

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

Office: O'Connor 7 (408-554-4174)

Messages: Jesuit Community (Franklin & Alviso Sts.) (408-554-4124)

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

B. BOOK: Weir/Hass, *Thomas' Calculus* (15th Edition) (**Same book as for Math11.**) (Math 12 covers the majority of Cpts 4, 5, 6, 7, 8)*REMINDER:* Answers to ODD problems are in back of the book.**C. AUXILIARY BOOKS AND OTHER STUDY HELPS:**

1. Library, QA 300
2. Schaum's Outline series: *Calculus*, *Calculus*; REA: *The Calculus Problem Solver*.
3. i) Tutors in Math Learning Center, Heafy 223 (www.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: 8:30–10:15 AM 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* 9:30–10:30AM TuTh. No guarantee exists for these other times, however!!*Please focus your questions!! Please don't hesitate to call or email for an appointment!***E. GRADING:**

<i>APPROXIMATELY:</i>	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%	

MID1—W 4/16; MID2—F 5/2; MID3—F 5/16; Final—M 6/9 (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 consequences 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. WRITTEN AND ON-LINE HOMEWORK:** \Rightarrow CLASS IS FOR NEW MATERIAL — DIFFICULTIES IN HOMEWORK (WRITTEN OR ON-LINE) SHOULD BE DISCUSSED DURING OFFICE HOURS OR WITH TUTORS!!

- It is departmental policy that NO LATE WRITTEN HOMEWORK will be graded (partial credit may be given for turning it in, however, before the next class period).
- Homework is usually assigned daily and written homework is corrected by a *student* grader.
- Written homework should be somewhat neat, folded length-wise, with your name visible on the outside. Your work should be visible or else grader will take off points and indicate "show work." It is to be turned in AT THE BEGINNING OF CLASS!!

G. CALCULATORS and CELL-PHONES: If you have a calculator on your watch or pen or keychain, you can use it as you wish. OTHERWISE, NO CALCULATORS ARE ALLOWED DURING TESTS. Please SILENCE your cell-phones during class. **No text messaging in class, particularly during exams!****H. WEB PAGES:** The URL for the class web page is:<https://webpages.scu.edu/ftp/dsmolarski/ma12homepage.html>There is a page accessible via the web site listing *homework assignments*. For other class policies, see the **Classroom Etiquette** subpage.

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: The *Bulletin* assumes students have received at least a C– in Math 11 to enroll in Math 12. Concepts learned in Math 11 are repeatedly used in Math 12 and must be well-known. Many students have found Math 12 concepts more difficult than those in Math 11.

K. GOALS AND OBJECTIVES: In this course, focusing on integral calculus,

- emphasis will be placed on the use of the definite and indefinite integral as an important problem-solving tool.
- students will learn to predict properties of functions from their antiderivatives.
- integral calculus will be seen to combine geometric ideas of area and analytic concepts of the indefinite integral to give a unified perspective of mathematics.
- beyond computational proficiency, students will be led to understand the meaning of results, as well as central theorems such as the Fundamental Theorems of Calculus.

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.*

Further information about departmental goals and objectives and specific course goals and objectives may be found at: math.scu.edu/deptgoals.html

L. ACCESSIBLE EDUCATION ACCOMMODATION POLICY: To request academic accommodations, students must contact the Office of Accessible Education (OAE) located in Daly Science 300, (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.