



Prepared: Sal lenco Approved: Corey Meunier

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Course Code: Title	SUR122: SURVEY FIELDCAMP
Program Number: Name	4080: CIVIL ENG TECHNICIAN
Department:	CIVIL/CONSTRUCTION
Semester/Term:	18W
Course Description:	This course is designed to provide the students with a one week of practical hands-on surveying experience. The key components of the course deal with the layout of a plot plan for a small building and the layout of a go kart track. You will be working in teams and have to apply teamwork, leadership and interpersonal skills to complete the projects.
Total Credits:	2
Hours/Week:	30
Total Hours:	30
Vocational Learning Outcomes (VLO's): Please refer to program web page for a complete listing of program outcomes where applicable.	#2. comply with workplace health and safety practices and procedures in accordance with current legislation and regulations. #6. collect, process and interpret technical data to produce written and graphical project-related documents. #7. use industry-specific electronic and digital technologies to support civil engineering projects. #8. participate in the design and modeling phase of civil engineering projects by applying engineering concepts, basic technical mathematics and principles of science to the review and production of project plans. #11. apply teamwork, leadership and interpersonal skills when working individually or within multidisciplinary teams to complete civil engineering projects.
Essential Employability Skills (EES):	#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. #2. Respond to written, spoken, or visual messages in a manner that ensures effective communication. #3. Execute mathematical operations accurately. #4. Apply a systematic approach to solve problems. #5. Use a variety of thinking skills to anticipate and solve problems. #6. Locate, select, organize, and document information using appropriate technology and information systems. #8. Show respect for the diverse opinions, values, belief systems, and contributions of others.

SUR122: SURVEY FIELDCAMP Page 1 #9. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.

#10. Manage the use of time and other resources to complete projects.

#11. Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation:

Passing Grade: 50%, D

Other Course Evaluation & Assessment Requirements:

Grade

Definition Grade Point Equivalent

A+ 90 †100% 4.00

A 80 †89%

B 70 - 79% 3.00

C 60 - 69% 2.00 D 50 †59% 1.00

F (Fail) 49% and below 0.00

CR (Credit) Credit for diploma requirements has been awarded.

S Satisfactory achievement in field /clinical placement or non-graded subject area.

U Unsatisfactory achievement in field/clinical placement or non-graded subject area.

X A temporary grade limited to situations with extenuating circumstances giving a student

additional time to complete the requirements for a course.

NR Grade not reported to Registrar's office.

W Student has withdrawn from the course without academic penalty.

Attendance

Students are only allowed to miss three classes without a documented explanation. One mark will be deducted from your overall grade for each undocumented explanation. The maximum deduction in overall grade is not to exceed 15%. Valid documented explanation include:

- Medical reason
- · Family emergency
- Child care issue
- Transportation problems
- And any other explanation that a reasonable person would experience

The documented explanation has to be sent to me by e-mail no later than three days from a missed class. A Doctor note, etc., is to be attached as a PDF file to your e-mail

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Accuracy of Field Work Layout	30%
Attendance/Participation	20%
Completeness and Neatness of Field Book	30%
Oral Presentation	20%

Books and Required Resources:

Surveying with Construction Applicatiosn by Barry F. Kavanagh/Dianne K. Slattery

Publisher: Pearson Education Edition: 8th

ISBN: 10: 0-13-276698-1

Course Outcomes and Learning Objectives:

Course Outcome 1.

Upon successful completion, the student will be able to:

1. Comply with health and safety practices and procedures while performing survey filed camp activities.

Learning Objectives 1.

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- 1.1 Conduct self in safe manner and in accordance with the requirements of work situation
- 1.2 Identify unsafe situations in the field
- 1.3 Apply best safety practices when working outdoors

Course Outcome 2.

Upon successful completion, the student will be able to:

2. Participate as a member of a survey team to layout a house plot plan and a go kart track from a set of given control points.

Learning Objectives 2.

- 2.1 Collect, interpret and check survey data by using systematic approaches in accordance to recognized standards and practices
- 2.2 Present a completed field book, to your professor for marking, at the end of the survey field camp

Course Outcome 3.

Upon successful completion, the student will be able to:

3. Use industry-specific automatic level, digital level and total stations and technologies to support the survey field camp.

Learning Objectives 3.

- 3.1 Select and use standard survey equipment such as automatic level, digital level and total station
- 3.2 Apply survey techniques and use survey equipment such as automatic level, digital level and

total station

- 3.3 Use AutoCAD to extract point identification data from a digital drawing of the lot plan and go kart track
- 3.4 Use AutoCAD to import surveyed point and check accuracy of layout of lot plan and go kart track

Course Outcome 4.

Upon successful completion, the student will be able to:

4. Participate as a member of a survey team by applying surveying concepts and basic technical mathematics to review and produce the layout of survey projects.

Learning Objectives 4.

- 4.1 Apply known and routine calculations to check the closure of a leveling route
- 4.2 Implement checks to ensure that field work is accurate
- 4.3 Check layout work of another group, other than your own,and provide recommendations as to whether

the layout is within or out of accuracy limits.

4.4 Seek assistance to resolve situations that are beyond the student's scope of training or knowledge.

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	Course Outcome 5.
	Upon successful completion, the student will be able to: 5. Apply teamwork, leadership and interpersonal skills when working individually or within a team to complete the survey field camp projects.
	Learning Objectives 5.
	5.1 Take initiative while working with your team to complete the field projects 5.2 Assume accountability for self in managing the use of time and resources to meet established deadline
	5.3 Work as an effective team player to complete the survey projects while promoting a positive work
	environment 5.4 Use effective time-management and organizational techniques to prioritize project tasks and to accomplish goals set by the team
	5.5 Use conflict resolution skills in the field including cooperation and compromise
Date:	Thursday, January 18, 2018
	Please refer to the course outline addendum on the Learning Management System for further information.

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