



Basic Course Information

Semester:	Fall 2021	Instructor Name:	Jose Velasquez
Course Title & #:	BLDC 135	Email:	jose.velasquez@imperial.edu
CRN #:	10407	Webpage (optional):	www.imperial.edu
Classroom:	3117	Office #:	3118
Class Dates:	Aug 16 to Dec 11	Office Hours:	M 10:30am-11:30am T 10:30am-11:30am W 11:30am-12:30pm Th 11:30am-12:30pm
Class Days:	Tuesday & Thursday	Office Phone #:	760-355-5758
Class Times:	T 6:00pm-8:05pm Th 6:00pm-9:10pm	Emergency Contact:	760-355-6217
Units:	3	Class Format:	Tuesday: online zoom Thursday: Face to Face Lab

Course Description

This course is an introductory study of the layout and fabrication of a residential plumbing system. Discussion will include water and waste water plumbing systems for residential applications. In addition there will be a component on residential plumbing design, with emphasis on repair and maintenance of fixtures faucets and drains and water leaks. Installations will be guided by the local and national plumbing codes. Learning opportunities will be enhanced through a combination of lecture and laboratory activities. (Nontransferable, AA/AS degree only)

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

BLDC 110 Recommended

Student Learning Outcomes

1. Explain the importance of locating and protecting underground utilities (critical thinking skills)
2. Demonstrate positive work ethics and demonstrate ability to work well with others and perform group tasks in a timely manner. (personal Responsibility)
3. Apply information on various tables to determine adequate size of DWV piping and water supply piping. (critical thinking skills)

Course Objectives

[Paste in the course objectives from the COR, located at <https://imperial.curricunet.com/Search>]

Upon successful completion of this course, the students will:

1. Demonstrate safe use of tools and equipment
2. Read and understand mechanical drawings of plumbing layouts
3. Identify and explain the function of fittings in water and wastewater systems
4. Calculate proper wastewater pipe size
5. Measure, Cut and solder copper pipes
6. Understand layout and design code requirements for plumbing in residential Construction.

Textbooks & Other Resources or Links

Modern Plumbing. E. Keith Blankenbaker & Charles H. Owenby 8th Edition

ISBN-13: 978-1619608634

ISBN-10: 1619608634



Course Requirements and Instructional Methods

Lab practices will be face to face from the beginning of the semester and Lecture instruction will be synchronous online with the use of Canvas.

There will be a series of chapter quizzes, tests and lab assignments as part of the class.
Field trip to actual house under construction to inspect the rough plumbing

Reading and Writing:

Write a 2000 word report that will be shared and discussed in class.

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 and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

Course Grading Based on Course Objectives

Course Grade will be based on a 200point scale

A= 90%-100% Excellent

B= 80%-89% Good

C= 70%-79% Satisfactory

D= 60%- 69% Pass, less than satisfactory

F= 59%&Below Failing

The course grade will be determined by various factors such, as class participation, classroom assignments, chapter reviews & drawing project, midterm & final exams. The grading range is as follows:

Chapter Reviews 25%	= 32points
Laboratory Project 25%	= 78points
Midterm 25%	= 50points
Final Exam 25%	= 50points

Attendance, Late Assignments:

Absences and tardiness provide an opportunity to miss valuable instruction presented by the instructor, guest speakers, and site administrators. Tardiness will contribute to lower

scores on assignments and subsequently a lower course grade. All assignments are due on the specified completion dates and all students have the same and equal time to complete all assignments as per the course calendar. Considerations will be given to those late assignments accompanied by a written medical statement from a physician. 25% of possible points will be penalized for late work. Any assignment can be turned in prior to the due date!

Course Policies

[Describe other policies such as attendance, academic honesty, netiquette, expected classroom behavior, etc.]

- **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. 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. 3 or more absences from the lab or lecture classes will cause students to be dropped from the course.**
- **Students are expected to have their cameras on while Zoom(online) instruction is given for lab and lecture classes.**
- **Electronic Devices: Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.**
- **Food and Drink 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.**

-
- **Disruptive Students:** 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 [General Catalog](#).
 - **Children in the classroom:** Due to college rules and state laws, only students enrolled in the class may attend; children are not allowed.
 - **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 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.

- **Plagiarism** 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.
- **Cheating** 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 [General Catalog](#) 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.

Other Course Information

- Students are expected to have their cameras on while Zoom(online) instruction is given for lab and lecture classes.
- 3 or more absences from the lab or the lecture will cause students to be dropped.

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

Anticipated Class Schedule/Calendar

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1	Course Introduction/Basic Safety	
Week 2	Ch. 4 Mathematics & Ch. 5 Hydraulics	
Week 3	Ch. 6 Print Reading and Sketching	
Week 4	Ch. 8 Building and Plumbing Codes	
Week 5	Ch. 9 Soldering, Brazing and Welding	
Week 6	Ch. 11 Water Supply Systems	
Week 7	Ch. 13 Plumbing Fixtures	Midterm
Week 8	Ch. 14 Plumbing Materials and Fittings	
Week 9	Ch. 15 Valves and Meters	
Week 10	Ch. 16 Water Heaters	



Week 11	Ch. 17 Designing Plumbing Systems	
Week 12	Ch. 18 Preparing for System Installation	
Week 13	Ch.19 DWV Pipe and Fitting Installation	
Week 14	Ch. 20 Installing Water Supply Piping	
Week 15	No classes	Nov 22 - Nov 27
Week 16	Ch. 21 Installing Fixtures, Faucets, and App.	Final Exam

*****Subject to change without prior notice*****