Instructor Name: Daniel Yorgov
Office: Fisher Hall 320B
Office Phone: 906-487-2175
Meeting time: TR 2:05-2:55, EERC 103
Office Hours: M 2:00-3:00 W 4:00-5:00 R 3:00-4:00 or by appointment
Help Session: T 3:00-4:00, EERC 214 (EERC 103 if available)
Email: dvyorgov@mtu.edu
Course email: MA3520-L@mtu.edu
Web: www.mathlab.mtu.edu/~dvyorgov/MA3520
WebCT: courses.mtu.edu


Course Objectives:
This course develops ODE based mathematical models for numerous physical situations. In addition to the development of the models, the course presents fundamental material on solution methods and applications of ordinary differential equations. This material motivated the development of calculus by Newton and Liebnitz and forms the foundation of a large fraction of engineering and science curricula.

Course Expectations:
Students in MA3520 are expected to:
- Attend every class.
- Prepare for class each day. This means that you should read the section being discussed that day, as well as complete all homework assignments once we have finished the section. You should expect to spend a minimum of 2 hours outside of class for every one hour of class time.
- Take detailed notes in class, and review these notes as part of your class preparation.
- Have mastered the prerequisite skills for the course – you should be able to: differentiate, integrate, and use some techniques of linear algebra.
- Ask questions if something is not clear. This includes asking questions in class, as well as seeing me during the office hours.
- Turn in all assignments on time, showing neat and logical work.

SEEK HELP BEFORE IT’S TOO LATE!
Help is available from many different sources, including:
- My office hours or by appointment;
- Weekly HW help session;
- The Mathematics Learning Center (MLC) in Fisher 128: walk-in hours or personal appointments;
- Fellow classmates.

Attendance:
Attendance and participation are crucial to your success in this course. I will be counting on you to be in class and to be prepared.
Please notify me well in advance if you know that you will have an EXCUSED absence from a test. If you become ill and can’t take a test, let me know as soon as possible.
Dropping a Course:
- Last day to drop full semester courses with a refund: Wednesday, September 10
- Last day to drop full semester courses without a grade: Friday, September 19
- Last day to drop full semester courses with a grade of 'W': Friday, October 24

Homework:
- Homework set is assigned automatically from the attached schedule when I finish a section. The homework for the PREVIOUS week is due on Thursday, next week at the beginning of class.
- The sections to be covered and the HW problems due are in the Tentative Schedule.
- If a homework set (from a SINGLE section of the text) takes more than one sheet of paper, then they should be stapled together.
- Each HW section (e.g. 1.1) must be kept separated (i.e. do not staple together with 1.2).
- When I collect HW there will be two folders: one for students with a last name starting with letters A through L and another one for students with a last name starting with letters M through Z. Please make sure that you put your HW in the correct folder otherwise your HW might be lost or it might be graded much later.
- A subset of 4 problems for each section will be chosen to be graded. Each homework section is worth 12 points. Each problem is worth 3 points.
- All homework within the set will be checked for completeness. The grader can decide to penalize you for problems that you have skipped even if they are not in the graded subset.
- Problems done out-of-sequence may not be graded.
- Strictly NO LATE homework will be accepted unless it is late due to an excused absence.
- For each problem, restate the problem, show your analysis, and clearly identify the answer to the question. All of your work must be neat, legible and logical. Answers not showing the supporting work will receive zero credit.

Exams:
Two exams and a comprehensive final exam will be given. All exams during the semester will be given during the regularly scheduled class time. There will be NO EARLY OR LATE FINALS. Do not make plans to leave early at the end of the semester until the final exam schedule has been announced.

Grading:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 One-hour exams</td>
<td>50%</td>
</tr>
<tr>
<td>HW</td>
<td>25% - the lowest grade will be dropped</td>
</tr>
<tr>
<td>Final</td>
<td>25%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100%</td>
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</tbody>
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Scale: Your final grade will be based on the following scale:

- ≥ 90%: A
- 85% - 89.9%: AB
- 80% - 84.9%: B
- 75% - 79.9%: BC
- 70% - 74.9%: C
- 65% - 69.9%: CD
- 60% - 64.9%: D
- < 60%: F

If you have a disability that could affect your performance in this class or that requires a special accommodation, please see me as soon as possible so that we can make the appropriate arrangements. The Affirmative Action Office has asked that you be made aware of the following:

“MTU complies with all federal and state laws and regulations regarding discrimination, including the ADA Act of 1990. If you have a disability and a need, a reasonable accommodation for equal access to education or services can be made through the Dean of Students Office (Gloria Melton 487-2212). For concerns regarding discrimination of any kind, please contact your advisor, department head, or affirmative action office.”