

Texas A&M University Central Texas
Math 576 Topics in Secondary Mathematics II
Online

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Office Hours:

T 1:30pm – 7:30pm Dr. De Kock in Warrior Hall Room 420-B face-to-face and online

R 3pm – 5pm online

Blackboard access: (<https://tamuct.blackboard.com>).

Mymathlab access:

<http://www.pearsonmylabandmastering.com/northamerica/mymathlab/>

UNILERT

Emergency Warning System for Texas A&M University – Central Texas

UNILERT is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in UNILERT through their myCT email account. Connect at www.TAMUCT.edu/UNILERT to change where you receive your alerts or to opt out. By staying enrolled in UNILERT, university officials can quickly pass on safety-related information, regardless of your location.

COURSE INFORMATION

1.0 Course Overview and description:

Math 576 (Topics in Secondary Mathematics II) covers the following topics covered in at the secondary level in the state of Texas:

Geometry, Proportionality, Probability and Statistics, Quantitative reasoning.

The class also incorporates R as a tool for data mining and statistical analysis techniques.

2.0 Course Objective:

2.1 Student Learning Outcomes

Students will become thoroughly proficient in the following areas:

- Data and Statistics
- Descriptive Statistics
- Probability
- Discrete Probability distributions
- Continuous Probability distributions
- Simple linear regression
- Multiple regression
- Regression analysis (model building)
- Proportionality
- Geometry
- Methods of teaching the above topics at the secondary level

Students will become familiar with the software package R and R Studio

2.2 Competency Goals Statements

1. Students will strengthen their skills in geometry, probability, statistics, proportionality and quantitative reasoning.
2. Students will design and create multiple concrete and virtual manipulatives in order to explain abstract concepts via concrete objects.
3. Students will utilize technology (specifically) R in order to mine unstructured data, analyze structured data and plot functions.

3.0 Required Reading and Textbook(s):

Students need to purchase an access code to mymathlab from Pearson.
Instructions are below:

MyLab & Mastering Student Registration Instructions



PEARSON

ALWAYS LEARNING

To register for **Math 576**:

1. Go to pearsonmylabandmastering.com.
2. Under Register, click **Student**.
3. Enter your instructor's course ID: **dekock41277**, and click **Continue**.
4. Sign in with an existing Pearson account or create an account:
 - If you have used a Pearson website (for example, MyITLab, Mastering, MyMathLab, or MyPsychLab), enter your Pearson username and password. Click **Sign in**.
 - If you do not have a Pearson account, click **Create**. Write down your new Pearson username and password to help you remember them.
5. Select an option to access your instructor's online course:
 - Use the access code that came with your textbook or that you purchased separately from the bookstore.
 - Buy access using a credit card or PayPal.
 - If available, get 14 days of temporary access. (Look for a link near the bottom of the page.)
6. Click **Go To Your Course** on the Confirmation page. Under MyLab & Mastering New Design on the left, click **Math 576** to start your work.

Retaking or continuing a course?

If you are retaking this course or enrolling in another course with the same book, be sure to use your existing Pearson username and password. You will not need to pay again.

To sign in later:

1. Go to pearsonmylabandmastering.com.
2. Click **Sign in**.
3. Enter your Pearson account username and password. Click **Sign in**.
4. Under MyLab & Mastering New Design on the left, click **Math 576** to start your work.

Additional Information

See **Students > Get Started** on the website for detailed instructions on registering with an access code, credit card, PayPal, or temporary access.

4.0 Course Requirements:

All assignments will be posted on mymathlab and blackboard. NO late assignments will be accepted.

Homework:

Homework assignments will be posted on mymathlab and can be done online.

Projects:

6 projects posted and submitted on blackboard.

Online Discussions:

Two online discussions on blackboard.

Make-ups will only be given if student has a university approved excuse and can provide documentation for it.

COURSE OUTLINE AND CALENDAR

6.0 Complete Course Calendar

Week 1	Jan 19 Martin Luther King Jr. Day	Jan 20 Get registered for mymathlab Download R and R Studio Watch the online lecture video on Chapter 1	Jan 21 Watch the online lecture video on Chapter 2	Jan 22 Watch the online lecture video on Chapter 3
Week 2	Jan 26 Homework on Chapters 1, 2, 3 due Online discussion 1 due	Jan 27 Watch the online lecture videos on Chapters 4 +5	Jan 28 Watch the online lecture videos on Chapter 6 +7	Jan 29 Project 1 due
Week 3	Feb 2 Homework on Chapters 4, 5, 6, 7 due	Feb 3 Watch the online lecture videos on Chapters 8+9	Feb 4 Watch the online lecture videos on Chapters 10+11	Feb 5 Project 2 due
Week 4	Feb 9 Homework on Chapters 8, 9, 10, 11 due	Feb 10 Watch the online lecture videos on Chapter 12	Feb 11 Watch the online lecture videos on Chapters 13	Feb 12 Project 3 due
Week 5	Feb 16 Homework on Chapters 12, 13 due	Feb 17 Watch the online lecture videos on Chapter 14	Feb 18 Watch the online lecture video on Chapter 15	Feb 19 Project 4 due
Week 6	Feb 23 Homework on Chapters 14 and 15 due	Feb 24 Online discussion 2 due	Feb 25 Watch the online lecture video on Chapter 16	Feb 26 Project 5 due
Week 7	Mar 2 Homework on Chapter 16 due	Mar 3 Watch the online lecture videos on Chapter 18	Mar 4 Watch the online lecture videos on Chapter 19	Mar 5 Project 6 due
Week 8	Mar 9 Homework on Chapters 18 due	Mar 10 Homework on Chapter 19 due	Mar 11	Mar 12

7.0 Grading Criteria Rubric and Conversion

Homework	(300 points)	20%	90-100%=A
			80- 89%= B
Projects (6 x100)	(600 points)	20%	70- 79%= C
Online discussions (2 x 50)	(100 points)	10%	60- 69%= D
			Below 60 % =F
TOTAL		(1000 points) 100%	

COURSE AND UNIVERSITY PROCEDURES AND POLICIES**8.0 Drop Policy**

If you discover that you need to drop this class, you must go to the Records Office and ask for the necessary paperwork. Professors **cannot** drop students; this is always the responsibility of the student. The record's office will provide a deadline for which the form must be returned, completed and signed. Once you return the signed form to the records office and wait 24 hours, you must go into Duck Trax and confirm that you are no longer enrolled. Should yo

u still be enrolled, FOLLOW-UP with the records office immediately? You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the deadline or fail to follow the procedure, you will receive an F in the course.

9.0 Academic Integrity

Texas A&M University - Central Texas expects all students to maintain high standards of honor in personal and scholarly conduct. Any deviation from this expectation may result in a minimum of a failing grade for the assignment and potentially a failing grade for the course. All academic dishonesty concerns will be reported to the university's Office of Student Conduct. Academic dishonesty includes, but is not limited to, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student's work, collusion, and the abuse of resource materials. When in doubt on collaboration, citation, or any issue, please contact me before taking a course of action. More information can be found at <http://www.tamuct.edu/departments/studentconduct/academicintegrity.php>

10.0 Disability Support Services

At Texas A&M University Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to an education that is barrier-free. The Office of Disability Support and Access is responsible for ensuring that students with a disability enjoy equal access to the University's programs, services and activities. Some aspects of this course or the way the course is taught may present barriers to learning due to a disability. If you feel this is the case, please contact Disability Support and Access at (254) 501-5831 in Warrior Hall, Suite 212. For more information, please visit their website at www.tamuct.edu/disabilitysupport. Any information you provide is private and confidential and will be treated as such.

11.0 Tutoring

Tutoring is available to all TAMUCT students, both on-campus and online. Subjects tutored include Accounting, Finance, Statistics, Mathematics, and Writing. Tutors are available at the Tutoring Center in Warrior Hall, Room 111. Visit www.ct.tamus.edu/AcademicSupport and click "Tutoring Support" for tutor schedules and contact info. If you have questions, need to schedule a tutoring session, or if you're interested in becoming a tutor, contact Academic Support Programs at 254-501-5830 or by emailing tutoring@ct.tamus.edu.

Chat live with a tutor 24/7 for almost any subject on your computer! Tutor.com is an online tutoring platform that enables TAMU-CT students to log-in and receive FREE online tutoring and writing support. This tool provides tutoring in Mathematics, Writing, Career Writing, Chemistry, Physics, Biology, Spanish, Calculus, and Statistics. To access Tutor.com, log into your Blackboard account and click "Online Tutoring."

12.0 Library Services

INFORMATION LITERACY focuses on research skills which prepare individuals to live and work in an information-centered society. Librarians will work with students in the development of critical reasoning, ethical use of information, and the appropriate use of secondary research techniques. Help may include, yet is not limited to: exploration of information resources such as library collections and services, identification of subject databases and scholarly journals, and execution of effective search strategies. Library Resources are outlined and accessed at <http://www.tamuct.edu/library>
