

Course: MTH 595AP  
Course Title: T<sup>3</sup>™ – Calculus with the TI-83 Plus and TI-84 Plus  
Course Credit: 3 (3-0)

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Meeting Dates: Online and e-mail

***Objectives:***

At the end of MTH 595AP, T<sup>3</sup>™ – Calculus with the TI-83 Plus/TI-84 Plus, you will be able to:

- Use the functionality of the TI-83 Plus/TI-84 Plus family of graphing calculators to solve problems in Calculus.
- 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 the handheld.
- Examine, discuss, critique and modify and improve activities for use in a Calculus classroom.
- Select, present and moderate a discussion about an activity, an article from a journal, a technology or a teaching strategy to improve learning and/or teaching in a Calculus classroom.
- Design, develop and share a lesson plan for use in a Calculus classroom using the TI-83 Plus/TI-84 Plus family of handhelds.
- Participate in an online class discussion and chat.
- Submit assigned documents.

***Textbooks***

There are no required textbooks for MTH 595AP. Many of the assignments refer to documents available online.

***Equipment***

You should have a TI-83 Plus or TI-84 Plus handheld and a cable that connects the handheld to your computer. You should also have TI-Connect software on your computer to transfer files between the handheld and the computer. You can download TI-Connect for free from <http://education.ti.com>.

## ***Policies and Procedures***

In order to be successful in this course you will have to manage your time well to keep on schedule. You may complete most of this class at any hour between the start and the completion of the course timeframe.

Much learning occurs when you communicate with others. Please remember that you can learn from others and others will learn from you when you participate fully. Be sure to keep in touch with me and with the 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.

If you need technical assistance you can click on the student tutorials or the CMU help desk on your Blackboard home screen at <http://www.cmich.edu/blackboard/home.asp>

*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 and the highest score will be recorded in your grade book. It is located in the Week 1 folder and it will be available at 8:00 AM Monday morning until midnight on Sunday.

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

*Responding to e-mail:* I will check my e-mail 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 Announcements.

*Announcements:* Please read the Announcements four to five times each week. All of the important information, reminders, updates, questions and answers 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 seven 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. These items are worth 5 points each. You are required to respond to either my posting or to that of your classmate. Remember, your discussion postings are seen by everyone in the class, so please respect each other and take this opportunity to learn from others in the class.

Live chat option: There will be optional chat sessions scheduled once every week starting the second week. You will be given two bonus points for participating in each session, up to three sessions in the semester. Please respond to “When will be a good time for you?” in the Discussion Board. With the time options you provide, I will schedule the chat session and post the time by the end of Week 1. If your time permits, please take this opportunity to interact with me and with your classmates. This will be a great time to get your questions answered in real time. Of course, you can also ask me questions at any time via e-mail or telephone.

Assignment file formats: Please refer to every week’s assignment instructions on the assignment file formats.

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

Deadlines: Please do not wait until the last minute to do your work. Knowing that sometimes servers disconnect temporarily, logins can fail, or submissions could get lost in cyberspace, you should allow time to meet your deadlines. You are responsible for submitting your work on time.

Late Work: Each week’s work must be completed by midnight Sunday of the following week. Late work will receive a 20% deduction from the given credit.

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

Checking 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 grade book, please feel free to e-mail me and I will correct my mistakes.

Quizzes: There will be four quizzes for this class in addition to the syllabus quiz. Each of these four quizzes is worth 20 points.

Group work: I believe that collaboration is a very important aspect of our jobs. To work collaboratively in cyberspace can be challenging but rewarding. You will be assigned to a group of students. Your 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 contribute five slides as his/her part of this presentation. The presentation will be submitted to me under the Week Four folder. You will also exchange our

presentation and activity with the rest of the class. More detailed information will be posted later.

### **Course Outline:**

#### **Week 1 – Modules 00 - 03**

- **Respond to discussion postings**
- **Take Syllabus Quiz**
- **Assignment – Download and Install TI-Connect**

#### **Week 2 – Modules 04 - 07**

- **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**

- **Submit Assignment 1**
- **Respond to activity discussion postings**
- **Feedback survey**

#### **Week 4 – Modules 12 - 15**

- **Assignment 2 – Find and discuss and modify an activity with your group**
- **Take Quiz 2**
- **Respond to activity discussion postings**

#### **Week 5 – Modules 16 - 19**

- **Summarize and share your group's selected activity with the rest of the class**
- **Respond to activity discussion postings**
- **Submit Assignment 2**

#### **Week 6 – Modules 20 - 23**

- **Assignment 3 – Find, select and review a technology article**
- **Respond to activity discussion postings**
- **Take Quiz 3**

#### **Week 7 – Modules 24 - 27**

- **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-83 Plus/TI-84 Plus calculators**
- **Respond to activity discussion postings**

## **Week 8 – Modules 28 - 30**

- **Take Quiz 4**
- **Submit Assignment 4**
- **End-Of-Course Survey**

### 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 -- 3 points
- Quiz 1 -- 20 points
- Quiz 2 -- 20 points
- Quiz 3 -- 20 points
- Quiz 4 -- 20 points
- Assignment 1 -- 15 points
- Assignment 2 -- 15 points
- Assignment 3 -- 15 points
- Assignment 4 -- 30 points
- Feedback Survey -- 4 points
- Discussion postings -- 35 points (5 points each for Weeks 1 - 7)
- End of Course Survey -- 3 points

### 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>