

MATH 165, Calculus I, 4 credits, Spring 2012

Lecture: MWF 8:00–8:50, Minard 222

INSTRUCTOR: Sean Sather-Wagstaff

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WEBPAGE: <http://www.ndsu.edu/pubweb/~ssatherw/>

ONLINE EVAL: <http://www.ndsu.edu/pubweb/~ssatherw/ssw-eval.html>

COURSE WEBPAGE: <http://www.ndsu.edu/pubweb/~ssatherw/sp12/165/>

OFFICE HOURS: MWF 9-9:50, and by appointment

TEACHING ASSISTANT: Tom Dunn

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TEACHING ASSISTANT: Rich Wicklein

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PREREQUISITE: MATH 105, 107, or placement test.

REQUIRED TEXT: *Calculus, Early Transcendentals*, Second Edition, by J. Rogowski

COURSE DESCRIPTION: Topics include Limits, continuity, differentiation, Mean Value Theorem, integration, Fundamental Theorem of Calculus and applications. MATH 165 meets for 150 minutes of lecture and 100 minutes of recitation each week.

COURSE GRADES: Student grades are based on quizzes, three (3) midterm examinations, and one (1) comprehensive final examination covering students' understanding of topics covered in MATH 165. Grades will be updated throughout the semester at the NDSU Blackboard site.

Quizzes	20%	A	90–100%
Midterm Exams	20% each	B	80–89.9%
Final Exam	20%	C	70–79.9%
		D	60–69.9%
		F	0–59.9%

HOMEWORK: Homework will be assigned daily in lecture. Assignments are listed on p. 4 of this syllabus. Homework solutions will not be collected. Students are encouraged to work on homework in groups.

QUIZZES: Quizzes will be given at least once per week in recitation, except during exam weeks. Books, notes and calculators will not be allowed during the quizzes. Your two (2) lowest quiz scores will be dropped. Make-up quizzes will not be allowed.

ATTENDANCE: Your presence, attention, and participation in lecture and recitation will greatly help your performance in this class. However, attendance will only be taken on the first two days of class.

EXAMS: Midterm exams will have two parts each: the first part will be taken in recitation and will last 50 minutes; the second part will be take-home, due in the next recitation meeting. The final examination will be comprehensive and will last 2 hours. Books and calculators will not be allowed during the timed exams. You will be allowed to use one 2-sided 8.5" × 11" sheet of hand-written notes on each timed exam. All timed exams will be taken using blue books. For the take-home exams, you can use the text, your notes, and a calculator; however, you cannot use any online resources, and the only human assistance you can receive is from the instructor or your TA. Make-up exams will only be allowed under extreme circumstances. If you have a conflict with an exam date, you are responsible for making alternative arrangements beforehand.

BLUE BOOKS: Each student is required to supply four (4) blank blue books to her/his TA by Thursday 19 January.

SCHEDULE: The instructor reserves the right to make reasonable changes to the schedule.

Martin Luther King Day holiday	Mon 16 Jan
Last day for No Record Drop of classes	Thu 19 Jan
Blue book deadline	Thu 19 Jan, 5:00 PM
Midterm 1 review	Wed 08 Feb, 7:00–9:00 PM, Minard 222
Midterm 1, in-class portion	Thu 09 Feb, in recitation
Midterm 1, take-home portion due	Tue 14 Feb, at beginning of recitation
President's Day holiday	Mon 20 Feb
Spring Break	Mon 12 Mar to Fri 16 Mar
Midterm 2 review	Wed 21 Mar, 7:00–9:00 PM, Minard 222
Midterm 2, in-class portion	Thu 22 Mar, in recitation
Midterm 2, take-home portion due	Tue 27 Mar, at beginning of recitation
Last day to Drop Classes (W)	Thu 05 Apr
Holiday/Recess	Fri 06 Apr and Mon 09 Apr
Midterm 3 review	Wed 11 Apr, 7:00–9:00 PM, Minard 222
Midterm 3, in-class portion	Thu 12 Apr, in recitation
Midterm 3, take-home portion due	Tue 17 Apr, at beginning of recitation
Classes end	Fri 04 May
Final Exam review	Mon 07 May, 3:30–5:30 PM, Minard 222
Final Exam	Wed 09 May, 8:00–10:00 AM, Minard 222

LECTURE NOTES: Clear and thorough course notes will provide you with a basis for your

preparations for homework assignments, quizzes, and exams. You are responsible for taking notes during class, as lecture notes will not be posted online.

GRAPHING CALCULATORS: Graphing calculators are not required for this course, but you may find one useful. Calculators will not be allowed in the quizzes or in-class exams.

WORKLOAD: 10–15 hours/week on this course outside of lecture and recitation.

ANNOUNCEMENTS: Periodically, course announcements will be sent to your `my.ndsu.edu` email account. It is your responsibility to check this email account regularly.

QUESTIONS: If something the instructor or teaching assistant says or writes in class is unclear, raise your hand and ask a question. He or she will try to clarify the point being made.

GROUP STUDY: You are required to find at least one person in the class with whom you can study. Not only does this help you study better, but also, in the event you miss a lecture or recitation meeting, you can get the notes and assignments from this person.

TEXT READING: Read the relevant sections of the text book before lecture. Even if you do not understand everything, seeing it once before it is presented will help you follow lecture.

OFFICE HOURS: Come to office hours for help. This gives the instructor or teaching assistant the opportunity to focus on specific problems you may be having and to explain things in a more personal manner. If the scheduled times are bad for you, make an appointment.

INSTRUCTOR/TA FEEDBACK: At the course webpage, there is a link to an anonymous evaluation form where students can submit comments or suggestions for the instructor at any time during the semester. Your TA may also have a similar feedback page.

ADA STATEMENT: The Americans with Disabilities Act requires that reasonable accommodations be provided for students with physical, cognitive, systemic, learning and psychiatric disabilities in order to ensure their equal access to course content. If you have a documented disability and require accommodations, please let your instructor know as soon as possible. For more information, please contact Disability Services at 231-7671 or go to <http://www.ndsu.edu/counseling/disability.shtml>.

ACADEMIC HONESTY: The academic community is operated on the basis of honesty, integrity, and fair play. NDSU Policy 335: Code of Academic Responsibility and Conduct applies to cases in which cheating, plagiarism, or other academic misconduct have occurred in an instructional context. Students found guilty of academic misconduct are subject to penalties, up to and possibly including suspension and/or expulsion. Student academic misconduct records are maintained by the Office of Registration and Records. Informational resources about academic honesty for students and instructional staff members can be found at <http://www.ndsu.edu/academichonesty/>.

COURTESY: Cellular telephones, pagers, and other similar devices are not to be used and are to be turned off or set to vibrate-mode during class-time. Students violating this policy will receive one warning per semester. After the warning, violations will result in the loss of a quiz.

GENERAL EDUCATION: This course develops student capabilities related to several of NDSU's General Education Objectives, including: the ability to communicate effectively in a variety of contexts and formats; comprehension of concepts and perspectives needed to function in society; and integration of knowledge and ideas in a coherent and meaningful manner.

TENTATIVE COURSE OUTLINE:

Chapter 2 (3 weeks) Limits

Chapter 3 (4 weeks) Differentiation

Chapter 4 (3 weeks) Applications of the Derivative

Chapter 5 (3 weeks) The Integral

HOMEWORK EXERCISES

Section Exercise numbers (odd numbers only)

2.1	1-21, 25-35
2.2	1-53, 61, 65, 67
2.3	1-33-39
2.4	1-55, 57-89
2.5	1-33, 37-59
2.6	1-59
2.7	1-3, 5-45
2.8	1-29
2.9	1-7, 13-35
3.1	1-45, 49-59, 65-75
3.2	1-75, 85-97
3.3	1-45, 49-67
3.4	1-53
3.5	1-47, 53, 55
3.6	1-45, 49-57
3.7	1-105
3.8	1-41
3.9	1-85
3.10	1-51, 55-65
3.11	1-45
4.1	1-75
4.2	1-23, 29-57, 61-73, 77-81, 87-97
4.3	1-7, 11-55, 59-75
4.4	1-63, 67
4.5	1-67, 71-79
4.6	1-35, 41-77
4.7	1-11, 15-51, 55-61, 65
4.8	1-15, 23-31, 35
4.9	1-85
5.1	1-77, 81-91
5.2	1-29, 33-87
5.3	1-67
5.4	1-47, 51, 53
5.5	1-29
5.6	1-103
5.7	1-77, 81, 83
5.8	1-27, 31-63