SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number:	ENGR 203	Department:	Engineering & Science Trans.

Course Title: Computer Aps in Engineering Semester: Spring Year: 1997

Objectives/Competencies

Course Objective	Competencies	
The student learns to use the computer diskette as an information exchange medium.	1. Submit all homework and projects on floppy disk.	
 2. The student becomes proficient at using the following software as engineering problem-solving tools: a. Quattro Spreadsheet b. CADKEY Design 	 Solve problems using spreadsheet features: Math functions, graphing, iteration, matrix calculations. Draw wireframe models in 3-D, using all features available in CADKEY. 	
3. The student performs a "Reverse-Engineering" Design Project (Design for Assembly)	 Draw exploded assembly drawings and standard orthographic projections. Evaluate a mass-produce item for cost of assembly. Redesign above item for improved cost of assembly. Prepare and deliver written and oral business report on design project. 	