

Calculus II Section N1 Syllabus: Spring/Summer 2009

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Class Information, Meeting Schedule & Location:

MTH 192 Section N1 (CRN 50025)

Tuesday & Thursday, 6:00–8:55 pm, June 2 – August 6, 2009

room LA 252

Description: This is a second semester college calculus course of one variable. Topics include applications of integration, integration techniques, L'Hôpital's Rule, improper integrals, infinite series, parametric equations and polar coordinates.

Objectives:

- Solve a variety of integration problems including their applications.
- Determine the convergence or divergence of an infinite series including the applications of a power series.
- Solve a variety of limit problems including indeterminate forms, improper integrals, sequences and series.
- Graph and find the derivative and integral of parametric and polar equations.

Prerequisites: MTH 191 (or equivalent Calculus I) with a minimum grade of C. A good knowledge of concepts and techniques of differentiation and basic integration of functions of one variable will be assumed throughout.

Required materials:

Textbook: "Calculus—Early Transcendental Functions", 4th ed., by Larson, Hostetler & Edwards

Calculator: TI-84 Plus graphing calculator

Policies and Procedures [*Instructor reserves the right to make appropriate modifications.*]

Attendance: Regular, prompt attendance is required and necessary for success in this course. You are responsible for all assignments and material, including topics covered in class and not found in the text. Office hours are not a substitute for missed classes.

Credit Standard: You are required to show full supporting work for all problems. The work is to be based upon material covered. Credit is awarded based upon the completeness and appropriateness of this work, not just the answer. A correct answer with insufficient or inappropriate work might receive little or no credit.

Homework will be assigned and discussed in each class meeting. It is absolutely *critical* to your success in this course that you keep up with the homework. Mathematics is best learned by *doing* it.

Blackboard will be used to post homework assignments, announcements, and other class materials. Please check it regularly.

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Policies and Procedures (continued)

Grading: Course grade will be based on 3 tests, 5-6 quizzes, and a comprehensive final exam.

The lowest quiz score will be dropped. If you miss one, *that* is the one that will be dropped.

The five scores – 3 tests, cumulative quiz score, and final exam will be weighted *equally, i.e.,* 20% each, with the lowest of *these* five scores dropped.

No make-up quizzes or tests will be given. If you miss a test, *that* is the one that will be dropped.

The planned grading scale is: **A:** [93-100%], **A-:** [90 – 93%), **B+:** [87 – 90%), **B:** [83 – 87%), **B-:** [80 – 83%), **C+:** [77 – 80%), **C:** [73 – 77%), **C-:** [70 – 73%), **D+:** [67 – 70%), **D:** [63 – 67%), **D-:** [60 – 63%).

Tutoring is available in the **Math Resource Center**, now located in room GM 201 on the second floor of the Gunder Myran Building. Tutors are available Monday through Thursday 9:00am to 8:00pm, Friday 9:00am to 2:00pm, and Saturday 10:00am to 2:00pm. There are 10 computers for student use, and information regarding math courses, procedures, schedules, and program requirements is also available.

Course registration changes (credit/audit status, withdrawal, etc.) must be completed according to WCC policies and are each student's responsibility. Consult the WCC Bulletin for policies and deadlines. The instructor will permit you to withdraw from the course through the last day of class if you notify him of this need.

Special needs: If you have *special learning needs*, please inform the instructor and contact Learning Support Services, LA 104, 973-3342.

Topics with approximate times

Chapter 7 (through §4): **Applications of Integration:** ~1½ weeks

Chapter 8: **Integration Techniques, L'Hôpital's Rule, and Improper Integrals:** ~2½ weeks

Chapter 9: **Infinite Series:** ~3½ weeks

Chapter 10 (through §5): **Conics, Parametric Equations, and Polar Coordinates:** ~1½ weeks

Tentative test schedule

Test #1: June 18

Test #2: July 9

Test #3: July 30

Final Exam: August 6

Quizzes will be given about once a week, but not during weeks when tests are given.

The instructor reserves the right to make appropriate modifications in any of the above information.