### Course Information:

**MCS 1224 OL**

### Dates:

**FALL 2009**
- Start Date: 08/27/09
- End Date: 12/13/09

### Instructor Contact Information:

- **Prof. Bashkim Zendeli**
- Telephone: (248) 204-3519
- Fax: (248) 204-3518
- E-mail: zendeli@ltu.edu
- Online Chat Office Hours: MWF 12:00-1:30PM
- Telephone Office Hours: MWF 12:00-1:30PM

### Course Text Books and Other Materials

- **Required Text(s):** Applied Calculus, 5-th Ed by Berresford/Rockett
  - ISBN# 978-0-547-16978-1

- **Optional Text(s):** Students Solutions Manual

### Course Description

This course introduces the concept of limits and continuity, rates of change, slopes, and derivatives. Further applications of optimization and derivatives and implicit differentiation and related rates. Exponential and logarithm functions through applications to economics through relative rates and elasticity of demand. Integration and its applications and integration by parts is introduced. Derivatives of trigonometric functions. Separation of variables and applications of differential equations: Three Models of Growth is introduced.

Your course is a highly interactive course in which you will spend your time in front of a computer with pencil and paper. You will have power point presentations for each chapter from the textbook and practice problems and take practice quizzes on the computer at a pace, which is comfortable and successful for you. This is an online course and the online meetings will be done in an asynchronous fashion, which means at times that are convenient to each individual student. You will not be required to “log-on” to Blackboard at any pre-set times. It is up to each individual student to select the times and days of the week in which to participate. In this course you will have an opportunity to demonstrate the ability to be self-motivated, do their best work, be active and responsible learners and develop strong mathematics skills necessary for the next math course.

### Course Objectives

1. To develop in students a deeper and broader understanding of key concepts in mathematics
2. To develop in students the problem-solving skills in applied mathematics.
Students may want to print this “Supplement to LTU Online Course Syllabus” for reference to information offline.

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### LTU Course Policy

#### Academic Honor Code

http://www.ltu.edu/currentstudents/honor_code.asp

LTU OL policies
http://www.ltu.edu/ltuonline

LTU College of Arts & Science, Banned Writing Errors
http://www.ltu.edu/arts_sciences/humanities_ss_comm/writing_guidelines.asp

### Course Assignments and Project

All assignments are to be completed and turned in electronically using the course Blackboard Assignments section. Assignment due dates are provided in the course Assignment Section of the course Blackboard session.

#### Use of Technology

*LTU Online courses require access to the web and use LTU Online Blackboard course delivery software.*

#### Any other policies specific to the course

### Academic Calendar – Start of Semester, Holidays, Drop Dates

http://www.ltu.edu/management/academic_calendar.asp

LTU Academic Calendar – Start of Semester, Holidays, Drop Dates
http://www.ltu.edu/registrars_office/calendar_final_exam.index.asp

### Other significant dates

### Grading Policy

**EXAMS:** You will be taking two major exams MIDTERM EXAM and FINAL EXAM.

**ASSIGNMENT'S:** You must complete all online assignments.

**PROJECTS-DISCUSSION BOARD** Projects from the textbook will be assigned and discussion board will be used to collaborate on each project and submit your work to your instructor.

10/23/06
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**Grading Scale:** The final grade for the course will be computed as follows:

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<td>73-76</td>
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<tr>
<td>60-69</td>
<td>D</td>
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<td>&lt; 60</td>
<td>F</td>
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**Technical Support:** For software or hardware issues, contact the LTU Edward Donley Computer Center: Helpdesk  
*[http://www.ltu.edu/computer_center/welcome.asp](http://www.ltu.edu/computer_center/welcome.asp)*  
Telephone: 248-204-2330  
E-mail: helpdesk@ltu.edu

**Academic Support:**  
Library / APA Standards  
Telephone: 248-204-3000  
*[http://www.ltu.edu/library/index1.asp](http://www.ltu.edu/library/index1.asp)*  
E-mail: refdesk@ltu.edu  

Academic Achievement Center  
*[http://www.ltu.edu/student_affairs/academic_achievement.asp](http://www.ltu.edu/student_affairs/academic_achievement.asp)*  
Telephone: 248-204-4120

**Student Services Support:**  
Office of Student Affairs  
Telephone: 248-204-4100  
*[http://www.ltu.edu/student_affairs/index.asp](http://www.ltu.edu/student_affairs/index.asp)*