

Math 120, Section 1 - Spring 2019 Syllabus

Professor: Dr. Andy Felt	Office: SCI D355
Office Hours: M, T, R, F 9:00 – 9:50 a.m. or by arrangement	Phone: 346-4207 email: afelt@uwsp.edu

Class Meetings: M, T, R, F, 8:00–8:50, Sci. A207.

Text: *Calculus: Early Transcendentals*, 8th ed., by James Stewart, ISBN 978-1-285-74155-0, available from UWSP Text Rental.

Course Web Page: <http://www4.uwsp.edu/math/afelt/teaching/M120.html>

Calculators and Computers: A calculator will not be necessary in this course, but you may find one useful.

Prerequisites: Math 118 and 119; or suitable placement score

Fundamental Skills to be Learned:

- Recognizing real life situations where mathematical models apply.
- Translating the real life situations into mathematical models.
- Solving the mathematical model.
- Interpreting the solution in the context of the real life situation.

Grading:

Homework Assignments	130 points
Class Participation	20 points
3 Exams	300 points
Final Exam (Comprehensive)	150 points
Total	600 points

Homework: Assignments should have the following format:

- Looseleaf paper only (no spiral schnibbles)
- Name, section, assignment, date on first page
- Stapled, each assignment separately

The grade for each assignment will include 20% based on accuracy and quality of written communication. Examples on this topic are given in Assignment 0. *No late homework is accepted for any reason.* Usually, there will be a class day between the day homework is assigned and the day it is due. Assignments are due at the beginning of class on the day they are due.

Help: Everybody needs help at some point. The key is to *get help right away* when you need it. Here are some ways to get help:

- ask a question in class;
- ask me during office hours;
- ask me in an email;
- the Math Room (SCI A113A) provides help for students in this course;
- the Tutoring and Learning Center (below the library) has two kinds of help available;
 - tutoring sessions once per week, and
 - drop-in tutoring at the TLC.

More information on TLC help will become available after the semester begins.

Disability Accommodations: Reasonable accommodations are available for students who have a documented disability. Please notify the instructor during the first week of class of any accommodations needed for the course. All accommodations must be approved through Disability Services, located at 609 Learning Resources Center or <https://www.uwsp.edu/datc/Pages/default.aspx>.

General Course Policies:

- Exams must be ONLY your own work. You may work together on homeworks (unless otherwise specified), but the material you turn in must be *your own*. Please see <https://www.uwsp.edu/dos/Pages/Student-Conduct.aspx> to read about your rights and responsibilities as a student, and Chapter 14 (at that page) to read about Wisconsin’s academic misconduct code.
- Use of calculators or other technology will not be allowed on exams.
- Cell phones, computers, and other technology should be turned off during class and exam times.
- Everyone becomes ill sometimes. When you become ill, I expect you to make a reasonable effort to come to class. When illness or other emergencies require absence from class, I expect you to contact me immediately, preferably by email. I expect you to keep up with what is being taught by following in your book and doing the homework. Either have a friend bring your homework, or slide it under my office door. To account for illness and other emergencies, at least three homework scores will be dropped.

Tentative Calendar

Week of	Approximate Coverage
Jan 22	2.1 Tangent and velocity 2.2 Limits
Jan 28	2.3 Basic limit laws 2.4 Limit definition
Feb 4	2.6 Limits at infinity 2.7 Derivatives and rates of change
Feb 11	2.8 Derivative as a function 3.1 Derivatives of polynomials, exponentials
Feb 18	3.2 Product, quotient rules Exam I 3.3 Derivatives of trig functions
Feb 25	3.4 Chain rule 3.5 Implicit differentiation
Mar 4	3.6 Derivatives of log functions 3.8 Exponential models
Mar 11	3.9 Related Rates 3.10 Linear approximations

Week of	Approximate Coverage
Mar 25	3.11 Hyperbolic functions 4.1 Maximum, minimum values
Apr 1	4.2 Mean value theorem Exam II
Apr 8	4.3 The shape of a graph 4.4 L’Hôpital’s rule 4.5 Curve sketching
Apr 15	4.7 Optimization 4.8 Newton’s method
Apr 22	4.9 Antiderivatives 5.1 Areas and distances 5.2 The definite integral
Apr 29	Exam III 5.3 The fundamental theorem of calculus
May 6	5.4 Indefinite integrals and the net change theorem 5.5 Substitution
none	5.8 Exponential growth and decay
Finals	Thursday, 16 May Final Exam 14:45–16:45