

Alabama Department of Postsecondary Education

Representing the Alabama Community College System

STATEWIDE CAREER/TECHNICAL EDUCATION COURSE ARTICULATION REVIEW MINUTES

Articulation Agreement Identifier nstruction version number (e.g.,		_ Identifier is the	postsecondary course prefix follo	wed by Plan-of-
applicable CIP code(s):	15.1301			
Postsecondary course prefix, nu	ımber, and title: DDT 111 F	undamentals of D	rafting and Design Technology	
Secondary Course(s) of Study: _	430110/410005 - Introduc	ction to Drafting Do	esign	
nitial Review: October 15.	. 2009 Annı	al DPE Review:	February 15, 2012	
Effective date: Fall Semester 20	<u>011.</u>			

Notes:

1 Skills and knowledge contained in the postsecondary course objectives must be present in the corresponding secondary objectives for a "match" to occur.

Course Content Analysis (all postsecondary course objectives must be sufficiently addressed in the secondary courses):

- 2. Postsecondary and Secondary objectives must reflect similar content and performance levels before the course articulation agreement will be recommended to the TEDAC Oversight Committee.
- 3. More than one Secondary course may be used in order to articulate to a Postsecondary course.

Postsecondary Course Objectives	Secondary Course(s) and Location(s)	TEDAC Comments
Competency:	Introduction to Drafting and Design, Unit 2, Safety	
Perform tasks in safe manner		
	Content Standard	
Course Objectives:	2. Demonstrate the safe handling of drafting design tools	
Identify safety procedures for specific situations	according to classroom and environmental practices, procedures, and regulations.	
Learning Objectives	procedures, and regulations.	
Identify drafting lab safety rules	Learning Objectives	
Identify drafting lab safety procedures	Follow general safety procedures.	
Explain the appropriate drafting lab rules	2. Adjust equipment for maximum comfort and usability.	
Define appropriate drafting lab procedures	3. Describe ergonomic considerations.	
	Introduction to Drafting and Design, Unit 4, Drafting	
Competency:	Instruments and Techniques	
Use proper drafting tools and equipment	·	
	Content Standard	
Course Objectives:	4. Demonstrate proper usage of drafting instruments.	
Use tools as specified for a task	Examples: architectural scales, graphite, lead holders	
	Utilizing computer software for drafting applications	
Learning Objectives	Reproducing drafting originals	
Identify basic drafting tools	Examples: print, plot, blueprint, photocopy	
Explain basic drafting tools		
	Learning Objectives	
	Identify basic drafting tools, use and care for various drafting tools.	
	drafting tools. 2. Distinguish among the types of drafting media and leads.	
	3. Use drafting equipment in a safe and efficient manner.	
	See draiting equipment in a safe and emicient marrier. Demonstrate basic drafting skills in the proper use of	
	drafting tools, equipment, supplies, and materials	
	Illustrate technical techniques for drawing lines.	
	Introduction to Drafting and Design, Unit 5, Lettering and Drawing Techniques	

Postsecondary Course Objectives	Secondary Course(s) and Location(s)	TEDAC Comments
	Content Standard	
Competency:		
Draw geometric figures and construction	5. Demonstrate drafting techniques for freehand sketching,	
	lettering, geometric figures, and the alphabet of lines to create	
Course Objectives:	a drawing.	
Draw geometric figures and construction		
	Learning Objectives	
Learning Objectives		
 Identify standard paper sizes in metric and standard sizes 	Apply sketching knowledge and techniques to solve the	
Identify the proper title block	problem identified by the technical committee according to	
Identify basic geometric shapes and constructions	ANSI standards.	
	2. Explain the importance of lettering, the purpose of	
	guidelines, basic stroke techniques, and correct proportioning	
	and spacing techniques.	
Competency:	3. Letter clear, neat freehand notes and dimensions on a	
Demonstrate proper lettering techniques	technical drawing or sketch	
	4. Illustrate techniques for technical lettering.	
	5. Produce lettering using various drafting instruments.	
Course Objectives:	6. Identify different styles of lettering.	
Perform proper lettering techniques	7. Demonstrate how the various linetypes and line weights are	
	used on drawings.	
	8. Make freehand drawings to solve problems and convey	
	ideas.	
	Illustrate Technical Techniques to Construct Basic	
	Geometric Forms.	
	10. Identify the types of sketches.	
	11. Make freehand drawings to solve problems and convey	
	ideas.	
	12. Sketch a diagram to correct proportional sizes.	
	13. Select the appropriate scale for the given drawing problem	
	according to ANSI standards.	
	14. Derive proper scaling and dimensions acceptable to	
	industrial requirements on each assigned drawing.	
	15. Explain the different types of scales utilized in technical	

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Postsecondary Course Objectives	Secondary Course(s) and Location(s)	TEDAC Comments
	drafting and how they are used for measurements.	
Competency: Sketch and draw orthographic views of objects	Introduction to Drafting and Design, Unit 6, Multi-View Drawigns	
Course Objectives:	Content Standard	
Sketch and draw basic orthographic views of objects Learning Objectives Explain orthographic sketching and drawing	6. Construct basic multi-view two-dimensional drawings, including visualizing principle views, creating third-angle projection, selecting proper drawing scale, and organizing layout of primary views.	
	Learning Objectives 1. Explain what a multi-view drawing is. 2. Define orthographic projection. 3. Explain the relationship of orthographic projection to multiview drawing. 4. Identify the views necessary to make a multi-view drawing. 5. Construct basic multi-view two-dimensional drawings. • Visualization of views • Third-angle projection • Layout and balance of views 6. Describe the difference between first-angle and third-angle projection. 7. Determine the number of views needed to describe fully the shape and size of an object. 8. Locate multiple views on a drawing according to accepted principles of drafting. 9. Create the various views of an object. 10. Develop a multi-view drawing from the initial idea to a finished drawing using board drafting.	