

VETT-235 Lab Animal/Small Exotic Clinical Procedure 2 cr.

Covers the common diseases of lab animals and small exotics and emphasizes proper sanitation and disease prevention techniques, appropriate medication administration procedures, animal nutrition, reproduction, and behavior.

Prerequisites: All Tier-3 courses in VETT program. Student must have clinical site and preceptor approved. Video portfolios must be completed for animal nursing, surgical assisting, and clinical pathology. Offered: All. Faculty Permission Required.

VETT-236 Emergency and Critical Care Medicine 2 cr.

Emergency and Critical Care Medicine is designed to teach students emergency and critical care nursing skills to assist students in preparing for their credentialing examinations.

Prerequisites: Student must have clinical site and preceptor approved. Video portfolios must be completed for animal nursing, surgical assisting, and clinical pathology. Offered: All. Faculty Permission Required.

WELDING**WELD-111 Basic Welding 2 cr.**

Course covers procedures, processes, equipment, and terminology employed in welding and related fields. Welding equipment and industry safety will also be covered. Provides students with the basic knowledge and hands-on experience to perform basic cutting operations. Stresses the theory and practical applications of stick electrode welding with E6010, E7018, and E7024 Electrodes. WELD 111, Basic Welding course is required for Machine Shop and the Diesel Degree and Certificate programs. Offered: Fall & Spring.

WELD-128 Blueprint Reading for Welders 3 cr.

Stresses interpretation of prints related to welding and metal fabrication. Types of prints, print reproduction, welding and construction symbols and workbook exercises are reviewed. Offered: Fall & Spring.

WELD-129 Basic Welding I 4 cr.

This course will cover introductory theory and practical applications of structural plate welding, welding safety, hand-held torch cutting operations and equipment set up. The development of student skills using the Shielded Metal Arc Welding process in all positions will be stressed. Corequisites: WELD-130,WELD-131,WELD-132. Offered: Fall & Spring.

WELD-130 Basic Welding II 4 cr.

This course will cover commonly used joint configurations and practical applications of these joints using structural plate. Advancing the development of student's skills using Shielded Metal Arc Welding in all positions and E-6010, E-7018 and E-7024 electrodes will be stressed. Corequisites: WELD-129,WELD-131,WELD-132. Offered: Fall & Spring.

WELD-131 Basic MIG Welding 4 cr.

A basic course designed to provide the student with the ability to setup, maintain, and operate Metal Inert Gas (MIG) welding equipment safely. Develop the necessary skills to weld structural joints and bend tests in all positions utilizing mild steel plate. Visual and destructive testing methods will be used to determine weld quality. Corequisites: WELD-129,WELD-130,WELD-132. Offered: All.

WELD-132 Basic TIG Welding 4 cr.

A basic course designed to provide the student with the ability to setup, maintain, and operate Tungsten Inert Gas (TIG) equipment safely. Develop the necessary skills to weld structural joints and perform bend tests in all positions utilizing mild steel plate. Weld quality will be measured with visual and destructive testing methods. Corequisites: WELD-129,WELD-130,WELD-131. Offered: All.

WELD-133 Plate Welding I 4 cr.

A continuation of Weld 130 with an emphasis on bend tests using light steel plate welded in all positions. The Shielded Metal Arc Welding (SMAW) process using E-6010 and E-7018 electrodes will be utilized. Weld quality will be measured using visual and destructive testing methods. Prerequisites: WELD-129, WELD-130, WELD-131, and WELD-132. Corequisites: WELD-134,WELD-135,WELD-136. Offered: Fall & Spring.

WELD-134 Plate Welding II 3 cr.

A continuation of Weld 133 with an emphasis on medium and heavy plate utilizing side bend tests in all positions using single vee groove and backing strips. The Shielded Metal Arc Welding (SMAW) process utilizing E-6010 and E-7018 electrodes will be used. Weld quality will be measured using visual and destructive testing methods. Prerequisites: WELD-129, WELD-130, WELD-131, AND WELD-132. Corequisites: WELD-133,WELD-135,WELD-136. Offered: Fall & Spring.

WELD-135 Introduction to Metal Fabrication I 3 cr.

This class will be an introduction to general layout and fabrication techniques as related to structural welding. Emphasis will be on construction of small projects to tolerances using blueprints. A variety of welding processes will be used in the vertical up and overhead positions only. Prerequisites: WELD-129, WELD-130, WELD-131, AND WELD-132. Corequisites: WELD-133,WELD-134,WELD-136. Offered: Fall & Spring.

WELD-136 Introduction to Metal Fabrication II 3 cr.

This class will focus on layout along with fabrication techniques as related to structural welding and repair. Emphasis will be on construction and repair of projects to tolerances using small groups and blueprints as applicable to industry settings. A variety of welding processes and all welding positions will be used. Prerequisites: WELD-129, WELD-130, WELD-131, AND WELD-132. Corequisites: WELD-133,WELD-134,WELD-135. Offered: Fall & Spring.

WELD-204 Pipe Welding 1-G/2-G 3 cr.

Stresses the theory and practical application of 1-G and 2-G pipe welding. This course will develop individual skills in the fit-up and technique of welding pipe, using E-6010 electrodes and the Shielded Metal Arc Welding process. Prerequisites: WELD-133, WELD-134, WELD-135, and WELD-136. Corequisites: WELD-205,WELD-206,WELD-207. Offered: Fall & Spring.

WELD-205 Pipe Welding 5-G/6-G 4 cr.

Stresses the theory and practical application of 5-G and 6-G pipe welding. This course will develop individual skills in the technique of downhill pipe welding, using E-6010 electrodes and the Shielded Metal Arc Welding process. Prerequisites: WELD-133, WELD-134,

WELD-135, and WELD-136. Corequisites: WELD-204, WELD-206, WELD-207. Offered: Fall & Spring.

WELD-206 Intermediate Metal Fabrication I 3 cr.
Introduction to general layout and fabrication techniques as related to structural welding. Emphasis on structural metal materials and how they are employed to build objects used in industry. Prerequisites: WELD-133, WELD-134, WELD-135, and WELD-136. Corequisites: WELD-204, WELD-205, WELD-207. Offered: Fall & Spring.

WELD-207 Intermediate Metal Fabrication II 4 cr.
A continuation of Intermediate Metal Fabrication I. With an emphasis on methods of metal production, metal properties, and properly choosing of materials to construct metal fabrication products. Prerequisites: WELD-133, WELD-134, WELD-135, and WELD-136. Corequisites: WELD-204, WELD-205, WELD-206. Offered: Fall & Spring.

WELD-208 Advanced 2-G/5-G Pipe Welding 3 cr.
A continuation of Pipe Welding. The 2-G and 5-G positions will be covered utilizing both the Shielded Metal Arc Welding and Tig welding processes. Theory and practice in modern welding methods of pressure pipe lines and piping systems will be covered. Prerequisites: WELD-204, WELD-205, WELD-206, and WELD-207. Corequisites: WELD-209, WELD-217, WELD-218, WELD 229 Offered: Fall & Spring.

WELD-209 Advanced 6-G Pipe Welding 3 cr.
Emphasis on pipe welding techniques in the 6-G position using both TIG and SMAW welding processes. Theory and practice will be covered in modern methods of pressure piping systems. Prerequisites: WELD-204 WELD-205 WELD-206 WELD-207. Corequisites: WELD-208, WELD-217, WELD-218. WELD 229. Offered: Fall & Spring.

WELD-211 Welding Related Metallurgy 3 cr.
Familiarizes students with methods of metal production, metal properties, ASME weld testing, heat treatment of metals, and special welding applications. Offered: Fall & Summer.

WELD-217 Pipe Fabrication & Layout I 4 cr.
Designed to correlate the several related courses of the program of study. Major emphasis given to special assignments which require students to apply his/her knowledge of fabrication and layout methods in construction principles using pipe. Prerequisites: WELD-204, WELD-205, WELD-206, and WELD-207. Corequisites: WELD-208, WELD-209, WELD-218, WELD 229. Offered: Fall & Spring.

WELD-218 Pipe Fabrication & Layout II 4 cr.
A continuation of Pipe Fabrication and Layout I. Emphasis on construction techniques using a variety of joint designs in the piping industry will be covered. Prerequisites: WELD-204, WELD-205, WELD-206, and WELD-207. Corequisites: WELD-208, WELD-209, WELD-217, WELD-229. Offered: Fall & Spring.

WELD-229 Template Theory & Construction 3 cr.
Stresses template development for the use of structural steel shapes in power plant construction and maintenance, oil equipment fabrication and industrial piping systems. Corequisites: WELD-208, WELD-209, WELD-217, WELD-218 Offered: Spring & Summer.

WELL CONTROL

WELL-112 Well Service/Work-Over 7 cr.

WELL-115 WC Drilling Comp WO 3 cr.
Well control training for drilling, workover and/or completion personnel. This course will award 2 year IADC Wellcap Supervisory level certification. Offered: All. Faculty Permission Required.

WELL-116 Introduction to Oil and Gas 1 cr.
This course will introduce students to the basics of the oil and gas industry. Offered: All.

