

HUMANITIES

HUMA-210 Human Heritage I 4 cr.

The course compares and contrasts the histories and values of European/American, Chinese, and Native American societies throughout the classical periods and 19th century. Emphasis is on contact between these societies and the cultural values that explain the nature of this contact. Semester offered: Fall.

HUMA-211 Human Heritage II 4 cr.

The course compares and contrasts the histories and values of European/American, Chinese, and Native American societies throughout the 18th and 20th centuries. Emphasis is on contact between these societies and the cultural values that explain the nature of this contact. Semester offered: Spring.

HUMA-238 Leadership and Group Dynamics 3 cr.

Designed to provide a basic understanding of leadership and group dynamics to help the student develop a personal philosophy of leadership and an awareness of the moral and ethical responsibilities of leadership. Students will engage in a variety of experiential learning exercises in order to develop leadership skills. Also listed as BADM 238. Semester offered: On Demand.

INDUSTRIAL PROCESS OPERATOR PROGRAM

IPOP-110 Intro to Process Technology 4 cr.

Introduces students to plant operations, including process technician duties, responsibilities and expectations, plant organizations, industrial economics, plant process and utility systems. Corequisites: IPOP 130, IPOP 133. Semester offered: Fall, Spring and Summer.

IPOP-130 Safety, Health and Environment 4 cr.

Develop knowledge and skills to reinforce the attitudes and behaviors required for safe and environmentally sound work habits. Emphasis on safety, health and environmental issues. Corequisites: IPOP 110, IPOP 133. Semester offered: Fall, Spring and Summer.

IPOP-133 Process Technology I-Equipment 4 cr.

Instructs students on the usage of common process equipment. Included are the basic functions, scientific principles and symbols. Students will identify components on typical process flow diagrams and piping and instrument diagrams. Corequisites: IPOP 110, IPOP 130. Semester offered: Fall, Spring and Summer.

IPOP-135 Maintenance Overview for Operators 4 cr.

Introduces the maintenance of equipment that utilizes mechanical, electrical and instrumentation concepts. Prerequisites: IPOP 110, IPOP 130, and IPOP 133. Corequisites: IPOP 160, IPOP 165. Semester offered: Fall, Spring and Summer.

IPOP-160 Intro to Instrumentation 4 cr.

Covers the varied instruments and instrument systems used in the process industry. Prerequisites: IPOP 110, IPOP 130, IPOP 133. Corequisites: IPOP 135, IPOP 165. Semester offered: Fall, Spring and Summer.

IPOP-165 Process Technology II-Systems 4 cr.

Study the interrelationship of process equipment and process systems. The student will arrange process equipment into basic systems; describe the purpose and function of specific process systems; explain how factors affecting process systems are controlled under normal conditions, and recognize abnormal process conditions. Prerequisites: IPOP 110, IPOP 130, and IPOP 133. Corequisites: IPOP 135, and IPOP 160. Semester offered: Fall, Spring and Summer.

IPOP-235 Process Technology III-Ops 4 cr.

Continuing from IPOP 165 Process Systems I, this second year course will deal in more complex process systems and their interdependency with a focus on automatic control. Prerequisites: IPOP 135, IPOP 160, IPOP 165. Corequisites: IPOP 261, IPOP 262. Semester offered: Fall, Spring and Summer.

IPOP-261 Distributed Control Systems 4 cr.

Teaches students to perform typical control room operational procedures. Students will learn to operate the Distributed Control System through the use of graphical displays that reflect process conditions. Prerequisites: IPOP 135, IPOP 160, and IPOP 165. Corequisites: IPOP 235, and IPOP 262. Semester offered: Fall, Spring and Summer.

IPOP-262 Process Troubleshooting Systems 4 cr.

Instructs the student in the different types of troubleshooting techniques, procedures, and methods that are used to solve process problems. Prerequisites: IPOP 135, IPOP 160, and IPOP 165. Corequisites: IPOP 235 and IPOP 261. Semester offered: Fall, Spring and Summer.

IPOP-263 Gas Processing and Refining 4 cr.

Study of the major processes used in the gas processing industry. Petroleum refining topics include physical and chemical properties of petroleum products, introduction to major modern refining processes, and operational technology for refining processes. Prerequisites: IPOP 235, IPOP 261, IPOP 262. Corequisites: IPOP 264 and IPOP 265. Semester offered: Fall, Spring and Summer.

IPOP-264 Environmental Processes 4 cr.

Prepares the student for the various environmental process systems. Introduction to boiler water treatment, raw water treatment cooling water treatment, and ion exchange will be covered. Prerequisites: IPOP 235, IPOP 261, IPOP 262. Corequisites: IPOP 263 and IPOP 265. Semester Offered: Fall, Spring and Summer.

IPOP-265 Electrical Power Generation 4 cr.

Introduces the student to the process of generating electricity. Students will summarize electrical distribution systems, power generation, boiler operation and combustion control. Prerequisites: IPOP 235, IPOP 261, IPOP 262. Corequisites: IPOP 263 and IPOP 264. Semester offered: Fall, Spring and Summer.

INDUSTRIAL TECHNOLOGY

TECH-110 Industrial Technology I 4 cr.

General study of concepts around which technology is based. Includes electromotive force, power, energy, and how they are used. Basic concepts of electricity, light, and heat, and how they are used in electronics. Covers many facets of technology. Semester offered: Spring.