PHY 116: Engineering Graphics 2 Spring 2019

Tuesdays 6-8 PM in Ruby Jones 6 (unless otherwise announced)

Course description: This is the second part of a two-semester course that focuses on engineering drawing & design. A requirement for enrolling in this course is satisfactory completion of PHY 115 “Engineering Graphics I.” In many ways this class will be similar to PHY 115, but we will deal with slightly more advanced topics such as assemblies and detailed engineering drawings for manufacture. The majority of the class will focus on working with the Solidworks CAD software.

Instructor: Robert Thornton
Office: Merion 129
Office Phone: 610-436-2614
E-mail: rthornton@wcupa.edu
Office hours: Tu 1:00-3:00 p.m. Th 3:30-4:30 p.m. Office hours also available by appointment.

Textbooks (required):


Required course materials (to be brought to every class):

- A storage device, such as a USB flash drive or cloud drive
- All of the solidworks parts you made last semester!!

Course Web page: Most of the necessary course documents (syllabus, homework assignments, solutions, etc.) will be posted on D2L. Remote access to Solidworks is available at http://ramcloud.wcupa.edu.

Grading:
Quiz 1: 25%; Quiz 2: 25%
Homework: 25%
Design Project: 25%

Attendance: Since the course only meets once a week, attendance is critical. Attendance will be taken at each lecture. If you are not there for the entire lecture, you will be marked absent. One unexcused absence is allowed. After you miss more than one with no excuse, the instructor reserves the right to lower your course grade by 1/3 of a letter grade (e.g., B to B-) for each additional unexcused absence. Excused absences are limited to those due to participation in university sanction events (see policy in the WCU undergraduate catalog) or those accompanied by written confirmation from a doctor, the Dean of Students, etc. An unexcused absence on the day of a quiz or exam will result of a grade of zero for that quiz or exam. Finally, whether your absence is excused or unexcused (or if you are late to class), you will be responsible for any material covered and any announcements that were made in class that day.

Homework: There will be weekly assignments over the majority of the semester. Most of these assignments will be done individually by all students. After the design projects have started, assignments will be done as groups and will therefore be more subjective. Assignments are due at the beginning of class on the specified due date. Because of the unique structure of this class, no late assignments will be accepted unless you have already made a prior arrangement with me.
**Tentative list of topics covered:**

- Advanced SW part modeling
- Solidworks assemblies
- Part drawings
- Assembly drawings
- Threads & Fasteners
- Assembly drawings
- High resolution rendering
- Simulation
- Simulation & Motion studies
- Design projects

**Intellectual Property Statement:**

The instructor for this course utilizes copyrighted materials under the "Freedom and Innovation Revitalizing United States Entrepreneurship Act of 2007" (Fair Use Act). Apart from such copyrighted materials, all other intellectual property associated with this course is owned and copyright protected by the instructor, including, but not limited to, lectures, course discussions, course notes and supplementary materials posted or provided to students authored by the instructor, assessment instruments such as quizzes and exams, and Power Point presentations. No recording, copying, storage in a retrieval system, or dissemination in any form, whether electronic or other format, by any means of the intellectual property of the instructor, either in whole or in part, is permitted without the prior written permission of the instructor. When such permission is granted, it must specify the utilization of the intellectual property and all such permissions and waivers shall terminate on the last day of finals in the semester in which this course is held.

Links and references to on-line resources provided by the instructor may lead to other sites. The instructor does not sponsor, endorse or otherwise approve of any information appearing in those sites, nor is responsible for the availability of, or the content located on or through, external sites. Apart from materials used in accordance with the Fair Use Act, the instructor takes no responsibility for material that is otherwise offered at web sites and makes no warranty that such material does not infringe any third party rights. However, should any of this type of material be present and this fact is brought to the attention of the instructor, they will remove references to it from course materials.

**Public Safety:** 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 and to sign up, visit www.wcupa.edu/wcualert. To report an emergency, call the Department of Public Safety at 610-436-3311.

**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 contact the OSSD which is located at 223 Lawrence Center. The OSSD hours of Operation are Monday – Friday 8:30 a.m. – 4:00 p.m. Their phone number is 610-436-2564, their fax number is 610-436-2600, and their email address is ossd@wcupa.edu. See the following website for more information: http://www.wcupa.edu/ussss/ossd/default.aspx.
**Email 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.

**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](http://www.wcupa.edu).

**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 for Diversity, Equity, and Inclusion at [https://www.wcupa.edu/_admin/diversityEquityInclusion/](https://www.wcupa.edu/_admin/diversityEquityInclusion/).