CoSM Class Syllabus/Policy
Calculus III, Summer 1, 2023
MATH 3315.001, MATH 3115.001

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Office: Math 352
Office Hours: by appointment only
Department: Mathematics and Statistics

Class meeting times and places:
Lecture: MTWTh 8:00-10:05AM, Bush Math room 359
Lab: TTh 10:30AM-12:30PM, Bush Math room 359

Course Description: Vectors, vector operations, and vector functions; multivariate functions, partial derivatives, gradients, and multiple integrals; integration in vector fields, Green’s, Stokes’, and the Divergence theorems.

Text and Materials:
- Calculator: students may use a non-programmable, non-graphing calculator (e.g. TI-30 XS MultiView). Calculators that perform numerical differentiation or numerical integration (e.g. TI 36 X pro) are prohibited.

Course Requirements

- Before you arrive to class, you are expected to have read the assigned readings and written the assigned Examples from the textbook.
- When you arrive to class, (1) silence your cell phone and other devices, (2) get out any completed assignments ready to submit, and (3) prepare to take studious notes.
- Homework — Exercises from the textbook will be assigned for each major topic in the course.
- Quizzes — You will have periodic in-class quizzes. Some of these will be announced; some will not. No make-up quizzes will be offered. Your lowest quiz grade will be dropped at the end of the term.
- Projects — Students will have projects on a number of lab days that utilize graphing utilities (such as desmos) and technical computing tools (such as MATLAB). Some projects involve several parts; take each part seriously.
- A Midterm Exam — If a student must miss an exam due to an excused absence, special arrangements should be made at least two class days in advance. Student ID with photo may be required for exams.
- A cumulative final exam — The final exam is MATH 3315.001: Friday, June 30, 8:00 AM – 10:05 AM
- Participation – Students are expected to attend every class, ask questions, and engage in the discussion.

Tentative Content Schedule: See D2L Brightspace
May 30 – June 1: Chapter 11 Parametric & Polar Curves
June 4 – 13: Chapter 12-13 Vectors & Motion
June 14 – 22: Chapter 14-15 Multivariate Functions
June 23 – 29: Chapter 16-17 Integration in Vector Fields

Grading Policy: Your grade will be computed by a weighted average with the following items and percentages.

<table>
<thead>
<tr>
<th>Item</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>20%</td>
</tr>
<tr>
<td>Projects</td>
<td>10%</td>
</tr>
<tr>
<td>Participation</td>
<td>5%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>30%</td>
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<tr>
<td>Final Exam</td>
<td>35%</td>
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</tbody>
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Attendance Policy:
Students are expected to attend every class. A late arrival counts as a ½ absence. Following a third absence, a student will be given a written warning in an email. For each additional absence one of the percentage points for “Participation” will be deducted from your overall numerical grade.

SFASU values students’ mental health and the role it plays in academic and overall student success. SFA provides a variety of resources to support students’ mental health and wellness. Many of these resources are free, and all of them are confidential:

On-campus Resources:
SFASU Counseling Services
www.sfasu.edu/counselingservices
3rd Floor Rusk Building
936-468-2401

SFASU Human Services Counseling Clinic
www.sfasu.edu/humanservices/139.asp
Human Services Room 202
936-468-1041

Crisis Resources:
Burke 24-hour crisis line 1(800) 392-8343
Suicide Prevention Lifeline 1(800) 273-TALK (8255)
Crisis Text Line: Text HELLO to 741-741

Tips for Success:
1. Attend every class. Take notes. Ask questions. Before class, read the corresponding section in the textbook, print the available notes (suggested 2-4 slides per page), and bring them to class.
2. Be prompt and professional. Remove your headphones. Put your phone away without being asked.
3. Check your SFA email at least once per day. I will do the same.
4. Do all assigned HW exercises independently and promptly. Cancel Chegg (slater, wolfram alpha, symbolab) subscription, self-evaluate, use a timer, etc.
5. Do not ask for extra credit. Do not ask, “Is THAT going to be on the exam?” or it will be.

You are antifragile. “Many of the important systems in our life,… like our immune system, require stressors and challenges in order to learn, adapt, and grow… [such systems] become rigid, weak, and inefficient when nothing challenges them or pushes them to respond vigorously.” Coddling of the American Mind, page 23

“...suffering produces endurance, and endurance produces character, and character produces hope, and hope does not put us to shame...” Romans 5:3-5

Learning is virtuous. “Do not reprove a scoffer, or he will hate you; reprove a wise man, and he will love you. Give instruction to a wise man, and he will be still wiser; teach a righteous man, and he will increase in learning.” Prov 9:8-9

SFA Drop Policy: https://www.sfasu.edu/policies/course-add-drop-6.10.pdf

The following is an excerpt from SFA Policy 5.4:

*The federal definition of a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:*

1. *Not less than one hour of classroom or direct faculty instruction and a minimum of two hours out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or 10 to 12 weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time, or;*

2. *At least an equivalent amount of work as outlined in item 1 above for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.*

To this end, all students in courses offered by the Department of Mathematics and Statistics that wish to be successful should plan to spend a minimum of two hours outside of class for every credit hour associated with this course. Expected activities to be completed in the time outside of class include reviewing notes from previous class meetings, reading assigned course resources, completing all assigned exercises and projects, and performing periodic assessment preparation.

See http://www2.sfasu.edu/math/docs/syllabi/MATH3315Syllabus.pdf for elements common to all sections.