

## Syllabus PHYS 411 "Intermediate Electricity and Magnetism" Fall 2019

### Web page of the course on ELMS/Canvas

Login site: <http://elms.umd.edu/>

Instructions:

- Log in using your UMD Directory ID. If you are registered for the course, you will see the course Web space after login.
- Homework will be delivered via ELMS and must be submitted online via ELMS. Your scores will be posted there.
- Course announcements will be posted on ELMS, so you should check it regularly.

Outside link: <https://myelms.umd.edu/courses/1271655>

### Course Information

Course title: **Intermediate Electricity and Magnetism**

Course number: **PHYS 411**, 4 credits

Course description: Foundations of electromagnetic theory, with extensive applications of the methods. Thorough treatment of wave properties of solutions of Maxwell's equations.

Course dates: Monday, August 26, 2019 through Monday, December 9, 2019

Location: Room 1402 in [J.S.Toll Physics Building \(PHY 082\)](#)

Days and times: Tuesdays and Thursdays, 11 am - 12:50 pm

Prerequisite(s): PHYS 373 "Mathematical Methods for Physics II"

### Instructor

Name: Victor M. Yakovenko, Professor of Physics

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Office location: Room 4415 in [Atlantic Building \(ATL 224\)](#)

Office hours: Tuesdays and Thursdays immediately after lecture, or by appointment

Office phone: x 56151

Web page: <http://physics.umd.edu/~yakovenk>

### Teaching Assistant

Name: Ahreum Lee

E-mail: alee1206 (at) terpmail (dot) umd (dot) edu

Office location:

Office phone:

Office hours: By appointment

### Textbooks

Required David J. Griffiths, [Introduction to Electrodynamics](#), 4rd edition  
Cambridge University Press, 2017, ISBN: 978-1-108-42041-9, 600 pages

### Goals, Homework, Exams, and Grades

Course Scope: The goal is to cover Chapters 2-12 of the textbook.  
[Timeline of the course](#) will be updated weekly on ELMS.

Homework: Homework assignments will be posted on ELMS weekly and will be due in one week. Homework **must be uploaded online** via ELMS only in **pdf** format as a **single file**. Other formats, such as doc, jpg, and photo shots of pages, are not acceptable. Homework can be typeset, e.g. using LaTeX or Word, or scanned from handwriting. Homework scores and solutions will be posted on ELMS. Late

homework cannot be accepted after solution has been posted.

Exams:

Midterm exam, tentatively on Thursday, October 17.

[Final exam](#) on Wednesday, December 11, 8-10 am.

All exams are "open book": You may use the textbook and your notes.

Grades:

The final grade will be based on your scores in exams (50%) and homework (50%). Your score within each category will be divided by the maximal possible score and added toward the overall score with the weights specified above. Then this overall score will be converted into letter grades with + and - steps.

### Course Related Policies

General:

[Course Related Policies](#)

Honor Pledge:

Signing Honor Pledge is required, as Homework 1 submission

Student Honor Council:

The University of Maryland, College Park has a nationally recognized Code of Academic Integrity, administered by the Student Honor Council. This Code sets standards for academic integrity at Maryland for all undergraduate and graduate students. As a student you are responsible for upholding these standards for this course. It is very important for you to be aware of the consequences of cheating, fabrication, facilitation, and plagiarism. For more information on the Code of Academic Integrity or the Student Honor Council, please visit <http://shc.umd.edu/>.

Created on August 25, 2019