

PHYS 216 Introductory Laboratory

Dr. Jeremy Qualls

Laboratory, 3 hours. Selected experiments to increase the student's working physical knowledge of the natural world. Prerequisites: PHYS 114 and 116. Concurrent enrollment in PHYS 214 is strongly recommended.

Class meeting time: 1:00-3:40 pm Thursday Darwin 311

Learning Objectives <http://www.phys-astro.sonoma.edu/catalog/learningobjectives.doc>

Welcome to Introductory Laboratory. In this lab we explore waves, electricity, magnetism, basic circuits, and optics. This laboratory is designed to enhance your understanding of concepts covered in the PHYS 214 lecture. You will be working as partners for most of the labs and you will be required to turn in lab write ups and answer questions for the prelab.

Grading Policy:

Attendance is mandatory: If you do not attend a lab session you will receive a zero for that lab. A prelab will be expected prior to each lab with exception of the first lab.

Prelabs can be downloaded from <http://phys-astro.sonoma.edu/people/faculty/qualls>

Individual write-ups (will drop the lowest experiment score)	60%
Prelabs and in class quizzes	15%
Final practical exam	15%
Classroom performance	10%

Information and Announcements

My homepage is <http://phys-astro.sonoma.edu/people/faculty/qualls> and it also has some nice links and a review of my research here at SSU. Prelabs and labs will be posted on WEBCT for this course. Please log into WEBct and this course and print lab (many have prelab questions. Prelabs questions are due at the beginning of each lab.

Professor's Information

Dr. Jeremy Qualls	Ph.D.: 1999 Florida State University
Office: Darwin 300K	Lab: 303
Phone: 664-2256	Lab Phone: 664-3448
Email: quallsj@sonoma.edu	Cell Phone: 707-479-3951

This is my weekly schedule. I have an open door policy regarding office hours. If I am around please feel free to ask questions regarding the course or research at SSU.

University Policies

There are important University policies that you should be aware of, such as the add/drop policy; cheating and plagiarism policy, grade appeal procedures; accommodations for students with disabilities and the diversity vision statement. (Go to this URL to find them: <http://www.sonoma.edu/uaffairs/policies/studentinfo.shtml>)

Professor's Weekly Schedule

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:30 am			9:30-11:00 Office Hour		
11:00 am	PHYS 214 Darwin 35		PHYS 214 Darwin 35	PHYS 214 Art 102	PHYS 214 Darwin 35
12:00 pm	Lunch		Lunch	Lunch	Lunch
1:00 pm	PHYS 460 Ives Hall 35		PHYS 460 Ives Hall 35	PHYS 216 Darwin 311	STUDENT RESEARCH
2:00 pm					
3:00 pm	2:30-4:00 Office Hours		Department Meeting		
4:00 pm	What Physicist Do				
5:00 pm – 7:40 pm	Dinner with speaker	PHYS 209A Darwin 308			

Tentative Lab Schedule

	<u>Topic</u>
1	Sound
2	Electric Field and Potential
3	DC Circuit
4	Capacitance
5	e/m ratio
6	Faraday's Law
7	EM waves in a wire
8	Properties of Light and lenses
9	Michelson Interferometer
10	Polarization
11	Diffraction
12	Final Lab

Note: A number of days must be established as furlough days in agreement with CFA and Sonoma State University to address budget concerns. You will be notified as soon as those dates are established. On furlough days no courses will be taught and Dr. Qualls will be unavailable that day.

Here are the days I have requested as Furlough Days. After these dates have been approved I will notify the class. September 8, 28, October 30, November 2,20,23,24, December 11, 15