

## Math 316: Introduction to Real Analysis 1

<b>Instructor:</b>	Christopher Davis,
<b>Office:</b>	Hibbard Humanities Hall, Room 533
<b>Office Hours:</b>	Monday 1-2 PM, Wednesday 1-2 PM, Thursday 9-10 AM, Friday 1-2 PM And by appointment
<b>Email:</b>	DavisCW@uwec.edu
<b>Webpage:</b>	<a href="http://people.uwec.edu/daviscw">http://people.uwec.edu/daviscw</a>
<b>Textbook:</b>	An introduction to Analysis by Kirkwood
Other good books:	Introduction to Real Analysis by Bartle and Sherbert A First Course in Real Analysis by Protter and Morey Analysis with an Introduction to Proof by Wade
<b>Meeting time:</b>	Monday, Wednesday, Friday 2:00 PM - 2:50
<b>Classroom:</b>	Hibbard 302

**Important deadlines**, such as the add / drop deadline may be found at <http://www.uwec.edu/Registrar/calendar/>. Amongst them are:

February 2:	Last day to add without instructor approval.
February 9:	Last day to drop without a "W"
April 13:	Last day to drop with a "W"

### Course objectives

During this course we will axiomatically describe the real number system, and think about its algebraic and analytic properties. We will go on to discuss sequences and series of real number and their limits, functions on the real numbers and their limits, We will discuss the important property of continuity.

**Grades:** There are tentatively 3 midterm exams, one midterm project and a final project, There will be problem sets assigned daily and collected weekly every Wednesday. There will be irregular group activities, which will be treated as problem sets for the corresponding days. Numeric grades will be computed as follows:

Problem sets and groupwork	40%
Midterms	40%
Final project	20%

Letter grades will be computed at the end of the semester as follows (This table as with the whole syllabus is subject to change):

< 60%	F
60% - 70%	D
70% - 80%	C
80% - 90%	B
≥ 90%	A

Each homework will be graded rigorously, as will each exam. I will allow re-writes of every exam given in this class. It may take two or three rewrites, but I expect that everyone will have full credit on all of the exams. There will be many challenging extra credit assignments posted to the webpage. Every extra credit will be worth  $\frac{1}{2}$  of a weekly homework.

**Attendance:** Daily attendance and class participation is expected. You will be responsible for material due, material covered and any announcements made. While I will not grade based on attendance, this class will be extremely difficult to pass without attendance.

**Late work and Make-up Policy:** While missing class occasionally is not a disaster, I expect you to let me know in advance. If you foresee the possibility of missing a deadline, it is your responsibility to contact me beforehand so that arrangements can be made.

**Academic Integrity:** The disciplinary procedures and penalties for academic misconduct are described in the **UW-Eau Claire Student Services and Standards Handbook** in the section titled “Chapter UWS 14 - Student Academic Disciplinary Procedures.”

**Disability support:** Any student who has a disability and is in need of classroom accommodations, please contact the instructor and the Services for Students with Disabilities Office in Centennial 2106 at the beginning of the semester. See also <http://www.uwec.edu/ssd/>

Students who are non-native speakers of English may request extended test-taking time (time and a half). To determine eligibility, English proficiency is evaluated by the Academic Skills Center (for U. S. permanent residents/citizens) or by the Department of Foreign Languages (for international students).

**Classroom environment.** I expect that students will be respectful of this learning environment. You should make every effort to arrive on time and contribute to discussions and group work. Cellular phone use during class is prohibited except in extreme circumstances. If you have such a circumstance, then please let me know prior to class if possible and excuse yourself to use your phone when necessary. Outside of these circumstances please keep phones silent and put away.

If you make use of a piece of communication technology for note-taking I ask that you inform me and use it for class relevant activity only.

**FERPA statement:** The UWEC policy combined with provisions of the Family Educational Rights and Privacy Act (FERPA) indicates that students have a right to see their records and that I cannot release any information about them to a third party without written permission from the student that clearly spells out what type of information may be released.