

APPLICATIONS OF MODERN MATH, Math 1493 TR 10:30 Syllabus, Spring 2015

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Office hours:	9:00-10:20am Tuesday and Thursday 11:50-12:20 Tuesday and Thursday Other times are available by appointment. Please arrange appointment times by e-mail. Office hours at MLSC (5 th floor of Library): 3:30-4:20 Thursday		
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Course Description:

This course covers various applications of mathematics, particularly practical applications. It is designed to be a general education mathematics course for majors that do not require further mathematics. It is intended to be self-contained; it neither assumes any math background nor is it preparatory for further mathematics courses.

Textbook and Portal Access:

Two options:

You may use the physical book together with access to MathPortal: *Quantitative Literacy: Thinking Between the Lines*, 1st edition, with MathPortal Access Card, by Crauder, Evans, Johnson, and Noell, ISBN 978-1-4641-4064-8.

OR

You may use MathPortal by itself since it contains the eBook, an electronic version of the complete text of the physical book. To use this in class, though, you'll need to bring a laptop computer to class. *MathPortal for Quantitative Literacy Access*, ISBN 978-1-4292-4412-1, is available at the OSU Bookstore or directly from the publisher.

To sign up for this course on the MathPortal, you should:

1. Go to <http://courses.bfwpub.com/quantlit.php> (Mac users need to use Firefox).
2. Click on the link "REGISTER AN ACTIVATION CODE."
3. You will be prompted to follow the on-screen instructions to find your course. They will start by selecting the school's state/province, the school name, then their instructor, course, and/or section.
4. You will enter the activation code that came with their textbook or that you purchase online. You will also be asked to enter their email address, choose a password and they will be ready to go!
5. You can also purchase access on the website by clicking on the "PURCHASE" link.

Calculator:

You will need a decent calculator that does scientific-type calculations. It should be able to do exponents and have an option for parenthesis. Graphing calculators are recommended but not required. Calculators may be checked out (subject to availability) from the Math Department (MSCS 401) any workday from 9 am-4 am.

Tutoring: There is free tutoring available in the Math Learning Success Center (MLSC), located on the fifth floor of the OSU Library. The MLSC is open 9:00AM- 9:00PM Monday through Thursday, 9:00AM-5:00PM on Friday and 1:00PM- 9:00PM on Sunday. More information about the MLSC is available at <http://math.okstate.edu/mlsc>

Exams (400 points): There will four exams, each worth 100 points. The dates are:

Exam 1: Thursday, Feb. 5	Exam 2: Thursday, Mar. 5
Exam 3: Thursday, Apr. 9	Final Exam: Tuesday, May 5, 10:00-11:50am

Written Homework (100 points):

Homework must be turned in on or before the date it is due. No late homework will be accepted. Homework assignments are made most weeks and are worth 20 points each. The top 10 scores will be used for a possible 200 points.

MathPortal (100 points):

MathPortal has a great collection of resources that will be very helpful to you in doing homework, studying for exams, and in general learning the material. There will be assignments, about two per week, which will be worth a total of 100 points.

Attendance: Attendance will be taken during each class session; you must be present for the entire class session in order to be counted as present. Students will begin the semester with 100 points for Attendance - for each absence, 5 points will be deducted. In the event it improves the final grade, the Attendance grade will be averaged with the lowest 100 point exam grade.

Course Evaluation: Course grades will be determined according to the following distribution.

Written Homework	200 points
MathPortal	100 points
Exams	<u>400 points</u>
TOTAL	700 points

A: 90% or higher	B: 80-89.5%	C: 70-79.5%	D: 60-69.5%	F: 59% or lower
630-700 pts.	560-629 pts.	490-559 pts.	420-489 pts.	0-419 pts.

Make-Up Exams: Make-up exams will be given only in extreme circumstances, if documentation for the absence can be provided and is verifiable. Valid reasons (documentation required) for make-up exams include:

- University activities (e.g. field trips, research presentations, athletic teams, etc.)
- Military obligation, jury duty or other mandatory court appearance
- Serious illness or injury in student or immediate family (parent, sibling, spouse, son, daughter)

If you believe a make-up exam may be applicable, please notify the instructor prior to the missed exam (if possible), informing her of the reason for missing the exam. Notification *after* the exam will only be accepted in an emergency situation. If you know several days in advance that you will miss an exam (jury duty, athletics, etc.), it may be possible to take an *early* exam. You must provide **appropriate documentation** for the absence.

Classroom Etiquette: The essence of etiquette is courtesy to your fellow students. Whether you are tweeting, texting, or just talking with your friend, you may be very distracting to others. Please turn off cellphones, iPods, etc during class. Laptop computers may be used only for purposes related to the material we are covering.

Incomplete Grade: The grade of “I” is given to students who satisfactorily completed the majority of the course work and whose work averages “D” or better, but who have been unavoidably prevented from completing the remaining work of the course. The conditions, including appropriate time limits, for the removal of the “I” are indicated on the official class roll by the instructor. A condition that the student must repeat the course in order to remove the “I” is not permitted. The maximum time allowed for a student to remove an “I” is one calendar year.

Academic Dishonesty/Misconduct: Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627. Go to academicintegrity.okstate.edu for a short video on OSU’s academic integrity policy and additional information.

Office of Student Disability Services: (015 University Health Services) - According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. Call 405-744-7116 or go to www.okstate.edu/ucs/stdis/.

Syllabus Attachment: You are individually responsible for meeting university deadlines and for following university procedures. The general university syllabus attachment, containing much information of this nature, can be found on the Academic Affairs’ web site (<http://academicaffairs.okstate.edu> and choose Faculty and Staff Resources, then the Syllabus attachment for the appropriate semester).

Final Note: Any changes in this syllabus will be communicated to you in class by the instructor.

Week	Date	Section(s) covered	Homework Assignments
1	Tues, Jan 13	Intro / 1.1	
	Thurs, Jan 15	1.1 / 1.4	1.1: 1-4, 12-20; 1.4: 11-24, 31, 32, 40-44
2	Tues, Jan 20	2.1 / 2.2	2.1: 1-6, 8-11, 23-26
	Thurs, Jan 22	2.2 / 2.3 HW #1 Due: 1.1-2.1	2.2: 1-9, 16, 17, 18
3	Tues, Jan 27	2.3 / 3.1	2.3: 1-4, 7-12, 21-24, 26-29; 3.1: 3-12, 33, 35-42, 47-55
	Thurs, Jan 29	3.2 HW #2 Due: 2.2-3.1	3.2: 1-3, 5-8, 15-18, 20, 24-27, 33-38, 40, 41
4	Tues, Feb 3	Review	
	Thurs, Feb 5	Exam 1	
5	Tues, Feb 10	3.3	
	Thurs, Feb 12	4.1 HW #3 Due: 3.2-3.3	
6	Tues, Feb 17	4.2	
	Thurs, Feb 19	4.3 HW #4 Due: 4.1-4.2	
7	Tues, Feb 24	4.4	
	Thurs, Feb 26	4.5 HW #5 Due: 4.3-4.4	
8	Tues, Mar 3	Review	
	Thurs, Mar 5	Exam 2	
9	Tues, Mar 10	5.1 / 5.2	
	Thurs, Mar 12	5.2 HW #6 Due: 4.5-5.1	
10	Mar 16-20	Spring Break	
11	Tues, Mar 24	5.3 / 5.5	
	Thurs, Mar 26	5.5 / 6.1 HW #7 Due: 5.2-5.3	
12	Tues, Mar 31	6.2	
	Thurs, Apr 2	6.3 HW #8 Due: 5.5-6.2	
13	Tues, Apr 7	Review	
	Thurs, Apr 9	Exam 3	
14	Tues, Apr 14	8.2 / 8.3	
	Thurs, Apr 16	8.3 / 8.4 HW #9 Due: 6.3-8.2	
15	Tues, Apr 21	9.1 / 9.2	
	Thurs, Apr 23	9.2 / 9.3 HW #10 Due: 8.3-9.1	
16	Tues, Apr 28	Review	
	Thurs, Apr 30	Review HW #11 Due: 9.2-9.3	
	Tues, May 5	Final Exam 10:00-11:50	