Syllabus **General Physics II**

# Spring 2019

Professor: John Ross Buschert

Grading

Quiz and Web ~15%

Test 1 ~20%

Test 2 ~20%

Final ~30%

Labs ~15%

Grading Scale

A 93-100

A- 90-92.9

B+ 87-89.9

B 83-86.9

B- 80-82.9

C+ 77-79.9

C 73-76.9

C- 70-72.9

D+ 67-69.9

D 60-66.9

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A calculus and vector treatment of basic physics including mechanics, sound, electricity, magnetism and light. This is the second semester of the sequence dealing with electricity, magnetism and light.

**Recommended Text:** Online free text by Open Stax: University Physics Volumes 2 and 3.

**Study Guide:** A Study Guide will be provided for a $10 deposit on the first or second class meeting.

**Webassign:** Homework will be assigned and graded using the Webassign online homework system which costs about $25.

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| --- | --- | --- | --- |
| **WebAssign Due Date** | **Text**  **Chap\*** | **Study**  **Guide** | **Subject** |
| Jan 11 | -- | -- | Integration |
| Jan 18 | 5 (Vol 2,Unit 2)\* | 22 | Electric Charge, Force, Field |
| Jan 25 | 6 | 23 | Gauss’s Law |
| Feb 1 | 7 | 24 | E-Potential |
| Feb 6 | 8 | 25 | Capacitance |
| **Feb 8** |  |  | **TEST 1** |
| Feb 15 | 9,10 | 26 & 27 | Current and Circuits |
| Feb 22 | 11 | 28 | Magnetic Field |
| Feb 25-Mar 1 |  |  | Spring Break |
| Mar 8 | 12 | 29 | Sources of Magn F |
| Mar 15 | 13 | 30 | Magn Induction |
| Mar 20 | 15 | 31 | AC Circuits |
| **Mar 22** |  |  | **TEST 2** |
| Mar 27 | 16 | 32 | Maxwell, EM Waves |
| Apr 3 | 1 (Vol 3, Unit 1)\* | 33 | Reflection and Refraction |
| Apr 10 | 2 | 34 | Images and Instruments |
| Apr 17 | 3,4 | 35 | Interference &Diffraction |
| **April 24** | **10:30am** |  | **Final Exam** |

\*These chapters come from Open Stax University Physics

Volume 2, Unit 2 Chapters 5-16 and Volume 3, Unit 1, Chapters 1-4