

## MAS 266 Differential Equations Spring 2009 Syllabus

Instructor: Dr. David Lyons  
Office: Lynch 283G  
Office Hours: see mas.lvc.edu/~lyons or BlackBoard  
email: lyons (at) lvc.edu  
phone: 867-6081  
web page: mas.lvc.edu/~lyons or BlackBoard

### Course Description

This course is an introduction to theory and applications of ordinary differential equations. In addition to developing mathematical skills, a course goal is to build analytical skills in **reading** and clarity of expression in **writing**.

### Prerequisites

MAS 112 (Analysis II) or MAS 162 (Calculus II)

### Text

Edwards and Penney, *Differential Equations*, 4th edition

### Grading

Assignments	20%
Nonfinal Exams	50%
Final Exam	30%

Your cumulative average is determined by graded work in the categories listed above with the indicated weights. Letter grades are assigned based on your cumulative average, class attendance and participation. The lowest of your scores may be dropped from your cumulative average if you show improvement on the final exam. See the course web page for more details about grade calculation, including how low scores may be dropped. Grading policy is subject to adjustment at the discretion of the instructor.

### Assignments

Assignments consist of homework problems submitted by email and other exercises collected in class. See the Coursework Schedule for homework assignment due dates, and see the Homework Instructions for details of homework assignments.

### Exams

Exam problems are based on, but not limited to, the assigned reading and exercises. The subject matter of each exam will be announced in advance. The final exam will be comprehensive, including material from the entire course.

For full credit, exam solutions must show not just final results, but also demonstrate with appropriate supporting work and short verbal comments that you understand the procedure(s) you use. Illegible work or a **final answer given without supporting work shown receives no credit**. Some exam problems will require you to explain your reasoning using complete sentences. These problems will be graded not only for mathematical correctness, but for clarity of writing.

No calculators, computers, cell phones, music players or electronics of any kind will be allowed during exams. The exception is that you can use your watch, but only to look at it to see what time it is.

### **Collaboration versus Plagiarism**

You are encouraged to collaborate with classmates and ask questions of the instructor for homework assignments. You must work hard to avoid plagiarism, which is presenting someone else's ideas or work as your own. **The work you submit must be your own.** Your writing must be your own voice and your own understanding. You must use proper academic citation for any material created by others. Plagiarism is a serious academic offense; penalties range from failing the course to expulsion from the college.

### **Electronics in Class and During Exams**

Cell phones and music players must be turned off and put away during class and during exams. Calculators and computers are allowed for use during class, but not during exams. All electronic devices except for watches are not allowed during exams.

### **Attendance**

Class attendance is expected. Absences may be excused, at the discretion of the instructor. If you miss a class for any reason and wish to have the absence excused, you must give the instructor written notice, on paper or by email, at least a week before the absence. In the case of illness or emergency, the written notice should be made as soon as possible.

### **Email**

The instructor expects to be able to communicate with every student via LVC email accounts. If you do not normally use your LVC email account, please arrange to have your email forwarded to an account that you check regularly.

### **Honor Policy**

It is expected that each student in this class will conduct him or herself with academic integrity. Instances of academic dishonesty will be pursued as described in the College Catalog and Student Handbook.

### **Disabilities Services**

Please inform the instructor of any physical, medical, psychological, or learning disability that impacts your attendance or requires accommodation. You will need to provide documentation of your disability or medical condition to the Director of Disability Services in Humanities 206-D, 867-6071.