MTH 271 – Vector Calculus
Fall 2010

Instructor: Carol Overdeep Office: OM 429
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Office Hours: MW 12–1 (HH 213); TTh 1–3 (OM 429); by appointment, or drop in
Webpage: http://homepages.stmartin.edu/fac_staff/coverdeep/

Other: Coursepack of class notes available in the bookstore

Course Prerequisites: MTH 172 (or equivalent) with C- or better.

Course Objectives:

♦ Introduce the theory of parametric equations, polar coordinates, and conic sections and explore the relationship between these topics.
♦ Extend the theory and applications of differential and integral calculus to higher dimensions.
♦ Enhance problem solving skills and hone critical thinking abilities.

Exams and Grading:

♦ Homework 15% IMPORTANT: NO EXTRA CREDIT
♦ Exams 1/2/3 60% (20% each)
♦ Final 25% 12/13/10, 3:15–5:15

Homework:

♦ Homework may be done in groups (each student must hand in an assignment).
♦ Homework may be an in-class assignment. These can not be made up.
♦ Assigned problems are on a separate handout as well as on my webpage.
♦ Due dates will be announced in class.
♦ You must show your work to receive full credit (where applicable).
♦ Late homework will be penalized/not accepted.
  o Homework will be considered late if not in my office by 3:30 on the due date unless prior arrangements have been made.
  o Homework will be accepted until the assignment is returned to the class—but it will be penalized unless prior arrangements have been made.

Exams 1/2/3:

♦ Make-up exams will not be possible without prior arrangements—and the reason for missing an exam must be compelling and perhaps more importantly, documented. Exams taken after the scheduled date will be more difficult.
♦ Exams will resemble homework problems and problems done in class.
♦ You will be allowed to use a formula sheet for each exam.
Final Exam:
◇ Will be cumulative.
◇ You will be allowed to use a formula sheet for the final exam.

General Philosophy/Attendance:
◇ College prepares you for a professional position.
◇ In the working world, you are responsible for your career and you are accountable for your decisions. For example, class attendance is expected (just as you are expected to go to work), but not required.

Important Dates:
- Labor Day, no class September 6, 2010
- Last day to add a class September 10, 2010
- First Exam September 22, 2010 *(subject to change)*
- Fall Break, no class October 15, 2010
- Second Exam October 27, 2010 *(subject to change)*
- Last day to withdraw October 29, 2010
- Third Exam November 19, 2010 *(subject to change)*
- Thanksgiving Break, no class November 26, 2010
- Final Exam December 13, 2010, 3:15–5:15

Students with Disabilities:
If you need course adaptations or accommodations because of a disability, if you have a medical and/or safety concern to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible