

Lecture: 5:50–7:05 p.m., Monday & Wednesday, Room: Columbine Hall 127.

Instructor: Dr. Seung H. Son <http://www.uccs.edu/sson> E-mail: sson@uccs.edu
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Office hours : 3–4p.m. Mon., 12:30–1:30p.m. Wed., or by appointment

Prerequisite: Math 136 (Calculus II)

Text: There are no set texts for this course.

You may learn to use the Internet to find all the necessary information.

References: Mastering MATLAB 7 (or 6: even earlier edition) , by Duane C. Hanselman & Bruce L. Littlefield, Publisher: Prentice Hall

Description: Methodology for using technology as a teaching/ learning tool for high school and college math courses. Use of graphing calculators, computer algebra systems, computer geometry systems and the Internet will be emphasized. Students are required to develop and present a portfolio of in-depth projects.

Important Dates:

Jan. 23	First day of lectures
Feb. 6	Last day to register/Final day for 100% Drop Refund
Mar. 24–Mar. 30	Spring Break: No classes
4/30 or 5/5	6:45–7:05 p.m.: Instructor Evaluation (FCQ)
May 12	Last day of lectures

Grade : Graduate: 100%, Undergraduate: 80%

60%: Quizzes: 6 best scores (10%/each)

20%: Two 10 minute presentations: 10%/each (graduate and undergraduate)

20% One 20 minute presentation: 20% (only graduate students)

A: 93–100 A–: 90–92.9 B+: 87–89.9 B: 83–86.9 B–: 80–82.9 C+: 77–79.9

C: 73–76.9 C–: 70–72.9 D+: 67–69.9 D: 63–66.9 D–: 60–62.9 F: below 60

Drop : Please seek counseling from the Dean's office before dropping *any* course.

Important dates:

Feb. 6: Last day to drop and receive a 100% tuition refund.

Apr. 2: Last day to drop without special permission from your Dean.

Disability Statement: If you have a disability for which you are requesting an accommodation, you are encouraged to contact the Disability Services Office within the first week of classes. The Disability Services Office is located in Main Hall #105. (Phone number is 262-3354)

Outline:

Major techniques:

- Computer Geometry System: Cabri II plus
- Graphing Calculator: TI-84
- Computer Algebra System: Matlab

Other techniques that we will cover:

- Encrypting files
- Grade handling using MS Excel
- Report handling using MS Word
- Using the Internet
- Preparing Presentations using MS PowerPoint
- Advanced typesetting using $\text{T}_\text{E}\text{X}$ & $\text{L}_\text{A}\text{T}_\text{E}\text{X}$

Presentations:

- Students must contact me early enough so that titles and techniques can be determined before each deadline posted at pitab.com.
- If you cannot come on the day you promised, your score becomes zero.
- Each presentation must be created in computer files.
- You must answer the questions about the techniques that you presented.
- Each presenter must prepare a quiz set of at least five problems.
- If two students want to present the same techniques, I will use the “First come, first served” policy and the second student must find other techniques. I will update the presentation timetable as often as possible so that you can check whether a technique will be covered by another student.
- If you want to use your own laptop, make sure everything works fine.
- If you want to use my laptop, e-mail me the file two days before the presentation.

Quizzes:

- There will be quizzes everyday.
- Each day I will select a few students to answer questions about the techniques covered on that day.
- If you are not in the room at the time of the quizzes, you will lose one opportunity to be selected and zero point will be recorded.
- If your name is selected, but you are not in the room, you will lose one opportunity and zero point will be recorded.
- If you get four consecutive zeros, your course grade will become an “F” by default.