

Cal Poly Pomona, SCI 1010/A – FALL 2018

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Office: Building 8 Room 224	Phone: 869-4021
Office Hours: Monday 10:00-11:00 and Tuesday 1:00-2:00 or by appointment Teaching Partner: Dr. Jennifer H. Kohagura Student Health and Counseling Services jhkohagura@cpp.edu	
Class web page: On BlackBoard Blackboard is a system for distributing online course materials. You can log onto Blackboard from http://blackboard.cpp.edu Use your Bronco ID and password to log in, and then click on the site for Science 1010. We will not be using the 1010A site. From the Science 1010 Blackboard site you can access the weekly assignments, copies of the syllabus, course announcements, and course documents.	

Course Description: Exploration of student and University expectations. 1 lecture, 1 two- hour activity. Concurrent enrollment required. Presentations by student affairs staff. The course will focus on 6 core competencies: 1) Student Learning & Development, 2) Academic Competency & Self-Efficacy, 3) Engagement and Sense of Belonging, 4) Financial Literacy, 5) Well-being, 6) Career & Professional Development. Presentations by physics faculty and student affairs staff. 1 lecture, 1 two- hour activity. Concurrent enrollment required.

Learning Outcomes:

1. Student Learning & Development
 - Understand faculty expectations for college-level academic work
 - Discover and develop personal learning styles
 - Learn to use on-line and library resources to improve student learning as well as Learn how to critically evaluate sources, both print and on-line.
 - Develop initial research skills- appreciating the value of error analysis in the context of an experiment and have the awareness that asking your own questions and designing experiments is the practice of science.
 - Give oral presentations of scientific work
 - Understand what science is and isn't
2. Academic Competency & Self-Efficacy,
 - Learn to use college resources, including faculty office hours, tutoring and peer groups to improve student learning, Health Center, Career Center, Cultural Centers etc.
3. Engagement and Sense of Belonging,
 - Learn about clubs related to major discipline
 - Develop a sense of community by interacting with students, faculty and staff
4. Financial Literacy,
 - Learn to manage finances to stay in school and complete degree
5. Well-being
 - Learn to manage stress and adopt a healthy lifestyle conducive to learning
6. Career & Professional Development.
 - Develop time management skills
 - Learn about career options and how to use your time in college to prepare for a job.

Grading

Weekly Assignments	20 %
Class activities	10%
Graphing and analysis of experimental data	20%
Data Set project and presentation	20%
Portfolio	30%

Weekly Assignments: Will be posted on blackboard. A tentative weekly assignment schedule is posted on the course outline. 5 % will be deducted for each day that the HW is late.

Class Activities: In-class activities that you will be graded on.

Graphing and analysis of experimental data: We will practice doing some very simple measurements (not so different from the measurements that you will do in PHY 1510L...) and practice working with that data in Excel and/or Google Sheets. We will make graphs and tables, fit lines to graphs, and format the graphs and tables nicely. You will turn in several assignments in which you make graphs and then answer some questions that require you to analyze/interpret the data in the graphs.

Data Set project and presentation: We will practice the analysis skills learned performing the experiment by formulating a research question that can be answered using an existing datasets and spreadsheets.

Portfolio: You will write **seven** essays, covering different aspects of the college experience. You will select your topics from the list below. One is due whenever you see "additional activity/involvement essay to be completed this week." Topics can be chosen in any order. *Each report should be about 400 words, and should be typed. It will be graded for grammar and writing style as well as substance.*

- A summary of a meeting with a professor.
- A report and documentation of attendance at any ASI, athletic, drama, music, cultural center, or other campus events.
- A report and documentation of attendance at any additional ASI, athletic, drama, music, cultural center, or other campus events.
- A report and documentation of attendance at a third ASI, athletic, drama, music, cultural center, or other campus event.
- A report, recording your observations at the meeting of a student club.
- A report, recording your observations at the meeting of a second, different student club.
- A report, recording your observations at the meeting of a third, different student club.
- Seek tutoring help at the Learning Resource Center.
- Attend a department seminar and write a report on it.
- Attend a second department seminar. Write a report on it.
- Attend a third department seminar. Write a report on it.
- Attend a University Writing Center workshop, or get help from a Writing Center assistant with one of your written assignments for a class, and write a summary of the experience.
- Attend a workshop at the Learning Resource Center, or get help from a Bronco Tutoring assistant with one of your class assignments, and write a summary of the experience.

Assignment Grading Scale:

- **3 Points.** *Perfect.*
- **2 Points.** *Mostly correct. Some effort demonstrated.*
- **1 Point** *Please try harder.* Something handed in, with a name, without any evidence of serious effort.
- **0 Points.** *Please try.* Nothing handed in.

Grading Policy: Absolute grading will be used: No curves and no extra credit. You are not in competition with your classmates, so it is in your best interest to help each other learn in this class.

90%– 100%	A
80% – 89.9%	B
65% – 79.9%	C
55% – 64.9%	D
< 55%	F

Plus or minus grades will be within the ranges specified

Make Up and Attendance policy: Because you will play such an important role in your own learning and the learning of your classmates, your attendance is essential. You are expected to be in class and working for the full three hours, i.e., arriving late and leaving early will not be allowed (we will have a short 10-15 minute break in the middle of class).

- Two absences or four “lates” will result in a 5% grade reduction (A to A– or B+, for ex.)
- Three absences or five “lates” will result in a 10% grade reduction (A to B, for ex.)
- Four absences or six “lates” will result in a 20% grade reduction.
- More than four absences or six “lates” will result in “F” for the course.
Absences and “lates” are not excused without proper documentation (e.g. doctor’s note, record of a tow, etc.)

You are responsible for all work in the class. If you miss class because of illness or other compelling reason (written verification may be required), please notify the instructor as soon as possible by voice mail or email. Assignments due the date of your absence may be submitted for full credit upon return to class.

Course rules:

- **No food in class!** If you are hungry, or will get hungry between 8:00-11:00am, eat something before you come to class.
- Absolutely NO cell phones, personal computers, or iPods unless the instructor specifically say the activity requires one of these devices..

Academic Integrity: Every student is expected to be familiar with the university policy on academic integrity. Copying and cheating are serious offenses.

Any student who feels s/he may need an accommodation based on the impact of a disability may contact me privately to discuss your specific needs, or may contact Disable Student Services at 909- 869-3333umented in room 126 of the University Library to coordinate reasonable accommodations for students with doc

Outline of Instruction

Week 1

<p>Monday 8/27</p>	<p>Homework for Next Class</p>
<p>Student Learning & Development</p> <ul style="list-style-type: none"> ✓ Transition to College Reprogramming your Attitude and Reorganizing your Responsibilities Preparing for College Success: <ul style="list-style-type: none"> • Getting to know the syllabus Introduction to Class, Instructor, and Classmates • Being successful in college ✓ Anonymous Q&A about college 	<ul style="list-style-type: none"> • Download a semester planer. https://www.cpp.edu/~ssep/documents/forms-and-documents/semester-planner_fall-2018.pdf <p>Using the syllabi from all the courses you are taking, enter all important deadlines and time commitments for the quarter. Include exam dates, paper due dates, and non-academic events that require significant time, e.g., a work related trip, your cousin’s wedding, etc.</p> <ul style="list-style-type: none"> • Read <i>A Student’s Guide to Academic Etiquette</i>. (Collin College) Turn in (on paper) a list of the five most important things you learned from your reading assignment. • Getting to know your department assignment • Perform the following personality test and bring results to class. https://www.16personalities.com/free-personality-test • Take a learning style inventory quiz at: http://vark-learn.com/the-vark-questionnaire/

Week 2 HOLIDAY

<p>Monday 9/3</p>	<p>Homework for Next Class</p>
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Week 3

<p>Monday 9/10</p>	<p>Homework for Next Class</p>
<p>Student Learning & Development</p> <ul style="list-style-type: none"> ✓ Advising registration GPA and grades Academic integrity and Academic etiquette <ul style="list-style-type: none"> • Class and office hours etiquette • how to read a syllabus. • Study Tracks • Preparing for Academic Advising • road maps • tracking degree progress schedule building, Guest presentation by an Advising Center Coordinator ✓ Overview of degree options offered by our department. ✓ Doing a minor. <p>Academic Competency & Self-Efficacy</p> <ul style="list-style-type: none"> ✓ Setting Goals <p>Workshops by learning Resource Center</p>	<ul style="list-style-type: none"> • Read the following websites for information about math and science study skills: <ul style="list-style-type: none"> ◦ http://www.cpp.edu/~rosenkrantz/skills2.htm Turn in a list of the five most important things you learned from the reading assignment shown above. • Log onto BroncoDirect and find out when you can register. Download a copy of your unofficial transcript and a copy of your test results. Bring them to class. While you are logged in, see what other information you can find about you at BroncoDirect • Go to http://www.cpp.edu/~sci/physics-astronomy/academic-programs/curriculum-and-advising.shtml <p>and download the following: Advising Worksheet, Physics Degree Curriculum Sheets and the appropriate Model Flow Sheet. If you are working more than a few hours a week, you may want to download the longer time plan. Please print it.</p> <ul style="list-style-type: none"> • Make a copy of classroom notes from a class other than SCI 1010.

Week 4

Monday 9/17	Homework for Next Class
<p>Academic Competency & Self-Efficacy</p> <ul style="list-style-type: none"> ✓ Study Strategies <ul style="list-style-type: none"> • Take Smart Notes, • Read Differently • Study Smarter <p>Workshops lead by Learning Resource Center</p>	<ul style="list-style-type: none"> • Read/ watch the following website for information about math and science study skills http://www.cpp.edu/~rosenkrantz/skills2.htm and Turn in a list of the five most important things you learned from this reading assignment • Watch the following video by Dr. Sandra McGuire of Louisiana State University: It lasts approximately 45 minutes https://www.kaltura.com/index.php/extwidget/preview/partner_id/245942/uiconf_id/19789012/entry_id/0_i04vfe2/embed/auto?&flashvars[akamaiHD]=%7B%22loadingPolicy%22%3A%22preInitialize%22%2C%22asynclnit%22%3A%22true%22%7D&flashvars[twoPhaseManifest]=true&flashvars[streamerType]=hdnetworkmanifest <p>Turn in a list of the five most important things you learned from this video</p> <ul style="list-style-type: none"> • portfolio item to be completed this week

Week 5

Monday 9/24	Homework for Next Class
<p>Engagement and Sense of Belonging</p> <ul style="list-style-type: none"> ✓ Diversity workshop - Office of Student Life & Cultural Centers <p>Academic Competency & Self-Efficacy</p> <ul style="list-style-type: none"> ✓ CPP resources <p>Workshop lead by Learning Resource Center</p>	<ul style="list-style-type: none"> • additional portfolio item to be completed this week • Read website for information about students resources https://www.cpp.edu/~campus-life/student-services/index.shtml <p>Turn in a list of the five most important things you learned from this reading assignment.</p>

Week 6

Monday 10/1	Homework for Next Class
<p>Academic Competency & Self-Efficacy</p> <ul style="list-style-type: none"> ✓ Getting involved WIP/OPTICS/PHYSICS clubs <p>Student Learning & Development</p> <ul style="list-style-type: none"> ✓ Experiment and data taking 	<ul style="list-style-type: none"> • portfolio item to be completed this week

Week 7

Monday 10/8	Homework for Next Class
<p>Well-being</p> <ul style="list-style-type: none"> ✓ Stress management <p>Presented by the wellness center</p> <ul style="list-style-type: none"> ✓ Resilience <p>Student Health and Counseling Services</p> <p>Student Learning & Development</p> <ul style="list-style-type: none"> ✓ Experiment and data analysis 	<ul style="list-style-type: none"> • Complete Library Tutorial at https://elearning.cpp.edu/tutorials/library/tutorial/?tutorial=eZresearchtutorial <p>Bring to class print-outs of two informational web pages, one that you consider a reliable source of info on some academic topic, and one that you consider unreliable.</p> <ul style="list-style-type: none"> • portfolio item to be completed this week

Week 8

Monday 10/15	Homework for Next Class
<p>Student Learning & Development</p> <ul style="list-style-type: none"> ✓ Information Literacy <ul style="list-style-type: none"> • Using the library and Google Scholar. • Evaluating print sources and web sites. • Citing Sources with Integrity <p>Presented by Coordinator of Instruction Library</p> <p>Student Learning & Development</p> <ul style="list-style-type: none"> ✓ Registration for Spring Q&A <p>Student Learning & Development</p> <ul style="list-style-type: none"> ✓ Experiment and data analysis 	<ul style="list-style-type: none"> • portfolio item to be completed this week

Week 9

Monday 10/22	Homework for Next Class
<p>Financial Literacy</p> <ul style="list-style-type: none"> ✓ Presentation by credit union <p>Student Learning & Development</p> <ul style="list-style-type: none"> ✓ Experiment and data analysis 	<ul style="list-style-type: none"> • Faculty Interview (attached) • Family Interview(attached)

Week 10

Monday 10/29	Homework for Next Class
<p>Career & Professional Development</p> <ul style="list-style-type: none"> ✓ Careers <ul style="list-style-type: none"> • What can I do with my degree? <p>Presentation by career center</p> <ul style="list-style-type: none"> • Parents & Faculty in your career (interviews) <p>Student Learning & Development</p> <ul style="list-style-type: none"> ✓ Giving a talk ✓ Scientific writing 	<ul style="list-style-type: none"> • portfolio item to be completed this week • Experiment data analysis

Week 11

Monday 11/5	Homework for Next Class
Student Learning & Development <ul style="list-style-type: none">• How to get started in research? Workshop lead by Office of Undergraduate Research• Laboratory and research skills• Introduction to Scientific Inquiry• Instrument calibration• Error analysis (m&m game)	<ul style="list-style-type: none">• Experiment data analysis• portfolio item to be completed this week

Week 12 HOLIDAY

Monday 11/12	Homework for Next Class
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Week 13

Monday 11/19	Homework for Next Class
Student Learning & Development <ul style="list-style-type: none">• Laboratory and research skills• Error analysis• Dataset inquiry	<ul style="list-style-type: none">• portfolio item to be completed this week• Error analysis practice

Week 14

Monday 11/26	Homework for Next Class
Student Learning & Development <ul style="list-style-type: none">• Laboratory and research skills• Dataset inquiry	<ul style="list-style-type: none">• Complete data set inquiry and prepare a presentation

Week 15

Monday 12/3	Homework for Next Class
Student Learning & Development <ul style="list-style-type: none">• Dataset inquiry students presentation Survey , closing remarks and Q &A	

Important Dates & Deadlines Fall 2018

- Aug 16-Sept 6: Fall Add/Drop
- August 23: First Day of Fall Classes
- September 3 Labor Day; Campus Closed
- Oct 22 -Nov 21 Spring General Registration
- November 12 Veteran's Day; Campus Closed
- November 30 Spring Fees Due
- November 22-25 Campus Closed
- December 9 Last Day of Classes
- December 10-16 Final Exams