Math 181 Calculus I
Section 1006/1007
Online

Jeff Downs
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Office Hours:
T Th: 12:15 PM – 2:00 PM
F: 11:30 AM – 1:00 PM
or by appointment

Prerequisites: MATH 127 or equivalent or consent of the instructor.

Course Description: Offers fundamental concepts of analytical geometry and
calculus, functions, graphs, limits, derivatives, and integrals.

Course Objectives
Upon completion of this course, successful students should be able to do the following:

- Evaluate limits.
- Differentiate sums, powers, quotients, products, trigonometric and inverse
  trigonometric functions, logarithmic and exponential functions, explicitly and
  implicitly.
- Apply differentiation to curve sketching.
- Solve related rates and optimization problems.
- Use Newton’s method to approximate the zeros of a function.
- Perform indefinite and definite integration of algebraic, trigonometric, exponential
  and logarithmic functions with the substitution method.
- Find the area under a curve.
- Solve growth and decay problems.

Course Credit: 4

Transferability Within Nevada: This course is designed to apply toward a WNC
degree and/or transfer to other schools within the Nevada System of Higher Education,
depending on the degree chosen and other courses completed. It may transfer to
colleges and universities outside Nevada. For information about how this course can
transfer and apply to your program of study, please contact a counselor.

Linkage to College Mission: Provide instruction that contributes to a student’s
ability to think critically and solve problems; to reason mathematically and apply
computational skills.

Option 3: Webassign with online book only ISBN: 9781285184210
Supplies: Text, a TI Graphing Calculator is an optional but encouraged tool (the instructor will be using a TI 89). The diagrams on the lessons are on a TI-89 calculator.

Grading Scale:  
A  90 – 100%
B  80 – 89%
C  70 – 79%
D  60 – 69%
F  below 60%

Grade Breakdown:  
Midterm: 1 @ 200 points each = 200 points
Discussions: 10 posts @ 10 points each = 100 points
Homework: 5 chapters @ 40 points each = 200 points
Quizzes: 10 @ 10 points each = 100 points
Final Exam 1 @ 200 points= 200 points
Total 800 points

Exams: There will be Midterm, due on October 15. The midterm must be completed online or paper exams must be in my possession by the due dates. The Midterm covers chapters 1, 2, and 3.

Discussions: You must post at least 10 substantive discussion postings in Canvas. Each posting is worth 10 points for a maximum of 100 points.

Homework: I expect that before coming to class you have read the section(s) that we will discuss that day. Homework is due as a chapter. Homework may be completed on paper or online. For paper work, see the homework assignment list. Each chapter is worth between 20 and 40 points for a total of 200 points. The website for the login for online homework is: http://www.webassign.net/ The class key for online homework is: wnc 0778 4944.

Quizzes: There will be 11 quizzes. The top 10 quizzes will count toward the grade.

Final Exam: There will be a comprehensive Final Exam due on December 10, 2013. The Final Exam will cover chapters 4, 5, and 6.

Attendance: If a class is missed, it is the responsibility of the student to check what was missed. Any departure from the attendance policy must be pre-approved by September 1, 2013.

Ethics Statement: No cheating of any kind will be tolerated. Any student caught cheating, attempting to cheat or assisting in the cheating of another student will be expelled from the class with a failing grade.

Note: When attending the optional, non-mandatory live sessions, please be polite and mute your microphone when not speaking. Background noise and echoes are distracting and interfere with the meeting.
Early Alert: Please note that in an effort to help students successfully complete their courses, the Counseling office on campus will ask faculty for names of students they feel may be in need of additional assistance. A counselor may contact you to offer some ideas.

Grade Appeals can be made to Scott Morrison at: Scott.Morrison@wnc.edu

Disability Statement: If you have a disability for which you will need to request accommodations, please contact Susan Trist, Coordinator for Disability Support Services at 775-445-3268 or susan.trist@wnc.edu as soon as possible to arrange for appropriate accommodations.

Important Dates:
August 26: Classes begin. Classes dropped from this date on will receive a “W”.
August 30: Last day to receive a 100% refund.
September 2: Labor Day Holiday, college closed.
September 6: Full payment (100%) due by 5 p.m. for 100% of classes
October 18: Last day to change credit to audit or audit to credit.
October 25: Nevada Day Holiday, college closed.
October 28: Last day to drop fall classes with a “W”.
November 11: Veterans Day Holiday Observed, college closed.
November 27-29: Thanksgiving Holiday, college closed.
December 9 – 13: Final Exam Week
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<thead>
<tr>
<th>Week of</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<tbody>
<tr>
<td>Aug 26</td>
<td>1.1/1.2 1.3/1.4</td>
<td></td>
<td>Meeting over 1.1 – 1.4</td>
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<tr>
<td>Sept 2</td>
<td>Labor Day No Class 1.5/2.1/2.2 Quiz 1 due</td>
<td>Meeting over 1.5 – 2.2</td>
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<td>Sept 9</td>
<td>2.3/2.4/2.5 Quiz 2 due</td>
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<td>Meeting over 2.3 – 2.5</td>
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<td>Sept 16</td>
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<td>Meeting over 2.6 – 3.2</td>
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<td>Sept 23</td>
<td>3.3/3.4/3.5 Quiz 4 due</td>
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<td>Meeting over 3.3 – 3.4</td>
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<td>Ch 2 HW due</td>
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<td>Oct 7</td>
<td>Review Practice Exam Quiz 6 due</td>
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<td>Meeting over Prac Midterm Midterm released</td>
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<td>Ch 3 HW due</td>
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<td>Oct 14</td>
<td>4.1/4.2/4.3 Midterm Due</td>
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<td>Meeting over 4.4 – 4.6</td>
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<td>Nevada Day No Class</td>
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<td>Nov 18</td>
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<td>Meeting 6.2 – 6.3</td>
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<td>Ch 5 HW due</td>
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<td>Nov 25</td>
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<td>Instructional Holiday</td>
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<td>Dec 9</td>
<td>Finals Week Final Exam Due</td>
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