Design 203 Drawing Systems for Designers

3 Credit Hours

Department of Industrial, Interior and Visual Communication Design

Course Details	Instructor: Quarter: Time:			
Instructor Contact	Office: Office Hours: Email: Phone:			
Course Description	Introduction to technical drawing as a skill to communicate precise characteristics of a subject represented as it pertains to Industrial, Interior and Visual Communication Design. Emphasis will be placed on measured drawings as a tool to communicate precise information about man -made subjects.			
Objective	To develop and understanding of precise graphic language in the context of Product, Interior and Visual Communication Design as it pertains to two different scales: the object and the building environment.			
Context	This course is the third of three design communication courses. Introduction to measured drawings, orthographic, sections, dimensions and paraline drawings focusing on the different needs of interior space designers, product designers and visual communication designers required in order to communicate with various professionals in fields such as building construction, manufacturing, exhibits, environmental graphics, engineering and architecture.			
Format	This is a progress-oriented course that requires active student participation. The class will meet 3 days per week for 2 hours each day. Class sessions will be comprised of lectures, demonstrations, and assignments. An equal balance between theory and application is expected. Students will be expected to provide their own drawing materials.			
Learning Outcomes	Students will learn drawing conventions understood and accepted by others in order to convey specific information. They will develop skills in communicating through clear and precise drawings, and understanding the characteristics, techniques and conventions in Engineering, manufacturing and Architectural contexts.			
Course Content	Representational techniques Relationships between Engineering and Architectural graphic systems			

Projection Systems:				
	Orthographic projection	ons		
	Sections			
	Details			
	Dimensional	drawings		
	Axonometric Projection	ons- isometric		
	Oblique projections-E	levation and plan ob	lique	
	Composition and pres	entation techniques f	or product, for the built	
	environment			
Texts	Required: Ching, Fr Reinhold, N	rancis. <i>Design Dra</i> v ew York, 1998	wing Van Nostrand	
	Recommended: Ching Reinhold, Ne	g, Francis. <i>Architectu</i> w York. 2003	ral Graphics, Van Nostrand	
	Recommended: Giese	ecke, et al, Technical	Drawing, Prentice Hall, 2003	
Materials:	Mechanical pencils H	B, H series lead		
	30-60 and 45 degree t	riangles		
	Erasers, eraser shield			
	Quality compass			
Requirements				
	The following are expected of all students in the course:			
	Attendance is mandate	• Attendance is mandatory. Any unexcused absences may result in a lowering of your grade. Contact the instructor if you will be late or absent		
	lowering of your grad			
	(contact information is	(contact information is found above).		
	 Students will be expect 	• Students will be expected to come to class prepared, work diligently, and		
	do their absolute best	do their absolute best in all projects and presentations.		
	Class participation in critiques and final presentations is essential.			
	• All work must be com	pleted by the schedu	led due date	
Grading	Students grades will be bas	ed on the following	g factors:	
	Craftsmanship- Accuracy			
Commitment and effort				
	Class work and participation			
	There will be two drawing assignments every week, each worth 10 points; the			
	midterm is worth 100 points; the final drawing assignment is worth 140 points;			
	active participation in critiques is worth a total of 50 points. Grade distribution is as follows:			
	415-450-A:	400-414 - A-		
	380-399 – B+:	365-379 – B:	355-364 – B-	
	340-354 – C+ :	320-339 – C:	310-320 – C-	
	290-309 – D+:	270-289 – D	-	
	Less than 270 - E			

Assignments turned in late without instructor's previous permission will not be accepted. The final grade will be a product of the mean value of the individual assignments in addition to the instructor's assessment of work, craftsmanship, quality, progress and commitment. Any absences not called in will be considered unexcused.

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Special needs If you need accommodation based on the impact of a disability you should contact the Office for Disability Services for assistance in verifying the need for accommodation and developing accommodation strategies. You are encouraged to contact them directly at 614-292-6207, 292-0901TDD or email: ada-osu@osu.edu and notify the instructor.

Academic Academic Misconduct is defined as "any activity which tends to Misconduct Compromise the academic integrity of the institution, or subvert the educational process." Please refer to rule 3335-31-02 in the student code of conduct for examples of academic misconduct. Any cases of academic misconduct will be referred to the Committee on Academic Misconduct (see http://oaa.osu.edu/coam/home.html)

Escorts Escort services for evening courses are available by calling 292-3322

Course Week 1 and Week 2

 Schedule
 Drawing Systems

 Scales, tools and geometric construction, vocabulary-Engineering vs.

 Architectural graphics

 Mutiview drawings-The six views vs. necessary views

 Readings: Ching: Chapter 5 and 6, pages 113-134, Technical drawing

 Chapter 4-Geometric Constructions

 Drawing assignment 1: Geometric Constructions with compass and ruler

 Drawing assignments 2, 3 and 4: Multi-view drawing exercises

Week 3 and 4

Drawing tools and materials, Dimensions and scale Lines and line quality and conventions, hidden lines Engineering Graphics vs. Architectural Graphics *Readings*: Ching: Chapter 5, pages 135-153, Technical drawing Chapter 11, pp292-328

Drawing assignment 5: Dimensioned Multi-view drawings of a chair
Drawing assignment 6: Dimensioned Plan view of a floor plan
Drawing assignment 7: Dimensioned Multi-view drawings of a small product,
utilize appropriate line weight hierarchy to discriminate between object, center,
hidden and construction/projection. Include arcs, holes, angles, curves, contours
Drawing assignment 8: Dimensioned Plan view of a floor plan, detailing
doors, windows, walls. Utilize a hierarchy of lines to convey depth

Week 5

Sections- Building sections, object sections; Auxiliary views *Readings*: Ching: Chapter 5, pages 154-163, Technical drawing Chapter 7, pp 200- 204 *Drawing assignment 9*: section drawing of a stapler *Drawing assignment 10*: section drawing of a two-level building in context
Midterm Exam

Week 6 and 7

Axonometric views-Isometric, isometric sections, ellipses and curves *Readings*: Ching: Chapter 7, pages 173-184, Technical drawing Chapter 16, pp 493- 522

Drawing assignments 11 and 12: Isometric views of an object, full and half section, exploded view

Drawing assignments 13 and 14: Isometric view of building, cutaway and phantom views

Week 8

Plan and Elevation Oblique, sections, and expanded views *Readings*: Ching: Chapter 7, pages 185-195, Technical drawing Chapter 17, pp 530- 539 *Drawing assignment 15*: Elevation oblique of an object an interior space *Drawing assignment 16*: Plan oblique, expanded view of a small building

Week 9

Presentation Drawings

Readings: Ching: Chapter 12, pages 324-336

Final Drawing assignment: Students make a choice between a built environment or hand-held product. The assignment requires communication of all information regarding form, size, dimensions, mechanisms or construction details, through a series of technical drawings. The viewer needs to clearly understand what the object/space is, its function and parts. The student will make appropriate choices between projections and sections, exploded/expanded views.

Week 10

Final Drawing assignment

Week 11

Final Drawing assignment due