INSTRUCTOR: Yulia Hristova
OFFICE: Lind Hall 356; tel. (612) 626-0359;
EMAIL: hristova@ima.umn.edu
WEB: http://www ima.umn.edu/ hristova
OFFICE HOURS: M 11:00 am – 12:15 pm, W 4:30 pm – 5:45 pm, Lind Hall 356
TEXT: James Stewart, Calculus Early Transcendentals, 7th Edition, volume 1
LECTURES: MWF 9:05 pm – 9:55 pm, AndH 210

RECITATIONS:
Section 011 T Th 8:00 am - 8:50 am, VinH 113 Juliann Leifeld
Section 012 T Th 8:00 am - 8:50 am, VinH 211, Heidi Andersen
Section 013 T Th 8:00 am - 8:50 am, AkerH 327, Amit Sharma
Section 014 T Th 9:05 am - 9:55 am, VinH 113 Juliann Leifeld
Section 015 T Th 9:05 am - 9:55 am, VinH 211, Heidi Andersen
Section 016 T Th 9:05 am - 9:55 am, AkerH 327, Amit Sharma

COURSE OVERVIEW: Tangent lines; limits and continuity; differentiation: definition, basic rules, chain rule, rules for trig, exp and log functions; implicit differentiation; rates of change, max-min, related rates problems; 2nd derivative test; curve sketching; linear approximation and differentials; L'Hopital’s rule; integration: definition, antidifferentiation, area; simple substitution; volumes of solids by cross sections and shells; work; average value of a function. (4 credits, 3 lectures + 2 recitations per week)

PREREQUISITES: 4 years of high school math, including trigonometry, or C- in Math 1151 or 1155, or placement exam. Credit will not be granted if credit has been received for: MATH 1142, MATH 1281, MATH 1371, MATH 1471, MATH 1571H;

Caution: Students without an adequate background in trigonometry should NOT take Math 1271. A deficiency with trigonometry will not show up early in the course, however, by the time difficulties become overwhelming it will be too late to switch to Math 1151. Also, students with some calculus background (e.g., from high school) might, on the basis of easily grasping the early part of the course, create a defective study routine that will not suffice later in the course.

GRADING POLICY: Grades will be based on homework assignments, three 50-minute midterm exams, and a 3-hour comprehensive final exam. Requests for regrading midterm exams and homework must be in writing and within one week after the items in question have been returned to the class.

<table>
<thead>
<tr>
<th></th>
<th>Homeworks</th>
<th>3 Midterm Exams</th>
<th>Final Exam</th>
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<tbody>
<tr>
<td>points</td>
<td>100 points</td>
<td>540 points (180 each)</td>
<td>360 points</td>
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<tr>
<td>percentage of grade</td>
<td>10%</td>
<td>54% (18% each)</td>
<td>36%</td>
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</tbody>
</table>

Homework and midterm points are your "course points". During the semester, there will be opportunities for earning extra course points.
The final exam is a common exam for all sections of Math 1271; it will be given on Friday, December 16, from 1:30 pm to 4:30 pm. You will NOT be allowed to take the final exam at any other time. Your grade for the class will depend on how your score in the final exam compares with the scores of the 1400+ students from all sections. However, if your cumulative score is at least 90% you are guaranteed an A, if your score is at least 75% you are guaranteed a B-, and if your score is at least 60% you are guaranteed a C- for the class. The final exam will have two parts, one consisting of "multiple choice" questions, and another consisting of problems that require a complete written solution. The midterms, however, will consist of only problems for which you have to write down a complete solution.

The midterm exams will be given in your recitation sections, according to the following schedule (subject to change):
Exam 1 Thursday, October 6
Exam 2 Thursday, November 3
Exam 3 Thursday, December 1

Homework assignments will be given weekly. Each homework assignment will be posted on my web page along with its due date. If the assignment is turned in after the due date it will be considered late. Late assignments will not be accepted. At the end of the semester the lowest homework score will be dropped.

I will provide a list with suggested exercises in the first week of the semester. The midterm exams will consist of problems similar to those and the ones assigned for homework.

MISSED EXAMS POLICY: Missing an exam is permitted only for very serious and unavoidable extenuating circumstances, and only if you notify your instructor (not the TA) in advance. In all cases of absence from exams a written excuse is required. Otherwise you will get a score of 0 on the exam. Even if you are excused from taking a midterm exam, you will not be given a make-up. Instead, the following procedure will apply: at the end of the semester, two grades will be computed for a student who missed a midterm, and the highest of the two grades will be the one awarded for the class; the first grade will be determined by giving appropriate extra weights to the other two midterm exams, while the second grade will be determined by giving extra weight to the final exam. Except in truly exceptional situations, a student who misses the final exam will fail the course.

CALCULATORS: During exams and quizzes you will be allowed to use "scientific" calculators, but NOT graphing calculators. A scientific calculator is one that can calculate the values of standard functions, but cannot display the graphs of functions, or perform symbolic manipulations.

ATTENDANCE: Attendance will not be taken into account towards the final grade for this class, however it is very highly recommended. You are responsible for all material covered in class and all assignments. Experience shows that poor attendance most often results in a poor grade.

OFFICIAL UNIVERSITY GRADING STANDARDS:
A – Achievement that is outstanding relative to the level necessary to meet course requirements.
B – Achievement that is significantly above the level necessary to meet course requirements.
C – Achievement that meets the course requirements in every respect.
D – Achievement that is worthy of credit even though it fails to meet fully the course requirements.
S – Achievement that is satisfactory, which is equivalent to a C- or better (achievement required for an S is at the discretion of the instructor but may be no lower than a C-).
I – (Incomplete) Assigned at the discretion of the instructor when, due to extraordinary circumstances, e.g., hospitalization, a student is prevented from completing the work of the course on time. Requires a written agreement between instructor and student.
F (or N) – Represents failure (or no credit) and signifies that the work was either (1) completed but at a level of achievement that is not worthy of credit or (2) was not completed and there was no agreement between the instructor and the student that the student would be awarded an I.
See http://www3.crk.umn.edu/info/policies/grading.htm for more information on the grading standards.

INCOMPLETES: These will be given only in extraordinary circumstances. More precisely, I will consider giving you an incomplete if you have successfully completed all but a small portion of the work of the course and some severe, unexpected event prevents you from completing the course. This means that you must have taken at least 2 midterms and must be doing work at the C level or better. You will have to sign a contract detailing what you have to do to complete the course. I will not give you an incomplete simply because you are behind in your work; in the latter case you should try to drop the course.

S/N GRADE: If you are registered S/N, I will submit a grade of S if your letter grade is C or above, and otherwise a grade of N.

ACADEMIC DISHONESTY: Academic dishonesty in any portion of the academic work for a course shall be grounds for awarding a grade of F or N for the entire course.
Here is the official policy of the College of Science and Engineering concerning scholastic conduct (see: http://it.umn.edu/students/policies/acad_integrity.html). CSE expects the highest standards of honesty and integrity in the academic performance of its students. Any act of scholastic dishonesty is regarded as a serious offense that will result in a sanction being imposed, and may result in expulsion. Scholastic dishonesty is defined as: submission of false records of academic achievement; cheating on assignments or examinations; plagiarizing; altering, forging, or misusing a University academic record; taking, acquiring, or using test materials without faculty permission; and acting alone or in cooperation with another to falsify records or to obtain dishonest grades, honors, awards, or professional endorsement. Aiding and abetting a student in an act of scholastic dishonesty is also considered a serious offense.

GETTING HELP: If you have any questions about the material or need help on the homework assignments, please do not hesitate to contact me or the teaching assistants and use our office hours. There is also a tutoring service available. See tutoring resources at http://www.math.umn.edu/undergrad/.

COMMUNICATION AND ELECTRONIC DEVICES USAGE IN CLASS: The use of mobile communication devices and music players disrupts the class. Please be considerate of both your fellow students and your instructor and either turn-off or silence your cell phones, pagers, PDAs, or similar communication devices and turn-off and put away your music players during scheduled classes. Given the fact that these same communication devices are an integral part of the University’s emergency notification system, an exception to this policy would occur when numerous devices activate
simultaneously. When this occurs, students may consult their devices to determine if a university emergency exists. If that is not the case, the devices should be immediately returned to silent mode and put away.

STUDENT SERVICES: The University of Minnesota is committed to providing all students equal access to learning opportunities. Disability Services (DS) is the campus office that works with students who have disabilities to provide and/or arrange reasonable accommodations. Students who have, or think they may have, a disability, are invited to contact DS to arrange a confidential discussion at 612-626-1333 (V/TTY) or ds@umn.edu. Students registered with DS, who have a letter requesting accommodations, are encouraged to contact the instructor early in the semester to discuss accommodations outlined in their letter. Additional information is available at the DS website http://ds.umn.edu.

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce your ability to participate in daily activities. University of Minnesota services are available to assist you with addressing these and other concerns you may be experiencing. You can learn more about the broad range of confidential mental health services available on campus via www.mentalhealth.umn.edu.

COMPLAINTS:
You can address any complaints about your TA to me. You can address complaints about your lecturer to Adrian Diaconu (cad@math.umn.edu), the course coordinator.

<table>
<thead>
<tr>
<th>Week</th>
<th>Days</th>
<th>Sections covered</th>
<th>Exams</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>09/07 &amp; 09/09</td>
<td>Chapter 1 Misc.</td>
<td>09/05 (Mon, Labor day)</td>
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<tr>
<td>2</td>
<td>09/12 &amp; 09/14 &amp; 09/16</td>
<td>2.1, 2.2, 2.3</td>
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<td>3</td>
<td>09/19 &amp; 09/21 &amp; 09/23</td>
<td>2.4, 2.5, 2.6</td>
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<tr>
<td>4</td>
<td>09/26 &amp; 09/28 &amp; 09/30</td>
<td>2.7, 2.8, 3.1</td>
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<tr>
<td>5</td>
<td>10/03 &amp; 10/05 (Short Review) &amp; 10/07</td>
<td>3.2, 3.3</td>
<td>10/06 (Th) Midterm I</td>
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<tr>
<td>6</td>
<td>10/10 &amp; 10/12 &amp; 10/14</td>
<td>3.4, 3.5, 3.6</td>
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<td>7</td>
<td>10/17 &amp; 10/19 &amp; 10/21</td>
<td>3.9, 3.10, 4.1</td>
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<td>8</td>
<td>10/24 &amp; 10/26 &amp; 10/28</td>
<td>4.2, 4.3, 4.4</td>
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<td>9</td>
<td>10/31 &amp; 11/02 (Short Review) &amp; 11/04</td>
<td>4.5, 4.7</td>
<td>11/03 (Th) Midterm II</td>
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<td>4.8, 4.9, 5.1</td>
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<td>11/14 &amp; 11/16 &amp; 11/18</td>
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<td>5.2, 5.3</td>
<td>11/24, 11/25 (Th, Fri, Thanksgiving)</td>
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<td>13</td>
<td>11/28 &amp; 11/30 (Short Review) &amp; 12/02</td>
<td>5.4, 5.5, 6.1</td>
<td>12/01 (Th) Midterm III</td>
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<td>6.1, 6.2, 6.3</td>
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<tr>
<td>15</td>
<td>12/12 &amp; 12/14</td>
<td>6.5 and Review</td>
<td>12/16 (Fri) Final</td>
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Tentative lecture schedule, subject to change: