Walters State Community College  
Course Syllabus for PHYS 2121, “Physics II, Lab.” Spring 2012

Instructor: Dr. Sean M. Cordry, Associate Professor of Physics  
Contact: 118 NCSI, (423) 585-6764, Sean.Cordry@ws.edu  
Office Hrs: Posted outside instructor’s door  
Dpt. Contact: (423) 585-6865 (Mrs. Sherry Woody), FAX: (423) 585-2762

Required Text: None

Catalog Course Description: Thermodynamics, electricity and magnetism, optics, atomic and nuclear physics. (Prerequisite: MATH 1910 and PHYS2110; coreq: PHYS 2120 and MATH 1920) 3 hours lecture, 4 credits

This lab course introduces students to some of the laboratory techniques and methods employed by physicists doing experimental work; it is a required component of PHYS2120.

Student Learning Outcomes
Here are the student learning outcomes; in other words, these are the things students should know how to do at the end of the semester.

1. Basic Techniques and Methods
   a. Use Excel and LoggerPro software to graph and analyze data.
   b. Correctly interpret data trends from graphs.
   c. Provide explanation for the importance of error in a measurement; distinguish between systematic error and statistical error.
   d. Use regression techniques to extract information from data.
   e. Cooperate as a team member in a variety of roles.

Performance Indicators and Expectations
In order to evaluate student progress towards the learning outcomes, two performance indicators will be used: completion of lab worksheets and performance on a lab project. The table below shows how the various indicators will be incorporated into the final performance assessment. Note: the laboratory grade comprises ten percent of the overall (lecture) course grade; a separate grade will not be issued for the lab component of the course.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>%</th>
<th>Details</th>
<th>If missed (excused)…</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Worksheets</td>
<td>100</td>
<td>Worksheets will be completed during class.</td>
<td>Due to logistical issues, labs, and therefore worksheets, cannot be “made-up.” Excused absences will not affect the student’s grade; students with unexcused absences will receive a zero for the day.</td>
</tr>
</tbody>
</table>

Excused absences include documented illness, unexpected family situations or emergencies, and student representation of WSCC at various activities.

This syllabus last modified on Friday, January 13, 2012 by  
Physics Department chair, Dr. Sean M. Cordry.
**Additional Important Information**

- Students should attend the first day of class or contact the instructor prior to the first class. Failure to do this may result in being dropped from the class.
- Plagiarism, cheating, and other forms of academic dishonesty are prohibited.
- Students with disabilities must register with Student Support Services (CCEN), Room 262 (phone 423-585-6892) if they need any special facilities, services, or consideration.
- Students in need of tutoring assistance are encouraged to contact the Office of Student Tutoring located in the College Center (CCEN), Room 261. The phone number is 423-585-6920.
- Students receiving any type of financial aid or scholarship should contact the Financial Aid Office before making any changes to their schedule. Schedule changes without prior approval may result in loss of award for the current term and future terms.
- Students who have not paid fees on time and/or are not correctly registered for this class and whose names do not appear on official class rolls generated by the Admissions and Records Office will not be allowed to remain in class or receive credit for this course.
- Cellular phone use during classroom interaction is prohibited. Cellular phones must be turned to the non-audible mode until after class, at which time calls can be received or checked. (See the Walters State Catalog/Handbook)
- For information related to the cancellation of classes due to inclement weather, please check the college’s Web site at [www.ws.edu](http://www.ws.edu) or call the college’s student information line, 1-800-225-4770, option 1; InfoConnect, (423) 581-1233, option 1045; or the Greeneville/Greene County Center for Higher Education, (423) 798-7940, option 4. Also, please monitor local TV and radio stations for weather-related announcements. For additional information on this policy see the college catalog.
- In the event of a pandemic or other college declared critical event that impacts the college’s ability to proceed with academic course activities as planned, the college reserves the right to alter this course plan. In the event of a pandemic or other event, please refer to the college’s home web page, [www.ws.edu](http://www.ws.edu) or call InfoConnect, (423) 581-1233 for further information.
- Regular class attendance is a student’s obligation. (See the Walters State Catalog/Student Handbook) If for some reason a student misses class, it is his or her responsibility to see the instructor regarding missed assignments and/or activities and to be prepared for the next class. Excessive absences may substantially lower the semester grade. The college requires the instructor to keep accurate records and to report when students are not attending class.
- The wearing of hats and caps in class is not allowed! Students will be asked to remove their hats and caps.

**WSCC Catalog Notification Statement:**
All students attending Walters State Community College, regardless of the time and location of the class, must abide by the rules and regulations outlined in the current Walters State Catalog/Student Handbook and the current “Walters State Timetable of Classes.” A copy of the Catalog/Handbook and the “Timetable of Classes” may be obtained from the Admissions Office on the Main campus or at any of our off-campus sites. You may also access the Catalog/Handbook on-line at the following web address: [http://www.ws.edu/catalog](http://www.ws.edu/catalog).

**Alternative Teaching Plan**
In the event of a pandemic or other college declared critical event, the lead faculty member for this course will use eLearn to communicate with the students. If the lead faculty member is affected by this event, another member from the teaching team will assume instruction for the course. The course will continue utilizing an online format of instruction and testing.

**ATTENTION:** The Natural Science faculty members are concerned with proper academic advising of students in ALL Pre-Professional programs. It is our explicit desire to help you with any advising problems you may encounter.