Senior Seminar Poster Rubric*

*Rubric based on materials from Eugenia Etkina, Rutgers PER Group and adapted by P. E. Allen, T. Coffey, J. M. Saken, Appalachian State University, Sept 2009

Content/Scientific Merit: 70% of total poster grade					
	Acceptable Performance			Unacceptable Performance	
	Excellent (4)	**Good (3)**	**Average (2)**	**Requires Major Improvement (1)**	**Failed (0)**
Demonstrates an understanding of the key physics behind the experiment	The key physics is clearly & correctly identified and described, and is integrated with the presentation.	Minor error and/or omission are made when presenting the physics.	The physics to be investigated is correctly identified, but is described in a confusing manner.	The physics is correctly identified, but major errors or omissions are made.	No mention of the physics is made or it is described incorrectly.
Demonstrates an understanding of role and usage of equipment	Understands the purpose and use of each piece of equipment.	Minor error and/or omission in understanding purpose of each piece of equipment or its use.	Multiple minor errors and/or omissions OR major error or omission in this area.	Major errors or omissions are made.	Misunderstands purpose and/or use of relevant equipment.
Communication of details of the experimental procedure	Diagrams and/or experimental procedure are clear and complete.	Diagrams and/or experimental procedure are present, but with a minor error and/or omission.	Diagrams and/or experimental procedure are present, but with multiple minor errors and/or omissions OR an important detail is missing.	Diagrams and/or procedure are extremely vague, or contain major errors or omissions.	Diagrams and/or experimental procedure are missing or incorrect
Understanding of mathematical model, equations, and assumptions of same.	All mathematical model(s) and relevant equations are provided. All significant assumptions are correctly identified, and all identified assumptions are correct.	Minor error and/or omission with math model, equations, or assumptions.	Multiple minor errors and/or omissions in this area OR there is a major error with math model, equations, or assumptions.	Major errors occur in mathematical model(s), equation(s), or assumption(s).	Mathematical model(s), equation(s), or assumption(s) are not provided or are incorrectly used.
Tabulation/recording and graphical representation of data	All important data are present, organized, and recorded clearly.	Minor error and/or omission with data presentation.	Multiple minor errors and/or omissions OR one major error and/or omission with data presentation.	Major errors or omissions in representing the data.	Data are missing or inconsistent with experiment.

Analysis of data	The analysis is appropriate, complete, and correct.	The analysis is appropriate, but contains a minor error and/or omission.	Multiple minor errors and/or omissions OR a major error or omission with analysis.	Major errors or omissions in the anallysis.	No attempt is made to analyze the data OR the attempt is seriously flawed or inappropriate.
Identification and minimization of experimental uncertainty	All experimental uncertainties are correctly identified. Effective steps are taken to minimize all major sources of experimental uncertainty.	Minor error and/or omission in identifying or minimizing sources of experimental uncertainty.	Multiple minor errors and/or omissions OR a major error or omission in identifying or minimizing sources of experimental uncertainty.	Major errors or omissions in identifying sources of uncertainty.	No attempt is made to identify or minimize sources of experimental uncertainty OR the attempt is vague, incorrect, or inappropriate.
Evaluation of how experimental uncertainties may affect the data.	All experimental uncertainties are correctly evaluated and interpreted.	Minor error and/or omission in evaluating or interpreting experimental uncertainties.	Multiple minor errors and/or omissions OR a major error or omission in evaluating or interpreting experimental uncertainties.	Major errors or omissions in evaluating or interpreting uncertainties.	No attempt is made to evaluate or interpret experimental uncertainties OR the attempt is incorrect, vague, or inconsistent.
Identification of shortcomings in experimental design and suggest improvements.	All major shortcomings of the experiment are identified and specific suggestions for improvement are made.	Minor error and/or omission in identifying shortcomings or providing suggestions.	Multiple minor errors and/or omissions OR a major error or omission in identifying shortcomings or providing suggestions.	Major errors or omissions in identifying shortcomings or suggestions.	No attempt is made to identify any shortcomings or provide suggestions OR the attempt is vague, incorrect, or inappropriate.
Presentation Merit: 30% of total poster grade					
	Acceptable Performance			**Unacceptable Performance**	
	Excellent (4)	**Good (3)**	**Average (2)**	**Requires Major Improvement (1)**	**Failed (0)**
Appearance & Layout	Information is presented in a logical, interesting sequence that reader can follow. Font	Minor errors in sequencing; enough to notice, but not a major	Multiple minor errors in sequencing; enough to be noticeable and distracting	Major errors in sequencing or in overall appearance.	No logical sequence to presentation. Font usage, color, or

	usage, use of color, and overall appearance of poster is aesthetically pleasing.	distraction. Minor error and/or omission with appearance (font size/usage, color, etc.).	to audience. Multiple minor errors and/or omissions OR a major error or omission with appearance.		overall appearance is distracting to audience.
Graphics	Use of graphics explains and reinforces text and presentation.	Minor error and/or omission with use of graphics (missing an explanation or better graphic needed to reinforce text).	Multiple minor errors and/or omissions OR a major error or omission with use of graphics.	Major errors with use of graphics.	Graphics missing or are superfluous to presentation.
Use of English	Correct use of English language (spelling, grammar, punctuation) throughout presentation.	Minor error and/or omission during presentation.	Multiple minor errors and/or omissions OR a major error or omission during presentation.	Several minor mistakes OR major errors in use of English.	Multiple minor and major errors in use of English.
Interaction with Reader	Presenter is able to provide a clear, coherent overview of poster contents using clear, precise language.	Minor error and/or omission in discussing key points of poster OR in speaking skills.	Multiple minor errors and/or omissions OR a major error or omission in discussing key points of poster or in speaking skills.	Major errors in discussing key points or in speaking skills.	Interaction with reader is poor (mumbling, poor pronunciation, etc.) or non-existent.
Professionalism & Deportment	Presenter looks and acts professionally throughout the seminar.	Presenter mostly looks and/or acts professionally throughout the seminar.	Presenter looks, but does not act (or vice versa) professionally throughout the seminar	Presenter needs work in acting professionally.	Presenter does not look and act professionally throughout the seminar.
Ability to answer questions	Presenter is able to answer questions from audience in a clear and coherent manner.	Minor error and/or omission while answering questions.	Multiple minor errors and/or omissions OR a major error or omission while answering questions.	Major errors or omissions while answering questions.	Presenter is unable to answer questions from audience in a clear, coherent manner.