MATH 125 CALCULUS II Spring 2012  
South Dakota School of Mines and Technology  
4 credits  
8:00 - 8:50 MTWF M 205  

INSTRUCTOR: Julie Dahl  
OFFICE: McLaury 302; phone: 355-3456, email: julie.dahl@sdsmt.edu  
OFFICE HOURS: 9:00-9:50 MWF, 2:00-2:30 MW  

TEXT: Calculus: Jon Rogawski  

Web access for this class is through D2L, which can be accessed at https://d2l.sdbor.edu  
This section of Math 125 is a tablet PC course. A tablet PC is required for this class. Although we may not use the tablet in class every day, you will be required to submit homework using the tablet.  

On D2L, you will find announcements, exam dates, lectures, assignments, reviews, etc. This course is delivered by in-class lecture and is not intended to be a distance course. Attendance is expected but not required; however, as noted below, homework is collected almost every day and late homework is not accepted. You will be submitting your daily homework assignments via the D2L site.  

MATERIAL TO BE COVERED IN COURSE:  
Weeks 1-4 - calculus with exponentials, logs, inverse trig functions, hyperbolics  
Weeks 5-7 - integration techniques  
Weeks 8-12 -matrices and vectors  
Weeks 12-15 -infinite series  

The final exam is scheduled for Wednesday, May 2, from 3:00 until 4:50 PM  

GRADING POLICIES: Grades will be based on 4 exams, a mandatory comprehensive final exam, quizzes and homework. Homework is collected almost every day. One make-up exam per semester will be allowed only if the student has notified the instructor in advance of or on the day of the exam with a good reason for missing the test. One make-up quiz will be given at the end of the semester, which will replace the lowest quiz grade.  

There will be several computer (Maple) assignments during the semester, and if you choose to submit fewer than half of them, a penalty will be assessed as follows: the number of points assigned for all the computer assignments will be quadrupled. For example, if there are 3 Maple assignments worth a total of 25 points, and you only submit one of the three, earning a score of 6, you will be penalized. Those assignments are now worth 100 points, and instead of getting 6/25 for your computer score, you will get 6/100.  

Since the number of points varies from semester to semester, the following percentages are approximations.  

Tests One through Four - 14-16% each  
Quizzes - 3-4% each  
Homework - 6-8%  
Final Exam - 20-25%
GRADING SCALE:

90 – 100 % A
80 – 90 % B
70 – 80 % C
60 – 70 % D
0 – 60 % F

HOMEWORK POLICY:

Homework must be saved as a Windows Journal file and submitted via D2L.
Each assignment is worth 2 points (so will be assigned a score of 0, 1, or 2).
The score on each assignment is based on level of completion of assignment.
Five assignments will be thrown out for everyone.

No makeups
No late assignments
No excused homeworks

If you don’t submit an assignment, it’s one of the 5 dropped assignments.
Approximately 25 assignments will be collected.

BEHAVIOR IN CLASS, ELECTRONIC DEVICES POLICY, AND CHEATING: During lectures, minimize conversations with your classmates. If you consistently violate this policy, you may be asked to exit the room.

The use of electronic devices such as cell phones, mp3 players, etc. in class is not acceptable. Turn them off before coming to class. No text messaging in class. No headphones. If you wish to use a laptop in this class for purposes of note taking, that’s great; however, it should be in tablet mode, with the lid rotated and down, and you are not allowed to use the computer to communicate with other students during class. No other use of any other electronic/computer media is allowed during class time.

Note that according to “Policy Governing Academic Integrity” in the SDSM&T Undergraduate Catalog, the instructor of record for this course has discretion of how acts of academic dishonesty are penalized, subject to the appeal process, and that “Penalties may range from requiring the student to repeat the work in question to failure in the course.”

In addition, for this class, if you cheat on an exam or assignment, you could fail the course. You will not receive any credit for that assignment, and your name will be turned in to the Dean of Students. Working together and discussing homework is acceptable. Copying someone else’s work is cheating. For more information on this topic, see the college catalog for the policy governing academic integrity.

Freedom in learning. Under Board of Regents and University policy student academic performance may be evaluated solely on an academic basis, not on opinions or conduct in matters unrelated to academic standards. Students should be free to take reasoned exception to the data or views offered in any course of study and to reserve judgment about matters of opinion, but they are responsible for learning the content of any course of study for which they are enrolled. Students who believe that an academic evaluation reflects prejudiced or capricious consideration of student opinions or conduct unrelated to academic standards should contact the dean of the college which offers the class to initiate a review of the evaluation.
For information about objectives and outcomes for this course and other courses in the Math department, go to the following page http://www.mcs.sdsmt.edu/view.php?p=3600

Note: a grade of C or better in Calculus II is required in order to enroll in Calculus III or Differential Equations at SDSM&T.

Students with special needs or requiring special accommodations should contact the instructor, (Julie Dahl at 355-3456) and/or the campus ADA coordinator, Jolie McCoy, at 394-1924 at the earliest opportunity.

This course meets GenEd Goal #5: Students will understand and apply fundamental mathematical processes and reasoning.
Student learning outcomes: As a result of taking a course meeting this goal, students will:
1. Use mathematical symbols and mathematical structure to model and solve real world problems.
   Assessment: Students will
   • Identify, interpret, and correctly apply standard mathematics symbols to solve problems requiring the derivative. This will be demonstrated on quizzes, labs, homework, and/or exams.
   • Identify, interpret, and correctly apply standard mathematics symbols to solve problems requiring the integral. This will be demonstrated on quizzes, labs, homework, and/or exams.
2. Demonstrate appropriate communication skills related to mathematical terms
   Assessment: Students will
   • Correctly use functional notation of algebra, trigonometry, and calculus. This will be demonstrated on quizzes, labs, homework, and/or exams.
3. Demonstrate the correct use of quantifiable measurements of real world situations
   Assessment: Students will;
   • Apply their knowledge of the integral in applications such as area, volume, moments, work, arc length, and surface area. This will be demonstrated on quizzes, labs, homework, and/or exams.
   • Apply their knowledge of the derivative in applications such as related rates, linear approximations, Newton’s Method, curve sketching, optimization, velocity, and acceleration. This will be demonstrated on quizzes, labs, homework, and/or exams.