South Dakota School of Mines and Technology
MATH 321 – Differential Equations  Spring 2012
Section 1  9:00 am MWF McLaury 205
Section 4  2:00 pm MWF McLaury 306

Professor:  Don Teets (donald.teets@sdsmt.edu)
Office: McLaury 316F (phone 355-3452)
Hours: MF 10:00-10:50 am, W 3:00-3:50 pm , Th 11:00-11:50 am, or by appointment. Feel free to stop by my office at other times as well. IF YOU’RE HAVING TROUBLE FINDING ME OUTSIDE OF CLASS, TALK TO ME JUST BEFORE OR AFTER CLASS. I WILL FIND A TIME THAT WORKS FOR BOTH OF US!
Text:  Differential Equations with Boundary Value Problems (Zill, Cullen 7th ed.) We will cover Chapters 1-9 with a few additions and several omissions.

Catalog course description
MATH 321 Differential Equations (3-0) 3 credits. Prerequisite: MATH 125 with a minimum grade of “C.” Selected topics from ordinary differential equations including development and applications of first order, higher order linear and systems of linear equations, general solutions and solutions to initial value problems using matrices. Additional topics may include Laplace transforms and power series solutions. Math 225 and Math 321 may be taken concurrently or in either order. In addition to analytical methods this course will also provide an introduction to numerical solution techniques.

Instructional Methods
This course will be conducted in a lecture / discussion format, with frequent opportunities for students to ask questions.

Course goals
Course objectives and student learning outcomes can be found from the School of Mines home page www.sdsmt.edu. Under the “Academics” drop down menu, choose “Assessment,” then follow links to Mathematics and Math 321 Differential Equations.

Homework
Homework will be assigned almost every day. Though I will generally not collect and grade homework, it will be difficult to succeed in this course without doing all or most of the assigned exercises.

Quizzes and Hour Exams
There will be a quiz early in the semester to provide graded feedback to students before the first exam. We may have additional quizzes, announced at least one day in advance. We will also have three 100-point exams during the semester. Tentative dates are listed on the course day-by-day schedule (see below). NOTE THAT TWO OF THE EXAMS ARE SCHEDULED DURING TUESDAY 11:00 AM COMMON EXAM TIMES. Arrangements for taking missed exams will be made on an individual basis, but only if the student provides at the earliest opportunity an adequate reason for missing the exam.

Final Exam
A comprehensive final exam worth 150 points will be given Wednesday, May 2 from 3:00 to 4:50 pm. (Under no circumstances will it be given early!)

Grading
Points earned on homework, quizzes, hour exams, and the final exam will all carry the same weight. Course grades will be determined according to the following percentage scale:

<table>
<thead>
<tr>
<th>Points Earned</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>0-59</td>
<td>F</td>
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It is possible that this standard may be lowered, but it will not be raised. Note that + or - grades are no longer possible.

Attendance and Conduct
Students are expected to read and follow policies on Attendance, Conduct, and Academic Integrity in the SDSM&T Catalog. In particular, you should be aware that the penalty for cheating in any course at SDSMT “…shall be at the discretion of the instructor…” and “…may range from requiring the student to repeat the work in question to failure in the course.”

ADA Statement
Students with special needs or requiring special accommodations should contact the instructor and/or the campus ADA coordinator, Dr. Jolie McCoy, at 394-1924 at the earliest opportunity. In particular, students who have been granted special accommodations for exams MUST MAKE ARRANGEMENTS FOR EACH EXAM with the instructor. This must be done DURING THE WEEK PRECEDING EACH EXAM.
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.

Tentative Course Schedule
A tentative schedule is posted on the class web site, showing text sections to be covered each day, problem assignments, and tentative exam dates. (Type Math 321 into the search box on the SDSMT home page, then follow the appropriate links.)