

MODULE DES3110: DRAFTING/DESIGN STUDIO 1

Level: Advanced

Theme: Drafting Design and Technical Drawing Skills

Prerequisite: None

Module Description: Students concentrate on various drawing and drafting types to illustrate design concepts and solutions, including freehand drawings, illustrative views, isometric drawings, perspective drawings, axiometric drawings, surface developments (flat pattern). This is a skill-building module with the emphasis on line drawing.

Note: Completed drawings from this module may be used as preparatory material for subsequent drafting/design studio or technical drawing studio modules.

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: DES2040 Drafting/Design Applications

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 freehand and mechanical and/or computer aided drafting techniques to produce solutions for complex projects in areas such as architecture, fashion, product, furniture and/or other design applications	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none">production of “line” pictorial 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 1 (DES3110–1)</i></p> <p><i>Standard</i> <i>Performance rating of 2 for each criteria</i></p>	50

MODULE DES3110: DRAFTING/DESIGN STUDIO 1 (continued)

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> • apply various drawing construction principles to produce pictorial drawings; e.g., isometric, perspective and axiometric • apply design detailing, and make rational judgements with respect to proportion, scale, composition, codes and standards • select, organize and present design projects 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> • selection and application of freehand, mechanical and computer aided techniques in the production of illustrative pictorial drawings of designed solutions. <p><i>Assessment Tool</i> <i>Project Assessment: Drafting/Design Studio 1 (DES3110-1)</i></p> <p><i>Standard</i> <i>Performance rating of 2 for each criteria</i></p>	10
	<ul style="list-style-type: none"> • accuracy and precision of drawings and of detailing and notations for drawings. <p><i>Assessment Tool</i> <i>Authorized resources for examples</i> <i>Project Assessment: Drafting/Design Studio 1 (DES3110-1)</i></p> <p><i>Standard</i> <i>Performance rating of 2 for each criteria</i></p>	20
	<ul style="list-style-type: none"> • maintenance and presentation of a module-based design portfolio and a design journal. Emphasis during the presentation/critique of the module-based portfolio with the teacher and/or peers will be placed on the selection, use and technical execution of drawing styles chosen, and the student's discourse regarding: <ul style="list-style-type: none"> – the adequacy of the drawings for illustrating the designed solution – the judgements made during the assignment – why these were made – the effect they had in shaping the final result. <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 DES3110: DRAFTING/DESIGN STUDIO 1 (continued)

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> demonstrate basic competencies. 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> observations of individual effort and interpersonal exploration during the learning process. <p><i>Assessment Tool</i> <i>Basic Competencies Reference Guide and any assessment tools noted above</i></p>	<p>Integrated throughout</p>

Concept	Specific Learner Expectations	Notes
<p>Skills Development</p>	<p><i>The student should:</i></p> <ul style="list-style-type: none"> demonstrate competency in at least two different drawing types such as isometric and perspective to illustrate complex design concepts and solutions. Drawings are to be completed as line drawings only; i.e., no surface textures, shading, etc. demonstrate competency in freehand drawing construction techniques; e.g., accuracy in proportion and scale using freehand perspective grids, underlay isometric grids, etc. demonstrate competency in instrument and/or CAD techniques for construction of accurate, illustrative views of design solutions select and use appropriate drawing instruments, materials, computer applications. 	<p>This may be drawing existing objects (e.g., calculator, house, running shoe) or design work from previously completed or current design studio modules (e.g., a furniture design, bird house, backpack, kitchen interior).</p>
<p>Applied Problem Solving</p>	<ul style="list-style-type: none"> resolve problems of design detailing during drawing projects, with attention to such aspects as proportion, scale, composition, codes and standards (as applicable). 	

MODULE DES3110: DRAFTING/DESIGN STUDIO 1 (continued)

Concept	Specific Learner Expectations	Notes
Presentation, Design Journal and Portfolio	<p><i>The student should:</i></p> <ul style="list-style-type: none">• see Specific Learner Expectations for 2-D Design Studio 1• maintain and update a portfolio as described in 2-D Design Studio 1. Additions from this module would include all project-related material (e.g., sketches, notes, drawings completed by hand or with computer assistance), the design journal, and appropriate supplementary material.	Assemble a set of high quality, illustrative line drawings from each assignment or project, for inclusion in a portfolio or for further development in other modules.