

**PHYSICS 222 SYLLABUS**

**SPRING 2014/BLS**

**THE COURSE WILL COVER TOPICS FROM CHAPTER 13 THROUGH CHAPTERS 31. THE TEXT WILL BE "PHYSICS FOR SCIENTISTS AND ENGINEERS" BY D.C. GIANCOLI 4<sup>TH</sup> ED.**

**1/27 FLUID MECHANICS**

**2/3 MECHANICAL WAVES**

**2/10 SOUND WAVES**

**2/17 WINTER BREAK & (EXAM 1)**

**2/24 TEMPERATURE AND GAS LAWS**

**3/3 FIRST LAW OF THERMODYNAMICS**

**3/10 SECOND LAW OF THERMODYNAMICS**

**3/17 SPRING BREAK & (EXAM 2)**

**3/24 ELECTRIC FIELDS**

**3/31 ELECTRIC POTENTIAL**

**4/7 ELECTRIC CAPACITANCE**

**4/14 ELECTRIC RESISTANCE**

**4/21 DC CIRCUITS & (EXAM 3)**

**4/28 MAGNETIC FIELDS**

**5/5 ELECTROMAGNETIC INDUCTION**

**5/12 ELECTROMAGNETIC WAVES**

**5/19 FINAL (EXAM #4)**

**EACH WEEK'S LESSON WILL INCLUDE TWO LECTURES AND A LAB.**

**THE GRADING WILL BE BASED 75% ON EXAMS AND 25% ON LAB REPORTS.**

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**BARRY STONER**