Course: MTH 595AO
Course credit: 3 (2-0)
Term:

Instructor: Dr. Denny St. John
Office: 134C Pearce Hall
Phone: (989) 774-2554
Email: stjoh1d@cmich.edu
Meeting Dates: Online and/or by appointment

Objectives: At the end of MTH 595AO you will be able to:

- Use the functionality of the TI-84 Plus (or TI-83 Plus) graphing calculator to solve problems.
- Use the functionality of TI-Connect software to capture screen images for use in documents and to transfer programs, Apps and other elements between the computer and graphing calculator.
- Examine, discuss, critique and modify and improve activities for use in an Algebra classroom.
- Create mathematics activities for secondary students using the ideas, skills and strategies found in the readings, online discussions and activities for this course.
- Select, present and moderate a discussion about an activity or an article from a relevant mathematics education journal and a technology or a teaching strategy to improve learning or teaching in an Algebra classroom.
- Design, develop and share a plan for use in an Algebra classroom using the TI-84 Plus calculators.
- Participate in an online class discussion and chat.
- Submit assigned documents.

Required Materials

- Many of the assignments refer documents available online.

Course Policies and Procedures

In order to be a successful in this course you will need to be careful to manage your time to keep on schedule. This requires motivation from within. Fortunately, you may complete most of this class at any hour between the start and completion of the course timeframe.

Learning can take place when you communicate with others. Please remember that others will learn from you when you participate fully. Work hard to keep in touch with me and other students taking this course. When you have questions, please feel free to use email or the discussion board to contact your classmates or me.
**Syllabus quiz:** This quiz will provide feedback to me about your understanding of the syllabus and the class. The Syllabus Quiz is designed to give you an opportunity to familiarize yourself with the course materials and the syllabus. You will be given three attempts to take it; the highest score will be recorded in the Grade Center. It is located in Week 1 folder and it is available by 8:00 Friday morning.

**CMU E-mail:** It is very important that you access your Central Michigan University (cmich) e-mail often, at least once a week because all the email messages sent from this class go to your cmich.edu account. Visit http://www.csv.cmich.edu and click on “My E-mail Login” to read your cmich e-mail.

**Responding to email:** I will check my email daily. I will respond to course related questions within 24 - 48 hours. If I find those questions relevant and important to others, I will post them on the Announcement page.

**Announcements:** I highly recommend you to read Announcements four to five times each week. All of the important information, reminders, updates, questions and answers, etc. are posted there because this is the first page when you log into the class. If you happen to miss any days, please click tabs "View Last 7 days" or "View Last 30 days" to get yourself caught up with what has been going on with the class.

**Required discussion responses:** There are discussion items posted under the Discussion Board button with 4 points each. You are required to respond to my posting (2 points), post a comment or question to solicit responses from classmates (1 point) and respond to one of your classmate's questions or comments (1 point). You are likely to earn more points when you make cogent use of assigned readings in your postings or questions and comments to each other. Also, remember, your discussion postings are seen by everyone in the class, so please respect each other and take this opportunity to learn from each other.

**Assignment file formats:** Please refer to every week's assignment instruction on assignment file formats.

**Submitting assignments:** There are eight weeks for MTH 595AO. Each week includes modules various assignments for you to complete. All assignments should be turned in via the assignment hyperlink in each of the weekly folder. Due dates of each assignment are posted within the assignment and also on the Schedule page under the Syllabus link. There will be 20% penalty for submitting assignments after the due date.

**Deadlines:** Odd things happen in cyberspace—submissions get lost, servers disconnect temporarily, and logins fail. Do not wait for the last minute to do your work. Allow time to meet deadlines. You are responsible for getting the work submitted on time.

**Late Work:** Each week's work must be completed by 11:50 PM EST or EDT on Sunday of the following week (You have about two weeks to complete assignments. I do hope
this gives you plenty of time.). Late work will receive 20% deduction from the given credit.

**Feedback on your assignment submission:** Please check feedback on the graded assignments in the Grade Center by clicking the hyperlinked score. If you have any difficulty finding comments, please read instructions under the Tutorial link.

**Check your grades:** I will post your grades on discussion responses, chat participation, assignments, etc. as soon as I can. If you find any errors or missing scores in your gradebook, please feel free to email me. I will correct my mistakes.

**Quizzes:** There are four quizzes for this class. Each quiz is worth 20 points.

**Assignment 3 includes group work:** I strongly believe that collaboration/team work is very important in any aspects of our job. To work collaboratively in cyberspace is challenging but rewarding. I'd like to give you the opportunity to experience this exciting adventure.

- You will be assigned to a group of 3-4 students with discussion forum, chat, file exchange and email.
- The group will brainstorm and decide on a topic for a group PowerPoint presentation and Word document including the group activity.
- Everyone in the group will take a role or responsibility of that topic to create his or her part for the group presentation with 3 slides.
- The individual presentation will be submitted it to me under Assignment 4 folder.
- You will also exchange your presentation and activity with group members under in your group area and with the rest of the class.
- More information will be discussed later as questions arise.

Course Outline

**Week 1 – Modules 00 – 04**
- Respond to discussion postings
- Complete Readings Assignment 1
- Take Syllabus Quiz
- Download and Install TI-Connect

**Week 2 – Modules 05 – 07**
- Complete Readings Assignment 2
- Assignment 1 – Problem Solving, Graphics Calculators & TI-Connect
- Take Quiz 1
- Respond to selected activity discussion, critiques and suggestions for modification

**Week 3 – Modules 08 – 11**
- Complete Readings Assignment 3
• Submit Assignment 1
• Respond to activity discussion postings
• Feedback survey

Week 4 – Modules 12 – 15
• Complete Readings Assignment 4
• Assignment 2 – Find, select and review a technology article
• Take Quiz 2
• Respond to activity discussion postings

Week 5 – Modules 16 – 19
• Complete Readings Assignment 5
• Summarize and share your selected article with the rest of the class
• Respond to activity discussion postings
• Submit Assignment 2

Week 6 – Modules 20 – 23
• Complete Readings Assignment 6
• Assignment 3 – Find and discuss and modify an activity with your group
• Respond to activity discussion postings
• Take Quiz 3

Week 7 – Modules 24 – 27
• Complete Readings Assignment 7
• Submit Assignment 3
• Assignment 4 – Select and propose a learning activity then design, develop and share a plan for use in an Algebra classroom using the TI-84 Plus calculators
• Respond to activity discussion postings

Week 8 - Final Project Due
• Complete Readings Assignment 8
• Take Quiz 4
• Submit Assignment 4
• End-Of-Course Survey

*The official end of course is determined by each course schedule.

Evaluation and grading

Final Grades for this class will be based on your performance in discussion postings, weekly assignments, group project, final project and extra points. They are listed below.

• Syllabus Quiz -- 4 points
• Feedback Survey -- 4 points
• End of Course Survey -- 4 points
• Quiz 1 -- 20 points
• Quiz 2 -- 20 points
• Quiz 3 -- 20 points
• Quiz 4 -- 20 points
• Assignment 1 -- 20 points
• Assignment 2 -- 20 points
• Assignment 3 -- 20 points
• Assignment 4 -- 20 points
• Discussion postings -- 28 points (4 points each for Weeks 1 - 7)

Numerical Grading Scale

200 -- 190 -- A
189 -- 180 -- A-
179 -- 170 -- B+
169 -- 160 -- B
159 -- 150 -- B-
149 -- 140 -- C+
139 -- 130 -- C
129 -- 120 -- C-
Below 120 -- E

ADA Statement

CMU provides students with disabilities reasonable accommodations to participate in educational programs, activities, or services. Students with disabilities requiring accommodations to participate in class activities or meet course requirements should contact the instructor as early as possible.

Academic Integrity Statement

Written or other work submitted by each student in this course, shall be the product of his/her own efforts. Plagiarism, cheating, and all other forms of academic dishonesty are prohibited. Student expected to adhere to the ethical and professional standards associated with their programs and academic courses. Copies of the Policy on Academic Integrity may be accessed at http://www.cmich.edu

Bibliography:


Rogers, Y. (1999). What is different about interactive graphical representations? Learning and Instruction, 9, 419-425.


