

**Instructor:** Fred Kuczmarski

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**Hours:** 10:30-11:20 daily and by appointment.

**Text:** *Calculus: Early Transcendentals, Sixth Edition*, James Stewart

**Prerequisites:** Math 152 (previously Math 125) (2.0 or above) or equivalent

**Topics:** Vectors and Three-Dimensional Geometry (12.1 - 12.5)

Vector-valued functions (13.1-13.4)

Functions of two and three variables (14.1-14.6):

Partial derivatives, linear approximation, the chain rule, directional derivatives, the gradient

Sequences and Series (11.1-11.10)

**Course Objectives:** Master the content of the course. Continue to develop problem-solving skills. Learn to write clear and precise mathematics in complete sentences.

**Quizzes:** A 25 minute quiz will be given each Tuesday, except in the event of a test. No makeups will be given. Eight quizzes will be given. Your seven highest scores will count.

**Tests:** There will be two tests - the tentative dates are January 28th and February 25th. Any changes to these dates will be announced in class. Makeups will be given only in the event of illness or emergency, provided you contact the instructor **BEFORE** the exam. Each test will cover material since the beginning of the course. No notes will be permitted.

**Final:** The final is on Friday, March 18th, 11:30am -1:20pm. It will be comprehensive. No notes will be permitted. This date is set by the college and cannot be changed for any reason. Please plan to attend.

**Text Homework:** Homework is due at the start of class on Fridays. You may turn in **one** homework up to two days late, otherwise late homework will not be accepted for any reason.

Each homework must be stapled and include a cover sheet, containing the following information:

1. Your name and the homework number.
2. A list of the problems you did not complete or solved incorrectly.
3. A brief summary of what gave you trouble, if anything.
4. The percentage of the problems assigned that you did complete correctly.
5. Your grade on the homework, as calculated below.

Each homework is worth 5 points. Determine your grade  $G$  from the percentage,  $P$  of problems you solve correctly, by the following formula:

$$G = [(P + 10)/20],$$

where  $[x]$  denotes the greatest integer less than or equal to  $x$ . Your nine highest homework

scores (out of ten) will count toward your grade. You will not receive credit without a cover sheet.

**Writing Requirements for Homework:**

Show your work. You will not receive credit if you do not show work.

Use standard-size paper without tears or fringes.

Staple any work that is more than one page.

Write neatly in pencil. Do not cross out errors. If you find yourself erasing extensively, stop and start again on a fresh page.

Use a straight edge for coordinate axes. Label axes with variables names and units.

**Additional Homework:** Homework may be assigned in class and collected the following day. You will be graded on the clarity of your work as well as its mathematical accuracy. Please follow the following guidelines:

1. Use standard-size paper without tears or fringes.
2. Staple any work that is more than one page.
3. Write neatly in pencil. Work should proceed vertically down the page. Do not cross out errors. If you find yourself erasing extensively, stop and start again on a fresh page.
4. Use a straight edge for coordinate axes. Label axes with variables and units.
5. State the problem at the top of the page.
6. Include an accurate picture (if appropriate).
7. Define any variables you introduce. Include units in the definition if appropriate.
8. Include brief but sufficiently clear explanatory sentences throughout the solution.
9. Use correct mathematical notation.
10. End with a concluding sentence that answers the question with the correct units.

**Optional Homework** Approximately once per week an optional, more challenging, homework problem will be assigned. These problems will add additional points to the total number of available points for those students choosing to participate. Please follow the above guidelines for the additional homework.

**P/NC Option Grading:** Those students choosing this option must do so by February 7th by submitting a Pass-Option Card (signed by the instructor) to the registration desk, otherwise a decimal grade will appear on your transcript. If an emergency situation occurs after this date that affects your ability to attend class and perform class work, you may fill out a form formally requesting a Z-grade. This request may be granted or denied, depending on the situation.

**Withdrawals:** The last day to withdraw from class is February 15th.

**General Comments:** To master the material, it is essential that you set aside time **each day** to think about the homework problems and the concepts introduced in class. You should plan on spending an average of twelve to fifteen hours per week outside of class.

**Cheating and Plagiarism:** Any student caught cheating on a quiz or a test will get a 0.0 for the course. Any student who copies the work of another student or the solution manual

for a homework problem will receive a 0 for that homework. Those students who copy or share work for an optional homework problem will lose credit for all optional homework problems previously turned in and will forfeit the right to turn in any additional optional homework problems.

**Emergencies:** If school is closed for any reason, we will start where we left off when class resumes. If we were scheduled to have an exam the day school is canceled, the exam will take place the first day back at school.

**Special Services:** Students with disabilities have the right to request and receive reasonable accommodations to ensure access to programs and facilities at Shoreline Community College. To receive reasonable accommodations, students are responsible for requesting accommodations and documenting the nature and extent of their disability in a timely manner. Students should direct their requests for reasonable accommodation to the Services for Students with Disabilities office. Contact Shoreline's coordinator of Services for Students with Disabilities at 546-5832 or 546-4520 (TTY) in the Foss Building, Room 2133J for more information or for an assessment of your individual needs.

**Electronic Devices:** All electronic devices, including cell phones and laptops, must be turned off during class.

**Grading:** The grade will be based on the following. The point distribution shown below is approximate and is subject to change.

Text Homework	9 @ 5 points each for 45 points
Additional Homework	6 @ 5 points each for 30 points
Optional Homework	10 @ 6 points each for 60 points
Quizzes	7 @ 20 points each for 140 points
Tests	2 @ 40 points each for 80 points
Final	1 @ 80 points

The grading scale is linear and will be approximately as follows:

95%: 4.0      80%: 3.0      65%: 2.0

The content of this syllabus is subject to change at the discretion of the instructor. Any changes will be announced in class.