

# Calculus II

## SYLLABUS

### Instructor

Stefan Heinz, Ross Hall 214, 766-4203, [heinz@uwyo.edu](mailto:heinz@uwyo.edu)

URL: <http://www.uwyo.edu/heinz/>

Office hours: M 10:00-10:50 am, W 3:00-3:50 pm, F 1:00-2:50 pm.

Also available by appointment, and often by simply dropping by.

### Class Meeting

MWRF 9:00–9:50 am in BU 105

### Textbook

James Stewart, *Calculus Concepts and Contexts*, 2<sup>nd</sup> ed., Brooks/Cole, 2001.

### Grading Scheme

30%	Homework
10%	Computer Lab
10%	Term Test #1
10%	Term Test #2
10%	Term Test #3
10%	Gateway Exam
20%	Final Exam

### Grading scheme for the final grades

A	B	C	D	F
90-100	80-89	70-79	60-69	< 60

**Homework:** Homework is the most vital part of this course. Mathematics, more than most subjects, is one which you learn not by listening and absorbing, but by trying out yourself. The learning of mathematics is also more sequential than that of other subjects ... so all the more need to be regular in doing problems yourself! Homework assignments will be assigned approximately once per week, and will be submitted to me on the specified due date (usually after 3–6 days), at the end of class. I will not grade all of the assigned problems on any given problem set, but rather just a few which I will select myself for evaluation. It is fine for you to discuss the homework with other students. However, please do not copy anyone else's work directly. Copying may adversely affect your grade; but more importantly, of course, you won't be adequately preparing yourself for the tests in this way.

**Computer Labs:** On four days during the semester, you will go to the Computer Classroom in EN 2106 rather than our usual classroom. Tentative dates for the labs are Sept. 22, Oct. 6, Oct. 27 and Dec. 1, all of which are on Thursday. In these labs, you will be introduced to the MAPLE software, which will supplement the lectures and facilitate your understanding of calculus. In many instances, this software may also be used to check your homework solutions.

**Tests:** In addition to the Gateway Exam (described below), there will be three term tests and one final exam, all of which are ‘closed book’; however, you will be permitted to use a handheld calculator and one ‘cheat sheet’ (one 8.5x11 inch sheet with information written on one side in your own handwriting). Shared calculators or other aids during tests and the exam, is not permitted. Term tests will cover a specified unit of material only, but the final exam will be comprehensive. Later during the semester we will fix dates for the term tests. The final exam will be held during the week of December 14. Make-up tests, for those who miss tests, will only be granted in cases of verifiable illness or the most extreme circumstances (at my discretion). Please contact me in advance of such a situation if possible, or leave a message with the Math Department (766-4221). Even in legitimate cases, the make-up test will be harder than the original test.

**Gateway Exam:** Our course emphasizes depth of understanding of calculus, rather than facility with handling drill-type problems. However, in order to ensure that all students achieve a minimum level of “basic skills”, each student in Math 2205 is expected to pass a Gateway Exam focusing on pure and simple drill. No calculators or help sheets may be used on this exam, and a near-perfect score is required in order to pass, with partial credit being awarded very sparingly. The initial Gateway Exam will be given during the week of September 21, but retakes will be available outside of class time for the remainder semester. It is graded on a pass/fail basis (Pass=10 %, Fail = 0%).

### Tentative Schedule

Chapter	Days	Topics
5	12 classes and 1 lab	Integrals
6	8 classes and 1 lab	Applications of Integration
7	9 classes and 1 lab	Differential Equations
8	17 classes and 1 lab	Infinite Sequences and Series
9	4 classes	Vectors and the Geometry of Space

**Disability statement:** If you have a physical, learning, or psychological disability and require accommodations, please let me know as soon as possible. You will need to register with, and provide documentation of your disability to, University Disability Support Services (UDSS) in SEO, room 330 Knight Hall, 766-6189, TTY: 766-3073.