V A N D E R B I L T   U N I V E R S I T Y
Department of Mathematics
Math 155A – Calculus
Fall 2013
4 hours credit

Lecture Section: 01   Room: SC 1308   Time: MWF 8:10am – 9:00am
Recitation Section: 02   Room: SC 1214   Time: T 8:10am – 9:00am
Recitation Section: 03   Room: SC 1214   Time: T 9:10am – 10:00am

Instructor: Marcelo Disconzi   Office: SC 1515 (5th floor)
Office Phone: (615) 322 7147   Office Hours: MWF 10:10am – 11:10am or by appointment
email: marcelo.disconzi@vanderbilt.edu

Teaching Assistant: Arman Darbinyan   Office: SC 1227 J (6) (2nd floor)
email: arman.darbinyan@vanderbilt.edu   Office Hours: Fri 12:30pm – 2:30pm

Course webpage: http://www.disconzi.net/Teaching/MAT155A-Fall-13/MAT155A-Fall-13.html

Announcements about the course will be posted on the course webpage. Students are responsible for checking the course webpage on a regular basis in order to be up-to-date with course announcements.

Course Coordinator: Jakayla Robbins   Office: SC 1232A (2nd floor)
Office Phone: (615) 343 4122
email: jakayla.robbins@vanderbilt.edu

Text: Calculus, 7th edition, by James Stewart

Prerequisite and Description: Math 155A is the first semester accelerated calculus offering 4 hours credit. The course covers limits, the tangent line problem, differentiation and its applications, basic integration including the technique of *u*-substitution, and the Fundamental Theorem of Calculus.

Calculators: Calculators will not be used in this course.

Classroom Policy: Students are not allowed to use electronic equipment such as cell phones, music players, or computers during class. Texting during class is not acceptable.

Honor Code: All work submitted for credit must be the student's own and is subject to the provisions of the Vanderbilt Honor Code. Details can be found at the Honor Council web site (http://studentorgs.vanderbilt.edu/HonorCouncil/).

Accommodation Procedure: A student who needs course accommodations due to a disability, special arrangements in case the building must be evacuated, or has emergency medical information that needs to be shared with the instructor, should contact the instructor as soon as possible. **Equal Opportunity, Affirmative Action, and Disability Services** (2-4705 or http://www.vanderbilt.edu/ead) at Vanderbilt provides specific accommodations for students with physical or learning disabilities. Upon receiving appropriate documentation from the student, the Opportunity Development Center will make arrangements with the instructor for the accommodations.

Complaint Procedure: If at any time during the semester the student wishes to discuss class procedure, schedule, grades, or any class situation, contact the instructor during regularly scheduled office hours or via email. Both office hours and email address are given above. Any complaint that cannot be resolved directly with the instructor should be referred to the Director of Undergraduate Studies (John Rafter in SC1332) or the Assistant Director of Undergraduate Studies (Jakayla Robbins in SC 1232A).

Attendance: The student who misses a class meeting is responsible for any assignments and/or announcements made. Office hours will not be utilized to re-teach material presented in class. The stated attendance policy of the College of Arts and Science applies in this course: *Students are expected to attend all scheduled meetings of classes in which they are enrolled; they have an obligation to contribute to the academic performance of all students by full participation in the work of each class. ... The faculty of the College of Arts and Science recognizes that occasions arise during the academic year that merit the excused absence of a student from a scheduled class or laboratory during which an examination, quiz, or other graded exercise is given. Examples include participation in sponsored university activities (e.g., debate team, varsity sports), observance of officially designated religious holidays, serious personal problems (e.g., serious illness, death of a member of the student's family), and matters relating to the student's academic training (e.g., graduate or professional school interviews). Conflicts arising from personal travel plans or social obligations do not qualify as excused absences.*

Homework: Daily homework assignments are listed on the syllabus and should be completed prior to the next class. Each student should keep all completed assignments in a notebook/binder and bring this notebook to class.

Homework Help: Individual instructors and TAs have regularly scheduled office hours to answer students' questions outside of class. The Department of Mathematics also sponsors drop-in tutored study halls in the math building that will start during the second week of classes. The Tutoring Services Office of the College of Arts and Science offers free individual tutoring and other related services. Information can be found on their web site at http://www.vanderbilt.edu/cas/supportservices/tutoringservices/index.php

Quizzes/Problem Sets: There will be a quiz approximately every other week at the beginning of class on Tuesdays. The problems listed as homework will be collected every week on Tuesdays. A subset of those problems will be graded for accuracy and will count 50% of the homework grade. The other 50% of the homework grade will be given for the remaining problems, provided the student demonstrates a genuine attempt to solve them. An announcement of the dates of the quizzes and textbook sections to be included in the homework and quizzes will be posted in a timely fashion on the course webpage. However, as a guiding principle, students should expect that quizzes and the homework due on Tuesdays will generally cover the material presented in the lectures of the previous week. Occasionally, optional assignments may be given. These will not count a specific amount of points towards the final grade, but are intended to help the instructor to decide on border-line cases at the end of the semester.

Tuesday/Thursday Discussion Sessions: TAs will conduct the discussion hour for this course on Tuesday, or Thursday. Sessions will involve answering questions over homework problems, quizzes, or tests, administering quizzes, completing worksheets, and occasionally covering new material. Discussion is the fourth hour of a four-hour class, so attendance is expected.

Tests: Four 100-point unit tests will be given during the semester. The date of each test is posted on the syllabus. Attendance on these dates is compulsory; otherwise, a grade of zero will be recorded. Any student who has an excused, documented conflict with a test date must submit a Request for Change in Exam Time form to the instructor **at least one week prior to the test date**. Late requests will be denied. Tests can only be taken on test dates. Under no circumstances will a test be given on an alternate date. If a test is missed with an excused absence, the final exam percentage will be substituted for the missed test. If a student misses two or more tests with an excused absence, the make ups will be handled on a case by case basis. Students who do not miss any tests with excused absences will be allowed to replace their lowest test score with the average of that test and the final exam percentage if it is to their advantage.

Final Examination: A 150-point comprehensive final examination will be given on Saturday, 14 December 2013 from 7-9pm. **No alternate exam will be given**.

Grading Procedure: Each student will have the following six scores. The total number of possible points
for the semester is 700.

Quizzes/Problem Sets	75 + 75
Test 1	100
Test 2	100
Test 3	100
Test 4	100
Final	150

Letter grades will be based on a general 10-point scale, where 90-100 guarantees a grade in the A
range, 80-89 B range, 70-79 C range, 60-69 D range, with plus or minus grades assigned as
appropriate.

Test Dates: All unit tests will be given on Thursday nights from 7:00 – 8:15

Course Schedule. This schedule is tentative. Please check the webpage for an up-to-date schedule.

Lesson	Date	Sections	Homework Problems
1	Wed, August 21, 2013	Algebra Review Appendix B	**Sup:** 3-11(odd), 21, 27-41(odd), 42, 43-49(odd),53,54, 55-69(odd), 70, 77-87(odd), 91, 93, 99, 101, 104, 106, 109-116(all), 121, 123, 125, 129, 132, 133, 134, 137, 138, 149, 151, 153 **A15:** 21, 25, 27, 31, 33, 35, 53, 57
2	Fri, August 23, 2013	1.1 1.2	**p.21:** 3, 4, 25, 27, 28, 30, 32, 34, 35,39-49(odd), 57, 62, 63, 73,74, 77
3	Mon, August 26, 2013	Trig Graphs Appendix D 1.3	**p.33:** 1, 3, 5 **A32:** 1, 5, 9, 11, 12, 17-33(odd) **p.42:** 5, 9-19(odd), 23, 24, 31, 35
4	Tue, August 27, 2013	Discussion	
5	Wed, August 28, 2013	Trig Appendx D 1.5	**A32:** 47, 49, 52, 63-72(all) **p.59:** 1-9(odd), 15
6	Fri, August 30, 2013	1.5 1.6	**p.59:** 29-37(odd) **p.69:** 1-17(odd), 18, 19, 20, 21-31(odd), 37-49(odd)
7	Mon, September 2, 2013	1.7	**p.80:** 1,3,17,19,20,21-31 (odd)
8	Tue, September 3, 2013	Discussion	
9	Wed, September 4, 2013	1.8	**p.91:** 3,13,17- 21, 25, 29,31,33,37,41,43,45,46,51,53
10	Fri, September 6, 2013	1.4	**p.49:** 5a (i) and (iv), 5b
11	Mon, September 9, 2013	2.1	**p.110:** 1,3,4a&b, 5,7,13,14,15,17,23,29-35(odd)
12	Tue, September 10, 2013	Discussion	
13	Wed, September 11, 2013	2.2	**p.122:** 3,4,5-11 (odd), 21-29 (odd), 35,37
14	Thu, September 12, 2013	**Test 1**	**7:00-8:15 PM**
15	Fri, September 13, 2013	**NO CLASS**	
16	Mon, September 16, 2013	2.3	**p.136:** 1-43(odd),51,55-63(odd),67,75,76,79,81,86
17	Tue, September 17, 2013	Discussion	
18	Wed, September 18, 2013	2.4 2.5	**p.146**: 1-23(odd),25a,37,39-48(all) **p.154**: 1-29(odd), 31-49(odd),51,52,53,55a,61
19	Fri, September 20, 2013	2.6	**p.161:** 5-29(odd), 35-38(all), 49,50,51,60
20	Mon, September 23, 2013	2.7	**p.173:** 1,3,5,7,9,11,12,13,15,29
21	Tue, September 24, 2013	Discussion	
22	Wed, September 25, 2013	2.8	**p.180:** 1-25(all), 29,30
23	Fri, September 27, 2013	2.9	**p.187:** 3, 11-23 (odd)

24	Mon, September 30, 2013	3.1	**p.204:** 15-41(odd), 45-55 (odd)
25	Tue, October 1, 2013	Discussion	
26	Wed, October 2, 2013	3.2	**p.212:** 1,3,4,5,9,11,15,17,19
27	Thu, October 3, 2013	**Test 2**	**7:00-8:15 PM**
28	Fri, October 4, 2013	**NO CLASS**	
29	Mon, October 7, 2013	3.3	**p.220:** 1,3,9,11,14, 15,16,17,18,21,23,25, 29-39(odd), 66
30	Tue, October 8, 2013	Discussion	
31	Wed, October 9, 2013	3.4	**p.234:** 9-29 (odd), 18,33,35, 45,46,53.55
32	Fri, October 11, 2013	**Fall Break**	
33	Mon, October 14, 2013	3.5	**p.242:** 3-27 (odd),37,39
34	Tue, October 15, 2013	Discussion	
35	Wed, October 16, 2013	3.7	**p.256:** 3-25(odd), 28,33,35
36	Fri, October 18, 2013	3.9	**p.273:** 1-39 (odd)
37	Mon, October 21, 2013	Appendix E	**A38:** 1,3,5,11,13,15,19,21,27-33(odd),43
38	Tue, October 22, 2013	Discussion	
39	Wed, October 23, 2013	4.1	**p.293:** 1,3,5,19,21,23
40	Fri, October 25, 2013	4.2	**p.306:** 1,4a,12,17,19,23,25,39,41,42,47,49,56
41	Mon, October 28, 2013	4.3	**p.318:** 7-17 (odd),19-41 (all),47,49, 50
42	Tue, October 29, 2013	Discussion	
43	Wed, October 30, 2013	4.4	**p.326:** 1-15(odd), 19-41(odd),55,57
44	Thu, October 31, 2013	**Test 3**	
45	Fri, November 1, 2013	**NO CLASS**	
46	Mon, November 4, 2013	4.5	**p.335:** 7-23(odd),25-30(all),35-43(odd),42,47,49
47	Tue, November 5, 2013	Discussion	
48	Wed, November 6, 2013	5.1	**p.349:** 1-15(odd),18,21,23,26
49	Fri, November 8, 2013	5.2	**p.360:** 1-18(all)
50	Mon, November 11, 2013	5.2	**p.360:** 19-29(all), 31-34(all -just set up),39,41
51	Tue, November 12, 2013	Discussion	
52	Wed, November 13, 2013	5.3	**p.366:** 3-13(all), 17,19,21,25, 37,42; on 37 and 42, set up using both methods
53	Fri, November 15, 2013	5.3	
54	Mon, November 18, 2013	5.4	**p.371:** 7,9,10,13,15
55	Tue, November 19, 2013	Discussion	
56	Wed, November 20, 2013	5.4	**p.371**: 19,21,23,24 **p.378:** 29a
57	Thu, November 21, 2013	**Test 4**	**7:00-8:15 PM**
58	Fri, November 22, 2013	**NO CLASS**	
59	Mon, December 2, 2013	5.5	**p.375:** 1-9(odd),13 & 14 p.379: 30
60	Tue, December 3, 2013	Discussion	
61	Wed, December 4, 2013	Review	
62	**Sat, December 14, 2013**	**Final Exam**	**7:00-9:00 PM – NO ALTERNATE EXAM**