

## MA363 Advanced Calculus I

**Fall 2006 MWF 12:00 - 12:50 WS 3806**

<b>Instructor</b>	Dr. Roxin Zhang
<b>Textbook</b>	Introduction to Real Analysis, 3rd Ed., Rober Bartle & Donald Sherbert
<b>Office Hours</b>	MWRF 1:00 - 2:00 or by appointments. NSF 3013. <a href="mailto:rzhang@nmu.edu">rzhang@nmu.edu</a> , Tel: 227-1596
<b>Prerequisite</b>	MA211 and MA265
<b>Contents</b>	<p>This is the first analysis course after the calculus sequence and it lays a doorstep for anybody who wishes to pursue the pure or applied mathematics at a high level. In contrast to the calculus sequence currently offered, students will be trained to think and reason in rigorous and inductive manners.</p> <p>Here are some chapter titles that will be cover in this course:</p> <ul style="list-style-type: none"> <li>- Sets and Functions</li> <li>- Real Numbers</li> <li>- Sequence and Series</li> <li>- Limits</li> <li>- Continuous Functions</li> <li>- Differentiation</li> <li>- The Riemann Integral</li> <li>- Sequences of Functions</li> </ul>
<b>Homework</b>	Exercise problems will be assigned after each lecture. Students are expected to do the homework and participate in the discussions during the following lectures.
<b>Tests and Quizzes</b>	<p>There are three types of tests:</p> <p>Quizzes - quizzes (mostly one hour) will be given on a regular (weekly) basis.</p> <p>Midterm - Tentatively scheduled in the 7th week.</p> <p>Final exam - A comprehensive exam, Thursday Dec 14, 12:00 - 1:50 AM.</p>
<b>Attendance</b>	Attendance will be checked randomly and will be calculated into the grade. Remember that the poor attendance is one of the primary causes of failing a class.
<b>Grading</b>	<p>Grades are calculated according to the quizzes, midterm, final exam and the attendance. The weights are:</p> <p>Quizzes 50 %, Midterm 20 %, Final exam 25 %, Attendance 5 %</p>
<p>If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office at 2001 C. B. Hedgcock (227-1700; TDD 227-1543). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state and University guidelines.</p>	