Math 120, Section 3 - Fall 2017 Syllabus

Professor:	Dr. Andy Felt		Office:	SCI D355
Office Hours:	M, F	9:00 – 9:50 a.m.		
	T, R	11:00 – 11:50 a.m.	Phone:	346-4207
	or by arrangement		email:	afelt@uwsp.edu

Class Meetings: M, W, R, F, 2:00–2:50, 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

This many points gets you		at least this grade
552 (92%)	⇒	A,
540 (90%)	⇒	A−,
528 (88%)	⇒	B+,
492 (82%)	⇒	B, etc.

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 `http://www.uwsp.edu/disability/`.

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 `http://www.uwsp.edu/dos/Documents/CommunityRights.pdf` 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
5 Sep.	2.1 Tangent and velocity 2.2 Limits
11 Sep.	2.3 Basic limit laws 2.4 Limit definition
18 Sep.	2.6 Limits at infinity 2.7 Derivatives and rates of change
25 Sep.	2.8 Derivative as a function 3.1 Derivatives of polynomials, exponentials
2 Oct.	3.2 Product, quotient rules Exam I 3.3 Derivatives of trig functions
9 Oct.	3.4 Chain rule 3.5 Implicit differentiation
16 Oct.	3.6 Derivatives of log functions 3.8 Exponential models
23 Oct.	3.9 Related Rates 3.10 Linear approximations

Week of	Approximate Coverage
30 Oct.	3.11 Hyperbolic functions 4.1 Maximum, minimum values
6 Nov.	4.2 Mean value theorem Exam II
13 Nov.	4.3 The shape of a graph 4.4 L'Hôpital's rule 4.5 Curve sketching
20 Nov.	4.7 Optimization 4.8 Newton's method
27 Nov.	4.9 Antiderivatives 5.1 Areas and distances 5.2 The definite integral
4 Dec.	Exam III 5.3 The fundamental theorem of calculus
11 Dec.	5.4 Indefinite integrals and the net change theorem 5.5 Substitution
None	5.8 Exponential growth and decay
Finals	Wednesday, 20 December Final Exam 10:15–12:15