## **Conneaut School District**

Planned Course for:	DRAFTING TECHNOLOGY III	Date Revised: July 2000	
Course Description:			
Drafting III is designed	to stimulate the student learning. A broad foundation	of the subject is necessary as the student may sele	

as the student may select detailed projects in a number of different study areas. Areas of study may include those of Drafting I and II, architectural drafting, aerospace drafting, machine drafting, threads and fasteners, electrical and electronic drafting, cams and gears and welding. Computer aided drafting can be utilized to enhance all advanced areas.

Length of course: (X) Semester – I	ntensive Schedule	( ) Quarter	( ) Other
Type of Offering: ( ) Required	( ) Elective	( ) Selective	

Credit: One

Prerequisite (s): Drafting Technology II with a minimum of 73% average

Goal:

The goals Drafting Technology III are:

- To help every student acquire the knowledge, understanding and appreciation of science and technology. (1)
- To help every student develop self-understanding and a feeling of self-worth. (2)
- To help every student acquire the knowledge, skills and attitudes necessary to become a self-supporting (3) member of society.
- To help every student acquire skills in mathematics. (4)
- To help every student develop analytical thinking skills. (5)

## COUR JBJECTIVES:

## The student:

- (1) Will be able to hand letter vertical Gothic letters and numerals and space them correctly (3.5B)
- (2) May develop various drawings to produce a complete set of architectural plans to be used in the construction of a model (3.6 & 3.7)
- (3) May develop a set of plans for use in aerospace drafting (3.6 & 3.7)
- (4) May develop a set of plans for a particular machine part design (3.6 & 3.7)
- (5) May develop a set of plans for a particular machine part design (3.6 & 3.7)
- (6) May develop a set of plans for a detailed thread or fastener. (3.6 & 3.7)
- (7) May develop a set of plans for an electrical or electronic device (3.6 & 3.7)
- (8) May develop drawings for various cams and gears (3.6 and 3.7)
- (9) May develop drawings for welding construction (3.6 & 3.7)



Course Contents By Units:	Learning Strategies including	Assessment Measures/Expected
90 Days (85 min. period)	Enrichments/Adaptations	Levels of Achievement
Letters (2 days)		
Lettering styles	• Lecture	• Exams: Teacher Made – Standardized
Guidelines and spacing	Discussion	Performance Tests (Drawing)
Techniques	Question / Answer	Teacher Observation
• Instruments	Cooperation Learning	Class Participation
Architectural Drafting (*88 days)	Demonstration	
Floor plans	Drawings	
Elevation	Guest Speakers	
Pictorial	Individually Guided Instruction	Instructional Materials
Details	• Exams	·
Aerospace Drafting	Note Taking	• Text: Mechanical Drawing – 12 <sup>th</sup>
	• CD-ROM	Edition, Glencoe, ©1997
Machine Drafting	·	Student Workbook: Mechanical
		Drawing – 12 <sup>th</sup> Edition, Glencoe,
Threads and Fasteners		©1997
		Reference Books
Electrical and Electronic Drafting		Video Tapes
		Transparencies
Cams and Gears		• CD-ROM
		Worksheets
Welding		Instruction Sheets
and the second		Models
Computer Aided Drafting		
+O an mana of the topics will be		
*One or more of the topics will be		
covered depending upon student interest	1	

Course Contents By Units: 90 Days (85 min. period)	Learning Strategies including Enrichments/Adaptations	Assessment Measures/Expected Levels of Achievement	
Fasteners (10 days)  • Screws and screw threads  • Classifications			
Bolts and nuts			
Other fasteners			
Surface Developments (10 days)			
Drafting for sheet metal			
Development	<del>.</del>	Instructional Materials	
Parallel line development			
Radial line development			
Triangulation			
Computer Assisted Drafting – "CAD"			
(incorporated throughout the course)			
CAD concepts	•		
Start-up and shut-down of a CAD			
system			
Grouping	Mac.		
Demonstration			
<ul> <li>Project making-drawings</li> </ul>			
Resource speakers		# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Individual guided instruction			
Test-various kinds			
Note taking			
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