

MATH 220 APPLIED CALCULUS

SECTION: 001 **QUARTER:** Spring 2010 **CLASSROOM:** BH 318 MWF (8:00 - 9:15)

INSTRUCTOR: Dr. Brian Barron **OFFICE NUMBER:** BH 239

OFFICE HOURS: MWF (9:15 - 11:00) & TR (9 - 10 & 12 - 1:30)

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COURSE PREREQUISITES: Mathematics 101 and 112 or Placement by Exam.

COURSE GOALS: This course is required by the faculty in your profession. The course is intended to give you a working knowledge of calculus and its applications.

TEXTBOOK: Technical Calculus with Analytic Geometry, 4th ed., by Allyn J. Washington, Addison-Wesley, 2002.

COURSE OUTLINE: The material will be taken from the following sections: 3-1, 3-3/3-9, 4-1,4-3/4-8, 5-1/5-4, 6-1/6-3, 7-1/7-4, 8-1/8-3, 9-1/9-4, 10-6, 11-1, 11-3/11-4.

ATTENDANCE REGULATIONS: Class attendance is regarded as an obligation as well as a privilege and is required by the Board of Trustees. All students are expected to attend regularly and punctually; failure to do so may jeopardize a student's scholastic standing and may lead to suspension from the university. A student shall submit excuses for all class absences to the instructor within three class days after returning to class.

EXAMINATIONS: Four, 100 point exams will be given along with an optional 150 pot comprehensive final exam. Along with these scores, webwork (webwork.latech.edu) will comprise a homework score of 50 points for a total possible 600 points for the course.

GRADE DETERMINATION PROCEDURE: A grading scale with the usual ten point cut-offs will be used: A=90%-100%, B=80%-89%, C=70%-79%, D=60%-69%, F=59% and below. Your grade will be computed by dividing the total number of points you earn on tests and exams by the total number of possible points.

EXAMS MISSED: For EXCUSED absences, the instructor may (at his discretion) allow a makeup test or replace the missed test grade by the grade from the final exam.

STUDENTS NEEDING SPECIAL ACCOMMODATIONS: Students needing testing accommodations or classroom accommodations based on disability are encouraged to discuss the need with me as soon as possible.

RENTION POLICY ON GRADED MATERIALS AND GRADED REPORTS: In the event of a question regarding an exam grade or final grade, it will be the responsibility of the student to retain and present graded materials which have been returned for student possession during the quarter.

HONOR CODE: In accordance with the Academic Honor Code, students pledge the following: Being a student of higher standards, I pledge to embody the principles of academic integrity. For details refer to <http://www.latech.edu/documents/honor-code.pdf>

EMERGENCY NOTIFICATION SYSTEM: All Louisiana Tech students are strongly encouraged to enroll and update their contact information in the Emergency Notification System. It takes just a few seconds to ensure you're able to receive important text and voice alerts in the event of a campus emergency. For more information on the Emergency Notification System, please visit <http://www.latech.edu/administration/ens.html>

The following homework problems are suggested for further study:

	Sec.	Problem Numbers
1.	3-1	1,3,19,25,29,31,32,39,41,43
2.	3-3	7,15,19,25,27,33
3.	3-4 3-5	7,24,29,32 5,11,15,17,19,21,25,33,45,46
4.	3-6 3-7	7,11,13,19,21,25,44 1,3,9,11,19
5.	3-8 3-9	1,5,13,21 1,3,13,25,37
6.	4-1 4-3	1,5,9,18 1,9,13,15,17,19
7.	4-4	1,3,4,11,15,19,22
8.	4-5	1,3,5,7,9,11,13,15
9.	4-6	1,3,5,7,11
10.	4-7	1,3,11,17,23,29
11.	4-8	1,5,11,13,25
12.	5-1 5-2	1,11,17,21,27 1,7,11,19,21,27,29,37
13.	5-3 5-4	1a,13,17 1,3,9,11,17
14.	6-1	1,5,10,11,17,23
15.	6-2	1,3,5,9,15,21,35
16.	6-3	1,2,3,4,5
17.	7-1 7-2	1,5,9,17,21,25,27 1,5,9
18.	7-3 7-4	1,3,7,11,15,17,23,24 1,3,5,11,13,15,23
19.	8-1 8-2	1,3,7,17,19 1,3,11,14,17,21
20.	8-3 9-1	1,3,6,11,21 1,3,5,15,18
21.	9-2 9-3	1,3,13 1,9,11,17
22.	9-4 10-6	1,3,5,11,15,21 1,5,17,31
23.	11-1 11-3	9,11 3,5,21
24.	11-4	9,13,17,21,26