

PHYSICS 185.2 – Introduction to Scientific Presentation Methods
Spring 2014 – Section:

Instructor: Elizabeth Bell

Email: bellea@wlaac.edu **Office:** MSB 224

Phone: 310-287-4585 **Classroom:** MSA 013

Required: A Handbook of Biological Investigation, 7th edition, Ambrose and Ambrose, ISBN:0-88725-331-8 (Should be in the bookstore or you can order online)

Course Description

Introduction to experimental and presentation (both oral and poster) methods (primarily focusing on poster for spring semester). Proper and improper format and etiquette are discussed. Class culminates in oral and poster final presentation.

Student Learning Outcomes

INSTITUTIONAL OUTCOMES (SLOs):

A. CRITICAL THINKING: Analyze problems by differentiating fact from opinion, using evidence and sound reasoning to specify multiple solutions and their consequences.

C. QUANTITATIVE REASONING: Identify, analyze, and solve problems that are quantitative in nature.

F. TECHNICAL COMPETENCY: Utilize the appropriate technology effectively for informational, academic, personal, and professional needs.

PHYSICS DIVISION PROGRAM OUTCOMES (SLOs):

1. Develop critical thinking skills and move toward autonomous learning.
2. Comprehend, describe, and apply the procedures of physics and understand their limitations.
3. Demonstrate competence in applying the methods of scientific inquiry.
4. Apply the basic physics principles to a wide/diverse range of problems.

Grading Scale: Course is based on point system (100 points total)

10 points each → Required Advisor Meetings (Total of 40 pts)

10 points each → Required Data Meetings-Dr. Recht (Total of 20 pts)

5 points → Pre sample data poster (Meeting 2)

5 points → Post sample data poster with report (Meeting 3)

10 points → Final Formal Laboratory Report paper (Meeting 5)

10 points → Final Poster (symposium)

10 points → Final Poster (showcase)

A=90-100 pts., B=80-90 pts., C=70-80 pts., D=60-70 pts., F<60 pts.

Tentative Schedule

MEETING	TOPIC
1 March 7 (Friday)	<p style="text-align: center;">9:30 am – 10:30 am</p> <ul style="list-style-type: none"> • Introduction and Welcome • Go over poster presentation guidelines and expectations • Introduce topic ideas to class and get feedback <p>Assignments for next meeting:</p> <ol style="list-style-type: none"> 1. Finalize topic and choose faculty advisor 2. Meet with faculty advisor and discuss PURPOSE of the project 3. Initial meeting with Dr. Recht – <ol style="list-style-type: none"> a. What type of data should be taken for your project? b. What sections of the book should you focus on? c. Schedule follow up meeting to review assignment. 4. Bring actual data from one of your labs or projects next time (data must be quantitative or qualitative in nature). If you don't have data, ask a classmate to copy theirs for you. <p style="text-align: center;">10:45 am – 1:00 pm</p> <p>Biology Symposium</p>
2 March 21 (Friday)	<p style="text-align: center;">9:30 am – 10:30 am</p> <p>Seminar Presentation by Dr. Bonnie Blustein, Mathematics professor Topic: TBD Q&A: Include questions about poster vs. oral presentations</p> <p style="text-align: center;">10:45 am – 12:30 pm</p> <p>Pre-Poster practice:</p> <ul style="list-style-type: none"> • Create poster using sample raw data Pre-Poster serves as baseline to determine improvement and understanding of material compared to final poster presentation <p>Assignments for next meeting:</p> <ol style="list-style-type: none"> 1. Meet with advisor to discuss plans for data collection. 2. Review poster symposia sites and take notes on poster presentation requirements (Example: AAPT, APS, ACS, etc...) 3. Review sites on what makes a good poster (some links given in class) 4. Redo your practice poster before next meeting and write a one-page report on what you 'fixed'. 5. Follow-up meeting Dr. Recht

<p>3 April 4 (Friday)</p>	<p style="text-align: center;">9:30 am – 10:30 am</p> <p>Seminar Presentation by Dr. Hunt, Technical Fellow, Boeing Topic: TBD Q&A: Include questions about poster vs. oral presentations</p> <p style="text-align: center;">11:00 am – 12:30 pm</p> <p>Formal Laboratory Report</p> <ul style="list-style-type: none"> • Introduce Formal Laboratory Report Guidelines <p>Class discussion on progress: Students talk about progress and pitfalls. Students give peer feedback.</p> <p>Assignments for next meeting:</p> <ol style="list-style-type: none"> 1. Oral Presentation Guidelines <ul style="list-style-type: none"> • Using pre-determined internet presentation links, run similarities and differences among the various conference guidelines • Review findings and type one page summary of similarities among oral presentation guidelines. • Watch and comment (next time) on various oral presentations (to be given in links). Also include comments on seminar presenters' presentations to date (next week) 2. Meet with advisor Finalize data and discuss 3. Put a draft of your poster together.
<p>4 April 25 (Friday)</p>	<p style="text-align: center;">9:30 am – 10:30 am</p> <p>Seminar Presentation by Dr. Laurimar Escudero, Professor of Biology Topic: TBD Q&A: Include questions about poster vs. oral presentations</p> <p style="text-align: center;">11:00 am – 12:30 pm</p> <p>Discuss HW assignments from last meeting. Present draft posters to peers. Based on research on poster presentations and WLAC guidelines, constructively critically comment (anonymous on notes) on peer posters.</p> <p>Assignment for next meeting:</p> <ol style="list-style-type: none"> 1. Meet with advisor for final questions and go over poster.

<p style="text-align: center;">5 May 2 (Friday)</p>	<p style="text-align: center;">9:35 am – 12:40 pm</p> <p style="text-align: center;">Symposium (Pre-poster Showcase competition event)</p> <p>Presentation to be given to the STEM faculty and the college community.</p>
<p style="text-align: center;">6 May 15 (Thursday)</p>	<p style="text-align: center;">12:00 pm – 3:00 pm</p> <p>West Los Angeles Student Poster Showcase</p> <p>The 2014 Poster fair will be held This year's fair is Thursday, May 15th, 2014 in the MSA/B quad at West Los Angeles College. The public is invited.</p>

****It is imperative you show up to all class meetings ON TIME as there is much to do in little time****