Writing Student Learning Outcome Worksheet

SolidWorks (Simulation)	**CDI67**
Name of Course	Course #
CDI	5/15/2009
Department	Date
Business/Computer Systems	
Division	

Outcome **1 sentence that describes a major piece of knowledge, skill, ability or attitude that students can demonstrate by the end of the course**	**Assessment** **Major Assignment, Project or test used to demonstrate or apply outcome**
De Anza CDI: Functioning as a designer using SolidWorks, the student will create an engineering document package which complies with industry-defined standards and shall include the following: • components modeled using CAD design tools • assemblies generated from multiple components • engineering drawings for components and assemblies	The documentation package, generated from CAD files will be submitted digitally as a Power Point, Microsoft WORD, or Adobe PDF and will include: • CAD sketches • CAD Models • Detail drawings • Assembly Drawings
As a result of successfully completing this course, the student will be able to do the following: A. Discuss the various types of structural loads that are experienced by machine elements. B. Design machine elements to withstand static, cyclic, and impact loading. C. Predict failure in machine elements due to static, cyclic, and impact loading. D. Discuss the mechanics of threaded fasteners, power screws, springs, bearings, shafts, brakes, and other power transmission components.	
