

# IMPERIAL VALLEY COLLEGE

## Course Syllabus

### EWIR 115

Electrical Wiring and Protection

4 Units

M 6:00-9:10pm (Lab) Bldg 3100, Room 3113

T 6:00-8:05pm (Lec) Bldg 3100, Room 3112

TH 6:00-9:10pm (Lab) Bldg 3100, Room 3113

Spring 2017

Instructors: Jose Roman

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**Prerequisites:** EWIR 110- Electrical Principles with a grade of “C” or better, or equivalent.

**Required Text:** **Modern Residential Wiring** Based on the 2014 NEC (Book & Workbook), Harvey N. Holzman. **Dewalt** -Electrical Professional Reference 2014 Code

**Recommended text:** National Electric Code Softbound 2014 Edition (NFPA 70)

### **Course Description:**

This Course is designed to introduce students to a comprehensive study of Electrical Wiring and Protection. Topics will include NEC, branch circuits and feeders, electrical service and calculations, wiring methods and materials, equipment for general use, conductors and over current protection.

### **Course Objectives:** (*Learning Goals*)

To discuss, define, understand and identify the principles and methods of electrical wiring installation, conductor installations, cable pulling, cable supports, NEC termination requirements, and protection application.

### **Classroom and Laboratory Rules:**

No food is allowed in the classroom. Bottled water is authorized during lectures and lab. Cell phones must be placed in “manner mode” or turned off.

### **Grading Policy:**

The student's grade will be determined by the total number of points earned from each tests, (this include Chapt. tests, midterm, and final exam) review assignments (11) and (10) lab activities. Below you will find the basis for grading:

Exams	550 points
Assignments	250 points
Lab activities	250 points
<b><u>Attendance</u></b>	<b>*150 points</b>
<b>Total Points</b>	<b>1200</b>

1200-1080	=	A
1079-960	=	B
959-840	=	C
839-720	=	D

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### **Examination Policy:**

All exams are mandatory! The exams will include multiple choice and (maybe-true/false answers). Each exam will cover material presented in class, and be reviewed prior to each exam. **MISSED EXAMS WILL NOT BE ALLOWED TO BE MADE UP! Note: If I allow you to make-up an exam a 10% will be deducted on your grade.** Cheating on exam and/or plagiarizing will lead to a "Zero" for the test/assignment, and may lead to dismissal from the class.

### **Attendance Policy:**

Class attendance policy follows the regulations in the IVC catalog. Students who receive **three absences** *will be dropped from the course unless prior arrangement has been made with instructor.* Three tardiness shall constitute one absence. Students who fail to return from break shall be marked absent for that session.

**\*Participation- This course will meet three days per week of one classroom day and two days of lab. Therefore, class participation and lab will be part of your grade for this semester.**

### **Disabled Student Program & Services (DSPS):**

IVC catalog policy follows the regulation of Section 504 of the Rehabilitation Act and the (ADA) Americans with Disabilities Act. Services are provided to students with reasonable accommodations to students with mobility, hearing, speech, and orthopedic impairments, learning disabilities, psychological disabilities, and other health impairments. Services are provided on an individual basis and may include reader services, note taking, tutoring, counseling, sign language interpreting, priority registration, learning disabilities assessment, and adapted computer instruction. **Note:** visual and color blind may be an electrical safety hazard for the individual who cannot determine or identifying the color code for wiring as part of the National Electrical Code (NEC) electrical safety requirements, and Occupational Safety and Health Administration (OSHA).

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# Descriptive Course Outline

## EWIR 115 Spring 17'

<b><u>Week #</u></b>	<b><u>Monday</u></b>	<b><u>Tuesday (Lec)</u></b>	<b><u>Thursday</u></b>
<b>1</b> (2/13-14/16)	Intro. to Class; Safety Video Assign ABOUT YOU!	Example of Lab & Assignment Cont. Safety Video	
<b>2</b> ( <u>2/20</u> -21/23)	<b>CLASS CLOSED</b>	<b><u>Chapter 22-Career</u></b> Chapter 22 Assign & Workbook	Review for Test #1 Lab-TBA
<b>3</b> (2/27-28/3/2)	Review for Test #1 Lab-TBA	<b>Test #1- Career</b> <b>Assn. #1 Due</b> <u>Chapter 4-Wiring System</u> Chapt.4 Assign & Workbk	Continue Chapt.4 Lab-TBA
<b>4</b> (3/6-7/9)	Review for Test #2 Lab-TBA	<b>Test #2-Wiring System</b> <b>Assn. #2 Due</b> <u>Chapter 11-Elect. Prints</u> Chapt.11 Assign & Workbk Handout Blueprint project	Continue Chapt.11 Lab-Conduit project
<b>5</b> (3/13-14/16)	Cont. Chapter 11 Lab- Conduit project	Cont. Chapter 11 Cont. Lab-Blueprint	Review for Test #3 Lab- Conduit project
<b>6</b> (3/20-21/23)	Review for Test #3 <b>Lab-Conduit project</b> <b>Due</b>	<b>Test #3-Elec. Print</b> <b>Assn. #3 Due &amp; LAB</b> <u>Chapt.12/13</u> Chapt.12/13 Assign & Workbk	Cont. Chapt.12/13 NO LAB
<b>7</b> (3/27-28/30)	Cont. Chapt.12/13 NO LAB	Cont. Chapt.12/13 project #4/5	Cont. Chapt.12/13 NO LAB project #4/5
<b>8</b> (4/3-4/6)	Review Test # 4 & 5 Resume Lab	<b>Test #4&amp;5/ Assn. #4/5 Due</b> Review Midterm	Review Midterm Lab-TBA

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<b><u>Week #</u></b>	<b><u>Monday</u></b>	<b><u>Tuesday (Lec)</u></b>	<b><u>Thursday</u></b>
<b>9</b> (4/10-11/13)	Review Midterm Lab-TBA	<b>MIDTERM</b> <u>Chapt.14/15</u> Chapt.11 Assign & Workbk Cont.Lab #5/6 project	Lab-TBA Cont. Chapt.14/15
<b>10</b> ( <u>4/17-4/19</u> )	<b>CLASS SPRING</b>	<b>CLOSED BREAK</b>	
<b>11</b> (4/24-4/26)	Review for test #6 & 7 Lab-Wall project	<b>Test #6 &amp; 7</b> <b>Assn. #6 &amp; 7 Due</b> <u>Chapt.16-Pools</u> Chapt.16-Assign&Workbk	Lab-Wall project
<b>12</b> (5/1-5/3)	Review for test #8 Lab-Wall project	<b>Test #8</b> <b>Assn. #8 Due</b> <u>Chapt.17-Telephone</u> Chapt.17-Assign&Workbk	Lab-Wall project
<b>13</b> (5/8-5/10)	Cont. Chapt.17 Chapt.17 Lab project	Cont. Chapt.17 Cont. Chapt.17 Lab project	Lab-Wall project
<b>14</b> (5/15-5/17)	Review for test #9 Lab-Wall project	<b>Test #9</b> <b>Assn. #9 Due</b>	Lab-Wall project
<b>15</b> (5/22-5/24)	Lab-Wall project	review final	Lab-Wall project
<b>16</b> ( <u>5/29</u> -5/31)	<b>CLASS CLOSED</b>	Cont. review final	Cont. review final <b>Final Lab project</b>
<b>17</b> ( <u>6/5-6/7</u> )	Cont. review final	Cont. review final	<b><u>Final Exam!!!!</u></b>

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