Math 182 Calculus II
Sections 1003/1004

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Office Hours:
T Th: 2:15 PM – 4:00 PM
F: 11:30 AM – 1:00 PM
or by appointment

Prerequisites: MATH 181 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:

- Calculate the area of a region between two curves.
- Find volume using the disc and shell methods.
- Determine arc length and surface area.
- Calculate work, fluid force and centers of mass.
- Integrate using the following techniques: trigonometric substitution, partial fractions, tables.
- Evaluate limits using L’ Hopital's rule.
- Evaluate improper integrals.
- Find whether a series converges using the following tests: integral, p-series, comparison, alternating, ratio root.
- Determine Taylor and Maclaurin series of a given function.
- Know the equations and properties of the ellipse, hyperbola and parabola.
- Sketch curves in polar coordinates and find tangent lines, area and arc length in polar coordinates.
- Work with parametric equations.

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
The Class Key for work in WebAssign is: wnc 1783 1059
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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90 – 100%</td>
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<tr>
<td>B</td>
<td>80 – 89%</td>
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<tr>
<td>C</td>
<td>70 – 79%</td>
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<tr>
<td>D</td>
<td>60 – 69%</td>
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<tr>
<td>F</td>
<td>Below 60%</td>
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</tbody>
</table>

Grade Breakdown:

- **Midterm:** 1 at 200 points = 200 points
- **Discussions:** 10 postings @ 10 points each = 100 points
- **Homework:** 4 chapters @ 50 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 a Midterm Exam and a Final Exam. You may do the exams in one of two formats—**Paper** or **Online**. The Midterm is due March 11 and the Final Exam is due May 13. The Midterm covers chapters 6 and 7. The Final Exam covers chapters 8 and 9.

Paper Exams: Exams are posted in Canvas and will be downloaded and printed by the student. The exam must be received by me by the due date. Students may use US mail, Parcel Deliver (UPS, FedEx, etc.), campus mail, or hand delivery. Faxed copies will be accepted, but must be followed by the original of the exam. Students may also scan and email their exam. Make a photocopy of the exam for your records in case there is a delivery problem. If Exams or Homework are emailed, please send in Canvas and in pdf format if possible.

Online Exams: Exams are completed in Enhanced Web Assign (Cengage). The exams must be completed by the end of the availability. Paper Exams will receive partial credit but can only be taken once. Online exams will receive no partial credit, but may be retaken during the exam time to improve scores. If you try the online exam and do not like the format you may switch to the paper exam.

Quizzes: There are 11 quizzes that follow the online meetings. The quizzes will be over the sections covered that week. Quizzes are worth 10 points each. The top ten quizzes will count for the grade. Quizzes must be completed by the due date, no exceptions.

Discussions: You must provide at least 10 postings in the discussion board. The postings must be substantive and not simply say, “I agree”. You can either ask a question from our material or you can answer a question. Your first posting should be an introduction about yourself.

Homework: You have two choices for homework in this class. You can either do the homework online in WebAssign or you can do the homework assigned with each lesson in class on paper. Homework counts for a total of 200 points. If you try the WebAssign and would prefer to go with traditional homework, you may do so. If you do the traditional paper homework, you must fax, mail, or scan and email your homework to me to be received by the due date of the exam. Please send the work as a bundle of
the entire chapter. I strongly encourage students to mail a copy of their homework in case it is lost in the mail. I will not accept any late homework.

Attendance: Students are expected to participate and keep pace on a regular basis, at least once a week. Any departure from the attendance policy must be pre-approved by January 29, 2014. There will be no scores of W issued by me in this class. If you feel the need to drop the class, you must do so by March 28. I will not issue a W.

Non-Mandatory Online Meetings: I will hold weekly online meetings from 12:00 PM – 1:00 PM on Wednesdays to answer questions about the topics or homework questions from that week. Attendance is voluntary and will not affect your grade. If you cannot attend the meeting, please email me questions and I will either answer the questions in the meeting or make a video on YouTube answering the questions. If no students are present within 15 minutes of the scheduled start time, I will end the meeting. You can find a link to the meeting in the Conferences tab in Canvas.

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:
January 21: Classes begin.
January 27: Last day to receive a 100% refund. Classes dropped from this date forward will receive a W.
February 3: Last day to pay for classes with a late fee. Late registration ends.
February 17: President’s Day- college closed
March 14: Last day to change credit to audit or audit to credit.
March 17 - 21: Spring Break, no classes
March 28: Last day to drop full-term classes with a “W”
May 12: Final Exams Begin
<table>
<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>Jan 20</td>
<td>Log into Canvas, post intro</td>
<td>7.1/7.2</td>
<td>Meeting over 7.1/7.2</td>
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<tr>
<td>Jan 27</td>
<td>7.3/7.4/7.5 Quiz 1 Due</td>
<td>Meeting over 7.3/7.4/7.5</td>
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<td>Feb 3</td>
<td>7.6/7.7/8.1 Quiz 2 Due</td>
<td>Meeting over 7.6/7.7/8.1</td>
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<td>Feb 10</td>
<td>8.2/8.3 Quiz 3 Due</td>
<td>Meeting over 8.2/8.3</td>
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<td>Feb 17</td>
<td>Presidents Day No Class</td>
<td>8.4/8.5 Quiz 4 Due</td>
<td>Meeting over 8.4/8.5</td>
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<td>Feb 24</td>
<td>8.6/8.7/8.8 Quiz 5 Due</td>
<td>Meeting over 8.6/8.7/8.8</td>
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<td>Mar 3</td>
<td>Review Practice Midterm Quiz 6 Due</td>
<td>Meeting over Practice Midterm</td>
<td>Midterm Released</td>
<td>Midterm</td>
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<td>Mar 10</td>
<td>Midterm Midterm Quiz 6 Due</td>
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<td>Mar 17</td>
<td>Spring Break: Great Time to Study Math!</td>
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<td>March 31</td>
<td>9.4/9.5/9.6 Quiz 7 Due</td>
<td>Meeting over 9.4/9.5/9.6</td>
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<td>April 7</td>
<td>9.7/9.8/9.9 Quiz 8 Due</td>
<td>Meeting over 9.7/9.8/9.9</td>
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<td>April 14</td>
<td>9.10/10.1 Quiz 9 Due</td>
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<td>April 21</td>
<td>10.2/10.3 Quiz 10 Due</td>
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<td>April 28</td>
<td>10.4/10.5 Quiz 11 Due</td>
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<td>May 5</td>
<td>Review Practice Final Exam</td>
<td>Meeting over Practice Final Exam</td>
<td>Final Exam released</td>
<td>Final Exam available</td>
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<td>May 12</td>
<td>Final Exam Final Exam Due</td>
<td>Remaining of Finals Week</td>
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