MATHEMATICS 181: Calculus I (Section 1016)

Spring 2016 Semester
8:00 – 9:45 a.m. Tuesday & Thursday WRI C144

Prerequisite: Grade of C or better in Precalculus (Math 127 or 128 at UNLV) or ACT score at least 28 or SAT score at least 630.


Learning Objectives:
1. Determine limits of a variety of functions including limits involving indeterminant forms, using L’Hospital’s Rule when appropriate
2. Apply knowledge of limits (and their notation) in order to (a) determine, using the definition, whether a function is continuous at a point and (b) determine a derivative by definition
3. Differentiate a variety of functions by (a) knowing formulas and using power, product, quotient, and chain rules and (b) using implicit differentiation
4. Apply knowledge of derivatives to solve related rates problems, solve optimization problems, and find extrema of functions and sketch curves
5. Evaluate definite and indefinite integrals including with use of the substitution rule
6. Apply understanding of area and definite integrals to calculate the area of a region bounded by a function and the x-axis

Notes: Note sheets are available from my website http://faculty.unlv.edu/robinette/robinette.html Print your own copy before you come to class. We fill these out together in class. If you miss class, then you are expected to get the notes from one of your classmates. I will not provide notes for days you are absent.

Calculators: Graphing calculators are not allowed during the exams or the final exam. You are permitted; however, to use a scientific calculator. One that has an [ANS] button will be useful during the section on Newton’s method.

Homework and quizzes: The problems that you should work after each lecture are on the assignment list. These are from your textbook and should be completed in a manner that practices the steps and techniques we use in the notes for class. Homework will be checked for completeness (2 points) and for comprehension (8 points by QUIZ) during your discussion sessions, where attendance and participation are expected. There are fifteen discussion sessions, thirteen of them are worth ten points each, 2 points for your completed homework and 8 points possible on the QUIZ. You must be present with your homework and take the corresponding QUIZ in order to receive any points for a discussion session. At the end of the semester, your top ten discussion session scores will be added together for your homework/quiz score, worth 100 points. There are NO make-ups.

Exams: There will be three exams, worth 100 points each. The dates of these exams are February 9, March 15, and April 28. If you fail to take an exam during the scheduled class time
for a justified and excusable reason (with verification) (see UNLV policy on Religious Holidays and Missed Classes), then you will have an opportunity to take a make-up exam during final exam week on Friday, May 13, from 7:00 – 8:00 a.m.

**Final Exam:** The final exam, worth 100 points, is an in-class comprehensive exam and will be given on Thursday, May 12, 2016, from 8:00–10:00 a.m. in our classroom WRI C144.

**Grading:** There are a total of 500 points available in this course coming from your homework/quiz score, final exam score, and your three exam scores. Final grades for the course are based on the following percentage scale:

- A: [90, 100]
- B: [78, 84)
- C: [66, 72)
- D: [50, 60)
- B+: [84, 90)
- C+: [72, 78)
- D+: [60, 66)
- F: [ 0, 50)

Grades of A–, B–, C–, and D– may be given in borderline cases, where class attendance and class participation will be determining factors.

**Attendance:** You are expected to attend class regularly. *You are responsible for all the material presented and all announcements made on days you are absent.*

**Tutoring:** Tutoring through the Department of Mathematical Sciences is available for this course at the Math Tutoring Clinic, located in CDC 701. For more information, including location and hours visit their website [www.unlv.edu/math/tutoring](http://www.unlv.edu/math/tutoring) or call (702) 895-3567 or send an email to math@unlv.edu.

**UNLV Policies**

**Academic Misconduct** — Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility and professionalism. By choosing to join the UNLV community, students accept the expectations of the Student Academic Misconduct Policy and are encouraged when faced with choices to always take the ethical path. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV’s function as an educational institution. An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another, from the Internet or any source, without proper citation of the sources. See the Student Academic Misconduct Policy (approved December 9, 2005) located at: [https://www.unlv.edu/studentconduct/student-conduct](https://www.unlv.edu/studentconduct/student-conduct).

**Copyright** — The University requires all members of the University Community to familiarize themselves with and to follow copyright and fair use requirements. *You are individually and solely responsible for violations of copyright and fair use laws. The university will neither protect nor defend you nor assume any responsibility for employee or student violations of fair use laws.* Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional information can be found at: [http://www.unlv.edu/provost/copyright](http://www.unlv.edu/provost/copyright).
Disability Resource Center (DRC) — The UNLV Disability Resource Center (SSC-A 143, http://drc.unlv.edu/, 702-895-0866) provides resources for students with disabilities. If you feel that you have a disability, please make an appointment with a Disabilities Specialist at the DRC to discuss what options may be available to you. If you are registered with the UNLV Disability Resource Center, bring your Academic Accommodation Plan from the DRC to the instructor during office hours so that you may work together to develop strategies for implementing the accommodations to meet both your needs and the requirements of the course. Any information you provide is private and will be treated as such. To maintain the confidentiality of your request, please do not approach the instructor in front of others to discuss your accommodation needs.

Religious Holidays Policy — Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The make-up will apply to the religious holiday absence only. It shall be the responsibility of the student to notify the instructor within the first 14 calendar days of the course for fall and spring courses (excepting modular courses), or within the first 7 calendar days of the course for summer and modular courses, of his or her intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit: http://catalog.unlv.edu/content.php?catoid=6&amp;navoid=531.

Transparency in Learning and Teaching — The University encourages application of the transparency method of constructing assignments for student success. Please see these two links for further information: https://www.unlv.edu/provost/teachingandlearning https://www.unlv.edu/provost/transparency

Incomplete Grades — The grade of I—Incomplete—can be granted when a student has satisfactorily completed three-fourths of course work for that semester/session but for reason(s) beyond the student’s control, and acceptable to the instructor, cannot complete the last part of the course, and the instructor believes that the student can finish the course without repeating it. The incomplete work must be made up before the end of the following regular semester for undergraduate courses. Graduate students receiving “I” grades in 500-, 600-, or 700-level courses have up to one calendar year to complete the work, at the discretion of the instructor. If course requirements are not completed within the time indicated, a grade of F will be recorded and the GPA will be adjusted accordingly. Students who are fulfilling an Incomplete do not register for the course but make individual arrangements with the instructor who assigned the I grade.

Tutoring and Coaching — The Academic Success Center (ASC) provides tutoring, academic success coaching and other academic assistance for all UNLV undergraduate students. For information regarding tutoring subjects, tutoring times, and other ASC programs and services, visit http://www.unlv.edu/asc or call 702-895-3177. The ASC building is located across from the Student Services Complex (SSC). Academic success coaching is located on the second floor of the SSC (ASC Coaching Spot). Drop-in tutoring is located on the second floor of the Lied Library and College of Engineering TEB second floor.
UNLV Writing Center — One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, located in CDC-3-301. Although walk-in consultations are sometimes available, students with appointments will receive priority assistance. Appointments may be made in person or by calling 702-895-3908. The student’s Rebel ID Card, a copy of the assignment (if possible), and two copies of any writing to be reviewed are requested for the consultation. More information can be found at: http://writingcenter.unlv.edu/.

Rebelmail — By policy, faculty and staff should e-mail students’ Rebelmail accounts only. Rebelmail is UNLV’s official e-mail system for students. It is one of the primary ways students receive official university communication such as information about deadlines, major campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the university. Students’ e-mail prefixes are listed on class rosters. The suffix is always @unlv.nevada.edu. Emailing within WebCampus is acceptable.

Library Resources — Students may consult with a librarian on research needs. For this class, the subject librarian is https://www.library.unlv.edu/contact/librarians_by_subject. UNLV Libraries provides resources to support students’ access to information. Discovery, access, and use of information are vital skills for academic work and for successful post-college life. Access library resources and ask questions at https://www.library.unlv.edu/.

Final Examinations — The University requires that final exams given at the end of a course occur at the time and on the day specified in the final exam schedule. See the schedule at: http://www.unlv.edu/registrar/calendars.