

**Math 166, Calculus II** 4 credits  
**Fall 2011**  
**MWF 8:00 - 8:50 AM**  
**Family Life Center 124**

**Instructor:** Lindsay Erickson, Minard 412A, 231-9455

**E-mail:** [lindsay.merchant@ndsu.edu](mailto:lindsay.merchant@ndsu.edu) (please include your recitation instructor's name in any correspondence)

**Office Hours:** MWF 9:00-9:50AM and by appointment.

**Course Page:** <https://www.ndsu.edu/pubweb/merchant/>

**Text:** *Single Variable Calculus: Early Transcendentals* (Sixth Edition) by J. Stewart.

**Bulletin Description:** Applications and techniques of integration; polar equations; parametric equation; sequences and series, power series. Prerequisite MATH 165.

**Topics:** Integration, areas between curves, volumes, integration by parts, trigonometric substitution, partial fractions, improper integrals, arc length, area of a surface of revolution, infinite sequences and series, basic differential equations, parametric equations and polar coordinates. We will cover the following sections from the textbook: 6.16.5, 7.17.5, 7.7, 7.8, 8.18.3, 11.111.11, 10.110.4. If time allows, we will also cover some topics from Chapter 9.

**Course Objectives:** The main objective is to continue learning the basics of the calculus of functions of one variable. We will apply the introduced concepts to a wide range of problems that include the area between curves, volume, work, arc length, surface area, approximating functions by Taylor polynomials.

**Attendance Policy:** Attendance is expected. You are responsible for all the material covered in class and all the assignments and announcements made.

**Homework:** It is expected that the student complete exercises from the textbook following each lesson as homework. It is essential to do your homework in a timely fashion. The homework problems are not to be handed in. If you have trouble with exercises, please ask questions during recitation or office hours. Working problems is the best way to understand the material taught during lecture.

**Quizzes:** In general, a weekly quiz will be given during recitation. The quiz problems will be identical or similar to the problems covered in class and covered as exercises in your textbook. The lowest two quiz scores will not contribute to your final grade. There will be no make-ups for missed quizzes.

**Exams:** There will be three evening tests and a comprehensive final exam. Make-up exams will only be given in exceptional circumstances and require prior approval of the instructor or officially documented excuses (e.g, doctors note for medical emergencies).

- *Exam 1* - Thursday, September 22, 6:30-8:00PM in Minard 222.

- *Exam 2* - Thursday, October 20, 6:30-8:00PM in Minard 222.
- *Exam 3* - Thursday, November 17, 6:30-8:00PM in Minard 222.
- *Final Exam* - Tuesday, December 13, 8:00-10:00AM.

**Calculators:** Calculators will not be allowed during quizzes and exams.

**Grading:**

- Quizzes are worth 25% of your final grade.
- Exams are each worth 15% of your final grade.
- The final exam is worth 30% of your final grade.

The standard 90-80-70-60 grading scale will be used. Do not expect any curving or linear scaling of grades.

**Special Needs:** Any students with disabilities or other special needs, who need special accommodations in this course are invited to share these concerns or requests with the instructor and contact the Disability Services Office as soon as possible.

Veterans and student soldiers with special circumstances or who are activated are encouraged to notify the instructor in advance.

**Academic Honesty:** The academic community is operated on the basis of honesty, integrity, and fair play. NDSU Policy 335: Code of Academic Responsibility and Conduct applies to cases in which cheating, plagiarism, or other academic misconduct have occurred in an instructional context. Students found guilty of academic misconduct are subject to penalties, up to and possibly including suspension and/or expulsion. Student academic misconduct records are maintained by the Office of Registration and Records. Informational resources about academic honesty for students and instructional staff members can be found at [www.ndsu.edu/academichonesty](http://www.ndsu.edu/academichonesty).