

A. INTRODUCTION: DENNIS C. SMOLARSKI, S.J. (SCU e-mail: dsmolarski@scu.edu)

Office: O'Connor 7 (554-4174)

Messages: Jesuit Community (Franklin at Alviso Sts.) (554-4124)

NOTE: Messages can be left at either number (wait long enough!)

B. BOOK: Weir/Hass, *Thomas' Calculus: Early Transcendentals* Vol. 1 (15th ed.) (Math 11 covers the majority of Cpts 1, 2, and 3, and 4.1, 4.6.) **NOTE:** *Answers* to ODD problems are in back of the book. Vol. 1 good for 2 courses (Math 11 and 12).

C. AUXILIARY BOOKS AND OTHER STUDY HELPS:

1. Library, QA 300
2. Book dealers: Schaum's Outline series: *Beginning Calculus*, *Calculus*; REA: *The Calculus Problem Solver*.
3. i) Tutors in Math Learning Center, Heafy 223 (scu.edu/mlc)
ii) Drahmann Center (Kenna 1st floor) (personal tutors can be obtained at no charge to a student).
iii) Drop-in clinics (see MLC website).

D. OFFICE HOURS: 9:15–11:00AM M,W,F.

MEANING: guaranteed presence in basement of O'Connor (check the Sussman Room [O'C 31] if I am not in my office).

Also *probably* around *UNofficially* 9:30–10:30 Tu, Th and at other times M–F. However, no guarantee exists for these times!! *Please focus your questions!! Don't hesitate to call or email for an appointment!*

E. GRADING:

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|----------------|----------------------------|-----|--|
| APPROXIMATELY: | 3 midterms (20% each) | 60% | This course is graded on a curve, and students will be advised after each exam (and before the final), as to their standing (approx. grade) in the course. |
| | Homework & Attendance | 10% | |
| | Brief Quizzes (on Fridays) | 5% | |
| | Final | 25% | |

ALSO, there may be at least one *non-credit* GATEWAY EXAM. To be explained in class.

MID1—F 1/24; **MID2**—F 2/7; **MID3**—F 2/21; **FINAL**—W 3/19 (9:10AM),

NOTES: (1) *No make-up tests!*

(2) *Midterms are 45 minutes long, and the final is 2 hours long.*

(3) *It is NOT permitted to take the final early!*

University policy allows faculty to prescribe attendance policies (cf. www.scu.edu/bulletin/undergraduate/, Chapter 9, "Academic Program Policies and Regulations," "Undergraduate Class Attendance Policy" section) and leaves penalties for absences up to individual instructors. In this class, attendance is required. Unexcused absences of over 10% of classes (i.e., 3 classes) may result in grade adjustment.

F. HOMEWORK:

⇒ CLASS IS FOR NEW MATERIAL – DIFFICULTIES IN HOMEWORK SHOULD BE DISCUSSED DURING OFFICE HOURS OR WITH TUTORS!!

• It is departmental policy that NO LATE HOMEWORK will be graded (partial credit may be given for turning it in, however, before the next class period). **If you are ill the day written homework is due, take a picture and email it to me before the end of class.**

• Homework is usually assigned daily and written homework corrected by a *student* grader.

• Your work should be visible or else grader will take off points and indicate "show work."

• Homework should be somewhat neat, folded length-wise, with your name visible on the outside. It is to be turned in AT THE BEGINNING OF CLASS!!

G. COURSE WEB PAGE: The URL for the class web page is:

<https://webpages.scu.edu/ftp/dsmolarski/mailhomepage.html>

There is a page accessible via the web site listing *homework assignments*. For other class policies, see the **Classroom Etiquette** subpage.

H. CALCULATORS, CELL-PHONES, I-PODS: NO CALCULATORS ARE ALLOWED DURING TESTS.

Please SILENCE your cell-phones during class. No text messaging during class, particularly during exams! Please focus on the course material, and refrain from listening to music during class or checking email on laptops.

I. ACADEMIC INTEGRITY: Students are reminded of university policy regarding violations of academic integrity (i.e., “cheating”). Possible sanctions include receiving a grade of F and expulsion from the University. See www.scu.edu/bulletin/undergraduate/chapter-5/academic-integrity.html, and www.scu.edu/bulletin/undergraduate/chapter-5/index.html for mention of the Engineering School Honor Code). All of the work that you turn in should be your own, and not that of a classmate or copied from another source.

SCU Academic Integrity Pledge: *I am committed to being a person of integrity. I pledge, as a member of the Santa Clara University community, to abide by and uphold the standards of academic integrity contained in the Student Conduct Code.*

J. PREREQUISITES: High school algebra and trig course. If you took Math 9 at SCU, you should have received at least a C- in the course. The Department assumes you have taken the *Calculus Readiness Exam* and received a satisfactory score or have taken a high school (AP) Calculus course.

K. GOALS AND OBJECTIVES: Students will learn to:

- Solve problems, including choosing and developing appropriate methods, as well as communicating mathematical ideas effectively. In this course we will emphasize the use of the derivative as an important problem-solving tool.
- Use mathematical reasoning and deduction to draw valid conclusions from given information. For example, we will learn to predict properties of curves from their derivatives.
- Use and understand mathematical ideas from multiple and interconnected perspectives, including algebraic, geometric, analytical and numerical points of view. Differential calculus combines geometric ideas of slope, real-world concepts of rates and analytical concepts of derivatives to give a unified perspective of mathematics.
- Understand significant mathematical ideas and results in addition to mastering efficient computational techniques. Beyond computational proficiency, we will strive to understand the meaning of our results, as well as encountering some central theorems of mathematics.

In addition to providing students with a good foundation in a fundamental area of mathematics, this course will also contribute to a person’s skills and logical perspective that will be applicable to many other courses requiring mathematical methods and careful reasoning.

NOTE: *All assignments, quizzes, and exams foster all core learning goals, the departmental goals, and the course goals.*

L. ACCESSIBLE EDUCATION ACCOMMODATION POLICY: To request academic accommodations, students must contact the Office of Accessible Education (OAE) located in Benson basement, room 1, (408) 554-4109. Students must provide appropriate documentation to the OAE prior to receiving accommodations. Please have OAE notify me during the first week so I can make appropriate arrangements on exam dates.

M. ANTI-DISCRIMINATION: SCU upholds a zero tolerance policy for discrimination, harassment and sexual misconduct. If you (or someone you know) have experienced any misconduct, you are encourage to tell someone. Please see www.scu.edu/studentlife or contact Belinda Guthrie at (408) 554-3043.