TECHNOLOGY TOOL PROJECT Rubric

Student(s): _____

Course: _____ Date: _____

Project: _____ Instructor: _____

Objective: *Students will use appropriate computer technology and research equipment to solve physics problems, understand/conduct research, and communicate their results.*

Measure: *Student's technology skills including computer based data collections, computational physics, computer software, and use of electronic journals will be assessed through course projects using a rubric.*

Target: *Physics majors on a 5 year rolling average will score an average of at least 3.0 out of 5.0 on all Technology Skills.*

Instruction: Assess each technology skill on this project and enter the physics major(s) performance score using a scoring system based upon effective application of the technology tool:

1 – Applied inappropriate technology tool
2 – Applied appropriate technology tool poorly
3 - Applied appropriate technology tool in a satisfactory manner
4 – Applied appropriate technology tool with better than average skill
5 – Applied appropriate technology tool with superior skill.
N/A – Not applicable

#	Technology Skill	Score
1.	Analysis of scientific data using a scientific spreadsheet (Excel, etc.)	
2.	Computer based equation solving software (Mathmatica, MATLAB, Maple, MathCad, etc.)	
3.	Presentation software (Power Point, etc.)	
4.	Research and Laboratory Equipment (Electronics, Detectors, Lasers, Astronomical Instrumentation, etc.)	
5.	Computer Technology (Programming, Hardware, Data Acquisition)	
6.	Electronic Resources (Electronic journals and literature search)	
7.	Word Processor (Latex, Word, etc.)	
8.	Video Analysis (Videopoint, Tracker, Logger Pro, etc.)	