

Chris Kmiecik

Text	Excursions in Modern Mathematics by Peter Tannenbaum, 8 <sup>th</sup> Edition Publisher: Pearson, ISBN: 9780321825735
Course Description	The course presents mathematics to the student in real-world applications. Topics to be covered include considerations in obtaining consensus (e.g., elections and sharing assets), optimizing routes, networks, and schedules, financial mathematics, and the e applications of probability and charts and graphs. A semester project will require the students to develop and present a topic in mathematics of interest within their world, expertise, and expectations.
Assessment	Homework – 40%, Tests – 30%, Project – 20%, Participation – 10% Grade Equivalents: A (93-100), A- (90-93), B+ (87-89), B (83-86), B- (80-82), C+ (77-79), C (73-76), C- (70-72), D+ (67-69), D (63-66), D- (60-62), F (below 60)
Support Devices	Tutoring and Academic Support Center, peer tutoring, extra help from the instructor
Office Hours	After class and by appointment.
Class Cancellations	Check the college website for weather related cancellations or call 860-215-9000 for recorded message
Plagiarism and Academic Honesty	At TRCC, we expect the highest standards of academic honesty. The Board of Trustees' Proscribed Conduct Policy prohibits cheating on examinations, unauthorized collaboration on assignments, unauthorized access to examinations or course materials, plagiarism.
MyCommNet Alert	MyCommNet is a system that sends text messages and emails to anyone signed up in the event of a campus emergency. Additionally, TRCC sends messages when the college is delayed or closed due to weather. All students are encouraged sign up for MyCommNet Alert. A tutorial is available on the Educational Technology and Distance Learning Students page of the website at: <a href="http://www.trcc.comnet.edu/div_it/educationaltechnology/Tutorials/myCommNetAlert/MIR3.html">http://www.trcc.comnet.edu/div_it/educationaltechnology/Tutorials/myCommNetAlert/MIR3.html</a>
Disabilities	If you have a disability that may affect your progress in this course, please meet with a Disability Service Provider (DSP) as soon as possible. Please note that accommodations cannot be provided until you provide a written authorization from a DSP. TRCC Disabilities Service Providers Counseling & Advising Office – Room A119 Matt Liscum (860-215-9265) – Physical disabilities, sensory disabilities, medical disabilities, mental health disabilities Chris Scarborough (860-215-9289) – Learning disabilities, ADD/ADHD, autism spectrum

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**Blackboard** All students are required to monitor the Blackboard site for announcements, class material postings, and updates to the schedule. Grades will be posted on Blackboard. Students are required to participate and contribute in discussion threads. Frequent, positive contributions to the discussion board will be credited to the participation assessment.

**Course Content**

1/25/2016	The Mathematics of Scheduling
2/1/2016	Financial Mathematics
2/8/2016	Chapter Test
2/15/2016	The Mathematics of Symmetry
2/22/2016	Graphs, Charts, and Numbers
2/29/2016	Probabilities, Odds, and Expectations
3/7/2016	The Mathematics of Normality
3/14/2016	Chapter Test
3/21/2016	Spring Break
3/28/2016	The Mathematics of Elections
4/4/2016	The Mathematics of Sharing
4/11/2016	The Mathematics of Getting Around
4/18/2016	The Mathematics of Touring
4/25/2016	Chapter Test
5/2/2016	Project Presentations
5/9/2016	Project Presentations
5/16/2016	Project Presentations

**Course** Upon the completion of this course students will be able to:

1. Understand methods of scheduling and determine the impact on project timelines.
2. Solve problems involving personal finance topics, including percentages, simple interest, compound interest, and consumer debt.
3. Practice the mathematics of symmetry: rigid motions, reflections, rotations, translations, glide reflections, symmetry, and patterns.
4. Effectively present information in charts and graphs.
5. Understand probabilities of single and combined random events.
6. Determine the basic elements of an election, calculate winners of elections based on selected voting methods, and discuss the fairness of voting systems.
7. Determine the division of assets using multiple sharing methods.
8. Understand methods for determining optimal routing solutions.