

**MATH 111 Section 01**  
**Spring 2008 MWF 8:15am-9:05am**  
**229 Quinlan Hall**  
**Dr. Chad A.S. Mullikin**

**Contact Information :**

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Office : AB 270

Phone : 380-3088

**General Information :** Lectures will be held MWF from 8:15am until 9:05am in Quinlan Hall room 229. There will be some class time allowed for solving problems. However, it may be the case that this is not sufficient. If you need more help you are *encouraged* to come talk to me during my office hours.

My office hours (AB 270) are as follows:

Monday	9:10-11:10, 12:30-2:30
Tuesday	12:30-2:30
Wednesday	None
Thursday	12:30-2:30
Friday	9:10-11:10

**Textbook :** Precalculus - Functions and Graphs 11<sup>th</sup> ed., Swokowski/Cole.

**Course Description :** This course is designed to help improve critical thinking and problem solving skills. Finding an answer to a problem is not always as valuable as the path taken to the solution. By studying topics such as the properties and applications of functions, the student will develop necessary skills related to overcoming complex problems. In addition, this course is designed to prepare students for a first course in differential calculus (MTH 121).

**Homework :** It is critically important that a student of mathematics work problems. Simply following along in class is rarely sufficient. At the beginning of each week I will assign homework that will be collected on the following Monday. The homework set will include several suggested problems as well as some more challenging problems. The latter will be collected and graded. While the suggested problems will not be graded, they will be used to construct exam problems. If you have any questions please feel free to email me or see me in my office hours. If you can not make my scheduled office hours then let me know and we will set up an alternate time.

Homework is to be put on the desk in the classroom at the **beginning** of the class they are to be collected. **Homework will not be accepted late for any reason.**

**Exams :** There will be four closed book in class exams as well as a cumulative final examination. The in class exams will consist of roughly 6 or 7 problems typical of the suggested exercises from the homework. You may use a scientific calculator on each exam. Calculators that perform symbolic manipulation or that are programmable are *not* allowed. The tentative dates for these exams are as follows.

**Test 1: February 1<sup>st</sup> 2008**

**Test 2: February 29<sup>th</sup> 2008**

**Test 3: March 19<sup>th</sup> 2008**

**Test 4: April 21<sup>st</sup> 2008**

**Final Exam: Saturday May 3<sup>rd</sup> 2008 1:00 - 3:00 pm**

*Any student with a valid excuse for missing an exam must obtain permission to reschedule well before the examination date. Please let me know of any conflicts immediately.*

**Attendance :** Attendance is required.

**Grading :** The assignments are weighted as follows:

Tests :35%

Homework :35%

Final Exam :30%

Letter grades are awarded according to the following:

$97 \leq \mathbf{A+}$

$93 \leq \mathbf{A} < 97$

$90 \leq \mathbf{A-} < 93$

$87 \leq \mathbf{B+} < 90$

$83 \leq \mathbf{B} < 87$

$80 \leq \mathbf{B-} < 83$

$77 \leq \mathbf{C+} < 80$

$73 \leq \mathbf{C} < 77$

$70 \leq \mathbf{C-} < 73$

$67 \leq \mathbf{D+} < 70$

$63 \leq \mathbf{D} < 67$

$60 \leq \mathbf{D-} < 63$

$\mathbf{F} < 60$

**Accommodations :** Students who want to receive disabilities accommodations should contact Mrs. Dunklin, Coordinator for Student Support Services at 380-3470 as soon as possible so that warranted accommodations can be arranged. Her office is located in Student Academic Services, 1<sup>st</sup> floor, Administration Building.

**Tentative Schedule :** This schedule is subject to change as needed.

Jan 9 : Inequalities

Jan 11 : Inequalities

Jan 14 : Rectangular Coordinate Systems, Graphs, and Equations

Jan 16 : Lines

Jan 18 : Definition of Functions

Jan 21 : MLK Day - no classes

Jan 23 : Operations on Functions

Jan 25 : Graphs of Functions

Jan 28 : Quadratic Functions

Jan 30 : Review

Feb 1 : **TEST 1**

Feb 4 : Mardi Gras - no classes

Feb 6 : Mardi Gras - no classes

Feb 8 : Polynomial Functions of Degree Greater Than 2

Feb 11 : Properties of Division

Feb 13 : Properties of Division

Feb 15 : Zeros of Polynomials

Feb 18 : Complex and Rational Zeros of Polynomials

Feb 20 : Rational Functions

Feb 22 : Inverse Functions

Feb 25 : Exponential Functions

Feb 27 : Review

Feb 29 : **TEST 2**

Mar 3 : The Natural Exponential Functions

Mar 5 The Natural Exponential Function

Mar 7 : Logarithmic Functions

Mar 10 : Properties of Logarithms

Mar 12 : Exponential and Logarithmic Functions

Mar 14 : Exponential and Logarithmic Functions

Mar 17 : Review

Mar 19 : **TEST 3**

Mar 21 : Spring Break - no classes

Mar 24 : Spring Break - no classes

Mar 26 : Spring Break - no classes

Mar 28 : Spring Break - no classes

Apr 2 : Trigonometric Functions of Angles

Apr 4 : Trigonometric Functions of Angles

Apr 7 : Trigonometric Functions of Real Numbers

Apr 9 : Trigonometric Graphs

Apr 11 : Verifying Trigonometric Identities

Apr 14 : Trigonometric Equations

Apr 16 : Trigonometric Equations

Apr 18 : Review

Apr 21 : **TEST 4**

Apr 23 : Review

Apr 25 : Review

Apr 28 : Review

Apr 30 : Review

May 3 : **FINAL EXAMINATION** 1:00-3:00pm

**Caveat Discipulus:** This syllabus is subject to change as necessary.