

MAT 284 – BUSINESS CALCULUS
Summer 2017 Section 002
Session II

Class Meetings: Monday, Tuesday, Wednesday, & Thursday, 2:00 - 4:25pm, in 119 Carnegie Library

Instructor: Dr. Duane Graysay, Assistant Professor of Mathematics Education
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Course Description: This course covers one variable differential and integral calculus with applications to business and economics. MAT 284 may not be taken for credit after successful completion of MAT 285 or MAT 295 (4 credits).

Course Restrictions/Prerequisites: Although there are no formal prerequisites, the knowledge of Pre-Calculus material at the level of MAT 194 is essential for success in this course. Please note that the sequence of MAT 183-284, taken in either order, satisfies the Quantitative skills requirement of the Liberal Arts Core in the College of Arts and Sciences. However, this sequence is specially designed for students in the School of Management.

Text: "Introductory Mathematical Analysis" by Haeussler, Paul, and Wood, Custom edition for SU. Pearson, ISBN 9780558697129. Only the book is required. Used copies are fine. The course will cover most of chapters 1-4 and 10-14.

Calculator: A graphing calculator is required. The TI-84 or TI-83 calculator is the recommended graphing calculator for the course. Students who already own and know how to use another equivalent calculator (e.g. TI-85 or TI-86) are free to use it. Approved calculators will be allowed for class work, homework, tests, and quizzes. However, a calculator with symbolic calculus capability (such as the TI-89 or TI-92) is not allowed for exams and quizzes.

Final Examination: The final exam is comprehensive/cumulative and accounts for 25% of a student's overall grade in the course. The final exam will be given on Thursday, August 10th during the regular class period. Please do not plan to leave campus until after this date since this is the only time that the exam will be administered.

Tests: In addition to the final exam, there will be two midterm exams during the semester, each accounting for 25% of your final grade. There will be **no makeup tests**. However, for excused absences, the corresponding portion of the final exam will be used in place of the missing test score.

Attendance Policy: You are expected to be in class and participate every day (four days a week for the six weeks). Every day that you miss or do not participate, you will lose 5% of your total attendance score for the overall 10% category.

Homework and Quizzes: Homework problems from the textbook will be assigned at the end of each class.

Homework will not be collected, but it is ESSENTIAL that you know how to do the problems as there will be frequent quizzes based on the homework problems assigned. On July 5 and then every Tuesday, class will start with a quiz based on the homework assignments since the previous Tuesday. There will be approximately 5 quizzes throughout the term and there will be no makeup quizzes: the top 4 quiz scores will be averaged for that 15% of your grade.

Grading: The final score will be computed on a scale of 0 to 100 in the following way:

- Attendance/Participation (10%),
- Quizzes (15%),
- Exam 1 (25%),
- Exam 2 (25%),
- Final Exam (25%).

The final letter grade will be determined as follows:

Numeric grade x	Letter grade
$0 \leq x < 60$	F
$60 \leq x < 70$	D
$70 \leq x < 73$	C-
$73 \leq x < 77$	C
$77 \leq x < 80$	C+
$80 \leq x < 83$	B-
$83 \leq x < 87$	B
$87 \leq x < 90$	B+
$90 \leq x < 93$	A-
$93 \leq x < 100$	A

Course Supervisor: Professor Dan Zacharia (zacharia@syr.edu) is the course supervisor. Please inform your instructor if you are having any problems with the course before reaching out to the course supervisor.

Academic Integrity: The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort. For more information and the complete policy, see <http://academicintegrity.syr.edu>. The use of or availability of any electronic device during a midterm exam or final exam is a violation of the Academic Integrity Policy.

Students with Disabilities: If you need accommodations for a disability, please contact the Office of Disability Services (ODS), <http://disabilityservices.syr.edu>, located in Room 309 of 804 University Avenue, or call (315) 443-4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible for coordinating disability-related accommodations and will issue students with documented disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early

planning and generally are not provided retroactively, please contact ODS as soon as possible.

Religious Observances Policy: Syracuse University's religious observances policy, found at http://supolicies.syr.edu/emp_ben/religious_observance.htm, recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holy days according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that maybe missed due to a religious observance provided they notify their instructors before the end of the second week of classes. For fall and spring semesters, an online notification process is available through MySlice/Student Services/Enrollment/My Religious Observances from the first day of class until the end of the second week of class.

Help: Your instructors will be available regularly during their office hours. You can also seek help at the Calculus Help Center. The location and hours of operation will be posted outside of the Math Department Office (215 Carnegie Hall); you can obtain a copy of the schedule in the Math Dept. Office. Check out the schedule at <http://math.syr.edu/undergrad/math-help.html>

Cell Phone and Electronics Policy: Cell phone and other electronics use are not permitted during class time and during quizzes/exams. As an instructor I reserve the right to take away credit for the day's assignment or dismiss you from class if cell phone use becomes a chronic problem. The use of cell phones in class is distracting to other students and detracts from your education.

Tentative Class Calendar

July 3 – 6	Sections 1.1, 1.3, 2.1-2.3, 2.5
July 10 – 13	Sections 3.1-3.2, 3.6, 4.1-4.3, Exam 1
July 17-20	Sections 10.1-10.3, 11.1-11.3
July 24-27	Sections 11.4- 11.5, 12.1-12.3, Exam 2
July 31 – Aug 3	Sections 12.7, 13.1-13.4
Aug 7 - 10	Sections 13.5, 13.6, 14.2, 14.3, Final Exam

Note that the calendar may be subject to change as the semester progresses.

Textbook homework problems for quizzes and final exam

Quiz 1	(1.1) 11, 17, 29, 33, 40 (1.3) 1, 3, 5, 7, 9
Quiz 2	(2.1) 5, 13, 23, 31, 39 (2.2) 1, 3, 11, 32, 33 (2.3) 3, 7, 11, 15, 17 (2.5) 3, 9, 16, 18, 39 (3.1) 23, 27, 39, 55, 61 (3.2) 5, 15, 17, 21, 23
Exam 1	(3.6) 1, 9, 17, 19, 21 (4.1) 3, 7, 9, 11 (4.2) 3, 9, 19, 31, 59 (4.3) 5, 21, 35, 45, 47
Quiz 3	(10.1) 3, 11, 15, 25, 33 (10.2) 13, 21, 23, 33, 41
Quiz 4	(10.3) 1, 5, 9, 12, 25 (11.1) 3, 5, 7, 12, 15 (11.2) 17, 25, 33, 45, 47 (11.3) 13, 19, 21, 23, 30 (11.4) 3, 15, 21, 27, 33 (11.5) 1, 7, 11, 19, 25
Exam 2	(12.1) 3, 5, 11, 25, 43 (12.2) 3, 5, 11, 13, 25 (12.3) 3, 5, 15, 17, 19
Quiz 5	(12.7) 1, 3, 5, 9, 11
Quiz 6	(13.1) 1, 3, 35, 57, 71 (13.3) 7, 9, 29, 35, 63 (13.4) 3, 5, 8 (13.6) 17, 19, 27, 32, 33
Final exam	(14.2) 3, 5, 9, 15, 21 (14.3) 1, 11, 13, 15, 21