

## Course Descriptions

Courses are classified by subject as they exist at West Hills College Lemoore. All courses within an area usually count toward a major in that area. Other institutions may classify their courses differently. Transfer students should consult the catalog of the four-year college to which they intend to transfer for its classification of identical or comparable courses.

**The 2019-2020 course catalog requires an addition. The following courses have been added or updated:**

Athletics (ATHL) . . . . .	1
Electronics Technology (ELET) . . . . .	1
English (ENG) . . . . .	2
Maintenance Mechanics (MM) . . . . .	2
Non-Credit (NC) . . . . .	3

### Athletics (ATHL)

**ATHL 001                      Pre-Season Athletic Conditioni                      (0.5 - 3)**

*Class Hours:* 175 Laboratory

*Transfers to:* CSU

Pre-Season Athletic Conditioning

ATHL 001 is designed to provide off-season physical conditioning, skills/technique training and increased knowledge of sport.

### Electronics Technology (ELET)

**ELET 002                      Electronic Circuits                      (4)**

*Class Hours:* 54 Lecture | 54 Laboratory

*Prerequisite(s):* ELET001

*Transfers to:* CSU

Electronic Circuits

ELET 002 is an application of analog and digital electronic circuits and systems. Content includes: semiconductor components, analog circuits (power supplies, amplifiers, and oscillators), digital electronic circuits (logic gates, sequential logic circuits), and digital signal processing (A/D and D/A conversion).

**ELET 007                      Adv Programmable Logic Control                      (3)**

*Class Hours:* 36 Lecture | 54 Laboratory

*Prerequisite(s):* ELET003

*Transfers to:* CSU

Advanced Programmable Logic Control

ELET 007 is an expansion to the function and application of programmable logic controllers. Students will become familiar with the programming of Allen Bradley Control Logix series controllers with RSLogix 5000 software, providing all of the basics of using the Rockwell Automations Control Logix platform of PLCs.

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## English (ENG)

### **ENG 002 Introduction to Literature (3)**

*Class Hours:* 54 Lecture

*Prerequisite(s):* ENG 001A

*Transfers to:* UC/CSU

*C-ID:* ENGL 120

#### Introduction to Literature

ENG 002 introduces representative works from major genres, develops students' close reading and analytical writing skills, and promotes appreciation and critical understanding of the cultural, historical and aesthetic qualities of literature.

### **ENG 004 World Literature (3)**

*Class Hours:* 54 Lecture

*Prerequisite(s):* ENG 001A

*Advisory(s):* ENG 051A

*Transfers to:* UC/CSU

*C-ID:* ENGL 145

#### World Literature

ENG 004 is a comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from the mid or late seventeenth century to the present. Special attention is given to critical thinking and writing within a framework of cultural diversity as well as comparative and interdisciplinary analysis. A goal of the course is to promote an understanding of the works in their cultural, historical, and political contexts and of the enduring human values that unite the different literary traditions.

## Maintenance Mechanics (MM)

### **MM 051A Intro. to Industrial Mechanics (3)**

*Class Hours:* 36 Lecture | 54 Laboratory

*Corequisite(s):* MM 051B

#### Introduction to Industrial Mechanics

MM 051A provides students with the fundamental knowledge and skills necessary for mechanical systems including, hand and power tool use, precision measurement tools, power transmission systems, hydraulic systems, pneumatic systems, centrifugal pumps, and lubrications.

### **MM 051B Mathematics for Machine Tech. (3)**

*Class Hours:* 54 Lecture

#### Mathematics for Machine Technology

MM 051B is an interactive course that explores mathematics for machine technology. Students use hand tools, industrial components and mechanical drive systems to explore how the mathematical concepts and topics established in general arithmetic processes, fundamental algebra, fundamental plane geometry, geometry areas and volumes, and fundamental trigonometry apply to industrial machine technology.

### **MM 051C Electrical for the Industrial (3)**

*Class Hours:* 36 Lecture | 54 Laboratory

#### Electrical for the Industrial Mechanic

MM 051C is an interactive course that explores electrical systems in the manufacturing plant. Students use hand tools, industrial components and mechanical drive systems to explore how to install, test and inspect electrical components. Additionally the concepts and codes will be introduced showing how complex systems come together creating a safe environment for employees, operators and mechanics in the industrial plant.

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**MM 051D Power Transmission Systems 1 (3)**

*Class Hours:* 36 Lecture | 54 Laboratory

*Advisory(s):* MM 051A (Recommended, Previous or concurrent).

**Power Transmission System 1**

MM 051D provides students with an in-depth look and hands on experience with new mechanical drives concepts and componenets V-belt driven systems, chain driven systems, spur gears as part of a system and multiple shaft driven systems and using hand and power tool use, precision measurement tools to align, measure and build documentation for preventive maintenance monitoring.

**MM 051E Hydraulic & Pneumatic Syst. 1 (3)**

*Class Hours:* 36 Lecture | 54 Laboratory

*Advisory(s):* MM 051A and MM 051B

**Hydraulic and Pneumatic Systems 1**

MM 051E provides students with an in-depth look and hands on experience with hydraulic and pneumatic theory, components and systems using hand and power tools, precision measurement tools and schematics to explore the functionality and control of hydraulic and pneumatic systems.

**MM 051F Pump Systems 1 (3)**

*Class Hours:* 36 Lecture | 54 Laboratory

*Advisory(s):* MM 051A and MM 051B

**Pump Systems 1**

MM 051F provides students with an in-depth look and hands on experience with centrifugal pump theory, components and systems including single and multiple pump systems. Additionally students using hand and power tools, precision measurement tools and schematics to explore the functionality and controls hydraulic and pneumatic systems.

**MM 054 Welding Fundamentals (3)**

*Class Hours:* 36 Lecture | 54 Laboratory

**Welding Fundamentals**

MM 054 covers basic metallurgy and properties of metals, oxyacetylene weldng and cutting processes arc welding, and safety within the work environment.

## Non-Credit (NC)

**NC 130 Advanced Reading, Writi & Spea (N/A)**

*Class Hours:* 54 Lecture

P/NP

**Advanced Reading, Writing and Speaking**

ESL 130 is for students whose native language is not English. This course emphasizes advanced reading, grammar and sentence writing. This course prepares students for college level reading and writing.

**NC 135 Adv Comm Skills for Life & Car (N/A)**

*Class Hours:* 54 Lecture

P/NP

**Advanced Communication Skills for Life and Career**

NC 135 is for students who have advanced ESL skills in reading, writing, and speaking. Students will practice communication skills necessary for career and life. This will be done through presentations, role playing, and mock interviews.