

NORTHWEST -SHOALS COMMUNITY COLLEGE
Drafting and Design Technology
DDT 112 Introductory Technical Drawing

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Credit Hours: 3 **Contact:** 5 Hrs. **Lecture:** 2 hrs. **Lab:** 3 Hrs.

Instructor: Alton Rice

Office Hours: As Posted

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Program/Degree: Drafting and Design Technology / Associate in Applied Science Degree

Description: This course covers orthographic projection and sectioning. Emphasis will be placed on the theory as well as the mechanics of orthographic projection and shape description, the relationship of orthographic planes and views, the views and their space dimensions, the application of the various types of sections, and drawing reproduction. Upon completion, students should have an understanding of orthographic projection and be able to identify orthographic planes, produce orthographic views of objects, and apply the various sectioning techniques and methods.

Prerequisites: None

Text: Engineering Drawing and Design – Third Edition
Madsen/Folkestad/Schertz/Shumaker/Stark/Turpin
Delmar/Thompson Learning Publishers

Supplies: Standard Drafting Tool Kit

Course Rationale: Orthographic projections are three-dimensional objects, represented by separate views arranged in a standard manner that are readily understood by the viewer. In this process the drafter prepares precise, scaled, and clearly presented drawings from which the project depicted can be built. Sectioned views are necessary to expose the hidden details of a part so that adequate dimensioning can take place. To meet these needs, this course presents to the student drafter;

1. An introduction to orthographic projection and sectioning.
2. The role and preparation of orthographic projections using drawing instruments.

Course Objectives: Upon completion of this course, the student will be able to:

1. Use basic drafting techniques to create orthographic projections.
2. Identify the orthographic planes.
3. Apply various sectioning techniques and methods.

Assignment Schedule

<i>Week/ Meeting</i>	<i>Topic</i>	<i>Assignments</i>
1	Chapter 7 – Multiviews Pages 171 – 174	As Assigned By Instructor
2	Chapter 7 – Multiviews Pages 175 – 177	As Assigned By Instructor
3	Chapter 7 – Multiviews Pages 178 – 183	As Assigned By Instructor
4	Chapter 7 – Multiviews Pages 184-189	As Assigned By Instructor
5	Chapter 7 – Multiviews Instrument practice/Math problems	As Assigned By Instructor
6	Chapter 7 – Multiviews Instrument practice/Math problems	As Assigned By Instructor
7	Chapter 7 – Multiviews Instrument practice/Math problems Review for test	As Assigned By Instructor
8	Chapter 14 – Sections, Revolutions, and Conventional Breaks Pages 421 – 422 Test (Chapter 7)	As Assigned By Instructor
9	Chapter 14 – Sections, Revolutions, and Conventional Breaks Pages 422 – 426	As Assigned By Instructor
10	Chapter 14 – Sections, Revolutions, and Conventional Breaks Pages 428 – 430	As Assigned By Instructor
11	Chapter 14 – Sections, Revolutions, and Conventional Breaks Pages 430 – 433	As Assigned By Instructor
12	Chapter 14 – Sections, Revolutions, and Conventional Breaks Instrument Practice	As Assigned By Instructor

Assignment Schedule**Week/
Meeting #****Topic****Assignments**

13	Chapter 14 – Sections, Revolutions, and Conventional Breaks Test (Chapter 14)	As Assigned By Instructor
14	Review for Final Exam	Additional Lab Time
15	Final Exam (Chapters 7 & 14)	Make Sure All Lab Problems Are Turned In.

<u>Grading Policy:</u> <i>Write your score in each block!</i>	<u>Score 1</u>	<u>Score 2</u>	<u>Score 3</u>	<u>Total Score</u> <i>(Possible Score)</i>
Chapter Test – Chapters 7	Chap 7 (300)			(300)
Lab Assignments – Students will receive one lab grade (cumulative average of all assignments in that chapter) per chapter. Groups of assignments may be given one grade or assignments may be graded individually. This will be at the instructors' discretion.				(300)
Final Exam – Chapter 14			Chap 14 (300)	(300)
Attendance, Attitude, & Participation (100 points) Grade will be based on # of absences, daily classroom attitude, and participation in class discussions)				(100)
YOUR TOTAL SCORE IS	<input type="text"/>			(1000)

GRADES WILL BE ASSIGNED AS FOLLOWS:

A	=	900 to 1000 Points
B	=	800 to 899
C	=	700 to 799
D	=	600 to 699
F	=	Less Than 600

MISCELLANEOUS INFORMATION:

- This syllabus is subject to amendment by the Instructor at his or her discretion. Students shall be notified of any such amendment.
- Northwest-Shoals Community College's policy regarding academic honesty will be **strictly enforced!** As a common courtesy to the instructor, you should attend classes promptly at specified starting times. If you are going to be absent, for any reason, you should contact the instructor as soon as possible. This will establish communications with the instructor about the possibility of making up your work.
- Make-up test and assignments shall be given on an individual basis and only with a proper excuse.
- Class attendance is an important part of learning, and is required in the Drafting curriculum. **If a student is absent more than 20% of class meetings that student may receive a grade of "F" for the course.**
- It is "**your**" responsibility to contact the instructor for make-up test and missed assignments. If you are absent for a test or assignment, because of a proper excuse, you must take the test or make up the assignment, at the next regularly scheduled class meeting. **If you refuse to do this, you will receive a "0" as the grade for that particular test or assignment.**
- Completing laboratory assignments is an integral part of your training. **All students must satisfactorily complete at least 75% of all daily lab assignments/ graded activities to receive a passing grade in the course.** The exact number of assignments for the course shall depend on the abilities of the entire class as a whole, and shall be determined by the end of the semester. **If a student does not complete "75%" of the total number of assignments, the student will receive a grade of "F" for the course.**

AMERICANS WITH DISABILITIES ACT (ADA)

It is the policy of Northwest-Shoals Community College to comply with the Americans with Disabilities Act (ADA). Any student covered under this act needing and desiring reasonable accommodations for this class should **notify the Instructor and the Department of Student Services, during the first week of class.**