STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY CANTON, NEW YORK



MASTER SYLLABUS

COURSE NUMBER – COURSE NAME CONS151 – Building Trades Blueprint Reading/Drafting

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Canino School of Engineering Technology

Department: Civil and Construction Technology Department

Semester/Year: Fall 2018

A.	TITLE: Building Trades Blueprint Reading/Drafting		
В.	COURSE NUMBER: CONS151		
C. <u>CREDIT HOURS</u> : (Hours of Lecture, Laboratory, Recitation, Tutorial,			
	# Credit Hours: 2 # Lecture Hours: 1 per week # Lab Hours: 2 per week Other: per week		
	Course Length: 15 Weeks		
D.	WRITING INTENSIVE COURSE: Yes No X		
Е.	GER CATEGORY: None: Yes: GER If course satisfies more than one: GER		
F.	SEMESTER(S) OFFERED: Fall Spring Fall & Spring		
G.	COURSE DESCRIPTION:		
instrur projec drawir how th	etion includes understanding the fundamental concepts in freehand sketching and ment drawing needed for communication in the construction industry. Orthographic tion, pictorials and perspective drawing techniques will be introduced. A variety of mgs will be studied in order to become familiar with information contained on them and mey are interpreted. CERTIFICATE/AAS ELECTIVE CREDIT ONLY. One hour lecture, ours laboratory per week.		
Н.	PRE-REQUISITES: None ⊠ Yes □ If yes, list below:		
	<u>CO-REQUISITES</u> : None ⊠ Yes ☐ If yes, list below:		

I. <u>STUDENT LEARNING OUTCOMES</u>: (see key below)

By the end of this course, the student will be able to:

Course Student Learning Outcome [SLO]	Program Student Learning Outcome [PSLO]	<u>GER</u> [If Applicable]	ISLO & SUBS	<u>'ETS</u>
A.To develop an understanding of sketching as it relates to the building construction field		N/A	1-Comm Skills ISLO ISLO	W Subsets Subsets Subsets
B. Utilize measurement systems for linear, area, and volumetric measurement		N/A	5-Ind, Prof, Disc, Know Skills ISLO ISLO	None Subsets Subsets Subsets
C. Navigate building prints and understand the information on them		N/A	2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	IA None Subsets Subsets
D. Understand HVAC system prints and perform takeoffs for materials		N/A	2-Crit Think ISLO ISLO	IA Subsets Subsets Subsets
E. Understand plumbing prints and perform takeoffs for materials		N/A	2-Crit Think ISLO ISLO	IA Subsets Subsets Subsets
F. Navigate supplier catalogs to source components		N/A	5-Ind, Prof, Disc, Know Skills ISLO ISLO	None Subsets Subsets Subsets

ISLO ISLO ISLO	Subsets Subsets Subsets Subsets
ISLO ISLO ISLO	Subsets Subsets Subsets Subsets
ISLO ISLO ISLO	Subsets Subsets Subsets Subsets
ISLO ISLO ISLO	Subsets Subsets Subsets Subsets

KEY	Institutional Student Learning Outcomes [ISLO 1 – 5]		
ISLO	ISLO & Subsets		
#			
1	Communication Skills		
	Oral [O], Written [W]		
2	Critical Thinking		
	Critical Analysis [CA] , Inquiry & Analysis [IA] , Problem		
	Solving [PS]		
3	Foundational Skills		
	Information Management [IM], Quantitative Lit,/Reasoning		
	[QTR]		
4	Social Responsibility		
	Ethical Reasoning [ER], Global Learning [GL],		
	Intercultural Knowledge [IK], Teamwork [T]		
5	Industry, Professional, Discipline Specific Knowledge and		
	Skills		

^{*}Include program objectives if applicable. Please consult with Program Coordinator

J.	APPLIED LEARNING COMPONENT:	Yes 🔀	No 🗌		
	If YES, select one or more of the following categories:				
	 ☐ Classroom/Lab ☐ Internship ☐ Clinical Placement ☐ Practicum ☐ Service Learning ☐ Community Service 	Research Entrepren	Works/Senior Project		
К.	<u>TEXTS</u> :				
Brown	, Dorfmueller, Print reading For Construction, 6t	h ed ,Goodhea	rt- Willcox		
L.	REFERENCES:				
N/A					
M. <u>EQUIPMENT</u> : None Needed: Basic sketching equipment (architectural 3 sided scale, mechanical pencil)					
N.	GRADING METHOD: A-F				
0.	SUGGESTED MEASUREMENT CRITERIA	A/METHODS	:		
Exam	s, Quizzes, and Assignments				
Р.	DETAILED COURSE OUTLINE:				
I.	Introduction				
A.	Math review				
B.	Measurement systems				
C.	Orthographic projection				
D.	Sketching				
II.	Architectural plans				
A.	Plot plans				
B. C.	Floor plans Elevations				
D.	Details				
D. Е.	Schedules				
III.	Equipment plans				
A.	Electrical				
B.	Plumbing				
C.	HVAC				

D.

IV. A. Material takeoffs

Sourcing
Takeoffs & schedules

- B. Manufacturer data
- C. Supplier resources
- Q. <u>LABORATORY OUTLINE</u>: None X Yes