

**Math 1483 – Mathematical Functions and their Uses****Fall 2017****T/TH 12:30 pm – 1:45 pm****MSCS 514****Instructor:** Mark Denker**Office:** 412 MSCS**Office hours:**

Mondays, 412 Math Science Building, 3:30-4:30

Wednesday, MLSC (5<sup>th</sup> floor of the library), 4:00-6:00**Telephone:** 405-744-2291. This is an office line; it does not receive texts.**e-mail:** mark.denker@okstate.edu

**Course Objectives:** Students will learn to analyze linear, exponential, logarithmic, and other functions and their graphs from the viewpoint of rates of change. Special emphasis will be placed on applications to the natural sciences, agriculture, business, and the social sciences.

**Required Textbook Package and Supplies:**

- **Textbook and Homework Package:** This course has online homework. If you are enrolled in the course by the end of the second week of classes, the Bursar's Office will automatically charge your student account for the (online) book and homework package. If you wish to purchase a loose-leaf paper copy of the book, they are available at the bookstore for \$31.50. The title is *Functions & Change: A Modeling Approach to College Algebra*, 6<sup>th</sup> edition by Crauder, Evans, and Noell.
- **Graphing Calculator:** You are required to have a graphing calculator for this course. I will use a TI-83 graphing calculator for class demonstrations. You may check out a TI-83/TI-84 graphing calculator from the Mathematics Department (401 MS) for use during the semester while supplies last; there is no charge. Please get one early – they do run out.

**Course Evaluation:** Grades will be calculated according to the following system. Your grade will be (points scored/800)\*100.

Component	Points
Written homework	100
WebAssign homework	100
Midterm 1	100
Midterm 2	100
Midterm 3	100
Final exam	200
Attendance	100
TOTAL	800

Letter grades will be assigned as follows:

100 – 90	A	69 – 60	D
89 – 80	B	59 and below	F
79 – 70	C		

## Homework

You will find the **written** homework assignments in the Content area of our class D2L (Brightspace) site. The online homework problems can be found in Web Assign (<http://www.webassign.net/>).

**Written Homework:** Written homework will be due at the **beginning of the class period on THURSDAYS**. Late assignments will not be accepted, but you may submit your homework on time, by email, followed by the original, on paper, when you return to class.

- Homework assignment number must be at the top of every assignment.
- Problems must be submitted in the order assigned. The problem number (and only the problem number) must be written in the left-hand column.
- All work must be **neat and legible**. If I cannot read your work, I cannot give you credit for it.
- Answers must be in **complete sentences**.
- Homework with jagged edges will not be accepted.
- Pages must be stapled together (**not** dog-eared).

**Online Homework:** Online homework will be due on Mondays and Wednesdays at 11:59 PM. Late assignments will not be accepted.

**Examinations:** There will be three fifty-minute examinations and one comprehensive final exam. Make-up exams will be given only if you request and obtain approval in advance, and only for serious and unavoidable conflicts. Makeup exams will be arranged between the student and instructor. Serious and unavoidable conflicts do not include things like vacations, even if airline tickets are non-refundable and arranged by your family. Please **DO NOT** ask to take the final exam early. If you miss the final exam, you will be given the opportunity to take it the following semester.

Exams will be given in class on the following dates:

Exam 1 (Prologue & Sections 1.1 – 2.1) Sept. 14

Exam 2 (Sections 2.2 – 3.3 and 3.5 – 4.2) Oct. 19

Exam 3 (Sections 4.3 and 4.5 – 5.6) Nov. 16

The sections indicated in parentheses are subject to change.

The final exam will be given at the time scheduled in the OSU exam schedule (available at <http://registrar.okstate.edu/Exams>)

Tuesday, December 14

10:00 am – 11:50 am

MSCS 514

**Attendance:** Attendance is very important in any course. Not surprisingly, students who attend class regularly do better! Please come to class prepared to work. **Bring a notebook, a pencil, and your graphing calculator to class with you each day.** Please do not ask if it is okay for you to miss class or if what is covered in class on a given day is important; the decision to miss class is yours alone. You do not need, nor will you receive, my permission.

Attendance will be taken each day and is part of your grade. There are 31 course meetings, and since attendance is worth 100 points, each course meeting is worth  $100/31 = 3.23$  points. (If classes are cancelled due to weather or other events, the point value per class will be adjusted accordingly). Arriving late or leaving early will result in your not earning the full points for that day. Similarly, texting / surfing the web / otherwise being distracted will result in only partial credit for that day. You are allowed two missed classes without penalty, after which your attendance grade will drop by 3.23 points per missed class. Attendance points may be made up only in the event of an absence due to a university-sponsored event and at the instructor's discretion. Making up attendance points due to such an event requires appropriate documentation as to the nature of your participation.

**MLSC (Math Learning Success Center):** The MLSC is located on the 5<sup>th</sup> floor of the library. The schedule will be posted on D2L. It is an additional resource for help with your homework.

**Cell phones and other electronics:** Please turn off your cell phones in class, and put them away. Cell phones may not be used at any time during class, unless cleared in advance by the instructor. Use of a cell phone or other electronics during class for any reason, including but not limited to phone calls, texting, games, or use of the phone as a calculator is grounds for you being considered absent for the class.

**D2L Site:** All written homework assignments will be posted on the D2L site ([oc.okstate.edu](http://oc.okstate.edu)). Any additional information, such as additional office hours, will also be posted on D2L.

### **Additional University Information:**

**Syllabus Attachment:** OSU has compiled useful information that applies to all classes. A link will be posted on D2L. This website includes add/drop/withdrawal dates, university holidays, accommodations for students with disabilities, academic resources, and much more. You are responsible for reading this information now and having any questions answered.

**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. A condition that the students 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 Integrity:** The university has explicit rules governing academic integrity. Please consult the OSU Syllabus Attachment mentioned above. Working with another person or in study groups on problems can be helpful in learning the material. I encourage you to work together if you find it helpful. However, **all written and online work submitted must be your**

**own.** Academic dishonesty (cheating) will be dealt with as harshly as the university allows. Don't do it!

**Special Accommodations for Students:** If you think you have a qualified disability and need special accommodations, you should request verification of eligibility for accommodations from the Office of Student Disability Services.

**Any changes to this syllabus will be posted on the class site and communicated to students via email.**