This syllabus contains the basic outline of the course organization. For complete details on the course policies, please visit the course Canvas page.

Instructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Prof. Andrey Korytov</th>
<th>Prof. Guido Mueller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office</td>
<td>NPB 2027</td>
<td>NPB 2370</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:phy2049@phys.ufl.edu">phy2049@phys.ufl.edu</a></td>
<td><a href="mailto:phy2049@phys.ufl.edu">phy2049@phys.ufl.edu</a></td>
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For general course inquiries, please use phy2049@phys.ufl.edu. Do not e-mail the lecturers using their personal e-mail accounts.

Office hours

Office hours for the instructors and discussion section leaders are detailed on the course Canvas page.

Course objectives and goals

PHY2049 is a calculus-based introduction to general physics, Part II. Topics covered include electric charge as a fundamental property of matter, electrostatics (Coulomb's Law, electric field, electric potential), EMF, capacitors, currents, resistors, electric circuits, magnetic fields due to currents, magnetic forces, inductors, Maxwell's equations, electromagnetic waves, optics, interference.

Our goal at all times is to help you understand the basic physical principles so that you can develop a deeper vision of the real world around you. In addition to providing the basic theoretical underpinnings to the subject, we use many examples, "concept questions", physical and virtual demonstrations. We also show many examples of everyday tools and advanced instruments that utilize these principles.

Prerequisites

- PHY 2048 (Physics I with calculus) or similar

The course will rely heavily on the following level of math (see textbook Appendix E for details). If you are not competent at this level you should take the appropriate refresher course(s) before taking this class; otherwise, you are bound to fail.

- Algebra, Trigonometry, Analytic Geometry, Vectors
- Calculus 1 and Calculus 2 (co-requisite)
Course schedule

The complete course schedule is available on the canvas page. Note that Exams 1 and 2 are evening assembly exams, whereas the Final Exam is at the time set by the registrar in final’s week.

Grading

Please visit the course Canvas page for a complete description of the grading policy for exams, homework, quizzes, and HITT questions. Homworks and HITT questions will not have makeups - a forgiveness factor will be supplied instead. Your final score (100 points max) is the sum of the following:

- 3 exams: up to 25 points each, 75 points total
- 13 weekly HW assignments\(^1\): up to 5 points
- 11 weekly discussion session quizzes\(^1\): up to 20 points combined
- HITT/Participation points: up to 5 BONUS points

Total minimal scores (out of 100 points) ensuring a particular letter-grade are shown below. In other words, if everyone gets 85 or more, everyone gets an “A.” Do not expect scores to be curved.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Minimum Score</th>
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<tbody>
<tr>
<td>A</td>
<td>( \geq 85 )</td>
</tr>
<tr>
<td>A-</td>
<td>( \geq 80 )</td>
</tr>
<tr>
<td>B+</td>
<td>( \geq 75 )</td>
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<tr>
<td>B</td>
<td>( \geq 70 )</td>
</tr>
<tr>
<td>B-</td>
<td>( \geq 65 )</td>
</tr>
<tr>
<td>C+</td>
<td>( \geq 60 )</td>
</tr>
<tr>
<td>C</td>
<td>( \geq 55 )</td>
</tr>
<tr>
<td>C-</td>
<td>( \geq 50 )</td>
</tr>
<tr>
<td>D+</td>
<td>( \geq 45 )</td>
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Required material

The following material should be acquired as soon as possible

- WileyPlus homework passcode which includes access to the electronic text book
- HITT remote control (the one you used in Physics I should work)

The textbook for the course is Fundamentals of Physics, 11th Edition, by: Halliday, Resnick, Walker, Wiley (2018). \textit{Do NOT run out to buy it, the electronic version is included in the HW access code}. The homework in this course is done online using the WileyPLUS system. Access to the online homework system requires a WileyPLUS access code. The online homework is part of the grade.

Details on how to purchase access to Wiley can be found on the course website on Canvas.

\(^1\)In case of cancellation of classes due to for example Hurricanes the number of HWs and Quizzes might be adjusted while the maximum number of points earned in each category stays the same.
Class attendance, make-up exams, etc...

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

Further details of the conditions for make-ups are described on the canvas page.

Accommodations for students with disabilities

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, https://drc.dso.ufl.edu/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

UF grading policies

Information on current UF grading policies for assigning grade points can be found here: https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Online course evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at: https://evaluations.ufl.edu/evals/Default.aspx. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.

The Honor Pledge

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment” The Honor Code (http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.”

Counseling and Wellness Center

Contact information for the Counseling and Wellness Center: https://counseling.ufl.edu, 352-392-1575; and the University Police Department: 352-392-1111 or 911 for emergencies.