

MODULE DES3120: DRAFTING/DESIGN STUDIO 2

Level: Advanced

Theme: Drafting for Design and Technical Drawing Skills

Prerequisite: None

Module Description: Students develop complex explanatory drawings from base (line) drawings, that may include exploded views, cut-aways, revolutions, sectional, and shadow and reflection construction. This is a skill-building module with the emphasis on explanatory line drawings.

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
<i>The student will:</i> <ul style="list-style-type: none">use explanatory drawing techniques; e.g., exploded views, cut-away views, shadow and reflection construction, to convey and communicate complex design solutionsuse appropriate drawing techniques to illustrate principles of assembly, such as mechanical function, usage	<i>Assessment of student achievement should be based on:</i> <ul style="list-style-type: none">production of pictorial drawings within the context of a teacher- and/or student-specified advanced level assignment. <i>Assessment Tool</i> <i>Project Assessment: Drafting/Design Studio 2 (DES3120-1)</i> <i>Standard</i> <i>Performance rating of 2 for each criteria</i>	50
	<ul style="list-style-type: none">selection and application of freehand, mechanical and/or computer-aided techniques in the production of illustrative pictorial drawings of designed solutions. <i>Assessment Tool</i> <i>Project Assessment: Drafting/Design Studio 2 (DES3120-1)</i> <i>Standard</i> <i>Performance rating of 2 for each criteria</i>	10

MODULE DES3120: DRAFTING/DESIGN STUDIO 2 (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 (from other modules or preselected by teacher), create a set of explanatory drawings (e.g., exploded, cut-aways, sections), which effectively communicate aspects of the design solution such as its assembly, function, use. Examples include exploded view of a hair dryer, cut-away of a running shoe, functions of spaces in a house, traffic circulation in public spaces • demonstrate competency in freehand explanatory techniques; e.g., accuracy in proportion and scale using freehand perspective grids, underlay isometric grids • demonstrate competency in instrument and/or CAD techniques for producing accurate explanatory views of design solutions • select and use appropriate drawing instruments, materials, computer applications, as required. 	
Applied Problem Solving	<ul style="list-style-type: none"> • describe the best way to illustrate the assembly, function and/or use of a design solution through examination of the design, sketchbook exploration, peer and teacher discussion, and through examination of existing successful examples. 	
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>Assemble a set of high quality explanatory drawings from each assignment or project, for inclusion in a portfolio or for further development in other modules such as Drafting/Design Studio 3.</p>

