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# MATH 267 – Section N

## Elementary Differential Equations and Laplace Transforms

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### Syllabus / Course Outline<sup>1</sup> – Spring 2014

**Instructors:**

Dr. Miriam Castillo-Gil – Carver 386 – [miriamc@iastate.edu](mailto:miriamc@iastate.edu)

Office Hours: Office Hours: MR @ 11-12 PM, T @ 1–2 PM (or by appointment)

Dr. Kristopher Lee – Carver 445 – [leekm@iastate.edu](mailto:leekm@iastate.edu)

Office Hours: MWF @ 12–1 PM, TR @ 1–2 PM (or by appointment)

**Lectures:**

Lecture will be on MTRF @ 10:00-10:50 AM in Durham 0171.

This course is *team taught*, and taught concurrently with MATH 266.

**Course Text:**

Fundamentals of Differential Equations and Boundary Value Problems (Sixth Edition) by Nagle, Saff, and Sinder – ISBN 0-321-74774-7.

Suggested problems from the book will be posted on [Blackboard Learn](#).

**Course Description (from the ISU Catalog):**

Solution methods for ordinary differential equations. First order equations, linear equations, constant coefficient equations. Eigenvalue methods for systems of first order linear equations. Introduction to stability and phase plane analysis. Laplace transforms and series solutions to ordinary differential equations.

Use the following link for a more detailed list of [course objectives for MATH 267](#).

**Grading Policy:**

Your grade will be computed as follows:

|     |   |
|-----|---|
| 36% | Quizzes (4 total, 9% each, tentative dates: ) |
| 45% | Exams (3 total, 15% each, tentative dates: )  |
| 19% | Final Exam                                    |

Letter grades will be assigned as follows (plus and minus grades will be assigned according to the instructors' discretion):

|                |             |             |             |             |          |
|----------------|-------------|-------------|-------------|-------------|----------|
| Letter Grade   | A           | B           | C           | D           | F        |
| Percent Earned | $\geq 90\%$ | $\geq 80\%$ | $\geq 70\%$ | $\geq 60\%$ | $< 60\%$ |

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<sup>1</sup>This document is subject to adjustment by the instructors, with notice given to the students.

**Quizzes:**

There will be four quizzes given during lecture, and will be worth 9% each.

**Exams:**

There will be three exams given during lecture, and will be worth 15% each.

**Final Exam:**

There will be a departmental final exam, time and place as determined by the registrar.

**Calculators and Other Electronic Devices:**

You may use any calculator that does not have wireless communication features (such as the TI-89 Titanium). Calculators are permitted on all quizzes and exams; however, *the Instructors reserve the right to inspect calculators during quizzes and exams.* Other electronic devices, such as laptops, iDevices, etc., may be used during lecture for *educational purposes only.*

**Disabilities:**

If you have a documented disability that requires assistance, you will need to go to the Disability Resource (DR) Office for coordination of your academic accommodations. The DR is located in the Student Services Building, Room 1076. Their phone number is 515-294-6624. *No retroactive accommodations will be provided in this class.*

**Conduct and Academic Dishonesty:**

We expect all students to behave in a respectful manner during lecture, and *you will be asked to leave the lecture if you are being inappropriate and/or disruptive.* For more information, including make up policies, see the [Class Policies](#) provided by the Department of Mathematics.

**Tentative Course Schedule**

| Week | Dates       | Monday              | Tuesday       | Thursday      | Friday        |
|------|-------------|---------------------|---------------|---------------|---------------|
| 1    | 1/13 – 1/17 | 1.1                 | 1.2           | 1.3/1.4       | 2.1           |
| 2    | 1/20 – 1/24 | <b>No Class</b>     | 2.2           | 2.3           | <b>Quiz 1</b> |
| 3    | 1/27 – 1/31 | 2.4                 | 2.6           | 3.1/3.2       | 3.3           |
| 4    | 2/3 – 2/4   | <b>Review</b>       | <b>Exam 1</b> | 4.1           | 4.2           |
| 5    | 2/10 – 2/14 | 4.2                 | 4.3           | 4.3           | 4.4           |
| 6    | 2/17 – 2/21 | 4.4                 | 4.5           | 4.6           | <b>Quiz 2</b> |
| 7    | 2/24 – 2/28 | 4.9                 | 4.9/4.10      | 4.10          | 6.1–6.3       |
| 8    | 3/3 – 3/7   | <b>Review</b>       | <b>Exam 2</b> | 5.1/5.2       | 9.1           |
| 9    | 3/10 – 3/14 | 9.2                 | 9.3           | 9.3           | 9.4           |
| 10   | 3/17 – 3/21 | <b>Spring Break</b> |               |               |               |
| 11   | 3/24 – 3/28 | 9.5                 | 9.6           | <b>Quiz 3</b> | 9.7           |
| 12   | 3/31 – 4/4  | 9.7                 | 9.8           | 9.8           | <b>Review</b> |
| 13   | 4/7 – 4/11  | <b>Exam3</b>        | 7.1           | 7.2           | 7.3           |
| 14   | 4/14 – 4/18 | 7.4                 | 7.5           | 7.6           | 7.7           |
| 15   | 4/21 – 4/25 | 7.8                 | <b>Quiz 4</b> | 8.1           | 8.2           |
| 16   | 4/28 – 5/2  | 8.3                 | 8.3           | <b>Review</b> | <b>Review</b> |
| 17   | 5/5 – 5/9   | <b>Final Exams</b>  |               |               |               |