

MATH 166 CALCULUS II

Nicholls State University, Fall 2011

Instructor: Dr. Brian Heck
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My office hours are Mon, Wed: 9:00am-12:00pm and Tue, Thu: 9:00-11:00am and 3:00-4:00 pm. Please contact me (by phone, by email, or in person) during these times if you have any questions. If you need assistance at a different time, contact me and we'll work something out.

Prerequisite: A grade of a C or better in Math 165 or advanced placement.

Text: *Calculus* (9th ed.) by Varberg, Purcell, Rigdon (Prentice Hall)

Course Description: Transcendental functions, derivatives, integrals, analytic geometry, infinite series, and polar coordinates.

Course Objectives: At the completion of this course, a student will be able to:

- find function values, derivatives, and antiderivatives of various transcendental functions
- solve growth and decay applications
- evaluate definite and indefinite integrals using substitution, trigonometric substitution, integration by parts, and partial fraction decomposition
- evaluate limits of indeterminate forms
- evaluate improper integrals
- perform operations with sequences, series, and power series
- determine convergence and absolute convergence of positive series using a variety of tests
- find the Taylor and Maclaurin series for given functions
- determine the parametric representation of plane curves
- perform operations with two-dimensional vectors
- evaluate vector-valued functions
- determine curvature of a function

Grading Structure: We will have three exams throughout the semester as well as a comprehensive final exam. Each of the four exams will be worth 100 points. Additionally, we will have a "participation" grade that will consist of periodic problems to turn in, board work, quizzes, etc. The participation grade will also count for 100 points. At the conclusion of the semester, letter grades will be assigned based on the usual 10% grading scale (A: 90-100%, B: 80-89%, C: 70-79%, etc). Late assignments will not be accepted unless there are VERY unusual circumstances, and make-up exams will only be administered if the student provides a valid excuse. The instructor decides which excuses are valid and which circumstances are unusual.

Academic dishonesty (i.e. cheating, plagiarism, etc.) will not be tolerated. Sanctions for such behavior are outlined in the *Code of Student Conduct* (Section 1.9).

Special Note: Section Five of the Code of Student Conduct, 'Academic Dishonesty and Disruptive Behavior,' includes a requirement that faculty file a charge complaint statement with their respective dean whenever a student is confronted or disciplined for cheating. The Office of Academic Affairs will maintain these records, and any student confronted and/or disciplined for multiple offenses of academic dishonesty will be brought before the Academic Affairs Integrity Committee for further review and potential sanctions. Please read the Code of Student Conduct for further details regarding this policy."

Important Dates

Test 1 – Thursday, September 15, 2011

Test 2 – Tuesday, October 11, 2011

'W' Day – Wednesday, November 2, 2011

Test 3 – Thursday, November 10, 2011

FINAL EXAM – Thursday, December 1, 2011

Attendance: I will not include attendance as part of your course grade. I do, however, expect you to attend class everyday. You are responsible for all material covered in class. Any in-class participation activities cannot be made up.

Academic Grievances: The proper procedure for filing grade appeals or grievances related to academic matters is listed in Section 5 of the *Code of Student Conduct* and at the following link: www.nicholls.edu/documents/student_life/code_of_conduct.pdf.

Continued Learning following an Extreme Emergency: In order to make continued learning possible following an extreme emergency

students are responsible for:

- reading regular emergency notifications on the NSU website;
- knowing how to use and access Blackboard (or university designated electronic delivery system);
- being familiar with emergency guidelines;
- evacuating textbooks and other course materials;
- knowing their Blackboard (or designated system) student login and password;
- contacting faculty regarding their intentions for completing the course.

faculty are responsible for:

- their development in the use of the Blackboard (or designated) software;
- having a plan for continuing their courses using only Blackboard and email;
- continuing their course in whatever way suits the completion of the course best, and being creative in the continuation of these courses;
- making adjustments or compensations to a student's progress in special programs with labs, clinical sequences or the like only in the immediate semester following the emergency.

Americans with Disabilities Act (ADA) Students with a documented disability are entitled to classroom accommodations under the ADA. To receive accommodations, contact the Office of Disability Services at (985) 448-4430 or 158-A Shaver Gym. Additional information can be found at www.nicholls.edu/disability.