

Basic Course Information

Semester	Fall 2014	Instructor Name	Oscar Cervantes; Gonzalo Huerta
Course Title & #	WELD 102	Email	oscar.cervantes@imperial.edu
CRN #	10840	Webpage (optional)	
Room	3111-3120	Office	Part-Timers:
Class Dates	Aug 18 - Dec 13 2014	Office Hours	n/a for part-time faculty
Class Days	Friday Saturday	Office Phone #	(760)556-8492
Class Times	F (8:30-11:40 am) Room 3111	Office contact if student will be out or emergency	(760)355-6361
Units	S(8:00-2:30 pm) Room 3120 5 units		

Course Description

Shield Metal Arc Welding on carbon steel plate. The student develops welding skills to a professional entry level. Follow proper shop safety practices and PPE. Review of Oxy/Acetylene cutting, filler electrode application, blueprint interpretation, welding symbols, joint designs, and proper use of filler gauges to follow the specifications required for fusion and heat input throughout out the drawing. (CSU)

Student Learning Outcomes

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

Discuss and explain the regulations governing welding related hazards such as; Industrial noise, electrical exposure, and radiation exposure. (ILO1, ILO2, ILO3)

Set up and operate equipment and components used in Shielded Metal Arc Welding (SMAW) using a 3/32 Diameter, E-6010 filler in the 1G position. (ILO1, ILO2)

Explain what parameters are influenced by the application of AWS D1.1 Specifications with regard to SMAW in Alaska in the Winter as compared to Brazil. (ILO1, ILO2, ILO5)

Identify and apply the correct type, size, current settings, and technique for a given WPS. (ILO1, ILO2)

Demonstrate applicable critical thinking skills to resolve problems pertaining to lay-out and welding per D1.1 specifications. (ILO1, ILO2, ILO4)

Course Objectives

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

- 1. Demonstrate and apply appropriate safety protocols.**

2. Recognize and apply various welding processes.
3. Recognize and apply the various weld joint designs used in plate welding.
4. Describe filler electrode identification and application.
5. Describe and apply appropriate welding techniques to be used in a variety of welding positions.
6. Interpret drawings, welding symbols, and utilize filler gauges.

**FALL SEMESTER 2014
IMPORTANT DATES AND DEADLINES**

NOTE: The deadlines below are for full-term classes. Deadlines for short-term classes vary with the length of the class. Most deadlines are mandated in the CA Code of Regulations and are a percentage of the length of the class.

July 7 - 17 Priority registration for new, continuing and re-enrolling students. Students may register for a maximum of 16 units during the Priority Registration period and add additional units up to 19 units during Open Registration.

July 17 Registration begins for students concurrently enrolled in grades K-12

August 17 Residency determination date

August 18 Classes begin. Beginning on first day each class meets, add authorization code from instructor required to register for that class, filled or open

August 18 – 30 Late Registration. Beginning on first day each class meets, add authorization code from instructor required to register for that class, filled or open.

*****August 30*** Deadline to register for full-term courses. Deadline to drop full-term classes without owing fees and/or be eligible for refund. Deadline to select P/NP grading option for courses with that option (see section on Change Grading Options). Does not pertain to Non-credit Program courses.**

September 1 Deadline to drop without course appearing on transcript (without receiving W). Note: fees will be charged and no refunds given for courses dropped on this date. See August 30.

September 1 Holiday – Labor Day. No Classes. (Campus Closed)

September 2 Census

September 2 Ticketing for parking violations in student spaces on main campus begins. Note: tickets are issued for reserved (faculty/staff), disabled, metered, 15-minute, and no-parking spaces year around.

September 8 Financial Aid Enrollment Status Freeze Date

September 26 Deadline to make up incomplete grade (I) granted Spring or Summer 2014
October 23 Financial Aid Return to Title IV drop deadline.

November 1 Deadline to submit Petition for Graduation for degree to be awarded Fall 2014. Completed petition must be received in Admissions & Records Office by this date. Students must meet with a Counselor and have an evaluation completed and petition signed before this date.

*****November 8*** Deadline to drop full-term classes.**

November 11 Holiday – In Honor of Veterans’ Day. No Classes. (Campus Closed)

November 24 – 26 No Classes (Campus Open)

November 27 – 29 Holiday – Thanksgiving. No Classes. (Campus Closed)

December 8 - 13 Last week of classes including final examinations.

December 15 – 19 No Classes. (Campus Open)

December 22 – January 2 Winter Recess. (Campus Closed)

January 6 – February 6 Winter Intersession 2015

Textbooks & Other Resources or Links

Required Information—discretionary language

- **Take from CurricUNET or list. Be sure to include ISBN number. Instructors to address which resources they will use and/or supply additional ones**
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Course Requirements and Instructional Methods

Class Activity

Mid-Term/Final Exam(s)

Objective

Problem Solving Exercise

Quizzes

Skill Demonstration

Written Assignments

INSTRUCTIONAL METHODOLOGY:

Audio Visual

Computer Assisted Instruction

Demonstration

Discussion

Group Activity

Individual Assistance

Lab Activity

Lecture

Simulation/Case Study

ASSIGNMENTS:

Out-of-class:

Reference the your Classroom Lecture Notes, your Textbook (Chapter 8, SMAW Electrodes), and the AWS Handbook, (The Metals, Welding Filler Metals; Chapter 4 and Chapter 12).

- 1. Determine what the chemical composition of AWS A 5.1 (E-6010) is and what influence this has on the use of 3/32 E-6010 in the 1 G position on Low Plain/Carbon Steel.**
- 2. What two elements are predominant in the flux coating of this electrode?**
- 3. What welding positions does the AWS specify for this electrode?**
- 4. What type of welding current does the AWS specify for this electrode and what polarity?**

Reading and Writing:

Prepare a written report on ANSI/AWS welding code D1.1 on the essential variables and nonessential variables associated with structural steel, welding with low hydrogen electrodes.

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

- 1. Attendance: First day of class, regular attendance and withdrawal after exceeding the number of class hours per week.**
- 2. Tardiness: Three times equals one absence (I.V.C. Gen. Catalog pg.24) 09-10**

3. Absences: 3 absences = automatic drop. (I.V.C. Gen. Catalog pg.24) 09- 10

4. Student Conduct (I.V.C Gen. Catalog pg. 22) 2009-10

5. Grading System (I.V.C. General Catalog pg. 17) 2009-10

A = 90% - 100% of points = Excellent

B = 80% - 89% of points = Good

C* = 70% - 79% of points = Satisfactory

D = 60% - 69% of points = Pass, Less than Satisfactory

F = Less than 60% of points = Failing

*** Many programs require most or all courses to be completed with a “ C ” grade or better; not an average of “ C.”**

6. Overall Regulations (I.V.C General Catalog, pgs. 19-29)

Attendance

Required language

- 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.

Classroom Etiquette

Required Information --Discretionary language

This is where an instructor explains his/her policy on these matters. Here is some suggested language:

- Electronic Devices: Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor. **Consider:** specifics for your class/program
- 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.
- 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, no one who is not enrolled in the class may attend, including children.

Academic Honesty

Required Language

- 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 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 School 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 Help – Discretionary Section and Language

The instructor can add the information pertinent to his or her class here. Some suggested language:

- Blackboard support center:
<http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543>
- Learning Labs: There are several 'labs' on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Study Skills Center (library). Please speak to the instructor about labs unique to your specific program.
- 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)

Required Language: 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, if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Required Language: Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Required Language: Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities, please refer to the IVC General Catalog available online at

http://www.imperial.edu/index.php?option=com_docman HYPERLINK

["http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762"](http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762) HYPERLINK ["http://www.imperial.edu/index.php?option=com_docman](http://www.imperial.edu/index.php?option=com_docman) HYPERLINK

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Information Literacy

Required Language: Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/>

Anticipated Class Schedule / Calendar

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

Date or Week	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
Week 1 August 19 - 21	Syllabus & Introduction Chapter 1-15-Science of Development	Pages 1-502
Week 2 August 28 - 30	Chapter 1-15 continued Chapter 16 -Biology of Mind	Pages 504-505
Week 3 September 4-6	Paper: Distinguishing myth from science during first 2 years of life.	Due 9-16-2013