

# Syllabus for Math 320, Differential Equations

## Welcome!

I am Dr. Robert Kreczner, and I will be your teacher. I am delighted to welcome everybody to Math 320, Differential Equations, Spring 2021. **This is a virtual course, and we will be meeting via Zoom on Mondays, Wednesdays, and Fridays, 11 am to 11:50 am.** I am confident you will enjoy learning the course material, and I am also sure you will complete the course successfully.

## What is Expected from You

What is expected from You:

1. Participate in all Zoom meetings unless having explicit excuse from me.
2. You should have wi-fi, and your computer should be equipped with a microphone and camera.
3. Do all posted assignments, quizzes, homework, exams, discussions, etc., before or on the specified due date.
4. Be able to convert your handwritten assignments to pdf files, for example, using your phone.
5. Check Canvas at least once a day, Monday through Friday.

## Contacts and Information about the Teacher


- Name: Dr. Robert Kreczner
- To contact me please use only this email: [rkeczne@uwsp.edu](mailto:rkeczne@uwsp.edu)
- **Important: When sending me an email, please include Math 320 in its subject line.**
- You can also set up a Zoom meeting with me

## Office Hours

Monday, Tuesday, Thursday, Friday, 3:00 pm to 3:50 pm. During this time you can reach me via Zoom. If the time is not convenient, you may set up a different time with me.

Here is a link to Zoom office hours:

Join Zoom Meeting

<https://uwsp.zoom.us/j/98039370862?pwd=MEpiRlpUYkFzOUJ5ZmZLWC8rdWV5dz09> 

Meeting ID: 980 3937 0862

Passcode: 234799

# Textbook

## A First Course in Differential Equations with Modeling Applications

Dennis G. Zill

## What We will Study

**Course Description:** Study of first and higher-order differential equations and their applications to modeling of problems in physics, chemistry, electric circuits, and population dynamics. The course will also include the Laplace Transformation. Additionally, systems of linear first-order differential equations, series solutions, and numerical methods may also be included.

**Prerequisites:** Math 222

**Contents:** Chapters 1 through 5, and 7. Additionally, chapters 6, 8, and 9 might be included, too, if the time permits. Some sections might be omitted.

The above objectives align with the following Program Learning Outcomes of the Department of Mathematical Sciences:

- Problem Solving – Students can apply problem-solving techniques in new situations.
- Mathematical Techniques – Students will demonstrate a set of mathematical techniques and be able to use them in suitable situations.
- Patterns – Students can recognize, characterize, and generalize patterns using mathematical language.
- Communication – Students can accurately interpret, clearly write, and orally express mathematical concepts in a variety of settings. This includes mathematical terminology, mathematical theorem, and mathematical proofs.

# Homework Assignments and Exams

- A homework assignment will be given every week. It will be posted every Monday, and it will be due Sunday. The problems will be taken from the covered sections in the textbook.
- Weekly exams will be due every Wednesday.

## Grading Policy

Homework Assignment 25% , Weekly Exams 70%, and attendance of virtual Zoom classes 5%

| Name: | Range: |         |
|-------|--------|---------|
| A     | 100%   | to 94 % |
| A-    | < 94%  | to 90 % |
| B+    | < 90%  | to 87 % |
| B     | < 87%  | to 84 % |
| B-    | < 84%  | to 80 % |
| C+    | < 80%  | to 77 % |
| C     | < 77%  | to 74 % |
| C-    | < 74%  | to 70 % |
| D+    | < 70%  | to 67 % |
| D     | < 67%  | to 64 % |
| F     | < 64%  | to 0 %  |