

Physics 2020 (NSCC, Cookeville)
Elements of Physics II, Spring 2008

Instructor: Dr. David Murdock, TTU Bruner 221, [372]-3044. E-Mail: murdock@tnitech.edu

My main job is at TTU and I spend most of my time there. This may be inconvenient for NSCC students, but I will always provide help to students if they come and see me there.

Course Web page:

<http://iweb.tnitech.edu/murdock/ph2020/ph2020n.html>

My Teaching page:

<http://iweb.tnitech.edu/murdock/teaching.html>

Lectures: MW 2:00 – 3:40 pm, NSCC 205.

Textbook: *Physics*, 7th ed., Cutnell and Johnson (2007)

Exam dates: (Exams at 2pm in Lab or 205)

Exam I: Feb. 22, 2008

Exam II: Mar. 28, 2008

Exam III: Apr. 25, 2008

Grade Weighting:

Lab: 20%, Homework: 15%, Quizzes: 15%, Exam I: 15%, Exam II: 15%, Exam III: 20%

Grade Scale:

80–100: A 68–79: B 56–67: C 45–55: D 0–44: F

Lab Sections: Labs will meet on Thursdays, from 2pm to 3:50pm in lab room.

Attendance: NSCC's attendance policy is followed: A student is expected to attend all scheduled classes and laboratories. A student who misses class for two consecutive weeks without contacting the instructor or who violates the instructor's stated attendance policy will be administratively withdrawn from the course and given a grade of "WF".

Office Hours: Liberal; I am in my office at TTU (or teaching courses) most of the time from 10 am to 6 pm, and usually at night, from 8pm to 10pm. (See my schedule on my web page.) See me for help in working the problems, questions about the quizzes and exams, etc.

I have an "open-door" policy for giving help. If I am in my office, I *will* provide help on homework problems regardless of how busy am (or appear to be). If the door is closed, please knock!

Homework: About 8 problems will be given out weekly on Wednesday, due the following Wednesday.

Quizzes, Exams: There will be at least three quizzes.

The quizzes are in general a bit easier than the test questions and I will provide you with the most important equations on all of them. (This will also be done on the exams.) The point of this is to convince you that memorization plays a small role in learning physics.

Quizzes are usually announced at least a week before they are given. Lowest score will *not* be dropped since there are so few. Exams are given on the dates and times listed above. (Locations will be announced if they are not in 205.)

More Help: The course web page has a link to **On-line Material**, which includes scanned keys of past quizzes and exams given for this course.

Material Covered: Here is the list of subjects and the corresponding chapters in the textbook, in the order that we'll do them. We'll do what time permits and we may not get up to the last couple chapters:

| Subject | Chapter | Sections Covered |
|----------------------------------|----------|--------------------------------------|
| Electric Forces and Fields | Chap. 18 | 18.1 – 18.8, 18.11 |
| Electric Potential | Chap. 19 | 19.1 – 19.5, 19.7 |
| Electric Circuits | Chap. 20 | 20.1 - 20.4, 20.6– 20.10, 20.15, 3.5 |
| Magnetic Forces and Fields | Chap. 21 | 21.1 – 21.5, 21.7, 21.10 |
| Electromagnetic Induction | Chap. 22 | 22.1 – 22.5, 22.7– 22.8, 22.10 |
| Electromagnetic Waves | Chap. 24 | 24.1 – 24.4, 24.6–24.7 |
| Reflection of Light; Mirrors | Chap. 25 | 25.1 – 25.7 |
| Refraction of Light; Lenses | Chap. 26 | 26.1 – 26.3, 26.5–26.8, 26.10, 26.15 |
| Interference Phenomena | Chap. 27 | 27.1 – 27.2 27.5–27.6, 27.10 |
| Particles and Waves | Chap. 29 | 29.1 – 29.7 |
| The Nature of the Atom | Chap. 30 | 30.1 – 30.6, 30.11 |
| Nuclear Physics | Chap. 31 | 31.1 – 31.4, 31.6–31.10 |
| Ionizing Radiation and Particles | Chap. 32 | 32.1 – 32.8 |

Nashville State complies with the Americans with Disabilities Act. If you wish to request any special accommodations for any courses in which you are enrolled, contact the Campus Assistant Director, Joan Christopher at 520-0551 ext. 103. Such services must have proof of documentation that is not over three years old.
