PHYS 2212 SOUP Schedule - Summer 2018

Week 1	
Topics	The Electric Field, Superposition
Reading	Textbook Sections 13.1-13.6, and edX Week 1 Videos
Group Meeting	No meeting this week
Presentations	• One hour student trouble shooting (*date & time set by TA*)
Lab	Glowscript and Tracker software

Week 2	
Topics	Dipoles, Polarization, Charging
Reading	Textbook Sections 13.6; 14.1-14.7 and edX Week 2 Videos
Group Meeting	• Two hours of group problem solving with a TA (*date & time set by TA*) • Quiz 1 problems distributed by TA
Presentations	• One hour of student presentations (*Thursday, time set by TA*) • Students present a rough draft of Lab 1 report to group
Lab	Start Lab 1: *Electric field of a point charge*. Instructions on edX

Week 3	
Topics	Electric field of distributed charge, The charged rod and ring
Reading	Textbook Sections 15.1-15.3 and edX Week 3 Videos
Group Meeting	• Two hours of group problem solving with a TA (*date & time set by TA*). • Quiz 2 problems distributed by TA.
Presentations	• One hour of student presentations (*Thursday, time set by TA*). • Students present a solution to an individual problem from Quiz 1.
Lab	**Submit Lab 1 by Sunday**. Instructions on edX

Week 4	
Topics	The Charged Plate and Sphere. The Magnetic Field
Reading	Textbook Sections 15.4, 15.6-15.7; 17.1-17.3 and edX Week 4 Videos
Group Meeting	• One hour of group problem solving with a TA (*date & time set by TA*). • Quiz 3 problems distributed by TA.
Presentations	• Two hours of student presentations (*Thursday, time set by TA*). • Students present a solution to an individual problem from Quiz 2. • Students present a rough draft of Lab 2 report to group
Lab	Start Lab 2: *Electric field of a charge distribution*. Instructions on edX

Week 5	
Topics	Magnetic Fields (part 2)
Reading	Textbook Sections 17.5-17.8, 17.10-17.12 and edX Week 5 Videos
Group Meeting	• Two hours of group problem solving with a TA (*date & time set by TA*).
Presentations	• One hour of student presentations (*Thursday, time set by TA*). • Students present a solution to an individual problem from Quiz 3.
Lab	**Submit Lab 2 by Sunday**. Instructions on edX

Test 1 - Week 6
Available starting Monday June 18th and completed by Friday June 22rd
Time and location arranged by student

Week 6	
Topics	The Electric Potential Difference
Reading	Textbook Sections 16.1, 16.3-16.6 and edX Week 6 Videos
Group Meeting	• Two hours of group problem solving with a TA (*date & time set by TA*). • Quiz 4 problems distributed by TA.
Presentations	• One hour of student presentations (*Thursday, time set by TA*). • Students present a rough draft of Lab 3 report to group
Lab	Start Lab 3: *Conservation of Charge and Energy in a Circuit*. Instructions on edX

Week 7	
Topics	Charge and Energy Conservation in a Circuits
Reading	Textbook Sections 18.1-18.3, 18.9; 19.1-19.5 and edX Week 7 Videos
Group Meeting	• Two hours of group problem solving with a TA (*date & time set by TA*). • Quiz 5 problems distributed by TA.
Presentations	• One hour of student presentations (*Thursday, time set by TA*). • Students present a solution to an individual problem from Quiz 4.
Lab	**Submit Lab 3 by Sunday**. Instructions on edX

Week 8	
Topics	Magnetic Force and Faraday's law
Reading	Textbook Sections 20.1-20.3; 22.1-22.3 and edX Week 8 Videos
Group Meeting	• One hour of group problem solving with a TA (*date & time set by TA*). • Quiz 6 problems distributed by TA.
Presentations	• Two hours of student presentations (*Thursday, time set by TA*). • Students present a solution to an individual problem from Quiz 5. • Students present a rough draft of Lab 4 report to group
Lab	Start Lab 4: *Magnetic Dipole Moment*. Instructions on edX

Week 9	
Topics	Motional EMF, Magnetic Force on a Dipole
Reading	Textbook Sections 20.5, 20.8; 22.3 and edX Week 9 Videos
Group Meeting	• Two hours of group problem solving with a TA (*date & time set by TA*).
Presentations	• One hour of student presentations (*Thursday, time set by TA*). • Students present a solution to an individual problem from Quiz 6.
Lab	**Submit Lab 4 by Sunday**. Instructions on edX

Test 2 - Week 10
Available starting Monday July 16th and completed by Friday July 20th
Time and location arranged by student

Week 10	
Topics	Guass's Law and Patterns of Field
Reading	Textbook Sections 21.1-21.5 and edX Week 10 Videos
Group Meeting	• Two hours of group problem solving with a TA (*date & time set by TA*).
Presentations	• One hour of student presentations (*Thursday, time set by TA*). • Students present a rough draft of Lab 5 report to group
Lab	Start Lab 5: *Magnetic Braking with Faraday*. Instructions on edX

Week 11	
Topics	Hall Effect
Reading	Textbook Sections 20.4 and edX Week 11 Videos
Group Meeting	• Two hours of group problem solving with a TA (*date & time set by TA*).
Presentations	• None
Lab	**Submit Lab 5 by Sunday**. Instructions on edX