**Math 1483 – Math Functions and Uses**

Fall 2016 – MWF 8:30-9:20 – HSCI 326

**Instructor:** Nacoe Thomas
**Office Hours:** TBA
**e-mail:** nacoe.thomas@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 Package.** *Functions & Change: A Modeling Approach to College Algebra,* 5th 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 in class. You may check out a calculator from the Mathematics Dept. (401 MS) for use during the semester. It is free but is also first come, first served.

**Course Evaluation:**

| | |
|---|---|
| Homework | 50 points |
| Quizzes | 50 points |
| Exam 1 | 100 points |
| Exam 2 | 100 points |
| Exam 3 | 100 points |
| Final | 200 points |
| **Total Points** | **600** |

**Grading Scale:**

| | |
|---|---|
| 534 – 600 | A |
| 474 – 533 | B |
| 414 – 473 | C |
| 354 – 413 | D |
| 0 – 353 | F |

**Homework:** Homework will be due at the end of every chapter. Each chapter will be worth 10 points. Problems will be graded at random in each assignment. The following criteria must be met in order for your paper to receive a grade.

- The assignment must be submitted in order, the problem numbers should be written in the left-hand column.
- All work must be in pencil, neat and legible. If I cannot read it, I cannot give you credit.
- In most cases, answers must be in complete sentences. Making graphs, tables and equations are the exceptions.
- Homework with jagged edges will not be accepted.
- Pages must be stapled together. Dog-eared is not an acceptable substitute.

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**Quizzes:** Quizzes will be given in class each week, excluding exam weeks. They are not guaranteed to be announced. They CAN NOT be made up. You will either be asked to copy down a homework question that you were assigned and should have already completed OR it will be a problem from a section that you have already covered but that you might not have been assigned in the homework. There will not be quizzes on the first week, exam weeks, or the weeks of fall break and thanksgiving break.

KEEP UP WITH YOUR HOMEWORK SO THAT YOU ARE ALWAYS PREPARED!

**Exams:** There will be 3 50-minute exams each worth 100 points and a final comprehensive exam worth 200 points. Makeup 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 the instructor. Serious and unavoidable conflicts do not include things like vacations, even if airline tickets are non-refundable and arranged by your family. Exams will be given on the following dates:

Wednesday, Sept 14
Wednesday, Oct 12
Wednesday, Nov 9

The final exam will be given in our regular classroom at the time scheduled in the OSU exam schedule.

**Attendance:** Attendance is taken each day and may be reported along with your grade. You must pay attention, be prepared (book, pencil, calculator, notes), and participate in class discussions to be counted as present. Students will begin the course with 100 attendance points; after the first 2 missed classes, five points will be deducted for each absence. If it helps your grade, your final attendance score will be averaged with your lowest 100-point exam score. Do not bring me doctors' notes and the like, an absence is an absence for any reason.

**MLSC** (Math Learning Success Center) The MLSC is located on the 5$^{th}$ floor of the library. It is an additional resource for help with your homework.

**Cell Phones:** Please have your phone turned off during class. If you need it to be on vibrate because you of a particular circumstance then please discuss it with me before class. Use of a cell phone during class for any reason, including, but not limited to phone calls, texting, or games, will result in you being considered absent for the class.

**D2L site:** The syllabus and all notes will be posted on the D2L site (oc.okstate.edu). Any additional class information will be posted there as well.

**Additional University Information:**

**Syllabus Attachment:** OSU has compiled useful information that applies to all classes. A link will be posted on D2L. You are responsible for reading this information now and having any questions answered.

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**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.

**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.

**Semester Schedule (changes will be announced in class as necessary)**

Week 1 – syllabus, ch P, 1.1
Week 2 – 1.2, 1.3
Week 3 – 1.4, 2.1
Week 4 – 2.2, 2.3
Week 5 – Review, Exam 1
Week 6 – 2.4, 2.5
Week 7 – 3.1, 3.2
Week 8 – 3.3, 3.4 (Fall Break on 10/14)
Week 9 – Review, Exam 2
Week 10 – 3.5, 4.1
Week 11 – 4.2, 4.3
Week 12 – 4.4, 4.5
Week 13 – Review, Exam 3
Week 14 – 5.1, 5.2
Week 15 – 5.3 (Thanksgiving break on 11/23-25)
Week 16 – 6.1, 6.2, Final Review

**Assignments (changes will be announced in class as necessary)**

Intro – p.16 – 1,2,3,4,5,6
1.1 – 1,6,8,9,12
1.2 – 1,3,23,25,26
1.3 – 4,5,8,9,13
1.4 – 1,2,6,7,10
2.1 – 6,18,19,24,25
2.2 – 7,14,19,21
2.3 – 1,5,15,16,20
2.4 – 5,6,10,12,17
2.5 – 1,3,5,12
2.6 – 3,4,7,20
3.1 – 8,11,13,14,15
3.2 – 1,4,6,8,14
3.3 – 1,2,3,4,14
3.4 – 1,2,3,4,9
3.5 – 3,5,9,12
4.1 – 3,4,8,13
4.2 – 3,4,5,6,7
4.3 – 5,7,8,9,10
4.4 – 2,7,8,14,15
4.5 - 2,3,12,13,18
5.1 – 8,13,14,15
5.2 - 3,4,5,6
5.3 – 1,3,4,6
6.1 – 5,8,10
6.2 – 2,3,10,11