

COURSE SYLLABUS
MATH 166
SPRING 2006

Welcome to Math 166, my name is David Terhune, and I will be your instructor for this course. My office is 309G Minard Hall, and my office hours this semester will be from 2-5 pm Monday through Friday. If my hours are inconvenient then email me (terhune@ndsu.edu) or give me a call (231-8177) and we will work something out. Eventually, I will have a webpage set up, which will include course information.

In general, you may consider my office an "open door", and I strongly recommend that you come and see me if you are having any trouble in class (or if you find that you are not being challenged enough). Come by...I enjoy seeing my students.

COURSE DESCRIPTION: Standard second semester calculus. Topics covered will include integrals, techniques and applications of integration (including volumes, arc length, surface area, and applications to engineering, physics and other sciences) and numerical integration. Also covered will be sequences, series, determination of convergence, power series and series representations (including Taylor series), and the calculus of parametric and polar equations.

GOALS: To give students an understanding of and an appreciation for the theory and applications of differential and integral calculus of one variable. Both computational and conceptual skills will be developed. The students will be exposed to both theoretical and applied points of view and applications to other disciplines will be stressed.

TEXTBOOK: The text will be Stewarts fifth edition book: Calculus, Early Transcendentals.

HOMEWORK: It is *imperative* that you do the homework. If you have trouble with the assigned problems (or any others in your book) then see me ASAP. Please work as many problems as you can (even beyond the assigned list if possible). The bottom line is that if you want to learn some mathematics, the only way to do this is by "getting your hands dirty" working problems.

QUIZZES: Once a week in recitation (at least), there will be a quiz covering the material covered in the previous lectures. Make-up policy is at the discretion of your recitation instructor, but attendance is absolutely necessary. The quizzes will be averaged for part of your final grade.

EXAMS: There will be three out of class examinations on Thursday February 16, Thursday March 9, and Thursday April 20. The exams will all take place in Minard 138 from 7:30pm-9pm. The final exam (as per your spring registration schedule) will take place on Thursday, May 12 from 8:00am-10:00am in Minard 138. *No calculators will be allowed on the exams.*

GRADES: Here is a breakdown of the quizzes/exams/final:

Quiz Average...30%
Exam 1...15%
Exam 2...15%
Exam 3...15%
Final...25%

If you get the following scores (out of 100) you will receive:

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

SPECIAL NEEDS: Any students with disabilities or other special needs, who need special accommodations in the course, are invited to share these concerns or requests with the instructor as soon as possible.

ACADEMIC HONESTY: All work in this course must be completed in a manner consistent with NDSU University Senate Policy, Section 335: Code of Academic Responsibility and Conduct (<http://www.ndsu.nodak.edu/policy/335.htm>).

I wish you the best of luck in this course, please stop by and keep me posted on how you are doing.

DATE	SECTION AND HOMEWORK
1/11(W)	5.1; 1-3,6,11,13,16-26; 5.2; 1,4-7,9,11,15,17,19,20,22, 24-28,29-41 odd,44,46,47-59 odd,61-69
1/13(F)	5.3; 1-9,11,14,17-41 odd, 42,43-51 odd,52-68,70 5.4; 1-4,6,8,10-14,15-41 odd,43-48,50,52,54,56-58,62
1/16(M)	HOLIDAY
1/18(W)	5.5; 1-69 odd, 71-75, 79-85
1/20(F)	5.6; 1-10
1/23(M)	6.1; 1-25 odd, 27-35 odd, 37-49
1/25(W)	6.2; 1-45 odd, 47-69
1/27(F)	6.3; 1-27 odd, 28, 29-41 odd, 43-46
1/30(M)	6.4; 1-29 odd
2/1(W)	6.5; 1-17 odd, 18-24
2/3(F)	7.1; 1-39 odd, 41-50, 51-59 odd, 60-66
2/6(M)	7.2; 1-47 odd, 48-54, 55-63 odd, 64-68
2/8(W)	7.3; 1-29 odd, 31-41
2/10(F)	7.4; 1-47 odd, 49-68
2/13(M)	7.5; As many as you can (you should be able to do them all).
2/15(W)	7.6; As many as you can.
2/16(TH)	EXAM 1, MINARD 138 7:30PM-9PM
2/17(F)	7.7; 1-4, 5-27 odd, 29-33, 36-38, 40-48
2/20(M)	HOLIDAY
2/22(W)	7.8; 1-4, 5-55 odd, 56-78
2/24(F)	8.1; 1-35 odd, 36-38
2/27(M)	8.2; 1-25 odd, 26-36
3/1(W)	8.3; 1-31 odd, 32-44
3/3(F)	8.5; 1-11 odd, 13-15
3/6(M)	8.4; 1-15 odd
3/8(W)	11.1; 1-47 odd, 50-73
3/9(TH)	EXAM 2, MINARD 138 7:30PM-9PM
3/10(F)	11.2; 1-2, 3-39 odd, 41-50, 52-68
3/13-3/17	SPRING BREAK
3/20(M)	11.3; 1-2, 3-23 odd, 24-39
3/22(W)	11.4; 1, 2, 3-35 odd, 37-46
3/24(F)	11.5; 1-31 odd, 32-36
3/27(M)	11.6; 1-27 odd, 29-40
3/29(W)	11.7; As many as you can (you should be able to do them all).
3/31(F)	11.7; Continued.
4/3(M)	11.8; 1-2, 3-27 odd, 28-40
4/5(W)	11.9; 1-2, 3-13 odd, 14-18, 19-29 odd, 31-40
4/7(F)	11.10; 1-2, 3-31, odd, 32, 33-53 odd, 55-62
4/10(M)	11.11; 1-19 odd, 20
4/12(W)	11.12; 1-37 odd
4/14-4/17	HOLIDAY
4/19(W)	10.1; 1-21 odd, 22, 23-28, 29-37 odd, 38-48
4/20(TH)	EXAM 3, MINARD 138 7:30PM-9PM
4/21(F)	10.2; 1-29 odd, 30, 31-55 odd, 56, 57-67 odd, 68-74
4/24(M)	10.3; 1-49 odd, 50-54, 55-73 odd, 74-82
4/26(W)	10.3; Continued.
4/28(F)	10.4; 1-8, 9-21 odd, 22, 23-33 odd, 34-36, 37-55 odd, 56
5/1-5/5	Recap, review, and/or selected topics (see webpage for updates).
5/12	FINAL EXAM, MINARD 138, 8:00AM-10:00AM.