

Instructor: Víctor Bermúdez, email address: vebermud@ucsc.edu.

Office Hours: 12:45 - 2:15 TTH, McHenry 1292.

TA: Zheng Zhou, email address: zzho18@ucsc.edu.

Discussion Sections: W 10:00 - 11:30, F 1:00 - 2:30, Soc Sci 1 149.

TA Office Hours: TBD.

Textbook: Elementary Differential Equations and Boundary Value Problems. William E. Boyce, Richard C. DiPrima. UCSC custom edition/10th Edition. John Wiley & Sons, Inc.

Tentative Course Outline:

- Lecture 1: Introduction and first order ODEs. 1.1-1.3, 2.1-2.5.
- Lecture 2: Second order linear equations. (2.6-2.7) 3.1-3.8.
- Lecture 3: Series solutions. 5.1-5.4
- Lecture 4: Midterm. Series solutions II. 5.5-5.7. (Laplace?)
- Lecture 5: Systems of ODEs. 7.1-7.4
- Lecture 6: Systems of ODEs II. 7.5-7.9
- Lecture 7: Nonlinear differential equations and stability. 9.1-9.4
- Lecture 8: Nonlinear differential equations and stability. 9.5-9.8.
- Lecture 9: Review
- Lecture 10: Final exam.

Grading: Midterm 30%, Homework 15%, Quizzes 15%, Final Exam 40%.

Homework and Quizzes: There will be weekly homework due Mondays and a quiz every lecture.

Extra Help: Do not hesitate to come to my or our TA's office hours or make an appointment to discuss a homework problem or any aspect of the course. All UCSC students are eligible for up to 2 hours of tutoring per week and may sign-up for tutoring at <https://eop.sa.ucsc.edu/OTSS/tutorsignup/>. General information about LSS at <http://www2.ucsc.edu/lss/>.

2018 Deadlines

Drop: Monday, August 6

Withdraw: Friday, August 17

Neither Summer Session nor instructors drop students for non-attendance or non-payment. Students must drop themselves. Dropping results in full tuition reversal/refund. Withdraw posts a W for the grade and full tuition is charged (no refund).

For all dates and deadlines, including change of grade option (P/NP) and grades due, here is the summer academic calendar - <https://summer.ucsc.edu/fundamentals/academic-calendar.html>

DRC Accommodations: The Disability Resources Center reduces barriers to inclusion and full participation for students with disabilities by providing support to individually determine reasonable academic accommodations. If you have questions or concerns about exam accommodations, or any other disability-related matter, please contact the DRC office, located in Hahn 125 or at 831-459-2089 or drc@ucsc.edu.

Academic Dishonesty: Academic integrity is the cornerstone of a university education. Academic dishonesty diminishes the university as an institution and all members of the university community. It tarnishes the value of a UCSC degree. All members of the UCSC community have an explicit responsibility to foster an environment of trust, honesty, fairness, respect, and responsibility. All members of the university community are expected to present as their original work only that which is truly their own. All members of the community are expected to report observed instances of cheating, plagiarism, and other forms of academic dishonesty in order to ensure that the integrity of scholarship is valued and preserved at UCSC. In the event a student is found in violation of the UCSC Academic Integrity policy, he or she may face both academic sanctions imposed by the instructor of record and disciplinary sanctions imposed either by the provost of his or her college or the Academic Tribunal convened to hear the case. Violations of the Academic Integrity policy can result in dismissal from the university and a permanent notation on a student's transcript. For the full policy and disciplinary procedures on academic dishonesty, students and instructors should refer to the Academic Integrity page at the Division of Undergraduate Education.

Title IX: The university cherishes the free and open exchange of ideas and enlargement of knowledge. To maintain this freedom and openness requires objectivity, mutual trust, and confidence; it requires the absence of coercion, intimidation, or exploitation. The principal responsibility for maintaining these conditions must rest upon those members of the university community who exercise most authority and leadership: faculty, managers, and supervisors.

The university has therefore instituted a number of measures designed to protect its community from sex discrimination, sexual harassment, sexual violence, and other related prohibited conduct. Information about the Title IX Office, the online reporting link, applicable campus resources, reporting responsibilities, the UC Policy on Sexual Violence and Sexual Harassment and the UC Santa Cruz Procedures for Reporting and Responding to Reports of Sexual Violence and Sexual Harassment can be found at titleix.ucsc.edu.

The Title IX/Sexual Harassment Office is located at 105 Kerr Hall. In addition to the online reporting option, you can contact the Title IX Office by calling 831-459-2462.