

DESN 102 TECHNICAL GRAPHICS

FALL 2013

MONDAYS, 6P – 9:40P TC1410

INSTRUCTOR: Mary E. Black
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OFFICE PHONE: 260-348-3385
OFFICE HOURS: By appointment

COURSE DESCRIPTION

Provides students with a basic understanding of the detailing skills commonly used by a drafting technician. Areas of study include: lettering, sketching, proper use of equipment, geometric constructions with emphasis on orthographic (multi-view) drawings that are dimensioned and noted to ANSI standards.

LEARNING OBJECTIVES

Upon successful completion of this course the student will be expected to:

1. Sketch proportionately and recognizably a given object.
2. Do vertical Gothic lettering to quality standards.
3. Exhibit proper equipment usage.
4. Demonstrate acceptable line work and construction techniques.
5. Project and detail orthographic drawings to scale.
6. Demonstrate effective understanding and usage of dimensions, symbols, and notations to ANSI standards.
7. Show familiarity with conventional drafting practices.
8. Use sectioning techniques to better illustrate complex detail drawings involving numerous hidden lines.

COURSE DETAILS

- **Pre-Requisites** – None
- **Credit Hours** - 3, **Contact Hours** – 4 (Lecture & Lab)

COURSE CONTENT

Topical areas of study include:

Lettering

Linetypes

Equipment usage

Orthographic projection

Dimensioning

Basic ANSI standards

Sectioning

EXPECTATIONS

The best way to acquire knowledge is through exposure and direct contact. If students are to pass this course, physical presence is required at each class session. However, emergency situations do come up from time to time. If an emergency situation prevents you from coming to class, please notify the instructor soon as it is feasible, preferably before the start of class. E-mailing the instructor is the preferred method of contact. If the student is a “no call, no show” then he/she will not be able to make up the missed work and/or test.

GRADING

Labs – 25%

Mid Term Test – 25%

Final Drawing – 25%

Final Exam – 25%

TENTATIVE COURSE SCHEDULE:

Week	Date(s)	Topics	Assignments/Activities
1	08/19/13	Intro to Graphic Communication and Drawing Instruments	Read Intro
2	08/26/13	The Language of Lines & Lettering	Read Chapter 2, answer questions @ end of the chapter
3	09/02/13	LABOR DAY	NO CLASS
4	09/09/13	Scales	Read Chapter 3, answer questions @ end of the chapter
5	09/16/13	Sketching Scales	Read Chapter 4, answer questions @ end of the chapter
6	09/23/13	Geometric Construction	Drawings Assigned
7	10/07/13	Geometric Construction	Drawings Assigned
8	10/14/13	Midterm Test	Study for Mid Term Test
9	10/21/13	Orthographic Projection	Read Chapter 5, answer questions @ end of the chapter
10	10/28/13	Orthographic Projection	Drawings Assigned
11	11/04/13	Orthographic Projection	Read Chapter 6, answer questions @ end of the chapter
12	11/11/13	Sections	Drawings Assigned
13	11/18/13	Sections	Drawings Assigned
14	11/25/13	Dimensions	Read Chapter 10 – Instructor will assign sections
15	12/02/13	Final Drawing Selection	Work on Final Drawing
16	12/09/13	Final Drawing	Work on Final Drawing
12/16/13	05/01/13	Final Exam	Congrats, you made it!

STUDENT INFORMATION

The last day to withdraw from this class is SATURDAY NOVEMBER 9, 2013.

Students wishing to graduate from a School of Applied Science and Engineering or the School of Technology, from Ivy Tech Community College Northeast must complete at least 12 semester hours of Management and/or Technical training. This requirement is concurrent with the college requirement that each student must complete 15 semester hours at this institution.

Students transferring to Ivy Tech Community College Northeast and entering into the School of Applied Science and Engineering or the School of Technology must also meet the 12 semester hours of Management and/or Technical training. Credits considered for transfer may be from another Ivy Tech ATMAE accredited campus or obtained from an ATMAE accredited institution

ACADEMIC HONESTY STATEMENT

The College is committed to academic integrity in all its practices. The faculty value intellectual integrity and a high standard of academic conduct. Activities that violate academic integrity undermine the quality and diminish the value of educational achievement. Cheating on papers, tests or other academic works is a violation of College rules. No student shall engage in behavior that, in the judgment of the instructor of the class, may be construed as cheating. This may include, but is not limited to, plagiarism or other forms of academic dishonesty such as the acquisition without permission of tests or other academic materials and/or distribution of these materials and other academic work. This includes students who aid and abet as well as those who attempt such behavior.

ADA STATEMENT

Ivy Tech Community College seeks to provide reasonable accommodations for qualified individuals with documented disabilities. If you need an accommodation because of a documented disability, please contact the Office of Disability Support Services. If you will require assistance during an emergency evacuation, notify your instructor immediately. Look for evacuation procedures posted in your classroom.