

JumpStart Mathematics (TMTH 0132)



Credit: 1 semester credit hour (1 hour lecture)

Prerequisite/Co-requisite: Students scoring 343-349 on the TSI-Assessment placement test (effective Fall 2013).

Course Description: A non-course based option preparing students for MATH 1332, Contemporary Mathematics.

Required Textbook and Materials

1. MyMathLab Standalone Access Code
 - a. NOTE: Not necessary if code already purchased for MATH 1332
 - i. May be purchased online at www.mymathlab.com
 - ii. May be purchased at a local bookstore: **ISBN 032119991X**
2. A basic 6-function calculator (+, −, ÷, x, √, %) with a ± key

Course Objectives

Upon completion of this course, the student will be able to:

1. Perform arithmetic operations in the real number system.
2. Solve applied problems using arithmetic operations in the real number system.
3. Define and apply mean, median, and mode to solve problems.
4. Given a relation, define its domain, range, and whether it is a function.

Course Outline

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| <p>A. Module 1: Whole Numbers</p> <ol style="list-style-type: none">1. Notation, Order, Rounding2. Applications and Problem Solving3. Exponential Notation; Order of Operations4. Factors; Multiples; Divisibility5. Prime vs. Composite; Prime Factorization6. Greatest Common Factor and Least Common Multiple <p>B. Module 2: Fraction Notation</p> <ol style="list-style-type: none">1. Notation and Simplifying2. Multiplication and Division3. Order; Addition and Subtraction4. Mixed Numerals5. Applications and Problem Solving | <ol style="list-style-type: none">6. Order of Operations7. Simple Probability <p>C. Module 3: Decimal Notation</p> <ol style="list-style-type: none">1. Notation; Order2. Rounding3. Order of Operations4. Fraction Notation; Decimal Notation5. Applications and Problem Solving <p>D. Module 4: Percent Notation</p> <ol style="list-style-type: none">1. Ratio and Proportion2. Percent, Decimal, and Fraction Notation3. Solving Percent Problems4. Applications of Percent <p>E. Module 5: Statistics</p> <ol style="list-style-type: none">1. Measures of Central Tendency |
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Course Syllabus

F. Module 7: Introduction to Real Numbers and Algebraic Expressions

1. The Real Numbers
2. Addition and Subtraction of Real Numbers
3. Applications Involving the Addition and Subtraction of Real Numbers
4. Multiplication and Division of Real Numbers
5. Applications Involving the Multiplication and Division of Real Numbers

6. Order of Operations

7. Introduction to Algebra
8. Properties of Real Numbers
9. Algebraic Expressions
10. Simplifying Algebraic Expressions

G. Module 9: Additional Topics

1. Complex Numbers
2. Introduction to Functions
3. Function Notation

Grade Scale

70 – 100

Satisfactory

0 – 69

Unsatisfactory

Course Evaluation

Final grades will be calculated according to the following criteria:

Course Assignments	70%
Participation (as defined by instructor)	30%

Course Requirements

1. Attendance is mandatory.
2. The student must purchase all of the required course materials.
3. The student will be expected to have access to the Internet and a computer.
4. Additional course requirements as defined by the individual course instructor.

Course Policies

1. Cheating of any kind will not be tolerated.
2. Additional class policies as defined by the individual course instructor.

Disabilities Statement

The Americans with Disabilities Act of 1992 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. Among other things, these statutes require that all students with documented disabilities be guaranteed a learning environment that provides for reasonable accommodations for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409) 880-1737 or visit the office in Student Services, Cecil Beeson Building.

Course Schedule

- This course is a non-semester length/non-course competency based option.
- It may be offered in a variety of formats.

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Course Syllabus

- Each student will be working at their own self-accelerated pace with the understanding that **all** requirements for the course **must** be completed satisfactorily by the end of the scheduled semester time for this course.

Contact information varies by instructor.

Technical Requirements

The latest technical requirements, including hardware, compatible browsers, operating systems, software, Java, etc. can be found online at:

<http://kb.blackboard.com/pages/viewpage.action?pageId=25368512>

A functional broadband internet connection, such as DSL, cable, 3G, 4G, WiMAX, WiFi, satellite, or other broadband access is necessary to maximize the use of the online technology and resources.