

NORTHWEST -SHOALS COMMUNITY COLLEGE

Drafting and Design Technology

DDT 121 Intermediate Technical Drawing

Instructor: Alton Rice
Office Hours: As Posted
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Credit hours: 3 hrs. **Contact:** 5 hrs. **Lecture:** 2 hrs. **Lab:** 3 hrs.

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

Description: This course introduces the student to the basic techniques of pictorial drawing. The course includes isometric drawing, methods of layout and construction, shading, exploded assemblies, perspectives, press-on materials, special templates, and the use of CADD to make pictorial drawings.

Prerequisites: DDT 111, 112, 103 or permission of instructor

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

Supplies: Standard Drafting Tool Kit

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

- ❖ Use pictorial drafting techniques to create basic technical illustrations.
- ❖ Use isometric ellipse templates to construct circular shapes and arcs.
- ❖ Develop circular shapes and arcs in isometric using the four center approximate ellipse method
- ❖ Emphasize areas for highlighting and darkening to be used in basic shading techniques.
- ❖ Identify materials and equipment used in technical illustration.
- ❖ Develop axonometric, oblique, and perspective drawings.

Assignment Schedule

Week/ Meeting	Topic	Assignments
1	Course Introduction - Syllabus Introduction to Pictorial Drawing - Chapter 19, Pages 652 – 653	As Assigned By Instructor
2	Isometric Projection Box-in Method, Centerline Layout Method Pages 654 – 656	As Assigned By Instructor
3	Isometric Construction Techniques Regular, Reverse, and Long-axis Isometric Pages 656 – 658	As Assigned By Instructor
4	Isometric Sections Pages 658 – 659	As Assigned By Instructor
5	Pictorials of Threads and Fasteners Pages 659 – 660	As Assigned By Instructor
6	Photo Illustration, Exploded Assemblies Pages 662 – 663 Review for Test – Chapter 19 - Isometrics	As Assigned By Instructor
7	Test – Chapter 19 - Isometrics Perspective Drawing – An Overview Pages 664 – 665	As Assigned By Instructor
8	Perspective Drawing – One Point Perspectives Pages 665 – 668	As Assigned By Instructor
9	Perspective Drawing – Two Point Perspectives Pages 665 – 668	As Assigned By Instructor
10	Perspective Drawing – Three Point Perspectives Pages 665 – 668	As Assigned By Instructor
11	Perspective Drawing – Three Point Perspectives Pages 665 – 668	As Assigned By Instructor
12	Perspective Drawing – Three Point Perspectives Pages 665 – 668	As Assigned By Instructor
13	Basic Shading Techniques – Line Shading, Fillets and rounds Pages 668 – 670	As Assigned By Instructor
14	Basic Shading Techniques – Line Shading, Fillets and rounds Pages 668 – 670 Review for Final Exam – Chapter 19	As Assigned By Instructor
15	Final Exam – Chapter 19 – Isometrics/Perspectives/Shading Techniques	

<u>Grading Policy:</u> Write your score in each block!	<u>Score 1</u>	<u>Score 2</u>	<u>Score 3</u>	<u>Total Score</u> (Possible Score)
Chapter Test – Chapter 19 – Isometric (300 Points)	Chapter 19 (300)			(300)
Lab Assignments – Students will receive one lab grade (cumulative average of all assignments in that section) per defined section. Groups of assignments may be given one grade or assignments may be graded individually. This will be at the instructors' discretion. (125 Points Each Section – 250 Total)	Isometrics (125)	Perspectives (125)		(250)
Final Exam – Chapter 19 Isometrics and/or Perspectives & Shading (300 Points)			Chapter 19 (300)	(300)
Attendance, Attitude, & Participation (150 points) Grade will be based on # of absences, daily classroom attitude, and participation in class discussions and completing assignments (Chapter questions).	# of Absences			(150)
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.**