


COURSE OUTLINE - - Cincinnati State Technical and Community College

CET-7025: Site Drafting**Course Description**

An introduction to surveying drafting. Topics include: contour maps from field notes, cross sections, grading plans, volume calculations, deed abstracts, boundary plats, and building permit drawings. Students should complete MAT 1171 prior to or concurrently with this course.

Hours:	2 Lecture - 3 Lab - 3 Credit	Total Class Hours:	45 Hours
Prerequisites:	CET 7910.	Corequisites:	
Course Fee:	\$45.00	Curricula:	CETA, CETC, CETS
Day Offerings:	WI SP	Evening Offerings:	EF
Saturday Offerings:		Virtual Offerings:	

Textbooks and References	Required	Author/Publisher	ISBN	eFollett.com
Civil Drafting Technology	No	Madsen / Shumaker	0131711997	

Goals/Objectives

To introduce students to the preparation and reading of survey related plats, maps, and plans utilizing manual drafting techniques.

Related Program Outcomes

Civil Engineering Technology (CET)
Outcome #1: The student will be able to communicate as individuals, as well as function effectively on teams, by applying oral and written skills.
Outcome #2: The student will have an awareness of their responsibilities in the civil engineering technology field, recognizing the need for continual learning to remain well-prepared to face contemporary professional, social and global challenges in a diverse society.
Outcome #3: The student will demonstrate an appropriate mastery of fundamental knowledge and tools, including surveying methods, CAD, engineering mechanics and other technological processes inherent to their specific field of study.
Outcome #5: The student will demonstrate an ability to identify, analyze and solve technical and design problems.

Course Topics

Topic	Chapter	Description	Pages	Hours
1	Chapter 1, 2, 3, 5	Introduction, types of field data, reduction of field data, plotting field notes.		2 Class Hours
2	Chapter 6	Reading contour maps and interpolation to develop contour lines.		2 Class Hours
3	Chapter 10	Grading plans, change of contour lines.		4 Class Hours
4	Chapter 8	Cross-sections, cut and fill, earthwork and volume calculations.		2 Class Hours
5	Chapter 3, Handouts	Concepts of deeds, plats and legal descriptions.		3 Class Hours
6	Chapter 4, 5	Boundary plats, symbols and plat preparation.		2 Class Hours
7	Handouts	Building permit plats, symbols and plat preparation.		1 Class Hours
8		2-2 hour exams, 1-1 hour quiz		5 Class Hours

Laboratory Projects

Lab	Chapter	Description	Pages	Hours
1		Reduce field data, plotting points.		3 Lab Hours
2		Interpolation of contour lines, draft and label same. Plat required.		6 Lab Hours
3		Create a grading plan from contour plat of Lab 2. Change contours lines as required. Plat required.		6 Lab Hours
4		Produce cross-sections from grading plan of Lab 3. Calculate cut and fill volumes. Plat and		3 Lab Hours

	report required.	
5	Preparation of a boundary plat based on a given legal description. Plat required.	3 Lab Hours
6	Preparation of a building plat based on given field notes and record plat. Plat required.	3 Lab Hours

Computer Usage

None.

Oral Communications

Answering questions in class.

Written Communications

Two exams, one quiz. One exam is essay format.

Calculus Usage

None.

Library Usage

Research for final exam.

Graded Assignments		
Item	Description	Weight
1	2 Exams	100.00%
2	1 Quiz	30 points%

Grade Scale				
A	B	C	D	F
100-90	89-80	79-70	Not given.	Below 70

Notes	
Note	Description
1	First exam and quiz closed note, closed book. (Notes written on 1-8-1/2x11 sheet are acceptable.)
2	Final exam is open book, open note, written researched essay exam.
3	Assigned and graded homework will be considered in Final Course Grade determination.
4	All written assignments for this course will be graded for both technical content and writing skills. i.e., grammar, sentence structure, Etc.
5	ACCE Core Subject Matter - Construction Methods(1 hr), Construction Graphics (2 hr). Topical Content - Written Communication, Construction Graphics, Construction Surveying, Estimating
6	Special Needs: Any student with a disability necessitating accommodations prescribed by the Americans with Disability Act or section 504 of the Rehabilitation Act must meet with Mr. David Cover, Special Needs Counselor, prior to participating in classroom or laboratory activities. He will be the primary resource to determine what accommodations are necessary to provide the appropriate learning opportunity for the student. Mr. Cover may be contacted at 513-569-1613.

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Revision Date: Monday, August 06, 2007