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Course Page

Tom Smy

tomsmy@cunet.carleton.ca

Course Structure

The lectures are in person. However, due to the on-line mode of instruction during the plague I have two years of recorded lectures. After reviewing these lectures I think that they are a better learning tool than a live lecture. So do as you see fit.

Suggested Reading

This suggestion is very old, but the book is good.

Electronic properties of materials.

Hummel, Rolf E., 1934- 2nd ed. Berlin, Springer-Verlag. 1992 404 p.

CALL NUMBER: QC176.H86 1993

Principles of Electronic Materials and Devices - Safa Kasop (Not sure this is in print anymore)

There is a great deal of material and information (books, lectures, notes, and public domain) dealing with the course material available. It would be

wise to do supplemental reading. The lectures will define the material to be covered.

Matlab code for "toy" simulators used to illustrate a number of physical effects are in the git repository at 4700Code. Students are encouraged to go to the repo (it is public) create a branch identified by their name and enhance, debug the code. This effort will be worth bonus marks if significant.

Lectures: In person and on-line video.

Mark Breakdown

- Final: 52.00%
- Tests: Four at 12% each.

The mark weight on any quiz that has a lower mark than that of the final will be automatically transferred to the final.

For example if you get 75% on the final and 74%, 65%, 85% and 90% on the four quizzes, I will calculate that portion of your mark as

$$75%*(0.52+0.24) + 85%*0.12 + 90%*0.12$$

You must complete at least 3 quizzes.

TA info:

ILYASKANDID@cmail.carleton.ca@cmail.carleton.ca

Is available for consultation on the course material. Email him for appointments.

Link Password:

The links in the sections below go to the old website for the course and can be accessed by using the user id 4705 and password model.

Nano1Key.pdf



PDF document

Lecture 18: (Nov 23) Nano Tech

Lectures



Quizzes



Quiz 1: Sept 27

Quiz 2: Oct 16

Quiz 3: Nov 15

Quiz 4: Nov 27

Drag and drop files here to create and update topics

Last Years Quizzes



Quizzes

Four Quizzes done in class:

- Oct. 3 - Quiz 1 Material covered weeks 0,1,2.
Quiz1_Sol_2023.pdf

- Oct. 19 - Quiz 2 Material covered weeks 3, 4 and 5
Quiz2_Sol_2023.pdf
- Nov. 16 -- Quiz 3 Material covered weeks 6, 7 and 8.
Quiz3_Sol_2023.pdf
- Nov. 30. -- Quiz 4 Material covered weeks 9 and 10.
Quiz4_Sol1.pdf

Drag and drop files here to create and update topics

Example Quizzes



Some old quizzes with solutions.

2019_1_sol.pdf

PDF document



2019_2_sol.pdf

PDF document



2019_3_sol.pdf

PDF document



2019_4Sol.pdf

PDF document



test-1-2017 - Corrected.pdf

PDF document



test-2-2017 - Corrected.pdf

PDF document



test-3-2017 - Corrected.pdf

PDF document



test-4-2017 - Corrected.pdf

PDF document



Old Final



Final18.pdf

PDF document



Old Lectures



These are **very** old lectures in a more discursive form, but they could be useful.

4705_L13.pdf

PDF document



4705_L14.pdf

PDF document



4705_L15.pdf	✓
PDF document	
4705_L16.pdf	✓
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4705_L17.pdf	✓
PDF document	
4705_L18_19.pdf	✓
PDF document	
4705_L20.pdf	✓
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4705_L12.pdf	✓
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Course Content Learning Objectives	▼
Course Content Learning Objectives	✓
Web Page	

Academic Accommodation	▼
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Academic Accommodation

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