

62647 Math 110 Section 001
Mathematical Computing
1 credit

Fall Semester 2011
Friday
0810 - 0910
COE 417

Instructor Dr. Mark D. Jacobson

Office Hours Monday – Thursday: 10:30 – 11:30 a.m. or by appointment

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Phone 406-657-2203

Text All material is online for Mathematica, Version Number 8.0.0.0.

Catalog Description M 110 Mathematical Computing 1 credit

Prerequisite: M 171 or equivalent.

Corequisite: M 172.

Introduces the use of computer algebra systems to solve mathematical problems.

Course Goals and Purpose

The material covered corresponds to chapters 1 through 10 of the textbook, “Thomas’ Calculus, Early Transcendentals, 12th edition”. This is the textbook used in M 171 and 172. Students will submit computer work in D2L as a part of their regular assignments in these classes.

Upon completion of the course, students should be able to work with computer algebra systems to solve mathematical problems. The students should also be well versed in the mathematical language needed for applying the concepts of integral calculus to numerous applications in science, engineering and applied mathematics. Our goal of this course is to present the key concepts and main ideas of computer algebra systems. Students will demonstrate ability to understand quantitative measures, use quantitative skills to solve problems, and use logical skills to make judgments. Students will also demonstrate a basic understanding of subject matter; they’ll demonstrate thinking, comprehension, and expression of subject matter. And finally, students will demonstrate ability to identify and solve problems using methods of this discipline.

Assessment

Progress by the student will be assessed through computer work. **In the event of an emergency, you must notify me by phone or e-mail PRIOR to the test.** The purpose of this form of assessment is to measure mastery of material as well as encourage development of problem solving and critical thinking skills.

ITEM

Percentage

Mathematica Homework 100 %

<u>Percentage</u>	<u>Grade</u>	<u>Points</u>
100 – 93 %	A	4.0
92 – 90 %	A-	3.7
89 – 87 %	B+	3.3
86 – 83 %	B	3.0
82 – 80 %	B-	2.7
79 – 77 %	C+	2.3
76 – 73 %	C	2.0
72 – 70 %	C-	1.7
69 – 67 %	D+	1.3
66 – 63 %	D	1.0
62 – 60 %	D-	0.7
Below 60%	F	0.0

Homework

The assigned homework is located in D2L. The completed homework is also submitted in D2L. D2L's website: <https://msubonline.net/>.

Incompletes

An Incomplete (grade) is given only when students have been in attendance for at least three-fourths of the semester but have been prevented by circumstances beyond their control from completing all the requirements of the course. The student must provide adequate evidence to the instructor as to the reason why they were unable to complete the requirements of the course. An Incomplete must be made up within one calendar year or the grade will revert to an F. In general, to make up an incomplete for this class, the student must retake the course and will be required to submit all material required by the new instructor of a regular student.

Plagiarism / Cheating

Neither will be tolerated in this class. Stealing others work – with or without their permission – is not acceptable for the simple reason that it blocks your learning. It will catch up with you eventually. You are expected to come out of any course with a knowledge base. If you do not have it, your success later may be in jeopardy. I cannot guarantee that I will catch all acts of dishonesty. However, for those I do catch, the first instance is a zero on that assignment and the second is an F for the course. Don't do

it! You have more integrity than that. Refer also to page 134 of your student handbook.

Cell phones, et el

I expect all modes of electronic communication as well as games, etc. to be off during class time. If there is some reason that you must be available for a call, please talk to me about it.

On-campus evacuations

There will be times when you will be exiting your classroom due to evacuation drills or a real emergency. Keep two things in mind:

- Treat all instances seriously!
- **TAKE ALL PERSONAL BELONGINGS WITH YOU.** Any that you leave behind may be confiscated for several days!!

Phone numbers

Admissions and records (657) 2158 Campus police (657) 2147

**Students with disabilities, whether physical learning, or psychological, who believe that they may need accommodations in this class, are encouraged to contact Disability Support Services as soon as possible to ensure that such accommodations are implemented in a timely fashion. Please meet with [DS] staff to verify our eligibility for any classroom accommodations and for academic assistance related to your disability. Disability Support Services is located in the Academic Support Center.