Instructor: Nathan Marianovsky  (nmariano@ucsc.edu)

Lectures: MWF 12:00pm - 2:30pm at Soc Sci 2 071

Instructor Office Hours: Wednesdays 10:30am - 11:30am, 3:00pm - 4:00pm & Fridays 10:30am - 11:30am at McHenry 4112 (also by appointment)

Sections: Mondays 3:30pm - 4:30pm at N. Sci Annex 103 & Fridays 3:00pm - 4:00pm at Soc Sci 2 179

TA: Herman Yu (hegyu@ucsc.edu)

TA Office Hours: Mondays 5:00pm - 7:00pm at McHenry 4112


**Tentative Course Outline**

- **Lecture 01:** Introduction (§1.1 - 1.3), First-Order Equations (§2.1 - 2.3)
- **Lecture 02:** First-Order Equations (§2.4 - 2.7), Second-Order Equations (§3.1 - 3.4)
- **Lecture 03:** Second-Order Equations (§3.5 - 3.6), Series Solutions (§5.1 - 5.2)
- **Lecture 04:** Series Solutions (§5.3 - 5.6), Review for Midterm
- **Lecture 05:** Midterm, Series Solutions (§5.7)
- **Lecture 06:** Laplace Transform (§6.1 - 6.3)
- **Lecture 07:** Laplace Transforms (§6.4 - 6.5), First-Order Systems (§7.1 - 7.3)
- **Lecture 08:** First-Order Systems (§7.4 - 7.8)
- **Lecture 09:** First-Order Systems (§7.9), An Excursion into Green’s Function
- **Lecture 10:** An Excursion into the Wave Equation
- **Lecture 11:** An Excursion into Laplace’s Equation
- **Lecture 12:** An Excursion into Schrödinger’s Equation
- **Lecture 13:** Review for Final
- **Lecture 14:** Review for Final
- **Lecture 15:** Final
**Section Policy:** Sections are not mandatory and attendance is not taken. It is however recommended that you attend in order to get help and feedback from the TA whose perspective on approaching problems may provide a different view than the one presented by the instructor.

**Quiz Policy:** Every week you are required to take a quiz and it will be administered during the sections held by the TA. However, with sections not mandatory you are also allowed to take the quiz during the office hours of either the TA or instructor. Furthermore, to ensure fairness to all students, a quiz can only be taken during the week it is administered, i.e. no one is allowed to take Quiz I anytime after Week I.

**Homework Policy:** Every week you will be assigned a set of questions that will be due on Fridays at 5pm. The homework can be either submitted to the instructor on the Friday lecture or left in the homework cabinet found across McHenry 1240 on the first floor of the McHenry building.

**Grading Policy:**
- Quizzes: 15%
- Homework: 25%
- Midterm: 30%
- Final: 30%

**Curving Policy:** The final grades may be curved depending on the average grade of the class.

**Important Dates:**
- Drop Date: Monday, August 5th
- Request for "W": Friday, August 16th

**A Comment on the Above:** 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/studentlife/index.html](https://summer.ucsc.edu/studentlife/index.html). For questions about dropping, requesting a W grade for a course, or withdrawing from the summer quarter, email [summer@ucsc.edu](mailto:summer@ucsc.edu).

**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](mailto:drc@ucsc.edu).

**Academic Dishonesty:** Academic integrity is the cornerstone of a university education. Academic dishonesty diminishes 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](https://diverse.ucsc.edu/academic-integrity/) 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.