

**SYLLABUS: Mathematics 148 (Honors Calculus II)**  
**Professor W. R. Wade (Aconda 110)**

OFFICE HOURS

Monday-Wednesday-Friday: 8:30-9:00 AM, 11:00-11:30 AM, and 2:30-3:30 PM.  
Tuesday-Thursday 9:00-10:00 AM or **by appointment**.

**THE COURSE.** This course is a continuation of the AP Calculus class you had in high school. You are already fluent with the mechanics of the differential and integral calculus of functions of one variable. In this course we shall investigate the conceptual foundations of that subject. Although we shall present theory as well as practice, the emphasis will always be sharply focussed on applicability. Because this is an honors course, the homework assignments will be short and focussed. They are NOT optional. It is extremely important to practice these techniques over a period of time to let them sink deeply into your consciousness. Even very bright students sometimes struggle with some of these topics. They are subtle, the result of centuries of refinement by scores of very intelligent mathematicians and physicists.

**THE CLASS PERIODS.** We shall cover all eight chapters of the handout entitled "Honors Calculus II" available at Graphic Creations (1809 Lake Avenue). Since there are many things which come up in class which are not in these texts, daily attendance is extremely important.

Unless an exam has been scheduled, each class will begin with a call for questions. Next, a formal lecture will be delivered and a homework assignment made. That assignment is due at the beginning of the next class period. Fold it LENGTH-WISE like a book and put your name of the FRONT COVER.

**THE GRADE.** In addition to the homework, there will be three hour exams (announced one week in advance) spread evenly throughout the semester, and a comprehensive final exam, which will be given in our "Monday-Wednesday-Friday" room on **Wednesday, December 9 from 10:15 to 12:15**.

Each hour exam is worth 100 points, the aggregate score on the homework is worth 100 points, and the final examination is worth 100 points or 200 points (depending on whether you drop an hour examination). At the end of the semester I will average your scores and assign grades according to the following scale:

91-100 A,      81-90 B,      70-80 C,      65-69 D.

The homework will be used to assign "plus" grades for students in borderline situations.

**MAKE-UP POLICY.** I will consider giving a make-up for an hour exam if you have a legitimate excuse. However, be advised that the make-up will be more difficult than the exam given to the rest of the students because I have already used up the simplest questions on the in class exam.