PHY132 Spring 2023 – Anticipated Textbook Topics for the Course

INFORMATION YOU MUST KNOW (as of 1-2-23)

What textbook material am I responsible for knowing and understanding?

(Recommended Text; Giancoli, 4th Edition)

Ch. 21, **Electrostatics**: Sections 21.1 – 21.10 inclusive

Ch. 22, **Gauss' Law**: Sections 22.1 – 22.3 inclusive

Ch. 23, **Electric Potential**: Sections 23.1 – 23.5, 23.8 inclusive

Ch. 24, **Capacitance**: Sections 24.1 – 24.5 inclusive

Ch. 25, **Electric Current & Ohm's Law**: Sections 25.1 – 24.6 inclusive

Ch. 26, **DC Circuits**: Sections 26.1 – 26.4, 26.6, 26.7 inclusive

Ch. 26, **RC Circuits**: Section 26.5; RC Circuits

Ch. 27, **Magnetism**: Sections 27.1 – 27.4, 27.7, 27.9 inclusive

Ch. 28, **Sources of Magnetism**: Sections 28.1 – 28.6 inclusive

Ch. 29, **Magnetic Induction**: Sections 29.1 – 29.4, 29.6, 29.7 inclusive

Ch. 30, **AC Circuits**: Sections TBA

Ch. 31, **EM Waves/Light**: Sections 31.1 – 31.3, 31.6 – 31.8, 31.10 inclusive

Ch. 32, **Reflection, Mirrors & Ray Tracing**: Sections 32.1 – 32.3 inclusive

Ch. 32, **Refraction, Lenses & Ray Tracing**: Sections 32.4 – 32.7 inclusive

Ch. 33, **Ray Tracing & Optical Devices**: Sections 33.1 – 33.3, 33.6 inclusive.

Ch. 34, **Wave Theory of Light**: Sections 34.1 – 34.3 inclusive

(NOTE! The Final Exam is approximately 75% cumulative, all topics will be covered on the Final Exam) As our course develops, please bear in mind that there may be some slight changes to this topics list. Check back frequently to see if this list has been changed. ☺