**HONORS 181H: Honors Calculus I (Section 1001)**

**Fall 2013 Semester**

10:00 – 11:45 a.m. Tuesday & Thursday CBC C316

**Instructor:** Dr. Robinette  
**Office:** CDC 920 (Central Desert Complex building 9, room 920)  
**Office Hours:** 10:30 – 1:00 Monday; noon – 1:00 Tuesday & Thursday  
**Office Phone:** 895-0363  
**E-mail Address:** robinet3@unlv.nevada.edu

**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.

**Text:** *Essential Calculus: Early Transcendentals*, Second edition, by J. Stewart

**Learning Outcomes:**
1. Comprehend the notion of the limit of a function; 2. Determine the notion of continuity; 3. Comprehend the notion of derivative; 4. Determine, using the definition, whether a function is continuous at a point; 5. Comprehend and calculate limits involving infinity; 6. Comprehend the notion of the derivative of a function; 7. Determine a derivative by definition; 8. Differentiate a variety of functions by knowing formulas and using power, product, quotient, and chain rules; 9. Find a derivative by implicit differentiation; 10. Solve related rates problems; 11. Apply use of linear approximation, differentials, or Newton’s method to certain problems; 12. Differentiate exponential, logarithmic and inverse trigonometric functions; 13. Comprehend the notion of indeterminate forms and solve limits of these types, using L’Hospital’s Rule when appropriate; 14. Comprehend notions of extrema and local extrema and critical points of functions; 15. Use derivatives to sketch curves; 16. Solve optimization problems; 17. Comprehend the notion of antiderivatives; 18. Comprehend and be able to apply the definition of definite integral; 19. Evaluate definite integrals in terms of area, by the Fundamental Theorem of Calculus, and by the substitution rule.

**Notes:** Note sheets are available from my website [http://faculty.unlv.edu/robinette/robinette.html](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 in-class 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:** The problems that you should work after each lecture are on the assignment list. These are from your text book and should be completed in a manner that practices the steps and techniques we use in the notes for class.

**WebAssign:** You are encouraged to use webassign. When you set up your webassign account, make sure that you use your rebelmail e-mail address and our class key is unlv 9369 6003. There are four webassign pretests, 25 webassign homework assignments, and three webassign tests. Each of the three webassign tests may (if you earn the privilege, see pretests and homework assignments below) contribute points toward the corresponding in-class exam. All webassign assignments, pretests, and tests must be completed during the scheduled webassign timeframe. **Failure to complete a webassign task during the scheduled webassign timeframe will result in a score of zero for that task.** There are no exceptions. **Beware: close to the exams, the deadlines are TIGHT!**

**Pretests:** To test your prerequisite skills for calculus, take the FOUR pretests on webassign. These are due by 11 p.m. on Thursday, September 5, 2013. (You are allowed three submissions for each pretest.) Completion (score greater than zero) of the pretests grants you eligibility to earn bonus points by completing webassign homework assignments and tests. **If you do not complete these pretests, then you may still use webassign as a study tool, but you are not eligible for any bonus points for the remainder of the semester.**

**Homework Assignments:** To practice the calculus skills and techniques you will be learning and to get feedback and help, take the homework assignments on webassign. (You are allowed five submissions for each webassign homework assignment.) Satisfactory completion (score greater than 14 (out of 20)) of all webassign homework assignments for a section of material to be covered on an in-class exam grants you eligibility to attempt the webassign test for that section of material.

**Exams:** There will be three in-class exams, worth 100 points each. The dates of these exams are **September 17, October 17, and November 26.** 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, December 13, 2013, 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 **Tuesday, December 10, 2013 from 10:10 a.m. – 12:10 p.m.** in our classroom CBC C316.

**Grading:** There are a total of 400 points available in this course coming from your final exam score and your three in-class exams. Final grades for the course are based on the following percentage scale:

- **A:** [90, 100)  
- **B:** [78, 84)  
- **C:** [66, 72)  
- **D:** [50, 60)  
- **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 through the Department of Mathematical Sciences is available for this course. This includes *Coaching Labs* and *Course Specific Labs* held in CBC-C323, and a walk in tutoring clinic held in CDC-7. For more information including location and hours call (702) 895-3567 or email math@unlv.edu.

### Additional Miscellaneous 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 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](http://studentconduct.unlv.edu/misconduct/policy.html) (approved December 9, 2005) located at:

**Copyright** — The University requires all members of the University Community to familiarize themselves 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/committees/copyright/](http://www.unlv.edu/committees/copyright/).

**Disability Resource Center (DRC)** — The Disability Resource Center (DRC) determines accommodations that are “reasonable” in promoting the equal access of a student reporting a disability to the general UNLV learning experience. In so doing, the DRC also balances instructor and departmental interests in maintaining curricular standards so as to best achieve a fair evaluation standard amongst students being assisted. In order for the DRC to be effective it must be considered in the dialog between the faculty and the student who is requesting accommodations. For this reason faculty should only provide students course adjustment after having received this “Academic Accommodation Plan.” If faculty members have any questions regarding the DRC, they should call a DRC counselor.

UNLV complies with the provisions set forth in Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. The DRC is located in the Student Services Complex (SSC-A), Room 143, phone (702) 895-0866, fax (702) 895-0651. For additional information, please visit: [http://drc.unlv.edu/](http://drc.unlv.edu/).

**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 no later than the last day of late registration of his or her intention to participate in religious holidays which do not fall on state holidays or periods of class recess. This policy shall not apply in the event that administering the test or examination at an alternate time would impose an undue hardship on the instructor or the university which could have been avoided. For additional information, please visit: [http://catalog.unlv.edu/content.php?catoid=4&navoid=164](http://catalog.unlv.edu/content.php?catoid=4&navoid=164).

**Tutoring** — The Academic Success Center (ASC) provides tutoring and academic assistance for all UNLV students taking UNLV courses. Students are encouraged to stop by the ASC to learn more about subjects offered, tutoring times and other academic resources. The ASC is located across from the Student Services Complex, #22 on the current UNLV map. Students may learn more about tutoring services by calling (702) 895-3177 or visiting the tutoring web site at: [http://academicsuccess.unlv.edu/tutoring/](http://academicsuccess.unlv.edu/tutoring/).

**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 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/](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.

**Missed Class(es)/Student** — As a general rule, a student missing a class or laboratory assignment because of observance of a religious holiday shall have the opportunity to make up missed work. Students must notify the instructor of anticipated absences by the last day of late registration, January 24, 2011, to be assured of this opportunity.

**NOTE:** Students who represent UNLV at any official extracurricular activity shall also have the opportunity to make up assignments, but the student must provide official written notification to the instructor no less than one week prior to the missed class(es).

This policy shall not apply in the event that completing the assignment or administering the examination at an alternate time would impose an undue hardship on the instructor or the university that could reasonably have been avoided. There should be a good faith effort by both faculty and student to come to a reasonable resolution. When disagreements regarding this policy do arise, they can be appealed to the department chair/unit director, college/school dean, and/or the Faculty Senate Academic Standards Committee.

For purposes of definition, extracurricular activities may include, but are not limited to: band, drama, collegiate athletics, recruitment, and any other activity sanctioned by a college/school dean, and/or the Executive Vice President and Provost.