

Imperial Valley College Course Syllabus / WT 140 – Water Distribution Systems

_			_				
ш.	201	-		1200	1640	-	ation
п	\sim			11 50			4116361

Semester:	Fall 2023	Instructor Name:	Ramiro Salas
	Water Distribution Systems /		
Course Title & #:	WT 140	Email:	ramiro.salas@imperial.edu
CRN #:	20918	Webpage (optional):	
Classroom:	3112 / Building 3100	Office #:	N/A
Class Dates:	2/16/2023 ~ 6/8/2023	Office Hours:	N/A
			(760) 355-6361 Dept. Sec.
Class Days:	Thursdays	Office Phone #:	Tisha Nelson
Class Times:	6:00 PM ~ 10:15 PM	Emergency Contact:	(760) 427-5787 Cell.
Units:	4.0	Class Format:	Face-to-Face

Course Description

This course is designed to provide operators with the necessary skills required for the proper installation, inspection, operation, maintenance, repair, and management of water distribution systems. Among the topics covered are: distribution system mathematics, system hydraulics, system design, water mains and valve installation, fire hydrants, water services and meters, backflow and cross-connection control, pumps and motors, occupational safety, utility management, and federal regulations. (CSU)

Course Prerequisite(s) and/or Corequisite(s)

None

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

- 1. Correctly perform basic operational adjustments and calculations for the operation of a water distribution system.
- 2. State and observe the implied responsibilities related to the operation of the water distribution system.
- 3. Analyze water samples laboratory data to perform operational adjustments in the water distribution system.
- 4. Feel more confident about their ability to identify cross connections.

Course Objectives

Upon satisfactory completion of the course, students will be able to:

- 1. Operate and maintain designated water distribution systems.
- 2. Operate and maintain clear wells and storage tanks.
- 3. Monitor and maintain water quality throughout a distribution system.



- 4. Recognize and identify hazards and develop safe working procedures and safety programs for Water Distribution Systems.
- 5. Develop preventative maintenance programs and maintain records of inspection and repair for all water works equipment.
- 6. Address complaints from the public and maintain positive public relations,
- 7. List and demonstrate safe and effective methods to manage a water distribution system and facility.
- 8. Obtain knowledge necessary to pass California State Water Distribution operator certification exams up to journeyman level (Grade 2).

Textbooks & Other Resources or Links

Water Distribution System Operation and Maintenance California State University of Sacramento, Seventh Edition Office of Water Programs

ISBN: 978-1-323-83891-4

Recommended textbook(s):

Operator Certification Study Guide (AWWA)

ISBN: 158321-287-6

Web site(s) recommended:

http://owp.csus.edu

Water Treatment and Water Distribution:

http://www.waterboards.ca.gov/drinking_water/certlic/occupations/DWopcert.shtml

Course Requirements and Instructional Methods

This is a Face-to-Face college format class; the student is required to physically attend class on college as scheduled it. Specific instructions and assignments will be available only through Zoom and Canvas.

Required materials: Any device able to work with CANVAS (laptop preferably), notebook, pen and pencil with eraser, calculator with at least 9 digits capability (not programmable), solar power recommended. **Cell phones will not be allowed as calculator. No red ink pens or pencils.**

Assignments: Will be made in class or homework and will not be accepted late. All class activities will be described in advanced on weekly basis at Modules on your Canvas class home page during the semester.

Prerequisite(s): None

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time <u>and</u> two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.



CANVAS

Access to Canvas is extremely important for this class since the class eventually will be online; all the class content is located on your IVC Canvas site.

You need to login into <u>Canvas Student Login</u> and then go into the course. You can also use CANVAS to email your fellow students or myself. The Canvas Student Guides Site provides a variety of support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for students to use: 877-893-9853.

You may also chat with someone live about your issue at:

https://cases.canvaslms.com/liveagentchat?chattype=student&sfid=001A000000YzURSIA3

If you need additional training using Canvas you may go here:

https://training-portal-prod-pdx.insproserv.net/pages/tutorial

Here it is an overview from the course key areas, each one can be accessed from the course menu:

- **Home Page** will be the starting point of class and will give you as well a general overview from class activities and notifications during the semester.
- Announcements will be made every week letting you know about the next week class schedule and activities.
- Syllabus contains information that you will use throughout the course: Syllabus and Schedule.
- **Modules** contains everything you need for each week of the course. Simply click on "next" to move forward from one item to the next one into the week's module.
- Quizzes provides one-click access to weekly guizzes and occasional surveys.
- **Tests** provides one-click access to chapter exams.
- **Grades** lists your scores and the points possible for all assignments. Most quiz grades are posted immediately after completion. You will also see your current total points and percentage.

Course Grading Based on Course Objectives

Exam grade scale is strictly base on score percentage. No partial credit will be given for math. All work must be shown for credit. You are strongly advised to be present for all quizzes and exams. Make up test, unless due to special circumstances, will not be granted.

Asking to make-up missed quizzes or exams is your responsibility and needs to be for a reasonable excuse. Exams may include true/false and multiple choice questions (math included).

Grade scale is as follows:

100 - 90%	~	А
89 - 80 %	~	В
79 - 70 %	~	С
69 - 60 %	~	D
59 % or less	~	F



Final grade shall consist of:

Items to verify:	tems to verify:		
Attendance	25%		
Class Participation	25%		
Chapter Quizzes &			
Exams	25%		
Final Exam	25%		
Final Grade	100%		

Note: Grading criteria are guides only. Instructor retains the right to modify these criteria.

Course Policies

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. Failure to drop the class will result in an "F" for the semester. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused
 absences exceed the number of hours the class is scheduled to meet per week may be dropped. For
 online courses, students who fail to complete required activities for two consecutive weeks may be
 considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette

- <u>Electronic Devices:</u> Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- <u>Food and Drink</u> are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- <u>Disruptive Students:</u> Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the <u>General Catalog</u>.
- <u>Children in the classroom:</u> Due to college rules and state laws, only students enrolled in the class may attend; children are not allowed.

Online Netiquette

- What is netiquette? Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.
- Students are to comply with the following rules of netiquette: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others' opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].



Academic Honesty

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another's work and recognize the important of acknowledging and safeguarding intellectual property.

There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

- <u>Plagiarism</u> is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to "cite a source" correctly, you must ask for help.
- <u>Cheating</u> is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the <u>General Catalog</u> for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

Additional Services for Students

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

How do I access services now that we are mostly online?

- CANVAS LMS. Canvas is Imperial Valley College's main Learning Management System. To log onto
 Canvas, use this link: <u>Canvas Student Login</u>. The <u>Canvas Student Guides Site</u> provides a variety of
 support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for
 students to use: 877-893-9853.
- <u>Learning Services</u>. There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your <u>Campus Map</u> for the <u>Math Lab</u>; <u>Reading, Writing & Language Labs</u>; and the Study Skills Center.
- <u>Library Services</u>. There is more to our library than just books. You have access to tutors in the <u>Study Skills Center</u>, study rooms for small groups, and online access to a wealth of resources.



Disabled Student Programs and Services

Any student with a documented disability who may need educational accommodations should notify the instructor or the <u>Disabled Student Programs and Services</u> (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- <u>Student Health Center</u>. A Student Health Nurse is available on campus. In addition, Pioneers
 Memorial Healthcare District provide basic health services for students, such as first aid and care for
 minor illnesses. Contact the IVC <u>Student Health Center</u> at 760-355-6128 in Room 1536 for more
 information.
- Mental Health Counseling Services. Short-term individual, couples, family and group counseling services are available for currently enrolled students. Services are provided in a confidential, supportive, and culturally sensitive environment. Please contact the IVC Mental Health Counseling Services at 760-355-6310 or in the building 1536 for appointments or more information..

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC <u>General Catalog</u>.

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC <u>Library Department</u> provides numerous Information Literacy Tutorials to assist students in this endeavor.



Anticipated Class Schedule/Calendar

Subject to change without prior notice

WT 140 Water Distribution Systems

Course Outline					
DATE CHAPTER(S)		TOPIC	ASSIGNMENT		
February 16, 2023		Introduction & Course overview	Textbook, laptop & calculator		
February 23, 2023	1	Introduction to Water Distribution	Class Practice & Quiz		
March 2, 2023 2		Water Storage Facilities & Math	Class Practice & Quiz		
March 9, 2023 3		Dist. System Facilities & Math	Class Practice & Quiz		
March 16, 2023	1 - 2 - 3	Review Chapters 1 - 2 - 3	Exam Chps. 1 - 2 - 3		
March 23, 2023	4	Operation & Maintenance	Class Practice & Quiz		
March 30, 2023	4	Operation & Maintenance	Class Practice & Quiz		
April 6, 2023		Math review	Practice & Quiz		
April 13, 2023		No Class (Campus Closed)			
April 20, 2023	5	Disinfection & Math	Class Practice & Quiz		
April 27, 2023	4 - 5	Review Chapters 4 - 5	Exam Chps. 4 - 5		
May 4, 2023	6	Safety	Class Practice & Quiz		
May 11, 2023	7	Management	Class Practice & Quiz		
May 18, 2023	6-7	Review Chapters 6 - 7	Exam Chps. 6 - 7		
May 25, 2023		Math review	Practice & Quiz		
June 1, 2023 All		General Review	Practice & Quiz		
June 8, 2023 All		Final Examination	Good Luck!		