

**MAS 311 Real Analysis Fall 2009
Syllabus**

Instructor: Dr. David Lyons
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Course Description

This course studies the theoretical foundations of single variable calculus. Topics include: sequences and series of numbers; basic topology of the real numbers; limits and continuity; sequences and series of functions; the derivative; and the Riemann integral. In addition to the development of mathematical skills, the course seeks to build analytical skills in **reading** and clarity of expression in **writing**.

Prerequisites

MAS 202, 222, 251

Text

Stephen Abbott, Understanding Analysis

Grading

Assignments	20%
Nonfinal Exams	55%
Final Exam	25%

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 and class 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 presented in class and weekly solution write ups. Due dates for graded work will be announced in class.

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 that you understand the reasoning involved. All solutions must be written using one or more complete sentences. Solutions will be graded not only for mathematical correctness, but for clarity of writing. Illegible work or a final answer given without supporting work shown receives no credit.

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 or consult any source 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.

Attendance

Class attendance is expected. Absences may be excused, at the discretion of the instructor. If you must miss a class and wish to have the absence excused, please give the instructor written notice, on paper or by email, as far as possible in advance. In the case of illness or emergency where advance notice is not possible, please send written notice as soon as you can.

Email

Some course announcements will be sent to your LVC email account.

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 4, 867-6071.