

Calculus I

Math 171.501

Fall, 2009

MWF 10:20–11:10 (BLOC 164), T 3:55–4:45 (BLOC 160)

Instructor: Prof. Thomas Vogel

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Course homepage: www.math.tamu.edu/~tvogel/171.html. There will be many useful things posted on this page including assignments, old exams, and all material handed out in class. Be sure to check this at least once or twice a week.

Office hours: TR 10:30–11:30, WF 2:00–3:00 or by appointment (talk to me after class). Just dropping in is okay, too, although I can't guarantee that I'll be there outside of my office hours. If you're running into problems, the sooner you come by and get them fixed, the happier we'll both be. I often keep my office door closed, because the hallway outside can get noisy. That doesn't mean I'm not glad to see students: just knock.

Text: *Calculus: Early Vectors*, by Stewart.

Prerequisites: Math 150 (pre-calculus), or satisfactory performance on a placement exam.

Course content: Functions, vectors, limits, derivatives and applications of derivatives, transcendental functions, Mean Value Theorem, max-min problems, integrals.

Course objectives: (from the Math department) Math 171 is the first of a three semester calculus sequence, which is taken, for the most part, by math, physics, and chemistry majors. The department expects that students passing 171 be able to handle routine calculations, i.e., limits, derivatives, max-min problems, and calculations of basic integrals using the fundamental theorem of calculus. We expect students to be able to state (write) and apply basic definitions and major theorems. Students are also expected to be able to supply simple proofs, e.g., some of the limit theorems, some of the rules of differentiation, and applications of the intermediate and mean value theorems.

Grading:

3 tests, 100 points each	for	300 pts.
Final exam		185 pts.
Homework		85 pts.
Attendance		30 pts.

Final grade:

540-600	=	A
480-539	=	B
420-479	=	C
360-419	=	D
0-359	=	F

(I have been known to curve final grades if I feel that it is warranted.)

Homework: Homework will be due on Tuesdays at the beginning of class, except for weeks during which there is a test. Late homework that is a week or less late will have 20% deducted. Homework that is more than a week late will not be accepted. Your lowest homework score will be dropped and a percentage computed from the rest in determining the homework portion of your final grade (i.e., homework points may not equal test points). Discussing homework with me or your classmates is okay, but passing off someone else's work as your own is plagiarism, and is a violation of the Aggie Honor Code.

Where to go for help: There will be a help session room specifically for first semester calculus: I will announce time and place as soon as it's decided. I'm always glad to help students during my office hours (*That's what they're there for!*), and other times by appointment. Also, the math department keeps a list of tutors (ask at one of the department offices, either 6th floor of Blocker or 1st floor of Milner).

Tests: Tests will be given on 9/29, 11/3, and 12/1 with reviews to be given on the previous Sundays with locations and times to be announced. The sections covered on a test will be announced well before the test is given. Complaints about test grades *must* be made within two weeks of when the test is returned to the class. Beyond that time, the grade will not be changed. If you must miss a test due to a University excused absence (see <http://student-rules.tamu.edu/rule07>) notify me before the test if possible, but at the latest by the end of the second working day following the absence. Otherwise I'm under no obligation to write a make-up exam. **Lowest grade:** I will give you a break on your lowest test grade if you show me that you understand the corresponding material on the final. Specifically, I will find your lowest test grade and compute the percentage of points obtained on questions on the final related to your lowest test. If that percentage is higher than your grade on the hour exam, I'll raise the grade on your lowest test, *but no higher than your second lowest test grade*. This is designed specifically to help the student who does well on two of the hour exams, but not so well on the third. If you do badly on two exams, you're on your own.

Bluebooks: Please turn in to me four 8 1/2 by 11 blank bluebooks (not even your name on them) before the day of the first exam.

Attendance: You are expected to attend all class sessions. (The Tuesday afternoon class is a regular class session.) After two unexcused absences, each unexcused absence will cost you 2 points from the 30 attendance points in the final grade. See <http://student-rules.tamu.edu/rule07> for specifics regarding University excused absences. Being late to class counts as an absence. For an absence due to illness or injury of fewer than three business days, I will accept the form at <http://attendance.tamu.edu>.

The final exam will be Tuesday, 12/15, 8:00 a.m.-10:00 a.m.

Syllabus: Here is a rough week by week outline:

Week of: Sections

8/31: trig review,
1.1, 1.2

9/7: 1.3, 2.1, 2.2, 2.4

9/14: 2.3, 2.6, 2.5.

9/21: 2.7, 3.1, 3.2

9/28: 3.4, 3.5.

There is an exam Tuesday.

10/5: 3.6, 3.7, 3.8, 3.9

10/12: 3.9, 3.10, 3.11, 3.12

10/19: 4.1, 4.2, 4.3, 4.4

10/26: 4.6, 4.8

11/2: 5.1, 5.2

There is an exam Tuesday.

11/9: 5.3, 5.5

11/16: 5.7, 6.1

11/23: 6.2, 6.3

Thanksgiving

11/30: 6.4, 6.5.

There is an exam Tuesday.

12/7: review

12/7 and 12/8 are redefined days.

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Academic integrity: An Aggie does not lie, cheat, or steal, or tolerate those who do. I take academic dishonesty quite seriously, and will prosecute any violation of the Aggie honor code that I think I can prove. For more information on the honor code, please refer to <http://www.tamu.edu/aggiehonor>.