SYLLABUS

CURRICULA IN WHICH COURSE IS TAUGHT: Computer Aided Design

COURSE NUMBER/TITLE: CAD 295 Advanced Technical Drafting V

DIVISION: Business & Engineering Technologies

CREDIT HOURS: 3 HRS/WK LEC: 2 HRS/WK LAB: 2 LEC/LAB COMB: 4

I. CATALOG DESCRIPTION:

CAD 295 Advanced Technical Drafting V (3 cr.)--Intersections of plane surfaces, lines and planes, skew lines and surfaces; intersections of pyramids, prisms and other shapes; developments, sheet metal drafting, screw threads and fasteners, keys and springs.

II. RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES IN WHICH IT IS TAUGHT:

- Demonstrate professional drafting practices.
- Choose proper assembly, sub-assembly, detail and section views as necessary to completely illustrate the design intent of a component.
- Define and draw objects using proper size, shape, form and spatial relationships as needed to complete a drawing package.

III. REQUIRED BACKGROUND/PERQUISITES:

A proficiency in primary and secondary auxiliary drawing (provided in CAD 116).

IV. COURSE CONTENT:

- Assemblies:
- Subassemblies:
- Details:

V. THE FOLLOWING GENERAL EDUCATION OBJECTIVES WILL BE ADDRESSED IN THIS COURSE

x	Communications	X Computational and Computer Skills
x_	Learning Skills	Understanding Culture and Society
X	_Critical Thinking	X Understanding Science and Technology
	Interpersonal Skills and Human Relations	Wellness

VI. LEARNER OUTCOMES

VII. EVALUATION

 Learner outcome (starts with verb) Develop the ability to interpret partial orthographic drawings, utilize primary and secondary auxiliaries to create intersection drawings 	Evaluation method Lab performance and correct completion of assignments
 Learner outcome Develop the ability to create flat developments from normal working drawings and assemble them into appropriate shapes. 	Evaluation method Lab performance and correct completion of assignments
 Learner outcome Develop the ability to solve an elementary design problem and develop the assembly drawing. 	Evaluation method Lab performance and correct completion of assignments