

PHYS B. A. Major Portfolio Cover Sheet

Student name: _____
 Date admitted to major _____ Catalog Year: _____
 Intended Graduation Year and quarter: _____

Approved, June 2, 2008

Major Outcomes. The graduate will:	Artifact	Evaluation
1. apply the following concepts to analyze and interpret the physical behavior of systems of intermediate complexity: modern physics, optics, thermodynamics and other physics or physics-related sequence (such as classical field theory or quantum mechanics) Include evidence for applying one of the concepts from an upper-level class or equivalent		
2. apply the following mathematical tools to analyze and interpret the physical behavior of systems of intermediate complexity: integral and differential calculus, vector mathematics, vector calculus, differential equations, approximation techniques, linear algebra and eigenvalues Include evidence for applying one of the tools from an upper-level class or equivalent		
3. communicate scientific ideas through both oral and written means to a scientific audience and/or the public. Include evidence for meeting this outcome.		
4. use physics or physics-related knowledge to contribute to their community. Include evidence for meeting this outcome.		
5. apply the following in analyzing physical systems:		
Experimental Techniques		
Computational Techniques		
6. recognize, understand and value the relationship between the CWU physics curriculum and the upper level curriculum in another department in your program (such as your minor or another supporting program)		
7. recognize, understand, value and be able to apply the process of science		
8. effectively utilize library and electronic information resources		

Explanation of the criteria

E – Exceeds standard means the artifact: 1) clearly addresses the outcome, 2) is exceptionally well presented, 3) has no errors or the errors have been corrected or reflected upon in a written reflection, and 4) provides overwhelming evidence that the student has met the outcome.

M – Meets standard means the artifact: 1) clearly addresses the outcome, 2) is well presented, 3) has no distracting errors, and 4) provides sufficient evidence that the student has met the outcome.

F – Fails standard means the artifact: 1) does not address the outcome OR 1) is not well presented and 2) has numerous errors.