



College of Science and Mathematics

Department of Mathematics

## Course Syllabus for Math 2306 Ordinary Differential Equations Spring 2018

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**SI Leader:** Mr. Nicholas Fabiano ([nfabiano@students.kennesaw.edu](mailto:nfabiano@students.kennesaw.edu))

### Student Learning Outcomes:

Upon completing the course, students should be able to:

1. Solve special types of first order ordinary differential equations, including separable equations, linear first order equations, Bernoulli's equation, and/or exact equations.
2. Solve second and higher order homogeneous and nonhomogeneous linear equations and linear systems with constant coefficients by using the methods of undetermined coefficients and variation of parameters, and apply the methods to solve problems in applications.
3. Find Laplace transforms and inverse Laplace transforms and apply these to solve linear differential equations and linear systems.

**Prerequisite:** A grade of "C" or better in Math 2202 (Calculus 2)

### Required Material:

- *Required: Webassign access (comes with a timed e-version of the course textbook)*
- *Optional: Differential Equations with Boundary-Value Problems. D. Zill, etc., 9<sup>th</sup> edition*

**Calculator policy:** The use of calculators (of any kind) is **strictly prohibited**.

**Homework and Classwork:** Homework will be assigned at the end of each section and will be completed via Webassign ([www.webassign.net](http://www.webassign.net)). Use the following code to register for the course:

**kennesaw 6000 8075**

There will be classwork or quizzes to be done and turned in during most class periods. The dates may not be announced in advance, so please attend all lectures.

**Tests:** There will be two (2) tests throughout the semester (not counting the final exam). All test dates will be announced in class. All tests will be *cumulative*; thus you should be prepared to put extra effort to studying for each test. All tests are mandatory, but your lowest test percentage may be replaced by the final exam percentage\*. At most one make-up test may be allowed *at the instructor's discretion*. Its request must be made with valid documented reasons, and, if approved, the make-up test must be taken a **prior** to the scheduled test time. *A make-up test after the scheduled test time will not be given under any circumstances.*

**Final Exam:** Final Exam is *cumulative* and will cover all material presented in class. Again, everyone must take the final exam. The final exam will be held on the last day of classes, Monday, April 30, 2018.

**Grades :** Your final grade in the class is “weighted” using the following percentages:

- 50% Test scores (25% for each of the 2 tests)
- 15% Homework
- 10% Classwork
- 25% Final exam

**Grading Scale:** A = [90, 100], B = [80, 90), C = [70-80), D = [60-70), F = [0,60)

**Attendance Policy:** We have a lot of interesting material to cover throughout the semester, so regular attendance is crucial to your success in the class. Please come *on time* and stay for the duration of the class. If you cannot attend regularly on time and stay for the entire class period, *you should take this class at another time that fits your schedule.*

### **Important Dates:**

- Classes begin: Monday, [Jan 8, 2018](#)
- Holiday: Monday, [Jan 15, 2018](#)
- **Last day to withdraw with a grade of W: [Wednesday, Feb 28, 2018](#)**
- **Spring Break:** Saturday-Friday, Mar 31 – Apr 6, 2018
- Last day of classes: Monday, [Apr 30, 2018](#)

### **Withdrawal:**

Students who find that they cannot continue in college for the entire semester after being enrolled, because of illness or any other reason, need to complete an online form. To completely or partially withdraw from classes at KSU, a student must withdraw online at [www.kennesaw.edu](http://www.kennesaw.edu), under Owl Express, Student Services.

The date the withdrawal is submitted online will be considered the official KSU withdrawal date which will be used in the calculation of any tuition refund or refund to Federal student aid and/or HOPE scholarship programs. It is advisable to print the final page of the withdrawal for your records.

Withdrawals submitted online prior to midnight on the last day to withdraw without academic penalty will receive a “W” grade. Withdrawals after midnight will receive a “WF”. Failure to complete the online withdrawal process will not produce withdrawal from classes. Call the Registrar’s Office at 770-423-6200 during business hours if assistance is needed.

Students may, by means of the same online withdrawal and with the approval of the university Dean, withdraw from individual courses while retaining other courses on their schedules. This option may be exercised up until **[Wednesday, Feb 28, 2018](#)**.

This is the date to withdraw without academic penalty for Summer Term, 2017 classes. Failure to withdraw by the date above will mean that the student has elected to receive the final grade(s) earned in the course(s). The only exception to those withdrawal regulations will be for those instances that involve unusual and fully documented circumstances.

**Note:** *“Students are solely responsible for managing their enrollment status in a class; nonattendance does not constitute a withdrawal.”*

### **Classroom Conduct:**

A collaborative and respectful learning environment is expected and must be maintained. I expect you to come to class with a commitment to learn and to take responsibility for your learning. This includes, but not limited to participating in the discussions and in-class work and helping others to learn. Do not hesitate to ask questions during and/or after class.

*You are responsible for conducting yourself in a manner that respects the right of the instructor as well as the others seeking to learn.*

- Cell phones, iPods/iPads, etc. need to be on mute (except in extenuating circumstances). For all tests (including the final exam), all electronic devices must be turned off and put away.
- Please do NOT talk when the instructor is talking.
- Please come to class prepared to participate.

You may be asked to LEAVE the room for misconduct or inappropriate behavior during class.

### **Academic Integrity:**

Every KSU student is responsible for upholding the provisions of the Statement of Student Rights and Responsibilities, as published in the Undergraduate and Graduate Catalogs. Section II of the Statement of Student Rights and Responsibilities addresses the University's policy on academic honesty, including provisions regarding plagiarism and cheating, unauthorized access to University materials, misrepresentation/falsification of University records or academic work, malicious removal, retention, or destruction of library materials, malicious/intentional misuse of computer facilities and/or services, and misuse of student identification cards.

Incidents of alleged academic misconduct will be handled through the established procedures of the Department of Student Conduct and Academic Integrity (SCAI), which includes an "informal" resolution by a faculty member, resulting in a **grade adjustment**, and/or a formal hearing procedure, which may subject a student to the Code of Conduct's minimal **one semester suspension** requirement.

\*A student caught with academic misconduct will not have his/her lowest test replaced with the final grade.

### **Students with Disabilities:**

Any student with a documented disability or medical condition needing academic accommodations of class-related activities or schedules must contact the instructor immediately. Written verification from the KSU Student Disability Services ([http://www.kennesaw.edu/stu\\_dev/dsss/welcome.html](http://www.kennesaw.edu/stu_dev/dsss/welcome.html)) is required. No requirements exist that accommodations be made prior to completion of this approved University documentation. All discussions will remain confidential.

### **Helpful Study Hints:**

- Do not miss class, and fully focus on each lecture.
- Actively participate in group work. Do not let others do all the work for you.
- Complete your homework as soon as you possibly can.
- Form a study group, if necessary.
- Take advantage the free tutoring lab (SMART center).
- Attend SI sessions regularly.

**Disclaimer:**

The instructor reserves the right to make any changes to the syllabus, if necessary. In such events, students will be notified as early as possible, so any adjustments can be made to their schedules.