

**MATH 165, Calculus I, 4 credits, Fall 2013**

Lecture: MWF 8:00–8:50, Ladd 107

INSTRUCTOR: Sean Sather-Wagstaff

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

COURSE WEBPAGE: <http://www.ndsu.edu/pubweb/~ssatherw/fa13/165/>

OFFICE HOURS: MF 9:00-9:50, W 10:00-10:50, and by appointment

TEACHING ASSISTANT (TA) INFORMATION:

TA NAME	E-MAIL ADDRESS	OFFICE ADDRESS
Stefan Bock	<a href="mailto:stefan.bock@ndsu.edu">stefan.bock@ndsu.edu</a>	Minard Hall 408E36
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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.

COURSE GRADES: Student grades are based on quizzes, three (3) midterm examinations, and one (1) comprehensive final examination. Grades will be updated throughout the semester at the NDSU Blackboard site. Weights are summarized in the following table along with grade ranges. Note that grades in this class will not be curved.

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.

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.

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. Fifteen quizzes will be given this semester. Your one (1) lowest quiz score will be dropped. Because individual quizzes make up less than 1.5% of your course grade, Dead Week policy does not apply to quizzes.

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 (50% on Chapters 2–4 and 50% on Chapter 5) 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 assistance you can receive is from the instructor or your TA. You may not consult with other students, tutors, friends, family members, etc. on the take-home exams. Take-home exams are due in recitation no later than 8:05AM. Exams submitted at 8:06AM or later (according to the classroom clock) or outside of recitation will not be accepted.

MAKE-UPS: Make-up quizzes and exams will only be allowed under unavoidable, documented circumstances, as described next.

Circumstance	Required documentation
Illness or other medical situation	Official note from clinic, hospital, doctor, nurse, or other health care provider
Military service	Official military activation orders
Funeral or other family emergency	Official documentation from newspaper, funeral, or medical official
Sports or other official NDSU activity	Official documentation from NDSU athletics or activity's faculty adviser

Note that vacations and other recreational activities (including hunting trips) do not qualify for make-ups. If you have a pre-existing conflict with an exam or quiz date, you are responsible for making alternative arrangements beforehand.

BLUE BOOKS: Each student will supply four (4) blank blue books to her/his TA by Tue 10 Sep, 5:00 PM. Failure to submit blue books on time will result in a quiz grade of 0 for the week.

SCHEDULE: The instructor reserves the right to make reasonable changes to the schedule. (Note that CC is short for Campus Connection.)

Labor Day holiday	Mon 02 Sep
Last day for CC wait lists to run	Tue 03 Sep
Last day to add classes via CC	Wed 04 Sep
Last day for no-record drop of classes	Wed 04 Sep
Blue book and syllabus quiz deadline	Tue 10 Sep, 5:00 PM
Midterm 1 review (Chapter 2)	Mon 23 Sep and Tue 24 Sep, in class
Midterm 1 (in-class portion)	Thu 26 Sep, in recitation
Midterm 1 (take-home portion)	due Tue 01 Oct, by 8:05AM, in recitation
Midterm 2 review (Chapter 3)	Mon 21 Oct and Tue 22 Oct, in class
Midterm 2 (in-class portion)	Thu 24 Oct, in recitation
Midterm 2 (take-home portion)	due Tue 29 Oct, by 8:05AM, in recitation
Veteran's Day holiday	Mon 11 Nov
Last day to Drop Classes (W)	Fri 15 Nov
Midterm 3 review (Chapter 4)	Mon 18 Nov and Tue 19 Nov, in class
Midterm 3 (in-class portion)	Thu 21 Nov, in recitation
Midterm 3 (take-home portion)	due Tue 26 Nov, by 8:05AM, in recitation
Thanksgiving holiday	Thu 28 Nov and Fri 29 Nov
Final Exam review (Chapters 2–5)	Wed 11 Dec, Thu 12 Dec, Fri 13 Dec, in class
Classes end	Fri 13 Dec
Final Exam	Mon 16 Dec, 10:30AM–12:30PM, Ladd 107

**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](mailto: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 or cognitive 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, contact Student Disability Services at 231-7671 or go to <http://www.ndsu.edu/counseling/disability.shtml>.

**ACADEMIC HONESTY:** Academic dishonesty will not be tolerated in this class. For instance, the following are forbidden: unauthorized collaboration on quizzes or exams, use of unauthorized materials on quizzes or exams, falsifying documentation for absences, falsifying quiz or exam records. This list is not exhaustive; see also NDSU Policy 335: Code of Academic Responsibility and Conduct and/or <http://www.ndsu.edu/academichonesty/>.

Any student found guilty of academic dishonesty will receive a grade of 0 for the quiz or exam in question. In addition, every such student will be reported to the Chair of Mathematics, the Dean of their major college, the Dean of the College of Science and Mathematics, the Provost, and the Registrar. The Registrar will add any such student to NDSU's Student Academic Misconduct Database. (Multiple entries in this database may result in additional sanctions from NDSU.) Students found guilty of a second offense of academic dishonesty in this class will also receive a course grade of F, and will not be allowed to drop or withdraw from the course.

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