DUE TO CONTINUING COVID19 OUTBREAK, THE SPRING 2021 COURSE IS TAUGHT IN THE HYFLEX MODE

- First Lecture – online only
- Remaining lectures – hyflex (see the last page)
- Discussion sessions and office hours are conducted via Zoom (see the last page)
- Exams are administered via online system Honorlock

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>Instructors</th>
<th>Office</th>
<th>Phone</th>
<th>E-mail</th>
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<tbody>
<tr>
<td>Prof. Paul Avery</td>
<td>NPB 2029</td>
<td>(352) 392-9264</td>
<td><a href="mailto:phy2049@phys.ufl.edu">phy2049@phys.ufl.edu</a></td>
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<tr>
<td>Prof. Imre Bartos</td>
<td>NPB 2025</td>
<td>(352) 392-3582</td>
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<tr>
<td>Prof. Andrey Korytov</td>
<td>NPB 2027</td>
<td>(352) 392-3482</td>
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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

- PHY2048 (Physics I with calculus) or similar.
- Algebra, Trigonometry, Analytic Geometry, Vectors
- Calculus 1
- Calculus 2 (co-requisite)

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

Course schedule

The complete course schedule is available on the canvas page. Note that Exams 1 and 2 are evening assembly course 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 iClicker questions. Homework and iClicker 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 approx. weekly HW assignments: 5 points combined
• 11 approx. weekly discussion session quizzes: 20 points combined
• iClicker/Participation points during lectures: 5 BONUS points

Note: In case of cancellation of classes due to unforeseen circumstances, the number of HW and quiz assignments might be adjusted, while the maximum number of points earned in each category stays the same.

Total minimal scores 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.

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<th>Grade</th>
<th>Minimum Score</th>
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<tr>
<td>A</td>
<td>≥85</td>
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<tr>
<td>A-</td>
<td>≥80</td>
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<tr>
<td>B+</td>
<td>≥75</td>
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<tr>
<td>B</td>
<td>≥70</td>
</tr>
<tr>
<td>B-</td>
<td>≥65</td>
</tr>
<tr>
<td>C+</td>
<td>≥60</td>
</tr>
<tr>
<td>C</td>
<td>≥55</td>
</tr>
<tr>
<td>C-</td>
<td>≥50</td>
</tr>
<tr>
<td>D+</td>
<td>≥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
  The textbook for the course is Fundamentals of Physics, 11th Edition, by: Halliday, Resnick, Walker, Wiley (2018). The electronic version is included with 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. Details on how to purchase access to Wiley can be found on the course Canvas page.
• iClicker software installed

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 course Canvas page.

Accommodations for students with disabilities
Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, https://disability.ufl.edu/) by providing appropriate documentation. Once registered, students will receive an accommodation document that must be sent to phy2049@phys.ufl.edu when requesting accommodation. Students 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://ufl.bluera.com/ufl/. 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://gatorevals.aa.ufl.edu/public-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
Counseling and Wellness Center: https://counseling.ufl.edu, 352-392-1575
For emergencies, University Police Department (352-392-1111) or 911.

Hyflex Lectures
A fraction of class is allowed to attend lectures in person.
- Masks are required all the time while in the buildings and also outdoors on the campus where the 6’ social distancing cannot be ensured. Masks must cover mouth and nose and should sit tightly on the face.
- While in the lecture hall, students can sit only at the marked locations.
- The lecture hall must be entered from the NPB lobby and exited from the West side of the room to the outside facing Gale Lemerand Drive.

Recorded zoom sessions
Our class sessions may be audio-visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate verbally are agreeing to have their voices recorded.

If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared.

As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.