. So make every effort to arrive in class on time, prepared for class. Only university approved absences can exempt you from being counted absent. Per university policy, university approved absences must be cleared with the instructor one week in advance. Make your sponsors aware that failure to comply with this policy will affect your attendance record in this class. The following actions will be taken at different absence levels:

Number of Absences	Consequences
0-5	No action taken
6-7	Students will be emailed notifying them of their current number of absences and reminding them of the attendance policies
8-11	Students with this many absences will be unable to use their final exam to replace a low test grade.
12+	Students with 12 absences will be dropped from the course.

Homework Policy: Homework sets will be assigned periodically throughout the semester. You should form the habit of doing the relevant problems between successive lectures and not try to do the whole set the night before they are due. Solutions will be made available online. I encourage collaboration in this course, but I insist on honesty about it. If you do your homework in a group, be sure it works to your advantage rather than against you. **Good grades for homework you have not thought through will translate to poor grades on exams.** You must turn in your own write-ups of all problems, and, if you do collaborate or use outside resources, you should reference them on your solution sheet. Failure to do so constitutes an act of academic dishonesty.

Make-up Policy: After an exam has been graded and handed back in class, it will not be accepted for a grade under any circumstance. In the case of a university excused absence, it is the student's responsibility to make arrangements with the instructor regarding due dates. **Exams cannot be made up if missed except under extraordinary circumstances at the discretion of the instructor.** There will not be any work accepted for extra credit.

Academic Integrity Policy: The university policy regarding academic integrity is available online at <http://www.acu.edu/campusoffices/provost>. Students found guilty of an act of academic dishonesty will be subject to the following disciplinary actions in this course.

First Occurrence: A first violation will result in no credit for that particular assignment (even if it is an exam). No makeup will be allowed. The appropriate campus office(s) will be notified of the incident, and a notice of the incident will accompany your university records.

Second Occurrence: A second violation will result in your withdrawal from the course with a grade of F. A recommendation for suspension from the university will be made by the department.

Electronic Devices Policy: Please turn off all cell phones, beepers, pagers, alarms, .mp3 players, etc... unless such devices are being used for class purposes as indicated by your instructor. Headphones, listening to music, texting, and other uses of these devices not for class purposes are strictly prohibited during class. Frequent disruptions or failure to abide by this policy will be viewed as disruptive behavior and are subject to being dismissed from class and being counted absent. If the disruptions continue you will be dropped from the course.

Disability Accommodations: If you have a documented disability and wish to discuss academic accommodations, please feel free to contact me. The ACU Student Disability Services Office (a part of Alpha Academic Services) facilitates disability accommodations in cooperation with instructors. In order to receive accommodations, you must be registered with Disability Services and you must complete a specific request for each class in which you need accommodations. Contact Disability Services at 674-2667 for further information or to set up an appointment.

Tutoring Times: The mathematics department offers tutoring for this course. Tutoring sessions are staffed by undergraduate mathematics students and are come and go events. There are usually several students vying for attention from the student workers so please come prepared to ask specific questions and be respectful of other students seeking help. Tutoring times for this semester are given below. All tutoring for MATH 130 takes place in FSB 205.

Monday:	3:00 - 5:00, 6:00 - 9:00
Wednesday:	3:00 - 5:00
Thursday:	6:00 - 9:00

Office Hours: Below is my schedule for Spring 2012. The times marked "Office Hours" represent the times I will make myself available to work with you on homework, understanding lectures, or for any other questions you might have. Please take advantage of these opportunities. If you find that none of these times work for you, feel free to email me at john.ehrke@acu.edu or call me at 674-2162 to set up an alternate appointment. No appointment is needed if you attend regularly scheduled office hours. This schedule is posted on the front of my office door as well.

Spring 2012	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 – 8:30	MATH 130		MATH 130		MATH 130
8:30 – 9:00	MATH 130		MATH 130		MATH 130
9:00 – 9:30	MATH 186		MATH 186		MATH 186
9:30 – 10:00	MATH 186		MATH 186		MATH 186
10:00 – 10:30	MATH 440	Office Hours	MATH 440	Office Hours	MATH 440
10:30 – 11:00	MATH 440	Office Hours	MATH 440	Office Hours	MATH 440
11:00 – 11:30	Lunch - Meetings				
11:30 – 12:00					
12:00 – 12:30					
12:30 – 1:00					
1:00 – 1:30					
1:30 – 2:00					
2:00 – 2:30	Office Hours		Office Hours		Office Hours
2:30 – 3:00	Office Hours		Office Hours		Office Hours
3:00 – 3:30	Office Hours		Office Hours		
3:30 – 4:00	Office Hours		Office Hours		