

- Rental textbook program with option to buy afterwards
- Instant access to Enhanced Web Assign (EWA)
- EWA plus e-book (cheaper than buying separately)

It is up to you to compare costs and decide which way to go.

Please notice:

- The Hybrid format of the textbook is cheaper. It does not include the end of chapter problems, but you will be able to find these on the e-book.
- The direct link to the Hybrid textbook is
<http://www.cengagebrain.com/shop/isbn/9781111572075>
- The Access to Web Assign is valid for two terms (Phy 101 & Phy 102)
- EWA is listed under 'Study Tools' on the web page

Equipment: Protractor, metric ruler, fine point retractable pencil, basic scientific calculator

Supplemental Instruction: Supplemental Instruction is provided after the lecture as a support for the students. The SI leader will provide some help with the homework, more problem solving, review difficult concepts, and answer questions. Participation is not mandatory, but *strongly* suggested.

Homework: The online program **Web Assign** will be utilized for entering and automatic grading of the homework. This requires the Access Card to be found inside the textbook. Each problem can be submitted a maximum of 5 times.

Accessing WebAssign: see attached sheet.

Due time: The assignments are due at 10 pm on the date specified on WebAssign. Only in case of serious documented circumstances an extension may be granted. Please send an e-mail to ywang235@oakland.edu about this. *No e-mailed homework is accepted.*

The homework is worth 25% of the final grade.

Please Notice: In order to develop critical thinking, much emphasis in the lecture will be on the understanding and assimilation of 'concepts'.

You are strongly encouraged to review the *Interactive Examples* and *Active Figures* interspersed in each chapter and to test your conceptual understanding by taking the *Quick Quizzes* (answers to be found at the end of the chapter) and the end-of-chapter *Conceptual Questions*. Conceptual questions will be included in the Exams.

Lecture Notes: Lecture Notes for each chapter will be posted on Moodle. It is suggested that you print a copy of the notes and bring these to class, so that you can focus more on conceptual understanding of the topics discussed in class and maybe add just a few notes on the side of the sheets.

Exams: There will be three exams, all closed book. The exams consist of problems and conceptual questions. You may bring one 8.5" x 11" sheet with hand written formulae, relevant constant, and personal notes, but no examples of solved problems. Notice: The index card may not be photocopied, reduced or computer generated. Violation of this rule will result in failure of the examination.

A scientific calculator is required plus pencil, protractor and ruler.

Please notice that clear writing and clarity of expression is a very important component of the exam.

Exam #1: Tuesday, February 8 (Ch 15, 16, 17, 18)

Exam #2: Tuesday, March 22 (Ch 19, 20, 22, 23)

Exam #3: Thursday, April 21 at 9 am! (Ch 24, 26, 27, 28)

The exams are worth 65% of the final grade (Ex1: 20%, Ex2: 20%, Ex3: 25%)

Make-up Policy: In order to be fair to the majority of students who take the exams on time, the general policy is: *No make-up exams* will be given. A score of zero will be entered for missed exams. If you cannot be present for an exam due to an *unavoidable and documented emergency*, contact me before the exam if possible or as quickly as possible after the exam to see if an exception can be made.

Pop quizzes: Pop quizzes will be given randomly during class. It may take place at the beginning, in the middle, or at the end of class. Quiz will be basic conceptual question. The pop quizzes are worth 10% of the final grade.

Grading: Grades will be based on the following percentages:

Homework:	25%
Pop quiz:	10%
Exams (20%, 20%, 25%):	65%

Grading scale:

A-perfect	(4.0)	total score:	>95%
A	(3.6 – 3.9)		86 - 95 %
B	(3.0 - 3.5)		73 - 85 %
C	(2.0 - 2.9)		60 - 72 %
D	(1.0 - 1.9)		50 - 59 %

Common Courtesy Guidelines:

For the benefit of your fellow students and your instructor, you are expected to practice common courtesy with regard to all course interactions.

For example:

- Show up for class on time.
- Turn off your cell phones and put away iPods and other devices before class begins.
- Do not leave class early, and do not rustle papers in preparation to leave before class is dismissed.
- Be attentive in class; stay awake, don't read newspapers, paperbacks, etc.
- If you must be late or leave early on a particular day, please inform your instructor in advance.
- Play well with others. Be kind and respectful to your fellow students and your teachers.

You can expect your grade to be lowered if you do not practice common courtesy.

Academic Conduct Policy: Cheating on examinations, plagiarism, falsifying reports/records, and unauthorized collaboration, access, or modifying of computer programs are considered serious breaches of academic conduct. The Oakland University policy on academic conduct will be strictly followed with no exceptions. See catalog under Academic Policies and Procedures.

Add/Drops: The university add/drop policy will be explicitly followed. It is the student's responsibility to be aware of the university deadline dates for dropping courses.

Special Considerations: Students with disabilities who may require special considerations should make an appointment with campus disability Support Services. Students should also bring their needs to the attention of the instructor as soon as possible.

WebAssign: How to get started

Day One: Register

1. Go to <https://webassign.net> and click on **LOG-IN**.
2. Click on **'I have a Class Key'**
3. Enter the **Class Key: oakland 4356 6372** (this allows me to see your homework grades)
4. Enter your chosen Login name and the required information
5. Click on **'Create my Account'**. A review screen will appear with your Username, Institution code & Password. Print and retain a copy of this information.
6. Once you Login, you need to enter the **WebAssign Access Code**.

- If you purchased a new textbook, the Access Code card is inside the book.
- If you purchased a used book, you may choose to purchase the Access Code online.

Notice: there is a 14 day grace period to use WebAssign. If you have not purchased your textbook yet, during this time you can do your homework without a registering code.

7. Once you have logged in, you will see the **Homepage**.

- I suggest you click on **Guide** (upper right corner) and read the **Student Guide**.
- For **Technical Support** click on **Help** or go to

<http://www.webassign.net/info/support/report.html>

To access the Homework:

1. Go to <http://www.webassign.net/login.html> (I suggest you Bookmark this page)
2. After you Login, click on **'My Assignments'**.

Please notice:

- You may save your work without grading by clicking on **'Save Work'** at the end of the question. Next time you access the assignment, your work will still be available.
- WebAssign will not automatically submit your answer if you only 'Save' your work. Make sure you **'Submit'** it before the due date and time.
- You may also choose to **'Submit New Answers to Question xx'** or **'Submit All New Answers'**.

Remember that there is a **maximum of 5 submissions** for each problem.

PHY 102 TENTATIVE SCHEDULE –WINTER 2012

Week	Day	Date	Lecture contents	
			Chapter	Topics
1	W	1/4	15	Syllabus; Electric charges; Insulator & conductor
	F	1/6	15	Coulomb's law; Electric field; Electric field lines
2	M	1/9	15	Millikan oil-Drop; Van de Graaff generator; Gauss's law
	W	1/11	16	Potential
	F	1/13	16	Applications, Capacitance, Parallel-plate capacitor
3	M	1/16	Martin Luther King, Jr. Day, classes suspended	
	W	1/18	16	Capacitor
	F	1/20	17	Electric current, the measurements of current and voltage
4	M	1/23	17	Ohm's Law, Temperature vs. Resistance
	W	1/25	17	Power, Application
	F	1/27	18	Emf, Resistor
5	M	1/30	18	Kirchhoff's rules
	W	2/1	18	Circuits
	F	2/3	EXAM 1	
6	M	2/6	19	Magnets, Magnetic fields
	W	2/8	19	Magnetic fields continued
	F	2/10	19	Magnetic fields continued
7	M	2/13	20	Faraday's Law
	W	2/15	20	Motional emf, Self-inductance
	F	2/17	20	RL circuits, Energy stored in magnetic field
Feb. 18-26, Winter recess, classes suspended				
8	M	2/27	22	Reflection and Refraction of light
	W	2/29	22	Reflection and Refraction of light
	F	3/2	22	Rainbow, Huygens' principle, Total internal reflection
9	M	3/5	23	Mirrors and Lenses
	W	3/7	23	Mirrors and Lenses
	F	3/9	23	Mirrors and Lenses
10	M	3/12	EXAM 2	
	W	3/14	24	Interference
	F	3/16	24	Interference
11	M	3/19	24	Diffraction
	W	3/21	26	Relativity
	F	3/23	26	Relativity
12	M	3/26	26	Relativity
	W	3/28	26	Relativity
	F	3/30	27	Introduction of quantum physics
13	M	4/2	27	Introduction of quantum physics
	W	4/4	27	Introduction of quantum physics
	F	4/6	27	Introduction of quantum physics
14	M	4/9	28	Introduction of atomic physics
	W	4/11	28	Introduction of atomic physics
	F	4/13	28	Introduction of atomic physics
15	M	4/16	Review	
16	M	4/23	Final exam, 9-10:30 AM	