

SCI 102 Electricity - Part I: Concepts of Electricity - Spring 2018

Instructor: Dr. Gary J. Pascuzzo

Office: Merion 102, phone ext. 6932

Office Hours: Tuesday & Thursday, 8:00-9:00am & 5:00-6:00pm; Friday, 9:00-10:00am

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Required Text: *SCI102 Part I: Concepts of Electricity* available at the Sykes bookstore (put together by Dynamic Student Services)

Schedule

We will meet on Tuesday (T) and Thursday (R) in Merion 109

Date	Subject	Text Sections
T Jan 23	Introduction, Batteries & Bulbs	E1.1 - 1.5
R Jan 25	Batteries & Bulbs	E1.6 - 1.8
*T Jan 30	Obstacleness & Oomph	E2.1 - 2.3
R Feb 1	Capacitors	E3.1 - 3.3
*T Feb 6	Electric Charge	E4.1 - 4.3, 4.6, 4.7
R Feb 8	Batteries, Bulbs & Capacitors	E5.1, 5.2
*T Feb 13	Charge vs Fluid Model, Ohm's Law	E5.3, 5.4
R Feb 15	Physics "Fun Day" Review	
T Feb 20	Physics Final Exam	

Grading: There will be 3 Journals (worth 10 points each), 4 unannounced Quizzes (10 points each), and a Final Exam (30 points).

***Journals Are Due:** These are your observations, hypotheses, data and assignments for the previous two labs. They can be written out by hand or printed from a word processor - usually from 2 to 4 pages in length. For instance, Journal #1 covers the first week's labs (Jan 23 & 25) and is due on Tuesday, Jan 30. To help guide you, a list of Journal Questions will be given out and/or posted on our D2L website.

SCI 102 - Electricity with Chemical and Biological Applications

Spring 2018

This is an inquiry-based science course intended for elementary education majors. It is divided into three main laboratory parts and a group project at the end:

Part I: Concepts of Electricity (Physics)	Jan 23 - Feb 20
Part II: Chemical Applications	Feb 22 - Mar 29
Part III: Biological Applications	Apr 3 - May 1
Group Projects & Presentations	May 3 & Finals Week

There will be an examination on the last day of each laboratory part. Each instructor will give you more detailed information about other requirements for that part of the course - such as journals, lab reports, quizzes, etc. The final examination for the whole course will consist of a group project and a presentation; this will count as 10% of your overall course grade. The remainder of your course grade will be 30% of your physics grade, 30% chemistry, and 30% biology.

The SCI101/102 sequence satisfies the General Education science requirement for elementary education majors. The hands-on, cooperative experience in class, the written assignments and the group project are designed to allow students to achieve the following Goals of General Education courses:

- 1) Communicate effectively
- 2) Employ quantitative analysis and mathematical methods
- 3) Think critically and analytically.

Attendance Policy:

Due to the highly interactive nature of this course, attendance is essential. If you are unable to attend class, contact the instructor before class or as soon after class as possible. *It is your responsibility to keep up with the course material.* It is, however, the instructor's decision whether laboratory work and/or other assignments can be made up, the due date, and any penalty associated with the student's absence. Excused absences, in accordance with the Excused Absences Policy for University-Sanctioned Events (see Undergraduate Catalog or Ram's Eye View), will not result in a penalty, provided that the student follows this policy.

Statements Common to All WCU Undergraduate Syllabi:

ACADEMIC & PERSONAL INTEGRITY

It is the responsibility of each student to adhere to the university's standards for academic integrity. Violations of academic integrity include any act that violates the rights of another student in academic work, that involves misrepresentation of your own work, or that disrupts the instruction of the course. Other violations include (but are not limited to): cheating on assignments or examinations; plagiarizing, which means copying any part of another's work and/or using ideas of another and presenting them as one's own without giving proper credit to the source; selling, purchasing, or exchanging of term papers; falsifying of information; and using your own work from one class to fulfill the assignment for another class without significant modification. Proof of academic misconduct can result in the automatic failure and removal from this course. For questions regarding Academic Integrity, the No-Grade Policy, Sexual Harassment, or the Student Code of Conduct, students are encouraged to refer to the Department Undergraduate Handbook, the Undergraduate Catalog, the *Ram's Eye View*, and the University website at www.wcupa.edu.

STUDENTS WITH DISABILITIES

If you have a disability that requires accommodations under the Americans with Disabilities Act (ADA), please present your letter of accommodations and meet with me as soon as possible so that I can support your success in an informed manner. Accommodations cannot be granted retroactively. If you would like to know more about West Chester University's Services for Students with Disabilities (OSSD), please visit them at 223 Lawrence Center. The OSSD hours of Operation are Monday – Friday, 8:30 a.m. – 4:30 p.m. Their phone number is 610-436-2564, their fax number is 610-436-2600, their email address is ossd@wcupa.edu, and their website is at www.wcupa.edu/ussss/ossd.

EXCUSED ABSENCES POLICY

Students are advised to carefully read and comply with the excused absences policy, including absences for university-sanctioned events, contained in the WCU Undergraduate Catalog. In particular, please note that the "responsibility for meeting academic requirements rests with the student," that this policy does not excuse students from completing required academic work, and that professors can require a "fair alternative" to attendance on those days that students must be absent from class in order to participate in a University-Sanctioned Event.

REPORTING INCIDENTS OF SEXUAL VIOLENCE

West Chester University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with Title IX of the Education Amendments of 1972 and guidance from the Office for Civil Rights, the University requires faculty members to report incidents of sexual violence shared by students to the University's Title IX Coordinator, Ms. Lynn Klingensmith. The only exceptions to the faculty member's reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project. Faculty members are obligated to report sexual violence or any other abuse of a student who was, or is, a child (a person under 18 years of age) when the abuse allegedly occurred to the person designated in the University protection of minors policy. Information regarding the reporting of sexual violence and the resources that are available to victims of sexual violence is set forth at the webpage for the Office of Social Equity at <http://www.wcupa.edu/admin/social.equity/>.

EMERGENCY PREPAREDNESS

All students are encouraged to sign up for the University's free WCU ALERT service, which delivers official WCU emergency text messages directly to your cell phone. For more information, visit www.wcupa.edu/wcualert. To report an emergency, call the Department of Public Safety at 610-436-3311.

ELECTRONIC MAIL POLICY

It is expected that faculty, staff, and students activate and maintain regular access to University provided e-mail accounts. Official university communications, including those from your instructor, will be sent through your university e-mail account. You are responsible for accessing that mail to be sure to obtain official University communications. Failure to access will not exempt individuals from the responsibilities associated with this course.