

**Course Syllabus**  
**MA3520 – Introduction to Ordinary Differential Equations**  
**College of Science and Arts**  
**Spring 2016**

***Instructor Information***

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Instructor: Allan Struthers  
<http://www.math.mtu.edu/~struther/>  
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Office Hours: 8:00am – 9:00am T/Th  
10:00am – 11:00am T/Th  
3:00pm – 4:00pm M/W/F

***Course Identification***

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Course Number: Ma3520-R03  
Course Name: Elementary Differential Equations  
Course Location: 135 Fisher Hall  
Class Times: T/Th 11:05pm – 11:55pm  
Prerequisites: Linear Algebra

***Course Description/Overview***

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First order equations, linear equations and systems of equations.

***Course Learning Objectives***

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Ordinary Differential Equations (ODE) terminology. Solution techniques for: Systems of ODEs; 1<sup>st</sup> order ODE and models; higher order ODEs and models.

***Course Resources***

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**Course Website(s)**

- Canvas <<http://www.courses.mtu.edu>>
- Course Directory <<http://www.math.mtu.edu/~struther/Courses/3520>>

**Required Course Text:** A First Course in Differential Equations, Dennis G. Zill New to the course this year will be WebAssign homework. The platform also includes an electronic version of the text and other resources. Videos and registration instructions are on the information page

<https://mtu.instructure.com/courses/1081120/pages/webassign>.

Our course key is mtu 9324 6833. You need a calculator capable of computing eigenvalues and eigenvectors. Any calculator that can do the linear algebra is OK.

## **Grading**

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**Cut offs for A/B/C/D are 90/80/70/60**

**Late Assignments: only accepted for medical and university travel.**

HW/Quizzes (written)	10%
HW (online)	10%
Exam 1	20%
Exam 2	20%
Exam 3	20%
Final	20%

## **Course Policies**

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Working together on HW is encouraged. You need to make sure that you understand your individual submissions. Exams are individual exercises you need to complete without external assistance. Exam dates and schedule to be determined.

## **Collaboration/Plagiarism Rules**

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You are not allowed to collaborate on exams. Exam dates and schedule to be determined.

## **University Policies**

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Student work products (exams, essays, projects, etc.) may be used for purposes of university, program, or course assessment. All work used for assessment purposes will not include any individual student identification.

Michigan Tech has standard policies on academic misconduct and complies with all federal and state laws and regulations regarding discrimination, including the Americans with Disabilities Act of 1990. For more information about reasonable accommodation for or equal access to education or services at Michigan Tech, please call the Dean of Students Office, at (906) 487- 2212 or go to

[http://www.mtu.edu/ctl/instructional-resources/syllabus/syllabus\\_policies.html](http://www.mtu.edu/ctl/instructional-resources/syllabus/syllabus_policies.html)

## **Course Schedule**

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**The academic calendar is online at**

<http://www.mtu.edu/registrar/students/calendars/academic/>