

MATH 117

CONTEMPORARY MATHEMATICS AND QUANTITATIVE ANALYSIS
Nicholls State University, Summer 2010

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My office hours are 8:00-10:00 am M-Th. Please contact me (phone, email, or in person) during these times if you have any questions. If you need assistance at a different time, let me know and we'll work something out.

Prerequisites: Grade of C in MATH 003, or grade of D in MATH 100 or MATH 101, or MATH ACT subscore of 20, or satisfactory score on placement test.

Required Materials: *Mathematics All Around*, (4th ed.), by Thomas L. Pirnot and a calculator.

Course Description (catalog): *This course can be used to satisfy general education requirements. MATH 100 or 101 is needed if students pursue credit in any mathematics course except MATH 214.* Selected topics from ratio, proportion, percent and percentages, modeling with algebraic functions, consumer mathematics, elementary graph theory, applications of mathematics to everyday problem-solving.

Grading Policy: You are required to have MyMathLab for this course. It comes bundled with your textbook. It is an online homework system. Every day or two, I will post an assignment to MyMathLab that you will need to complete for a grade. This will be in addition to the regular homework from the text (that you do not turn in).

How to enroll in a course in MyMathLab:

- (1) Go to Course Compass at <http://www.coursecompass.com>
- (2) Click on **Register** under Students.
- (3) Read the **Before You Start** instructions, and then click **Next** at the bottom.
- (4) Enter the course ID for this course (**heck82165**) and click on **Find Course**.
- (5) Verify that you have the correct course and select your enrollment option (**Access Code** or **Buy Now**).

In addition to MyMathLab, we will have 3 exams throughout the semester and a comprehensive final. The exams will count for 60% of your semester grade and the final exam counts for 20%. (The remaining 20% will come from MyMathLab.) I will assign letter grades based on the usual 10% scale (A: 90-100%; B: 80-89%; C: 70-79%, etc.)

Make-up Procedure: If a student knows in advance of a scheduled test that he or she will be absent due to a school-sponsored function, or a scheduled appointment, then he or she may take a make-up test provided arrangements are made sufficiently in advance with the instructor and documentation of the absence can be produced by the student. In order to be eligible to take a make-up for other reasons, such as medical emergencies and illnesses, the student must supply for verification purposes *appropriate documentation and relevant phone numbers* upon the first day returning to class. The instructor will judge what is or is not appropriate.

Student Outcome Objectives: Students will be able to:

- Use logic to evaluate and critique proposed arguments.
- Use mathematical ideas about savings, loans, and investments to achieve financial goals.
- Put into perspective numbers and quantities encountered in the news.
- Use mathematical models to gain insight into real-world issues.
- Use mathematical inquiry to make conjectures about “real-life” problems.
- Use modeling and logic to make conclusions about non-deterministic problems.

Attendance Policy: Attendance in class is mandatory. The university’s First Alert program will be utilized to help improve students’ academic success. Absences will be reported to the Coordinator of First Alert and excessive absences will result in a mandatory meeting with an advisor and/or the Dean of University College to determine an appropriate action.

Academic Honesty Policy: Sanctions for academic cheating and plagiarism are outlined in the Code of Student Conduct handbook, section 1.9. Use of cell phones during a test is considered to be cheating. Cheating is a serious offense and sanctions will be implemented.

Disability: If you have a documented disability that requires assistance, you will need to register with the Office of Disability Services for coordination of your academic accommodations. The Office of Disability Services is located in Peltier Hall, Room 100-A. The phone number is (985) 448-4430 (TDD 449-7002).

Academic Grievances: The proper procedure for filing grade appeals or grievances related to academic matters is listed in Section 5 of the *Code of Student Conduct* and at the following link: http://www.nicholls.edu/documents/student_life/code_of_conduct.pdf.

Continued Learning following an Extreme Emergency:

In order to make continued learning possible following an extreme emergency, students are responsible for:

- reading regular emergency notifications on the NSU website;
- knowing how to use and access Blackboard (or university designated electronic delivery system);
- being familiar with emergency guidelines;
- evacuating textbooks and other course materials;
- knowing their Blackboard (or designated system) student login and password;
- contacting faculty regarding their intentions for completing the course.

faculty are responsible for:

- their development in the use of the Blackboard (or designated) software;
- having a plan for continuing their courses using only Blackboard and email;
- continuing their course in whatever way suits the completion of the course best, and being creative in the continuation of these courses;
- making adjustments or compensations to a student's progress in special programs with labs, clinical sequences or the like only in the immediate semester following the emergency.

Summer 2010 Homework Assignments

<i>Section</i>	<i>Title</i>	<i>Assignment</i>
1.1	Problem Solving	7-21, 27-32 all, 39-59,65-73
1.2	Inductive and Deductive Reasoning	7-37
1.3	Estimation	13-16 all, 23-35
2.1	The Language of Sets	7-55
2.2	Comparing Sets	11-45, 51
2.3	Set Operations	11-61
2.4	Survey Problems	7-39
	<i>TEST #1</i>	
3.1	Statements, Connectives, and Quantifiers	11-29, 43-50 all
6.1	Number Theory	9-63, 73-77
6.2	The Integers	7-21, 27-91
6.3	The Rational Numbers	9-115 every other odd
6.4	The Real Number System	19-49, 77-80 all
6.5	Exponents and Scientific Notation	9-81
7.5	Proportions and Variation	7-39
	<i>TEST #2</i>	
9.1	Percent	7-69
9.2	Interest	7-63
9.3	Consumer Loans	7-31
9.5	Amortizations	5-17, 19-47 every other odd
	<i>TEST #3</i>	

Important Dates: Test #1 – Wednesday, June 9, 2010
 Test #2 – Thursday, June 17, 2010
 ‘W’ Day – Monday, June 21, 2010
 Test #3 – Wednesday, June 23, 2010
 Final Exam – Monday, June 28, 2010