Math 511-WWW Syllabus
FALL 2008

Calculus and Analytic Structures

Instructor: Dr. Ianna West

Office: Peltier 106-B
Office Hours: 2T, 4T, 5T, 6T and Online M/W 10:00-11:00AM and T/R 3:00-4:00. Instructor will be available for consultation via email or in the Blackboard virtual classroom during online office hours, or by appointment. Also instructor will be available online throughout the day.
Email: ianna.west@nicholls.edu
Phone: 985-448-4394

Section: WWW
Required Text: No required text.
Other Materials: A computer with internet capability.

Prerequisites or co-requisite: MATH 509

Catalog Description: Formal exploration of continuity, limits, derivatives, integrals, sequences, series, basic differential equations, and introductory numerical analysis. Applications of concepts.

Student Outcome Objectives:
Student will be able to:
1. understand the essential properties of analysis of real numbers and use these properties to prove theorems;
2. understand the Completeness Axiom and some of its consequences, the distribution of the integers and the rational numbers, inequalities and identities, countable and uncountable sets and real valued functions;
3. understand the concepts and prove theorems involving convergent sequences, monotone sequences, Cauchy sequences and subsequences;
4. prove the Monotone Convergence Theorem, and the Sequential Compactness Theorem;
5. formally define continuity and use the Extreme Value Theorem, the Intermediate Value Theorem, and the epsilon-delta criterion to prove theorems;
6. formally prove theorems involving the limit of a function, continuous functions, intermediate and extreme values and uniform continuity;
7. formally define the algebra of a derivative and prove theorems involving the derivative of a function, and the mean value theorem;
8. apply the Cauchy Mean Value Theorem and understand its analytic consequences;
9. understand and apply the fundamental theorems of integration;
10. formally define the sequences and series of numbers;
11. understand and apply the concept of pointwise convergence of sequences of functions;
12. prove uniform convergence of sequences of functions.

Course Content and Requirements

Hardware and Software Requirements: The course will be conducted via internet using Blackboard and email. The URL for the university’s distance learning website is http://www.nicholls.edu/distance/. FAQs about internet courses can be viewed at http://www.nicholls.edu/distance/faqs/. A download for minimum computer requirements for taking a course on Blackboard can be found in the last question on the FAQS site given above. A Blackboard Tutorial can be viewed at http://www.nicholls.edu/distance/blackboard9tutorial/.

On Campus Meeting Requirements: Students will be required to meet on-campus to take the final exam if he/she lives within a reasonable driving distance of the campus.

Notes: Lecture notes and homework assignments will be posted on Blackboard.

Methods of Evaluation:

Homework: Specific problems from the exercises will be assigned from each section. Students are strongly encouraged to complete all exercises to ensure an understanding of the concepts. Specific exercises from those assignments will be given for a grade. The problem sets will vary in point value depending on the number of problems assigned and will be worth 50% of the total grade.

Exam: There will be a final exam worth 50% of the total grade. Date of exam will be announced. Students who live out-of-state, or students who do not live within a reasonable driving distance to the Nicholls’ campus, may request an alternative location (an approved testing center) to take the exam. Arrangements need to be made by the student in advance. Therefore inform the instructor at the beginning of the semester if you cannot take the exam on-campus.

Distance Learning Form: A copy of the distance learning form is attached to the syllabus. This form is only for students who will take the exam off-campus. The form will be sent by the instructor to the approved testing center and is to be filled out by the test administrator.

Grade
Grade will be calculated on a ten point grading scale 90-100 A, 80-89 B, 70-79 C, 60-69 D, below 60 F.

Homework 50%
Final Exam 50%
Policy and Procedures

Make-up Procedure: To make up the final exam, student must have a valid written excuse resulting from an emergency situation. However, students representing the university in any official capacity will be granted a valid excuse and will be allowed to make up the final, provided arrangements are made sufficiently in advance with the instructor and documentation of the absence can be produced by the student.

Behavioral Policy: Students must behave in a professional manner at all times. Failure to act in an appropriate manner will not be tolerated and will be handled according to the Code of Student Conduct handbook.

Attendance Policy: Participation in activities is required where an electronic record which clearly indicates the date and time the activity was submitted. For financial aid purposes, student must complete at least one activity, which is equivalent to having attended an on-campus class at least once.

Academic Honesty Policy: Cheating will not be tolerated. Sanctions for academic cheating, plagiarism, and forgery of academic documents including signing another's name (Sec 1.9) are those outlined in the Code of Student Conduct handbook.

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 handbook and at the following link: http://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: If you have a documented disability that requires assistance, you will need to register with the Office of Disability Services for coordination of our academic accommodations. The Office of Disability Services is located in Peltier Hall, Room 100-A. The phone number is (985) 448-4430 (TDD 449-7002).

The last day to drop this course with a “W” is Friday, October 24, 2008
Distance Learning Test Administration
Procedure and Approval Form

Please return the completed form to the instructor.

Students taking examinations via distance learning are required to make arrangements with an authorized testing institution. These accommodations are to be communicated to the instructor of the distance learning course.

Please note the following:

1. The testing center / test administrator shall have computer / e-mail access for the student during the examination period in the event of online communication by the instructor.
2. The testing center shall have telephone** access for the student during the examination period in the event of oral communication by the instructor. Some instructors wish to speak with the student and the test administrator at the commencement of the testing period.
3. At the end of the testing period, the test shall be signed by both the student and the test administrator.
4. The student shall present photo identification before gaining access to the examination.
5. At the discretion of the administrator, unusual disruptions of the testing period shall be documented and communicated to the instructor.

| Name of Student: _____________________ | Course: ________________________________ |
| Instructor: __________________________ |
| E-mail of Instructor: ____________________ |
| Date of Exam: __________ Time of Exam: _________ | □ Eastern □ Central |
| □ Mountain □ Pacific |

Institution Administering Test: ______________________
Institution Website: __________________________
Test Administrator: __________________________
Department: __________________________
Position/Title: __________________________ (This will be verified by the Nicholls Math Dept.)
E-mail Address: __________________________ (Must be available during exam)
Administrator’s Phone: __________________________
**Exam Phone (if different from above): __________________________ (Must be available during exam)