

EDCI 540 - Mathematics Instruction for the 21st Century-Instruction Section: 01W COURSE SYLLABUS: Summer 1 2023

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COURSE INFORMATION

Textbook(s) Required:

5 Practices for Orchestrating Productive Mathematics Discussion, 2nd Edition ISBN# 978-1-68054-016-1

Principals to Actions: Ensuring Mathematical Success for All ISBN# 978-0-87353-774-2

Other Required Resources:

Purchase a student membership to NCTM organization: www.nctm.org

Course Description:

This course prepares students for success with the Texas Essential Knowledge and Skills for Math. This course takes a closer look at how children learn mathematics, and how we can foster a mindset for doing mathematics. It includes: NCTM's principles for mathematics education; ways children develop mathematical understanding, problem solving skills, and processes used to get there; analyzing student's error patterns; and resources for teaching mathematics.

Student Learning Outcomes:

 Develop the ability to design and/or select mathematical activities that promote problem-solving and mathematical thinking/reasoning using the NCTM practices.
Develop strategies for implementing discussion in mathematics classrooms.
Evaluate the strengths of assigned student tasks according to the NCTM practices.



4. Develop ideas on integration of mathematics with other subjects for better connections and meaningful teaching.

5. Develop a more positive disposition for doing and teaching mathematics.

COURSE REQUIREMENTS

Instructional Methods

This online course consists of a series of activities and assessments to assist you in achieving the outcomes/objectives for the course. Each week you will work on various combinations of assignments, activities, discussions, readings, research, etc. Students will experience many types of instructional strategies in an online setting. There will be opportunities for collaboration, group work, and independent activities. Use of text, videos, and reflection will be used throughout the course.

Completion of all assigned readings from the text and any supplemental materials and **on-time delivery** is expected. **No late work will be accepted.** The completion of all written assignments and projects exhibit your scholarship and professionalism. Some examples of the assignments that may be expected of you are: written reflections from field experiences and textbook content, self-assessments, thoughtful participation in class discussions, debates, group sessions, group activities, chapter quizzes, reflective written assignments, lesson plans, and completed project as your final.

Activities/Assessments

Module Assignments (e.g. quizzes/activities/reflections/problem solving) each	50 points
Online postings on readings for each module	25 points
each	
Final Project	200
**Other assignments, online zoom meetings, bonus point opportunities	various
points	
**Note: The Final Project will serve as the final exam	

GRADING

Final Grades will be determined based on the following percentages:

A = 90%-100% B = 80%-89% C = 70%-79% D = 60%-69% F = 59% or Below



- Assignments and points are subject to change, this is just a preview of the upcoming semester. Based on the needs of the class, assignments will be added or removed.
- Late work will be significantly reduced, at minimum 20 percent of the points deducted. The professor retains the right to accept/refuse late work.
- All work must be submitted late or not to receive an A.

Modules will begin on Monday, have midweek checkpoints for initial discussion posts, and all assignment components due on Friday by midnight.

Dual Due Date System

- Work for each module will be due at midnight of the last night of the module (see listing of dates on the calendar provided in D2L.)
- Saturdays are assignment free, "catch up" days. All work due during the prior week may be submitted by midnight on Saturday of that week for partial credit. Saturday midnight is the UNEDD "Ultimate No Excuses Due Date." Late work submitted after the UNEDD will not be accepted.

It is my desire that you have all work done by Friday so that you can enjoy your weekends homework free. It is summer time and we all need a couple of days off.

Descriptions of Assignments:

<u>Weekly Assignments:</u> These tasks will carry us from module to module and will be related to the reading we are doing or topics we are discussing. They include quizzes/reflective activities papers on readings, current events, and online postings.

<u>Final Project:</u> You will develop a mathematical unit for your classroom that aligns with the principals, provides opportunities for diverse learners, and provides opportunities for discussion of mathematical topics. There will be three components that generate the 300 points. More information will be provided in D2L.

TECHNOLOGY REQUIREMENTS

Note: This course is 100% online. Please review the technology requirements carefully. A reliable high speed access to the internet will be necessary to complete this course. Highly recommended that students develop a backup plan for both equipment and internet access -technology issues are not a valid excuse for missing assignment deadlines.

Browser support

D2L is committed to performing key application testing when new browser versions are released. New and updated functionality is also tested against the latest version of supported browsers. However, due to the frequency of some browser releases, D2L



cannot guarantee that each browser version will perform as expected. If you encounter any issues with any of the browser versions listed in the tables below, contact D2L Support, who will determine the best course of action for resolution. Reported issues are prioritized by supported browsers and then maintenance browsers.

Supported browsers are the latest or most recent browser versions that are tested against new versions of D2L products. Customers can report problems and receive support for issues. For an optimal experience, D2L recommends using supported browsers with D2L products.

Maintenance browsers are older browser versions that are not tested extensively against new versions of D2L products. Customers can still report problems and receive support for critical issues; however, D2L does not guarantee all issues will be addressed. A maintenance browser becomes officially unsupported after one year.

Note the following:

- Ensure that your browser has JavaScript and Cookies enabled.
- For desktop systems, you must have Adobe Flash Player 10.1 or greater.
- The Brightspace Support features are now optimized for production environments when using the Google Chrome browser, Apple Safari browser, Microsoft Edge browser, Microsoft Internet Explorer browser, and Mozilla Firefox browsers.

The following information has been provided to assist you in preparing to use technology successfully in this course. In terms of technology eCollege recommends:

- Windows Users
 - Windows 7, XP or Vista
 - 56K modem or higher
 - Soundcard & Speakers
 - Firefox, Chrome or Microsoft Internet Explorer
- <u>Mac OS User</u>
 - Mac OS X or higher (in classic mode)
 - o 56K modem or higher
 - Soundcard & Speakers
 - <u>Apple Safari</u>
- Internet access/connection high speed recommended (not dial-up) Note: you must be able to access the university library databases
- Word Processor (i.e. MS Word or Word Perfect)
- You will need regular access to a computer with a broadband Internet connection. The minimum computer requirements are:
 - o 512 MB of RAM, 1 GB or more preferred
 - o Broadband connection required courses are heavily video intensive



- Video display capable of high-color 16-bit display 1024 x 768 or higher resolution
- You must have a:
 - Sound card, which is usually integrated into your desktop or laptop computer
 - Speakers or headphones.
 - *For courses utilizing video-conferencing tools and/or an online proctoring solution, a webcam and microphone are required.

COMMUNICATION AND SUPPORT

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778 or click on the **Live Chat** or click on the words "click here" to submit an issue via email.



System Maintenance

Please note that on the 4th Sunday of each month there will be System Maintenance which means the system will not be available 12 pm-6 am CST.

Interaction with Instructor Statement

Use my contact information: cell phone and email address to reach me outside of class. Expect a reply within 48 hours.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures:

Academic Honesty Policy

Texas A&M University-Commerce does not tolerate **plagiarism** and other forms of academic **dishonesty**. Conduct that violates generally accepted standards of academic honesty is defined as academic dishonesty. "Academic dishonesty" includes, but is not limited to, plagiarism (the appropriation or stealing of the ideas or words of another and passing them off as one's own), cheating on exams or other course assignments, collusion (the unauthorized collaboration with others in preparing course assignments),



and abuse (destruction, defacing, or removal) of resource material. Plagiarized assignments will receive no credit.

See <u>http://www.plagiarism.org/</u> for more details about how to avoid plagiarism.

University Specific Procedures:

ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services Texas A&M University-Commerce Gee Library 132 Phone (903) 886-5150 or (903) 886-5835 Fax (903) 468-8148

StudentDisabilityServices@tamu-commerce.edu Student Disability Resources & Services

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See *Code* of Student Conduct from Student Guide Handbook).

Attendance Policy:

As per University Policy B-19: Students are expected to be present for all class meetings for any course in which they are enrolled. Students are responsible for learning about and complying with the attendance policy stated in the catalog, Student's Guidebook, and/or faculty syllabus. Students will be allowed to make up missed work if the absence is determined excused by the instructor. **"Faculty members may recommend to the appropriate college dean that a student be dropped from a course when unexcused absences reach approximately 20% of total scheduled class meetings for the term."**

Campus Carry Policy :

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted



to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer

to(<u>http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf</u>) and/or consult your event organizer). Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

COURSE OUTLINE / CALENDAR

See Course Requirements for a list of course assignments.

Dates:	Modules:
June 5-9	One
June 12-16	Two
June 19-23	Three
June 26-30	Four
July 3-7	Five & Final Project

Due dates for Module Assignments will be each Friday at midnight, with the UNEDD being Sunday each week.

Module Assignments will be based on Chapters and Activities that align with the two textbooks. They will be blended dependent on content and context.

Disclaimer:

The instructor reserves the right to make changes to the schedule of the class. Any alterations

will be announced in class or via email by the instructor. Students who do not attend class or

check their email assume responsibility for missing alterations to the course.