

Basic Course Information

Semester:	Fall 2017	Instructor Name:	Victor M Figueroa
Course Title & #:	Generation Mechanic V	Email:	vmfigueroa@iid.com
CRN #:	11252	Webpage (optional):	
Classroom:	ECGS Engineering Trailer	Office #:	
Class Dates:	8/14/2017 – 12/8/2017	Office Hours:	
Class Days:	Tuesdays	Office Phone #:	
Class Times:	4:00pm – 8:30pm	Emergency Contact:	
Units:	4		

Course Description

An introduction to Generation Mechanic technology. An introduction to Generators and Turbines. Basic understanding of Generation Mechanic tools and blueprint reading.

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. Read blue print drawings*
- 2. Take measurements*
- 3. Use mechanic tools properly*
- 4. Understand Hydro Electric Power*

Course Objectives

Give students a better understanding of Generation Mechanic duties and their role in the generation industry.

Textbooks & Other Resources or Links

Millwrights and Mechanics Guide (5th Edition)

Thomas Bieber and Carl A Nelson (Audel Books 2004)

ISBN: 978-0-7645-4171-1

Course Requirements and Instructional Methods

Assignments are designed to elicit your demonstration of critical thinking, understanding and application of the course concepts, and your proficiency in the subject matter.

Required Activities or Assignments:

- 1. Homework (5)*
- 2. Presentations (4)*
- 3. Exams (2)*

Teaching Methods:

During this class you will have the opportunity to participate in a variety of presentations and teaching methods. Lectures, including material not covered in your readings, class and group discussions requiring your active participation, student oral presentations, fields trips will supplement your required readings.

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

Grading Criteria: Letter Grade only

Grading Policy: The students grade will depend on the following areas:

Attendance	31% = 80 Points	(5 points per class session)
Homework	20% = 50 Points	(10 points per homework assignment)
Class Presentations	15% = 40 Points	(10 points per presentation)
Mid-Term Exam	14% = 35 Points	(1 point per question)
Final Exam	20% = 50 Points	(1 point per question)

The course grade is based on total points accumulated during the semester. There is a maximum of 255 points.

Final Grades are calculated as follows:

Percentage	Grade
90-100%	A
80-89%	B
70-79%	C
60-69%	D
Below 60%	F

Points	Grade
230-255	A
204-229	B
178-203	C
152-177	D
0-151	F

Attendance

Attendance is mandatory for the duration of every class session. If for some reason you miss a class due to illness, shift work, or unforeseen reasons, you need to call me and let me know ahead of time so I can set up a make-up class and give you the homework assignment. Anyone cutting out of class early or failing to call an absence will not be credited for that class session.

Classroom Etiquette

- **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.

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.

- **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.

Additional Student Services

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.

- **CANVAS LMS.** Canvas is Imperial Valley College's main Learning Management System. To log onto Canvas, use this link: [Canvas Student Login](#). 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.
- **Learning Services.** There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your [Campus Map](#) for the [Math Lab](#); [Reading, Writing & Language Labs](#); and the [Study Skills Center](#).
- **Library Services.** There is more to our library than just books. You have access to tutors in the [Study Skills Center](#), study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the [Disabled Student Programs and Services](#) (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.

- **Student Health Center.** 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 [Student Health Center](#) 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..

Veteran's Center

The mission of the [IVC Military and Veteran Success Center](#) is to provide a holistic approach to serving military/veteran students on three key areas: 1) Academics, 2) Health and Wellness, and 3) Camaraderie; to serve as a central hub that connects military/veteran students, as well as their families, to campus and community resources. Their goal is to ensure a seamless transition from military to civilian life. The Center is located in Building 600 (Office 624), telephone 760-355-6141.

Student Equity Program

- The Student Equity Program strives to improve Imperial Valley College's success outcomes, particularly for students who have been historically underrepresented and underserved. The college identifies strategies to monitor and address equity issues, making efforts to mitigate any disproportionate impact on student success and achievement. Our institutional data provides insight surrounding student populations who historically, are not fully represented. Student Equity addresses disparities and/or disproportionate impact in student success across disaggregated student equity groups including gender, ethnicity, disability status, financial need, Veterans, foster youth, homelessness, and formerly incarcerated students. The Student Equity Program provides direct supportive services to empower students experiencing insecurities related to food, housing, transportation, textbooks, and shower access. We recognize that students who struggle meeting their basic needs are also at an academic and economic disadvantage, creating barriers to academic success and wellness. We strive to remove barriers that affect IVC students' access to education, degree and certificate completion, successful completion of developmental math and English courses, and the ability to transfer to a university. Contact: 760.355.5736 or 760.355.5733 Building 100.
- The Student Equity Program also houses IVC's Homeless Liaison, who provides direct services, campus, and community referrals to students experiencing homelessness as defined by the McKinney-Vento Act. Contact: 760.355.5736 Building 100.

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 [General Catalog](#).

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC [Library Department](#) provides numerous Information Literacy Tutorials to assist students in this endeavor.

Anticipated Class Schedule/Calendar

[Required Information – Discretionary Language and Formatting: The instructor will provide a tentative, provisional overview of the readings, assignments, tests, and/or other activities for the duration of the course. A table format may be useful for this purpose.]

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1 August 15	Safety OSHA Regulations	Class Participation
Week 2 August 22	Lockout / Tagout Power Plant Safety Procedures	Class Participation
Week 3 August 29	Confined Spaces Air Monitors	Class Participation
Week 4 September 5	Personal Protective Equipment Safety Data Sheets	Class Participation
Week 5 September 12	Basic Tool Box Portable and Stationary Tools	Class Participation
Week 6 September 19	Measuring Tools	Class Participation
Week 7 September 26	Class Review prior to Mid-Term Exam	Class Participation
Week 8 October 3	Mid-Term Exam	Class Participation
Week 9 October 10	Screw Threads Mechanical Fasteners	Class Participation
Week 10 October 17	Drawings Sketching	Class Participation
Week 11 October 24	Blueprints	Class Participation
Week 12 October 31	Generators Turbines	Class Participation
Week 13 November 7	Hydro Electric Power	Class Participation
Week 14 November 14	Field Trip to the Hydros	Class Participation
Week 15 November 28	Class Review prior to Final Exam	Class Participation
Week 16 December 5	Final Exam	Class Participation

*****Tentative, subject to change without prior notice*****