



RANGER COLLEGE

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COURSE SYLLABUS

**Contemporary Mathematics**

**MATH 1332**

**3 credit hours**

**INSTRUCTOR:**

**James Wood**

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**MAIN OFFICE PHONE:** 254-647-7028

**EMAIL:** jwood@rangercollege.edu  
**OFFICE HOURS:** By email or zoom, if needed

### 1) Texas Core Curriculum Statement of Purpose

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.

### 2) Course Description

Topics may include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability, and statistics.

### 3) Required Background or Prerequisites

Two years of high school algebra and one year of high school geometry or a grade of B or better in DMAT 0323 or equivalent. This course does not satisfy the math requirement for the Associate of Science degree.

### 4) Required Textbook and Course Materials

- Miller, Heeren, Hornsby, Heeren Mathematical Ideas, Thirteenth Edition : ISBN 13: 9780321977076,
  - Scientific calculator (TI-30 recommended)
  - MyMathLab Access Code, Pearson Publishing
- Note:** If you acquired your book through the “includED” program there is no MyMathLab access code kit with the book. You **MUST** purchase the access code kit separately.

### 5) Course Purpose

This course focuses on quantitative literacy in logic, patterns, and relationships. The course involves the understanding of key mathematical concepts and the application of appropriate quantitative tools to everyday experiences.

### 6) Learning Outcomes

Upon successful completion of this course, the student will:

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

## 7) Core Objectives

This course directly meets the following of the six Core Objectives:

- **Critical Thinking Skills (CT)** – Creative thinking, innovation, inquiry, and analysis; evaluation and synthesis of information.
- **Communication Skills (COM)** – Effective development, interpretation and expression of ideas through written, oral, and visual communication.
- **Empirical and Quantitative Skills (EQS)** – The manipulation and analysis of numerical data or observable facts resulting in informed conclusions.
- **Teamwork (TW)** – The ability to consider different points of view and to work effectively with others to support a shared purpose or goal.
- **Social Responsibility (SR)** – Intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities
- **Personal Responsibility (PR)** – The ability to connect choices, actions, and consequences to ethical decision-making.

## 8) Methods of Instruction

This is a face-to-face class. Your attendance is necessary for you to be successful in the course. Homework will be assigned in MML after every class meeting. The homework for each test will be due the day of the test.

## 9) Methods of Assessment

- † **MyMathLab (20%) (CT, COM, EQS, PR)**: This grade component will be determined by combining the percent completion of all assignments with the composite average of the assignments completed.
- † **Major Exams (55%) (CT, COM, EQS, PR)**: There will be 4 exams, each covering multiple chapters from the textbook.
- † **Final Exam (25%) (CT, COM, EQS, PR)**: This is a departmental exam and may be used for data collection purposes as well as determining the course grade.

Grading Scale: A = 90–100% B = 80–89% C = 70–79% D = 60–69% F < 60%

## 10) Classroom Policies/procedures

- Regular and punctual attendance in all classes is considered essential for optimum academic success.
- Use the restroom, eat breakfast, talk to your mom before class starts, please do not leave once we begin
- It is the responsibility of the student to inform the instructor of an excused absence. An absence may be excused by the Dean for participation in an authorized college activity or for a valid medical reason.
- Any student who is disruptive to the class will be dismissed from the class and may be dropped from the course. Any student misconduct will be reported to the Dean of Student Services (See Student Handbook.)

- No use of tobacco products is permitted in any campus buildings.
- **If a student has 6 absences .....the student WILL be dropped from the class with a grade of F (Ranger College General Catalog).**
- Any student found with unauthorized material(s) such as cheat sheets, electronic devices, etc. during an exam or copying from another student's work will get a zero. This applies to your Final, there will be a formula sheet you can use, but I will provide it.
- You will be allowed to work together on your in class quizzes and you will be tempted to work together on your homework, if so great, but you will work alone and without any notes when taking a test. You will not have very many learning aids for the final so be prepared.

### **11) Course Outline/Schedule**

Weeks 1 – 3	Chapters 1 – 2
Weeks 4 – 6	Chapters 3 & 9
Weeks 7 – 9	Chapter 10 – 11
Weeks 10 – 11	Chapter 12
Weeks 12 - 14	Chapter 13
Week 15	Final Exam

### **12) Non-Discrimination Statement**

Admission, employment, and program policies of Ranger College are non-discriminatory with regard to race, creed, color, sex, age, disability, and national origin.

### **13) ADA Statement**

Ranger College provides a variety of services for students with learning and/or physical disabilities. Students are responsible for making initial contact with the Ranger College Counselor, Gabe Lewis (glewis@rangercollege.edu). It is advisable to make this contact before or immediately after the semester begins.

### **14) Revision of Syllabus**

The content in this syllabus is subject to change based upon the needs of a particular class. Any revisions will be distributed in writing.

#### **Tentative Exam Schedule:**

Exam 1: September 15, 2020	Chapters 1 – 2
Exam 2: October 6, 2020	Chapters 3 & 9
Exam 3: October 27, 2020	Chapters 10 – 11
Exam 4: November 10, 2020	Chapter 12