

PS216 Group Oral Presentation

Percentage of Final Grade: 10%

Group Size: 2-3 students

Topic Due Date: Tuesday, February 23, 2016

Digital Studio: Each group is required to make use of the Digital Studio and its tutoring service leading up to the group oral presentation. You must schedule to meet with a Digital Studio Tutor **at least twice:** once to initially story board your presentation, and once for a follow up. Please go to <https://erau.mywconline.com/> to schedule an appointment and see the related page on our Canvas course page for more information.

*Students should be timely with their appointments, **not waiting** until the last few weeks of the semester if their lab experiment was done months earlier.*

Presentation Dates:	PS216-01	Saturday, April 30	10:15am-12:15pm
	PS216-02	Tuesday, May 3	2:45pm-4:45pm
	PS216-03	Tuesday, May 3	10:15am-12:15pm

Audience: You will be presenting to your instructors and your peers in the lab. However, you should design your presentation as if you were presenting it to other technically inclined students who *would not* be immediately familiar with the experiment topic (i.e. assume your audience did not already do the lab).

Topic: The group presentation will summarize any one lab that your team performed during the semester (topics will be assigned to groups by the instructor). The presentation should cover all activities, contents, and results normally covered in a lab report. Exceptions will be for labs that involved large amounts of content, these will have subsections of the experiment assigned.

Style & Format: Each group must create an audiovisual presentation with software of their choosing. The presentation should last no longer than 8 minutes total with a further 2 minutes for questions. **At least one** slide must be structured in the Assertion-Evidence approach.

Contents: Similar to lab report sections, pictures of setups, summary tables, or plots of results are *highly* encouraged. Think of the presentation as a quick summary of your report, hitting the highlights.

Be aware of appropriate font size for titles, captions, and especially contents of plots. The slides should be easily readable from ~12ft away. Check that equations and symbols appear as intended and that all font is readable on its background. Make sure all non-original content is properly cited including images.

Required within the presentation

- **Title Slide:** Experiment Name, Authors
- **Introduction:** Defined purpose/goal, context of your work, grab attention
- **Theory:** Overview of physics concepts required to obtain and understand results
- **Methods/Equipment:** images/diagrams of setup would be appropriate, general and to the point procedure, highlight essentials needed to get right or key to the experiment or unique to your setup, calibrations performed if necessary, think “minimum you must know to replicate results”
- **Results:** Including plots and fits if done, summary tables, analysis, uncertainties, insights, sources of error, ideas for improvements or further work, again like from report
- **References:** One slide should list your references used throughout. MUST have lab module and at least 1 external reference.

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Topics	PS216-01 Groups	PS216-02 Groups	PS216-03 Groups
Linear Motion			Killian H., Charles P., Phillip F.
Newton's 2 nd Law		Michael F., Jonathon F., Linda W.	Benjamin M., Nathan K.
Ballistics	Erin O., Alexander S., Andrew M.	Aliesha P., Mathew R.	Owen K., Brittany M., Petar G.
Elastic Collisions	Dillon M., John H., Shane K.	Brogan R., Ian G., Austin S.	Tyler N., Sebastian S., Ivan G.
Inelastic Collisions	Gustavo V., Charles S.		
Friction	Sophie N., David P.	Nathan W., Alex D., Adam C.	Brian B., Zachary S.
Pendulum	Trey A., Michael D.	James S., Isabelle K.	
Angular Momentum		Sophie Z., Austin O.	
Angular Acceleration			
Centripetal Force		Dana S., Marissa P., Cedieu G.	
Moment of Inertia			
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Group Oral Presentation Rubric				
Areas of Assessment	Absent <i>Point Value: 0</i>	Poor <i>Point Value: 1</i>	Average <i>Point Value: 3</i>	Excellent <i>Point Value: 5</i>
1. Digital Studio Tutoring	Did not attend Digital Studio tutoring at all.	--N/A--	Went for Digital Studio tutoring only once.	Went for Digital Studio tutoring twice.
2. Content	Most content is missing or incomplete, the topic is not covered. Content is not understandable due to severe omissions.	Content contains many inaccuracies or incorrect information. Minor omissions in content. Content difficult to understand from what is given or stated.	Content mostly accurate and complete, details and important information given. Only minor issues exist, content easily understood but more information needed.	Content fully complete and accurate, important details and information complete. No issues with content, completely understood.
3. Use of Figures & Graphics	No graphics or figures included.	Graphics and figures are irrelevant or do not relate to topic. Poorly formatted or impossible to understand due to sizing.	All graphics and figures are related to the topic, most make the topic easier to understand.	All graphics and figures relate to the topic, and all make the topic easier to understand.
4. Layout & Design, Organization	Slides have no understandable layout, design follows no standard, layout and design makes content not understandable, information unreadable >4ft away.	Most slides lose focus on content, poorly laid out leading to wandering eyes; tables not understandable; bad font, color, background choices; unreadable >6ft away. Missing Assertion-Evidence slide.	Most slides are content focused; layout is easy to follow; tables mostly understandable; poor font, color, background choices; unreadable >8ft away. Assertion-Evidence slide included.	All slides are content focused; layout and design easily followed; tables clear and understandable; good font, color, background choices; readable 12ft away. Assertion-Evidence slide included.
5. Presentation	No final presentation is given	Serious technical, content, or delivery issues hinder the presentation. Poor communication, display content not working or major issues.	Contains minor technical, content, or delivery issues and satisfies the given objective. Mostly clear communication, minor display issues.	Totally free of technical, content, or delivery issues and meets or exceeds the given objective. Excellent communication, no display issues.
6. Preparation & Collaboration	No evidence of group collaboration or preparation. No coordination between members.	Little evidence of group collaboration and much over-dominance. Preparation appears to be minimal. Little coordination evident.	Some evidence of group collaboration, some members contributed minimally. Some preparation is evident. Some coordination.	All members of the group contributed equally in design and presentation. Extensive preparation is evident. Much collaboration and coordination.
7. Sources Cited, References	No references documented, no source citations on (information, graphics).	Missing 1 of 2 minimum required references. Some sources not cited on (information, graphics)	At least 2 minimum required references documented. Reference information is incomplete or poorly formatted, rarely source citation missing or incomplete.	At least 2 minimum required references documented and formatted correctly. All source citations on (information, graphics) documented correctly.