# Differential equations: Syllabus

#### Samy Tindel

Purdue University

#### Differential equations - MA 266

## Outline





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# My Purdue information

#### History:

- Second year as Professor at Purdue
- Before that: in Nancy (France)

Office: 434, Math building

Email: stindel@purdue.edu

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Google Antonio Namey	
New York	
States States	Parents

Office hours: Tuesday 4:30-5:30pm & Thursday 3-4pm

Webpage: https://www.math.purdue.edu/~stindel/

# Advertising differential equations

#### Differential equations:

- Interesting from a mathematical point of view.
- Crucial for engineering.

Great names related to the field:

- Newton
- Leibniz
- Bernoulli
- Euler
- Laplace
- Legendre
- Computers

## Brief outline of the course

Chapters covered: from Boyce-Di Prima 10th edition

- Introduction to differential equations.
- Irist order differential equations.
- Second order differential equations.
- Itigher order differential equation.
- Laplace transform.
- Systems of differential equations.
- Numerical methods.

Remark: Fast pace!

## Outline





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# Webpage

Course webpage: to be consulted often

www.math.purdue.edu/MA266

Contents:

- Course-wide announcements
- Instructor contact information
- Assignment Sheet
- Supplementary Problems
- Computer Projects
- MATLAB tutorials

# Homework and exams

Homework:

- Both hand-graded and online homework problems
- Online homework is accessed through WebAssign
- Due dates accessed through WebAssign
- Grader: Siqin Wei, wei118@purdue.edu

Quizzes:

- Will be decided later, according to pace
- 2 midterms: Both multiple choice
  - 2/23, 6:30-7:30pm, ME1061
  - 3/30, 6:30-7:30pm, ME1061

Final exam:

- Two-hours comprehensive multiple choice
- During the final exam week (May 1–6)

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## Homework with WebAssign

Sign up for web assignments:

http://www.webassign.net/purdue/login.html (Click here)

More information:

• On the course webpage

## Grades

#### Total score calculation:

- Homework/Projects/Quizzes 200 pts.
- 2 Midterm exams at 100 pts. each 200 pts.
- Final Exam (comprehensive) 200 pts.

### Homogenization of grades:

- The number of particular letter grades (A, B,. . .) in each section is based on the Final Exam Score across all sections of the course by using a course–wide Final Exam curve.
- The letter grades within each section are then determined based on the Total Score.

Calculators: not allowed on exams.

### Attendance

#### Attendance:

- Class attendance is expected, and will be checked.
- A maximum of 4 non justified non-attendances is authorized
- Bonus for correct attendance: +10 on HW
- Strongly recommended:

Reading the sections in the textbook ahead of time

## Withdrawal

Withdrawal policy: write to arshak@purdue.edu and

- **1/23 5pm** Last day to cancel a course assignment without it appearing on record
- 2/6 5pm Last day to withdraw from a course with a W or to add/modify a course
- 3/10 5pm Last day to withdraw from a course with a W or WF

## Other topics

#### Accommodations for students with disabilities:

- Be certified by the Disability Resource Center (DRC) as eligible for academic adjustments on exams or quizzes.
- Contact me.

#### Online course evaluation system:

During the last two weeks of the semester.

### Campus Emergency Notice: see www.math.purdue.edu/MA266 (*Click here*)

### Academic dishonesty:

- Reminder: cheating is not fair to your peers.
- We are committed to reporting any event of this kind.
- See www.purdue.edu/odos (Click here)