

Bergen Community College
School of Mathematics, Science and Technology
Department of Industrial & Design Technology

Course Syllabus
DFT 208 Engineering Graphics I

Semester and year:
Course Number:
Meeting Times and Locations:

Instructor:
Office Location:
Phone:
Office Hours:
Email Address:

COURSE DESCRIPTION:

DFT 208 Engineering Graphics I is designed to acquaint the student with various types of graphic solutions used in solving engineering and drafting problems. Particular attention is given to orthographic projection as it relates to solving graphical space problems. Methods of visualization relating to auxiliary views, lines and planes, and points are explored in detail to help prepare the student for advanced drafting and CAD.

2 lecture, 2 labs, 3 credits

Prerequisites: None

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. Students will become familiar with the drafting concepts and procedures used in developing relationships of lines, points, and planes in space.	Drawing workbook exercises and exam questions.
2. Students will demonstrate practical uses with the above relationships in problem solving for drafting and design.	Drawing workbook exercises and exam questions.
3. Students will become familiar with the purposes and construction of auxiliary views using standard orthographic projection techniques.	Drawing workbook exercises and exam questions.

COURSE CONTENT:

<u>Chapter</u>	<u>TOPIC</u>
1	Orthographic Projection
2	Primary Auxiliary Views
3	Lines
4	Planes
5	Successive Auxiliary Views
6	Piercing Points
7	Intersection of Planes
8	Angle between Planes
9	Parallelism
10	Perpendicularity
11	Angle between line and plane

TEXTBOOK: Pare, Loving, Hill. Descriptive Geometry, 9th Edition, Macmillan,
Pare, Loving, Hill Series A or B Workbook (depending on semester)

EVALUATION:

A.	Class Participation.....	10%
B.	Worksheet Assignments.....	40%
C.	Midterm Examination.....	25%
D.	Final Examination.....	25%
	TOTAL.....	100%

NOTE: Students must pass at least one of the above examinations in order to receive a passing grade for the course.

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 at 11:30 a.m. for classes beginning in the morning, 5:15 p.m. for classes beginning early afternoon, and 9:45 p.m. for evening classes.

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 class participation portion of your final grade for each absence beyond three absences from either portion of a class period.

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).

CALENDAR:

<u>Class Meeting</u>	<u>Date</u>	<u>Topic</u>	<u>Chapter</u>
1.	_____	Orthographic Projection	1
2.	_____	Primary Auxiliary Views	2
3.	_____	Lines	3
4.	_____	Planes	4
5.	_____	Successive Auxiliary Views	5
6.	_____	Piercing Points - review for final examination LAST DATE TO SUBMIT ASSIGNMENTS UP TO SUCCESSIVE AUXILIARY VIEWS. (WILL NOT BE ACCEPTED AFTER THIS DATE)	6
7.	_____	Mid Term Exam (25% of Grade)	
8.	_____	Intersection of Planes	7
9.	_____	Angle between Planes	8
10.	_____	Parallelism	9
11.	_____	Perpendicularity	10
12.	_____	Angle between line and plane	11
13.	_____	Open Lab - review for final examination LAST DATE TO SUBMIT UP TO PERPENDICULARITY ASSIGNMENT. (WILL NOT BE ACCEPTED AFTER THIS DATE)	
14.	_____	Final examination	
15	_____	<u>Last date to submit drawings,</u>	

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>.