

**Outcome 1b: An ability to use engineering tools necessary for engineering practice
Performance Criteria Scoring Rubrics**

Course: _____

Semester taught: _____

Type of Student Work Used for Assessment
(e.g., Homework #4, Exam #2 problem 3, final project): _____

Number of students in course: _____

Number of students sampled: _____

Rating Scale Element	0	Needs Improvement	1	2	Meets Expectations	3	4	Exceeds Expectations	5	N/A
Uses computer-based and other resources effectively in assignments and projects		Does not use engineering tools available for a problem, design, or report; may resort only to rough calculations done by hand and, possibly, incorrectly			Uses engineering tools when assigned for a problem, design, or report; the tool may occasionally be incorrectly applied or the results are used without analysis			Combines the use of appropriate engineering tools and techniques to solve an engineering problem, develop an engineering design, or complete an engineering report.		
Seeks and is able to interpret information on problems from multiple resources		Does not apply engineering analysis to a problem; does not use outside resources			Applies nominal engineering analysis to a problem; uses only one or two resources			Applies technical engineering analysis to problems; uses multiple resources when needed		