MATH 45 – Contemporary Mathematics (#52043)
Course Id: perez88663
Spring 2024

Instructor: Mr. Conrad Perez
Class Time: MWF 11:00 AM – 11:50 AM
Classroom: CCI-206
Office: MSCI-127
Office Hours: MW: 12:00-1:00PM (In-person and Zoom); T: 10:00AM-12:00 PM (In-person and Zoom); TH: 11:00AM-12:00PM (Zoom only); or by appointment
Phone: 638-3641 ext. 3255
E-Mail: conrad.perez@reedleycollege.edu

Textbook (Optional): Excursions in Modern Mathematics (Ninth Edition) by Tannenbaum

Web Access (Required): MyMathLab access code must be purchased

Computer Requirements:

	Operating systems	browsers
Windows	Windows 10	Microsoft Edge Firefox 45 or newer Chrome 49 or newer
	Windows 7	Internet Explorer 11 Firefox 45 or newer Chrome 49 or newer
Mac OS	OS X 10.12	Safari 11 or 12 Firefox 45 or newer Chrome 49 or newer
	OS X 10.13	Safari 11 or 12 Firefox 45 or newer Chrome 49 or newer
	OS X 10.14	Safari 12 Firefox 45 or newer Chrome 49 or newer
	OS X 10.15	Chrome 49 or newer
Chrome OS	Chrome OS	Chrome 49 or newer

- Internet Connection: Cable/DSL, T1 or other high-speed connection. You **cannot** use a dial-up modem for the course.

- Adobe Acrobat Reader

Important Dates: Drop Deadline- Sat. March 9, 2024.
Days Off- Mon. Jan 15; Fri. Feb 16; Mon. Feb 19; Mon.-Fri. Mar 25-29.
Final Exam- Wed. May 15, 2024 from 11:00AM to 12:50PM

Course Prerequisites: C or better grade in Math 103 or equivalent.

Course Overview: The course will cover all or parts of sections 1-5. The course objective is to obtain a solid understanding of the following concepts and problems dealing with modern mathematics:

1. Characterize and compare different voting systems, using plurality, borda count, or pair-wise comparison.
2. Derive the probability of succeeding at basic games of chance.
3. Describe statistical data in a variety of methods such as in using mean, median, and standard deviation.
4. Use the empirical numbers to answer statistical questions.
5. Find the apportionment of a finite number of items.
6. Use various procedures to divide items fairly.
7. Find the terms of a sequence and series.
8. Measure the rate of growth of different systems, example: linear vs. exponential growth.
9. Solve problems from the area of management science by means of linear programming.
10. Create geometric shapes using recursive construction rules.

Course Student Learning Outcomes: Student Learning Outcomes are statements about what the discipline faculty hope you will be able to do at the end of the course. This is NOT a guarantee: the ultimate responsibility for whether you will be able to do these things lies with you, the student. In addition, the assessment of Student Learning Outcomes is done by the department in order to evaluate the program as a whole, and not to evaluate individual faculty performance.

SLO1: Demonstrate problem solving skills by applying mathematical principles and techniques in real world areas.
SLO2: Apply the mathematics of finance to making consumer decisions.
SLO3: Examine statistical principles used to display, interpret and analyze data.

Attendance: After 6 absences, students may be dropped from the class. Late arrival and leaving class early will be considered as an absence. Any canceled classes will have a note posted on the classroom door.

Behavior: A student may be suspended from the class if he or she engages in a classroom behavior that interferes with the learning environment. Such behavior includes, but is not limited to, disruptive conversations with fellow students, regular tardiness, sleeping, and leaving the classroom during class time. Students are expected to turn off all cell phones and other electronic devices during class time.

Assignments: There will be 4-6 exams worth 200 points apiece (Approximately 100 points per chapter). Homework assignments will be worth 5 points apiece and these will done online at http://mlm.pearson.com . A student not registered on the MyMathLab website by the first Friday of the semester will be dropped from the course. A student with 3 consecutive 0s on the homework may be dropped from the course. Quizzes will be worth 1-5 points each. Some homework, quizzes, and/or extra credit may be assigned as group work during the semester. No homework will be accepted after its due date nor any make-up exams given without prior arrangements being made before the homework's due date or before the exam. A student caught cheating will receive an F on the assignment and/or may be dropped from the course.

Grading: The course grade is based upon the points earned from the homework, quizzes, exams, extra credit, and the final. At any time during the course, the grade of a student is determined as follows:

$$\frac{\text{Points Earned}}{\text{Total Points Possible}} \times 100 = \text{grade of the student}$$

The grade will be based upon the following percentages (**NO ROUNDING**):
90-100% A 80-89% B 70-79% C 60-69% D 0-59% F

Note: If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.