Applied Calculus - Math 111, Sections 1 and 4

Professor Cindy McCabe	Office Hours	Class Meets
Office: D354 Science Building	10:00 – 10:50am Mondays	Mon, Tues, Thurs, Fri
Phone: 715-346-2085	1:30 – 2:30pm Mon. & Thurs.	in CCC 111
Email: cmccabe@uwsp.edu	12:30 – 1:30pm Wednesdays	Sec. 1: 9:00 – 9:50am
www.uwsp.edu/mathsci	or by appointment	Sec. 4: 12:00 – 12:50pm

Text (rental): Applied Calculus for the Managerial, Life, and Social Sciences: A Brief Approach, 10th Ed., by S. T. Tan (published by Cengage, ISBN: 978-1-285-46464-0). Topics include most of those in Chapters 1-6 and a selection from Chapters 7 and 8.

Optional Purchase Item: An access code for online homework in WebAssign for about \$70. Please wait before purchasing until you hear about the free trial period to be discussed in class.

Calculators: A scientific calculator or a graphing calculator is required and should be brought to class daily. I recommend a graphing calculator like the TI-83 or TI-84 models. You may not share resources during exams since I want to know what you can do and to allow each of you to show what you can do. Computers, phones, smartwatches, and devices with internet access are not allowed during exams or quizzes. They must be stowed out of sight, set to a silent mode, and not used at these times.

<u>Prerequisites:</u> MATH 100 or MATH 107 or suitable placement test score. May not take Math 111 for credit after successful completion of Math 120. Please verify that you have met the prerequisites so you are prepared to have a successful semester. Feel free to ask questions about your preparation or mathematical background.

Learning Outcomes for this course: Students will be able to

- 1) find limits, derivatives, and integrals from graphs and from formulas.
- 2) determine when limits, derivatives, or integrals are useful in applied problems.
- 3) use rules for finding derivatives and integrals and identify which rules apply.
- 4) identify features of a graph using derivatives.
- 5) optimize a function or value using derivatives, and construct a conclusion using quantitative justification.
- 6) use the Fundamental Theorem of Calculus to relate derivatives & integrals to each other.
- 7) find exact area under a curve and area between two curves, and estimates for these areas.
- 8) communicate their conclusions and justifications using mathematical notation and language and using English sentences. This includes the use of mathematical terminology.

GEP (General Education Program) Quantitative Literacy Learning Outcomes

- Select, analyze, and interpret appropriate numerical data used in everyday life in numerical and graphical format.
- Identify and apply appropriate strategies of quantitative problem solving in theoretical and practical applications.
- Construct a conclusion using quantitative justification.

Communication: Announcements, homework assignments, course grade information, and other course information will be in Canvas, instead of Desire to Learn (D2L). To access Canvas, go to https://www.uwsp.edu, choose Canvas from the "Logins" dropdown menu, and use your regular campus login ID and password. Occasionally I may send the class an email also, using your uwsp address. Email is a good way to contact me (cmccabe@uwsp.edu).

Evaluation: Course grades will be determined by the following:

100 points for in-class quizzes (best 4 at 25 pts each; lowest score is dropped)

63 points for sustaining work, including HW checks (3 points each; top 21 scores used)

100 points for Exam 1 (in-class on Tues. Feb. 26)

100 points for Exam 2 (in-class on Tues. April 16)

130 points for the comprehensive Final Exam (May 13 or 16. See last page for details.)

Total: 493 points for this course

Course Grades at or above	93.3	90	86.7	83.3	80	76.7	73.3	70	66.7	60	%
	460	444	427	411	394	378	361	345	329	295	Points
will receive at least a grade of	A	A -	B+	В	В-	C+	C	C -	D+	D	

I reserve the right to exercise discretion in raising a student's grade if the final course grade does not appear to reflect the quality of a student's work (for example, because of one low exam score early in the course). I will not use discretionary judgments to lower a student's final grade.

Five regular quizzes and three exams are listed in the schedule on the last page. They are also in the calendar in Canyas. The lowest one of your five regular quiz grades will be dropped at the end of the semester.

Most class days, a list of homework exercises will be assigned. Students have the option of doing some/most of the exercises online in WebAssign and some on paper, or doing all of them on paper. When you are doing homework, either in WebAssign or from the text, take notes or do some work on paper for almost every exercise. Then bring that work to class so you are ready for discussions.

Each assignment is intended to be a minimal list of exercises which you need to understand in order to do well in this course. Homework is extremely important to your learning process, so make sure you stay on top of it and ask questions on whatever you don't understand.

There will be homework checks at the beginning of class about two times each week and other in-class activities on some days. Usually, your score out of 3 points for one of these "sustaining work" activities will be based on evaluations of Solid performance - 3 points, Substantial work done-2 points, Partial understanding exhibited -1 point, or No contribution -0 points. The homework check scores will be based on your WebAssign work or your work done on paper, as well as your contributions during class that day. The top 21 scores for homework checks and other sustaining work will be used in your course grade, leaving at least four extra days to allow for times you had to miss class or come to class unprepared.

I do not anticipate other graded items, but if any arise, they will be announced in class and the course points will be adjusted.

Attendance Policy: Attendance is expected at every class meeting. It is the student's responsibility to make prompt arrangements with me for finding out what was missed and for making up any assigned work in the case of an absence. Quizzes and exams may only be made up in special circumstances, and normally only if arranged with me ahead of time. If a medical emergency occurs, contact the Dean of Students as soon as possible (contact information below). They will then contact me and your other professors, and we can see if an exception is in order.

Support is available:

- 1) Ask questions as they arise. Come to see me before or after class, stop by during my office hours, or schedule an appointment with me for another time. One of the great parts of my job is working with conscientious students!
- 2) Tutoring services are available through the Math Help Room where there is free drop-in tutoring in SCI A113A. Usual hours are 9am – 4pm and 7pm – 9pm, Mon – Thurs.
- 3) Tutoring services are also available through the Tutoring-Learning Center in ALB 018, including group tutoring sessions designed for my Math 111 sections this semester. To learn more about your options at the Tutoring-Learning Center, see http://www.uwsp.edu/tlc/Pages/CA-tutoring.aspx.



SET UP AN EXERCISE ROUTINE FOR YOUR BRAIN, LET'S MAKE SOME NEW PATHWAYS THIS SEMESTER!

UWSP is committed to providing reasonable and appropriate accommodations to students with disabilities and temporary impairments. If you have a disability or acquire an impairment or injury during the semester and you need assistance, please contact the Disability and Assistive Technology Center as soon as possible, on the 6th floor of Albertson Hall (library), at 715-346-3365, or at DATC@uwsp.edu. You may also want to visit http://www.uwsp.edu/disability/Pages/default.aspx.

All students are expected to know the UWSP student responsibilities found on the Dean of Students webpage. Information on Academic Concerns is available at https://www.uwsp.edu/dos/Pages/stu-academic.aspx. Information on Conduct Concerns and on Personal Concerns are also available on the Dean of Students site.

Incompletes: A grade of incomplete may be given when circumstances arise which are beyond the student's control, and which result in the student being unable to complete the course. A grade of incomplete will only be used if the student is passing when the circumstances arise.

Weekly Schedule - Spring 2019

Week	Approximate text sections to discuss this week	Events this week
1. Jan. 21 – 25	1.1 – 1.4, 2.1	No class Monday, MLK Jr. Day
2. Jan. 28 – Feb. 1	2.1 – 2.4	Practice Quiz Friday
3. Feb. 4 − 8	2.4 – 2.6	Quiz 1 Tuesday
4. Feb. 11 – 15	2.6, 3.1, 3.2	to segulture et austr
5. Feb. 18 – 22	3.3, 3.5, 3.6	Quiz 2 Tuesday
6. Feb. 28 – March 1	Review, 4.1	Exam 1 Tuesday, Feb. 26
7. March 4 – 8	4.2, 4.3	
8. March 11 – 15	4.4, 4.5	Quiz 3 Tuesday
March 18 – 22	Guerra entre de la company	Spring Break – no classes
9. March 25 – 29	5.1, 5.2, 5.4	
10. April 1 – 5	5.4 – 5.6	Quiz 4 Tuesday
11. April 8 – 12	5.6, 6.1, 6.2	
12. April 15 – 19	Review, 6.3	Exam 2 Tuesday, April 16
13. April 22 – 26	6.3 – 6.6	
14. April 29 – May 3	6.6, 7.4, 8.1	Quiz 5 Tuesday
15. May 6 – 10	8.1, 8.2, Review	

Final Exam Times: Section 1 - Monday, May 13, 8:00 - 10:00am Section 4 - Thursday, May 16, 12:30 - 2:30pm

Final Exams take place in our regular classroom, CCC 111.



