

SYLLABUS

CURRICULA IN WHICH COURSE IS TAUGHT: Drafting and Design

COURSE NUMBER/TITLE: DRF 210-01 Advanced Technical Drafting IV

DIVISION: Business & Engineering Technologies

CREDIT HOURS: 4 HOURS/WK LEC: 1 HOURS/WK LAB: 9 LEC/LAB COMB: 10

I. CATALOG DESCRIPTION:

DRF 210-01 Advanced Technical Drafting IV (4 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:

- Demonstrate professional drafting practices.
- Choose proper manufacturing processes and materials.
- Define and draw objects using proper size, shape, form and spatial relationships

III. REQUIRED BACKGROUND/PREREQUISITES:

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

IV. COURSE CONTENT:

- Intersections:
- Developments:
- Fasteners:
- The ability to solve an elementary design problem and select the proper fasteners, keys, etc., and develop the assembly drawing.

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

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| <input checked="" type="checkbox"/> Communications | <input checked="" type="checkbox"/> Computational and Computer Skills |
| <input checked="" type="checkbox"/> Learning Skills | <input type="checkbox"/> Understanding Culture and Society |
| <input checked="" type="checkbox"/> Critical Thinking | <input checked="" type="checkbox"/> Understanding Science and Technology |
| <input type="checkbox"/> Interpersonal Skills and Human Relations | <input type="checkbox"/> Wellness |

VI. LEARNER OUTCOMES**VII. EVALUATION**

Learner outcome <ul style="list-style-type: none">• The ability to Identify partial orthographic drawings, utilize primary and secondary auxiliaries to create intersection drawings.	Evaluation method Lab Performance and correct completion of Lab exercises and In class assignments
Learner outcome <ul style="list-style-type: none">• The ability to create flat developments from normal working drawings and assemble them into appropriate shapes.	Evaluation method Lab Performance and correct completion of Lab exercises and In class assignments
Learner outcome <ul style="list-style-type: none">• The ability to interpret thread specifications and draw relevant threads	Evaluation method Lab Performance and correct completion of Lab exercises and In class assignments
Learner outcome <ul style="list-style-type: none">• The ability to select and specify keys, rivets, rings, and springs.	Evaluation method Lab Performance and correct completion of Lab exercises and In class assignments
Learner outcome <ul style="list-style-type: none">• The ability to solve an elementary design problem and select the proper fasteners, keys, etc., and develop the assembly drawing.	Evaluation method Lab Performance and correct completion of Lab exercises and In class assignments