

MODULE DES3130: DRAFTING/DESIGN STUDIO 3

Level: Advanced

Theme: Drafting for Design and Technical Drawing Skills

Prerequisite: None

Module Description: Students apply rendering techniques to line drawings (base or developed), concentrating on light, colour and various media; e.g., coloured pencils, marker pens, water colours, computer rendered. Presentation techniques are used to compose high quality illustrations to communicate design solution, such as rendered drawings, context backgrounds, collage and montage techniques, titles, text.

Module Parameters: Basic sketching and drawing tools and equipment, drafting tables, equipment and materials and/or a computer with a computer-aided design (CAD) software package, a printer and/or plotter. Specialized equipment or facilities depend on the approach taken to the module.

Note: It is recommended that students have access to instruction from an individual with formal, specialized training in a design discipline, drafting and CAD.

Supporting Module: DES3110 Drafting/Design Studio 1

Curriculum and Assessment Standards

| Module Learner Expectations | Assessment Criteria and Conditions | Suggested Emphasis |
|--|---|--------------------|
| <p><i>The student will:</i></p> <ul style="list-style-type: none">use various rendering techniques and media to create high quality visual representations of design solutions | <p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none">production of high quality rendered drawings within the context of a teacher- and/or student-specified advanced level assignment. <p><i>Assessment Tool</i> <i>Project Assessment: Drafting/Design Studio 3 (DES3130-1)</i></p> <p><i>Standard</i> <i>Performance rating of 2 for each criteria</i></p> | 60 |
| <ul style="list-style-type: none">create well-composed presentations of design solutions, using a combination of materials and methods, such as rendered drawings, photographs, text, theme boards, CAD, video | <ul style="list-style-type: none">presentation of products for public display and discourse during presentation/critique. <p><i>Assessment Tool</i> <i>Presentations/Reports: Drafting for Design and Technical Drawing Skills (Advanced) (DESPRE-3E)</i></p> <p><i>Standard</i> <i>Performance rating of 3 for each criteria</i></p> | 20 |

MODULE DES3130: DRAFTING/DESIGN STUDIO 3 (continued)

| Concept | Specific Learner Expectations | Notes |
|--------------------|---|-------|
| Skills Development | <p><i>The student should:</i></p> <ul style="list-style-type: none"> • using existing drawings such as isometric or perspective views, exploded views or cut-aways from other modules, (e.g., Drafting/Design Studio modules) or preselected by the teacher, create a set of rendered drawings using appropriate tools and materials (e.g., water colour, marker pens, CAD), which effectively communicates aspects of the design solution such as its general appearance, textures, materials, the design in context, the design under different lighting conditions. Examples include colour possibilities for a telephone design, rendered cut-away of a running shoe to show internal materials, entrance of a townhouse project, cut-away of a restaurant to show utilities • demonstrate competency in at least two rendering techniques; e.g., pencil and computer rendering • research, select and use materials, computer applications, as appropriate • compose high quality illustrations using rendered drawings, context backgrounds, photographs, collage and montage techniques, titles, text, etc., for visual presentation of design solutions. Examples include: <ul style="list-style-type: none"> – a well-composed board comprising a rendering of a lawn mower, partial exploded view to show internal workings, a photograph illustrating the product context, informative text and a title – an architectural illustration board comprising rendered elevations, sections and plans, text and titles – a sequence of rendered CAD images. | |

MODULE DES3130: DRAFTING/DESIGN STUDIO 3 (continued)

| Concept | Specific Learner Expectations | Notes |
|--|--|---|
| Applied Problem Solving | <p><i>The student should:</i></p> <ul style="list-style-type: none"> • evaluate and apply the best way of rendering a drawing of a design solution through examination of the design, sketchbook exploration, peer and teacher discussion and through examination of existing successful examples • evaluate and apply the optimum way of presenting the design solution in a two-dimensional visual format, which may include CAD modelling (but does not include three-dimensional physical models). | |
| Presentation, Design Journal and Portfolio | <ul style="list-style-type: none"> • see Specific Learner Expectations for 2-D Design Studio 1 and Drafting/Design Studio 1. | <p>Maintain a sketchbook of rendering techniques, examples of various media, etc.</p> <p>Assemble a set of high quality illustrations in a presentation format from each assignment or project, for inclusion in a portfolio.</p> |