

VERNON COLLEGE  
SYLLABUS

DIVISION: Mathematics and Science

DATE: 2021-2022

COURSE NUMBER AND TITLE: MATH 0332 Developing Contemporary Math Skills

CREDIT HRS: 3

HRS/WK LEC: 3

HRS/WK LAB: 0

LEC/LAB COMB: 3

I. VERNON COLLEGE GENERAL EDUCATION PHILOSOPHY STATEMENT

General education at Vernon College reflects the institution's deep conviction that successful, satisfying lives require a wide range of skills and knowledge. Through the Texas Core Curriculum and through support and reinforcement in all non-core courses, students will gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

CORE OBJECTIVES (GENERAL EDUCATION OUTCOMES)

- Critical Thinking Skills – to include creative thinking, innovation, inquiry and analysis, evaluation and synthesis of information
- Communication Skills – to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
- Empirical and Quantitative Skills – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
- Personal Responsibility – to include the ability to connect choices, actions and consequences to ethical decision making
- Social Responsibility – to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

II. CATALOG DESCRIPTION:

Prerequisite: At least a “C” or better in MATH 0400 or appropriate TSI/TSI2 score. Co-Requisite: MATH 1332. This course is a study of basic algebraic concepts necessary for success in MATH 1332 (Contemporary Mathematics), to include numeracy, proportional reasoning, probabilistic reasoning, quantitative reasoning in personal finance, algebraic competence, reasoning, modeling and study skills. This course is not applicable towards any degree. Special Fee: \$50.00

III. REQUIRED BACKGROUND:

Prerequisite: At least a “C” or better in Math 0400 or appropriate TSI/TSI2 score.  
Co-requisite: MATH 1332 Contemporary Mathematics

IV. STUDENT E-MAIL:

All students should activate and regularly check their Vernon College issued student email account. Student emails are an official form of communication between Vernon College and students and will be used by various components of the college including the Office of Financial

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Aid, Admissions & records, the Business Office, Student Services, and Instructional Services.

Additionally, an active VC student email account is required for students to access online courses and supplemental instruction provided on the College's Learning Management System – *Canvas*.

## V. TEXTS, OTHER REFERENCE MATERIALS:

Hoffmaster, Christina. Developing Contemporary Math Skills Class Notes. 1<sup>st</sup> Edition

## VI. METHODS OF INSTRUCTION:

Lecture, Discussion/Collaboration, Internet

Students desiring auxiliary aids and services for this course should make their requests to the instructor and the PASS Department Director/Office for Students with Disabilities Coordinator.

## VII. COURSE CONTENT:

1. Thinking Critically
2. Approaches to Problem Solving
3. Numbers in the Real World
4. Managing Money
5. Statistical Reasoning
6. Putting Statistics to Work
7. Probability: Living with the Odds
8. Exponential Astonishment
9. Modeling Our World

## VIII. COURSE OUTCOMES:

By the end of this course, each student should be able to:

1. Apply the language and notation of sets.
2. Determine the validity of an argument or statement and provide mathematical evidence.
3. Solve problems in mathematics of finance.
4. Demonstrate fundamental probability/counting techniques and apply those techniques to solve problems.
5. Interpret and analyze various representations of data.
6. Demonstrate the ability to choose and analyze mathematical models to solve problems from real-world settings, including, but not limited to, personal finance, health literacy, and civic engagement.

## IX. ASSESSMENT:

The student will be evaluated by his/her performance in successfully solving problems requiring the outcomes listed above. The assessments will be done through homework assignments and quizzes, work in class, and tests.

An overall success rate of 70% will be required for a passing grade. Care will be taken to evaluate the performance of students and to make adjustments in teaching strategies as needed.

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X. ATTENDANCE FOR NON-TSI CLEAR DEVELOPMENTAL STUDENTS:

An instructor may request the withdrawal of a student from a class when the total number of unexcused absences exceeds the equivalent of two weeks of class and lab meetings in a course; specifically, this equates to the 4 absences. Since this class is a co-requisite for MATH 1332, the student will be withdrawn from both courses.

Students who are required to enroll in developmental courses must participate continuously in a developmental program until all Texas Success Initiative requirements are satisfied. Students enrolled under these restrictions may be withdrawn from the College if they exceed the allowed number of absences in a developmental course(s) and this was the only developmental work the student was participating in due to failure on the placement test.