

# Mathematical Functions and Their Uses

Spring 2015      MATH 1483      Section 002      MWF 9:30-10:20      CLB 219

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**Instructor:** Amanda Fox  
**Office:** 431 MSCS  
**Office Hours:** M/W 10:30-12:00 in 431 MSCS or by appointment  
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**Course Description:** Analysis of linear, exponential, logistic, and other functions and their graphs from the viewpoint of rates of change. Applications to the natural sciences, agriculture, business and the social sciences will be explored through the use of graphing calculators.

**Required Textbook and Supplies:**

**Textbook:** *Functions and Change: A Modeling Approach to College Algebra*, 5<sup>th</sup> edition by Crauder, Evans, and Noell. Students are expected to bring the text to each class.

**Graphing Calculator:** You are required to have a graphing calculator for this course. I will be using a TI-83 graphing calculator for class demonstrations. You may check out a TI-83/TI-84 graphing calculator from the Mathematics Department (401 MSCS) for use during the semester while supplies last; there is NO charge for check-out. Students are expected to use a graphing calculator on homework, exams, and to follow along in class.

**D2L: Desire to Learn:** Class information, assignments, quizzes, solutions, etc. can be found on the D2L website. <http://oc.okstate.edu> You will use your O-key email and password to log in.

**Course Evaluation:**

Course grades will be determined according to the following distribution	Assignments	200 points
	Quizzes	100 points
	Exam 1 (Fri, Feb 6)	100 points
	Exam 2 (Fri, Mar 6)	100 points
	Exam 3 (Fri, Apr 10)	100 points
	<u>Final Exam (Wed, May 6, 8 am)</u>	<u>200 points</u>
	<b>Total</b>	<b>800 points</b>

**Grading Scale:** A = 90 - 100% (720 - 800 pts), B = 80 - 89% (640 - 719 pts), C = 70 - 79% (560 - 639 pts), D = 60 - 69% (480 - 559 points), F = 0 - 59% (less than 480 points)

**Assignments:** Homework and in-class assignments must be turned in on or before the due date. No late work will be accepted. Assignments must be neat, easy to follow with all work shown, and pages stapled together. Your name must be on the top right corner of each page and problem numbers and answers clearly identifiable. Assignments will be given in class and on D2L.

**Quizzes:** Quizzes will be online in D2L and in class for a total of 100 points. Each quiz is worth 5 points. It is your responsibility to log onto D2L and take the quizzes before class.

**Examinations:** There will be three (3) fifty-minute examinations with a maximum possible score of 100 points each and a 200 point comprehensive final examination. Makeup exams will be given only if you request and obtain approval in advance of the missed exam and only for very serious and unavoidable conflicts. If this condition is not satisfied, a grade of zero will be recorded for the missed exam.

**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. In the event a student misses class, it is the student's responsibility to obtain notes and assignments from that class. Students will begin the semester with 100 points for attendance; after 2 absences, each absence will deduct 5 points. In the event it improves the final grade, the attendance grade will be averaged with the lowest 100 point exam grade.

Be respectful to the instructor and other students by being on time to class, not leaving class early, not doing other work during class, and leaving all electronics (other than your calculator) turned off and out of sight during the duration of the class. It is at my discretion to count you absent and/or adjust your attendance grade based on this professionalism.

**MLSC: Mathematics Learning Success Center.** The MLSC is an invaluable resource to support your mathematical learning. It is located on the 5<sup>th</sup> floor of the Library. For more information, visit the MLSC website at <http://www.math.okstate.edu/mlsc>.

**Syllabus Attachment:** OSU has compiled useful information that applies to all classes at <http://academicaffairs.okstate.edu/images/Patty/FacultyandStaffResources/Syllabus/spring%202015%20syllabus.pdf> This link is also available on the D2L classsite.

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.

**Academic Integrity:** The University has explicit rules governing academic integrity. Please consult the OSU Spring 2015 Syllabus Attachment mentioned above on the web.

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 work submitted must be your own. Copying someone else's problem solution, giving your written solution to someone else, or having another person complete your work is prohibited; such behaviors are regarded as violations of academic integrity and will be treated according to the University's policy.

Cheating will result in a grade of zero for all students involved!

**Special Accommodations for Students:** 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. See <http://sds.okstate.edu/> for more information.

**Class Records:** For your own protection, each student should keep all graded work during the semester.

**Further Advice:** DO NOT MISS CLASS. Attempt all work. Ask questions! Students who do these things are generally successful – those who don't, are generally not. Work together, but write up your own solutions. Math builds upon itself each class... If you have problems, get help as soon as possible, so as to keep up in class. In addition to my office hours, there is additional help at the MLSC.