Bergen Community College Division of Math, Science and Technology Department of Industrial & Design Technology

Course Syllabus DFT 282 Technical Illustration

Semester and year:				
Course Number:				
Meeting Times and Locations:		Tuesdays	6:15pm -10:30pm	
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Instructor:	Jesus Marme	ol		
Office Location:				
Phone:				
Office Hours:				
Email Address:				

COURSE DESCRIPTION:

COURSE CONTENT:

DFT 282 Technical Illustration details the techniques used in the preparation of pictorial technical material for illustration and publication. Advanced drawing techniques in axonometric, oblique, and perspectives are covered as well as basic shading methods used in illustration. Illustration techniques on CAD are also explored.

2 lecture, 2 labs, 3 credits Prerequisites: DFT 107 and DFT 207 Co-requisites: None

STUDENT LEARNING OBJECTIVES:

As a result of meeting the requirements in this course, students will be able to:

Student performance on these objectives will be measured by:

1.	Demonstrate techniques used in advanced pictorial drawing.	Drawing exercises.
2.	Demonstrate techniques used in surface treatment and shading of pictorial drawings.	Drawing exercises.
3.	Identify the need for and appreciation of good illustrative drawing in the advancement of products in the wholesale and retail markets.	CAD drawing assignments and independent project illustrations.
4.	Evaluate different software programs used for design illustration.	CAD drawing assignments and independent project illustrations.

<u>Chapter</u>	<u>Topic</u>
5	Isometric Drawing
5	Dimetric and Trimetric Drawing
6	Oblique Drawing
7	Perspective Drawing
8	3D Modeling
9	Shading Techniques
12	Airbrush Techniques

Technical Illustration, Techniques and Applications, Dennison, John A., Johson, Charles D., Goodheart Willcox Publishers, 2003

Architectural Graphics 4th Edition, Francis D.K. Ching. Wiley, John & Sons, 2002

ILLUSTRATION REQUIREMENTS:

Five illustrations will be required using various shading techniques and drawing areas to include the following:

Shading Techniques

Drawing Areas

- 1. Object line shading
- 1. Isometricding2. Oblique
- Open and solid line shading
 Stiple/Smudge shading
- Pressure sensitive shading
- 5. Cast shadows

- 3. Diametric Trimetric
- Three major illustrations will be required to include:
 - 1. An Architectural Rendering
 - 2. A CAD Render Illustration
 - 3. A Product Illustration

All illustrations will be completed in ink on illustration paper except the CAD renderings, Google SketchUp renderings and PhotoShop renderings.

Drawing Instruments Required:

- 1. All instruments that would be required in a drafting class.
- 2. A minimum four pen technical pen set.
- 3. Any templates for drawing aids a student feels necessary to complete the above illustrations.

EVALUATION:	Five Shading Illustrations	40%
	Three Major Illustrations	<u>.60%</u>
	·	100%

ATTENDANCE POLICY:

Attendance will be taken twice during each class period. The first attendance for the lecture portion of the class will be at the beginning of each class. The second attendance, for the laboratory portion of the class will be taken $\frac{1}{2}$ hour before the end of class.

If a student is absent from the lecture portion of the class, it will be recorded as an absence for the entire class period. If a student is absent from the laboratory portion of the class, it will be recorded as an absence from that portion of the class only.

A letter grade will be deducted from the <u>class participation</u> portion of your final grade for each absence beyond three absences from <u>either portion of a class period</u>.

SPECIAL NOTES:A final grade cannot be assigned for the course until all drawings, projects
and examinations for the course have been completed.

Make-up examinations will be administered in accordance with the instructor's and division's policy.

FACULTY ABSENCE PROCEDURE: Please note well.

A daily listing will appear in the glass case located in the main hall A bldg. which will indicate all classes which are cancelled. Students can consult this case before going to class. If students find a class cancelled which has not been listed, they should report this to the divisional dean's office (A325) or to the evening/Saturday office (L113).

	TECHNICAL	ILLUSTRATION -	CALENDAR
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Class Meeting	Date	Topic	Assign due
1.		Review Isometric and Oblique, Object Line Shading	
2.		Diametric, Trimetric, Open and Solid Line Shade, Stipple Shade	Object Line Shade in Isometric
3.		Intro To CAD Solids, intro to CAD components	Initial Architectural Illustration Plan
4.		Intro to AutoCAD Architecture	Open, Solid Line, Shade in Dimetric
5.		Rendering with AutoCAD	
6.		AutoDesk Impression	AutoCAD Architecture Workup
7.		Intro to Google SketchUp	Initial CAD Render Plan
8.		Google SketchUp style rendering	Shading in 3 Pt. Perspective
9.		Google SketchUp animation	Final AutoCAD Architecture Illustration, Initial Product Plan
10.		Intro PhotoShop	Google SketchUp Renderings presentation
11.		PhotoShop Rendering	
12.		Open Lab	PhotoShop Rendering
13.		Open Lab	Final CAD Render
14. 15.		Open Lab Open Lab	Google Sketch up Rendering Final Product Illustration presentation

All BCC students enrolled in credit courses are entitled to a WebAdvisor account. With WebAdvisor, you may register online, check your schedule, room assignments, GPA, and find out what courses you need to take. To find out more about WebAdvisor or to sign up online, visit http://go.bergen.edu! While there, please make sure you give us your preferred email address. You'll find directions how to do this at http://go.bergen.edu/email.