

## GENERAL INFORMATION

COURSE: MATH 182 Calculus II.

DESCRIPTION: Definite integrals and their applications, Infinite sequences and series.

This course will cover, with some exceptions, from 5.1 to 8.10. To succeed in this course, it is necessary that you be reasonably proficient in calculus I. In particular, you should be able to calculate limits, derivatives and antiderivatives. You also need to be adept with basic algebra, being able to perform elementary calculations correctly and with reasonable facility.

PREREQUISITE: Math 181, Calculus I or the equivalent.

TEXTBOOK: The text for this class is University Calculus Early Transcendentals, Second Edition, by Hass, Weir, and Thomas; Pearson Publishing (there is an online edition available for purchase, go to <http://pearsonmylabandmastering.com/> to purchase with your credit card).

MEETING TIMES: Lecture: 4-5:15 MW, SEM 101. Discussion sections: see below.

INSTRUCTOR: Prof. Don Pfaff

OFFICE: DMS218

PHONE: 784-7554

OFFICE HOURS: 2:35 - 3:40 MW in my office and 5:20 - 5:25 MW in the foyer outside SEM101. If you would like some help and cannot see me during those times, just talk with me after class and make an appointment. Or write [don@unr.edu](mailto:don@unr.edu). Or call 784-7554. Or call 784-6773 and leave a message.

E-MAIL: [don@unr.edu](mailto:don@unr.edu)

HOMEPAGE: <http://wolfweb.unr.edu/homepage/don/>

DISCLAIMER: Following the lead of banks, credit card companies, etc., the instructor reserves the right to change anything anytime for any reason that he deems appropriate.

HOMEWORK: The first thing you need to do is enroll in MyLab so that you can fully participate in the course and begin your practice homework. As soon as possible, go to <http://pearsonmylabandmastering.com/>. In the gray box on the right-hand side of the web page, click "Student" under the heading "Register". You will need an email address (preferably yours), a CourseID, and a student access code to complete enrollment. The student access code is provided with your textbook or in a Student Access Card/Kit available from the ASUN bookstore.

Your CourseId is pfaff01235

Once you've finished you can access the online course from the [pearsonmylabandmastering.com](http://pearsonmylabandmastering.com) website and clicking on the big log in button under Returning Users. Click on the course name to enter the course homepage which contains the course announcements. To start working on your homework, click the "Do Homework" button on the left side of the page. You will see a list of the homework assignments and the due date for each assignment. Just click on the homework to begin. You do not need to complete any assignment in one sitting. If you feel you've done as much as you can, click the SAVE button, then exit the homework. You can come back and finish any time before the due date. You may print all of your homework problems if you'd prefer to work on them away from the computer. You will, however, need to print in color.

Homework is assigned almost daily. There will be two kinds of problems. Odd numbered problems will be done online. You will have all semester to do these as they do not count toward your grade; they should be considered as the necessary practice for learning the material. The even numbered assigned problems are to be turned in on the indicated date due, usually about three days after the day the topic is first covered in class. One or more of these will be graded and passed back to you and these are the scores that count for the homework part of your grade. Periodically some problems may be assigned that are not from the text, so be watching for such. Spend MUCH time on homework, since most learning will come from doing problems. Many problems will require a good deal of thought and often you will not be able to simply write down an answer. The assigned problems represent the minimum I think are necessary to have a good basic understanding of calculus, but if you think you haven't quite "got it", by all means do as many problems as necessary for you to master the material.

Work them out, check the answers, and spend time trying to see how each idea connects with what you have learned before. Many, if not most, of the homework problems or their clones will be discussed thoroughly in class or in a discussion section. The top 15 or 16 homework scores will count roughly ten percent of your grade. Late homework is never accepted.

**N. B.** Learning calculus is **NOT** a matter of finding a sample worked-out problem and memorizing how to do problems that look just like it. You should expect many homework problems to be significantly different from those you have seen before, which will allow you to apply basic principles in a variety of ways.

**TESTS & QUIZZES:** There will be three scheduled full-period exams. Each will be worth 150 points. Exam I is scheduled for Feb. 15. These exams will test your understanding of the material recently covered in the lectures. In general there will be no makeup tests. If you miss an hour exam you must take the final exam and your final grade will be based on the other scores and the final exam score. The final exam, if taken, will be worth 200 points. There will be about twelve quizzes. I will count the top seven or eight and the percentage will be converted to a maximum of 50 points. Homework will count up to a maximum of 50 points also. A tentative final grade will be presented to you on May 7. If you are satisfied or feel you can't really do better, you do not have to take the final exam. If you wish to try to improve your grade, I will tell you how many points you must get on the 200-point final to raise your grade one letter.

**FINAL EXAMINATION:** There will be a comprehensive final examination in SEM 101. It is scheduled on May 14, 4:30-6:30, but sometimes things change so be sure to check near the end of the semester.

**GRADES:** 100% - 90% = A, 89.9997% - 80% = B, 79.9997% - 60% = C, 59.9997% - 50% = D, Less than 50% = F. The instructor reserves the right to deviate from this schedule in special circumstances, including giving higher grades than the previous schedule promises.

**MAKE-UP POLICY:** Make-up or early exams will not be offered. If you miss an exam, you will make it up by taking the Final Exam. This means that you will be graded on the basis of 600 points, rather than 550 if you take all the full-period exams.

**MAKE-UP POLICY REGARDING THE FINAL EXAM:** We strongly discourage students from requesting make-up final exams. Make-ups will be given only in case of unavoidable circumstances or last minute medical emergencies, and not because you decided to buy an earlier ticket to go on vacation. A final exam make-up request should be submitted to your course instructor, preferably in a type-written letter with signature, clearly explaining the reason for the request (in a pinch, email is alright). Your request should include your contact information, NHSE ID number, the instructor's name, and the course and the section number. Your instructor will then decide if he supports the request or if he decides that the grade of I is more appropriate.

**RESOURCES:** Only Scientific Calculators are allowed for all exams including the final exam. PDAs, computers, graphing calculators, cell phones, or similar digital devices are prohibited on all exams. Academic Skills Center offers tutoring (for a fee, unless you have a Pell grant) and the Math Center offers free help with various classes and calculator questions. I am always available for help and if you can not meet any of my office hours, please make an appointment.

**DISABILITIES:** The Math Department supports providing equal access for students with disabilities. I encourage any student needing to request accommodations for a specific disability to please meet with me at your earliest convenience to ensure timely and appropriate accommodations.

You **MUST** turn off all cell phones and other electronic equipment before class starts and place these items in your bag, backpack, pocket, purse, or briefcase!! If any cell phone rings during class you will lose your privilege to have it in the classroom. **IF IT RINGS DURING AN EXAM OR QUIZ YOU WILL BE ASKED TO TURN IN YOUR EXAM OR QUIZ AND LEAVE THE CLASSROOM.**

**Academic Conduct:** Cheating happens; therefore you must bring your student identification to all exams. You must work independently on all exams unless your exam instructions indicate otherwise. Any behavior inappropriate to test taking may disturb other students and such behavior will be considered as cheating. You may not read notes or books while taking tests unless you have permission of your instructor. Homework is not a test therefore collaboration with anyone of your choice is permitted. If you are unclear as to what constitutes cheating, please consult with me.

**HELPFUL SUGGESTION:** Attend Class. You are always responsible for whatever is discussed in class, including announcements of quizzes and discussions of topics which may not be covered in the book. Do **NOT** fall behind. This is not the type of class where you can take it easy for a couple of weeks and then catch up in a flurry of activity. Try to study with others in small groups; it's a terrific way to learn. Just be sure to write up your answers and solutions in your own words.

Good Luck! I hope you have fun and enjoy learning this material. Remember, Mathematics is not a spectator sport!

## ABOUT THE INSTRUCTOR

Dr. Don Pfaff received his A.B., M.A., and Ph.D degrees from U.C., Berkeley. On a good day, he also has 98.6 degrees from Fahrenheit. He has taught at UNR since 1961, and has loved, if not every minute of it, at least all but 17 days, 6 hours, and 22 minutes. He wrote Study Guides for two courses offered by the United States Armed Forces Institute, which went out of business shortly thereafter. He hopes it was not his fault. He has taught innumerable Institute classes for secondary school teachers, spoken at many conventions, and has published two research papers that you wouldn't even want to know the titles of. He has also brightened the lives of thousands of high school students by making up the Nevada State Prize Exam for the last 50 years, and more recently has published a book of problems and solutions. He taught Intermediate Algebra for ten years on television and has conducted workshops on Math Anxiety. In 1983, he hit it lucky and was presented with the UNR Distinguished Teacher Award. His picture used to be on permanent display, along with those of the other recipients, on the third floor of Morrill Hall; He doesn't know where it is now. He's the one in the outrageous shirt. In 1998 he was presented with an award for distinguished teaching from The Northern California section of the Mathematical association of America. He was very pleased. Finally, his interests are pretty much like everyone else's: solving problems; collecting comic books; listening to classical music, Weird Al Yankovich, and Dr. Demento; talking about math; watching reruns of Columbo, Laurel and Hardy, Dragonball Z, and Babylon 5.

DATE	SECT	HOMEWORK	DUE
1/23	5.1,5.2	5.1.1,5,9; 5.2.5,11,17,25,29,33ab & 5.1.2,10; 5.2.2,30ab,34ab	1/26
1/25	5.3,5.4	5.3.9,17,23; 5.4.3,15,19,21,23,35,39,53 & 5.3.106f,26; 5.4.16,24,40,54	1/31
1/30	5.5	5.5.17,19,25,29,33,37,47,49,65 & 5.5.14,20,24,38	2/2
2/1	5.6	5.6.1,9,11,47,55,57,63,67,73,75,81,85,93 & 5.6.66*,74*,80*,96*	2/7
2/6	10.1	10.1.1,3,5,7,9,19,21,27 & 10.1.4,10,16,20a,24	2/9
2/8	6.1,6.2	6.1.1,5,21,27,31,41,53,43; 6.2.7,9,17,21,25 & 6.1.44*,52*; 6.2.24*abc	2/14
2/13		REVIEW	
2/15		EXAM I	
2/22	6.3,6.4,10.2	10.2.27,29,33; 6.3.3,11; 6.4.1,3a,9,17 & 6.3.14**; 6.4.14**; 10.2.30,32	2/28
2/27	6.5+?	6.5.3,5,7,9,13,15,17 & 6.5.2,8*,16*	3/1
2/29	6.6+?	6.6.1,3,7,17,29,31 & 6.6.4*,18*,30*	3/6
3/5	7,8.1	8.1.1,5,7,9,11,21,33,39,47; & 8.1.4,12,24,26,38	3/8
3/7	8.2	8.2.1,11,13,21,25,33,35,39,41; 8.2.4,16,40,46	3/13
3/12	8.3	8.3.3,11,13,15,19,21,29,35 & 8.3.6,14,20,30	3/15
3/14	8.4	8.4.1,5,9,13,23,25,27,33,35 & 8.4.12,22,26,38	3/27
3/26	8.5,8.6	8.5.1,11,15,19,41,51; 8.6.5,13,19 & 8.5.16,30; 8.6.12,16	3/29
3/28		REVIEW	
4/2		EXAM II	
4/4	8.7	8.7.7,11,17,23,25,35,47,53 & 8.7.8,12,16,50	4/10
4/9	9.1,9.2	9.1.7,13,23,31,35,41,53; 9.2.1,13,15,25,29,45,55 & 9.1.24,32,38,44; 9.2.14,16,24,36	4/12
4/11	9.3,9.4	9.3.3,7,15,19; 9.4.5,15,19,21,23,27 & 9.3.8,16; 9.4.6,20,22	4/17
4/16	9.5,9.6	9.5.1,5,15,19,21,61; 9.6.5,15,19,53,47 & 9.5.4,18,62; 9.6.24,54	4/19
4/18	9.7	9.7.3,5,7,11,13,19,25,29,37 & 9.7.8,12,18,34	4/24
4/23	9.8	9.8.1,7,9,11,15,25 & 9.8.6,12,14,28	4/26
4/25	9.9,9.10	9.9.1,7,9,15,29; 9.10.3,5,7 & 9.9.2,8,12; 9.10.2,8	5/1
4/30		REVIEW	
5/2		EXAM III	
5/7		JUDGEMENT DAY	
5/9		DEAD DAY	
5/14		FINAL EXAM	

\* INTEGRAL FORM ONLY

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