

- VETT-211 Veterinary Business Procedures** 2 cr.
Advanced course designed to develop advanced knowledge and skills in all financial aspects of veterinary practice, animal behavior, personnel and practice management, ordering of inventory, and accountability.
- VETT-212 Small Animal Disease and Medical Care III** 2 cr.
Advanced course designed to complete the study of selected specific small animal diseases and the anatomical and physiological basis of the specific diseases that are being presented.
- VETT-213 Pharmaceutical and Medical Therapeutic III** 2 cr.
Advanced course designed to complete the study of selected specific small animal diseases and the anatomical and physiological basis of the specific diseases that are being presented.
- VETT-214 Veterinary Anesthesia and Surgical Assisting III** 2 cr.
Advanced course in advanced and interactive pre-anesthetic evaluations, induction of anesthesia, and the monitoring of anesthesia and post-anesthetic patients.
- VETT-215 Veterinary Diagnostic Imaging III** 2 cr.
Advanced course in advanced safety techniques, the use of contrast media, advanced radiographic procedures, and advanced veterinary diagnostic ultrasound techniques.
- VETT-216 Veterinary Clinical Pathology III** 2 cr.
Advanced course in hematology, cytology, histopathology, blood chemistry, urinalysis, and diagnostic microbiology.
- VETT-230 Veterinary Anatomy and Physiology** 3 cr.
Covers the anatomy and physiology of domestic animals and presents specific information on large animal and non-traditional species anatomy and physiology.
- VETT-231 Laboratory Animal Disease and Medical Care** 3 cr.
Covers the common diseases of laboratory animals and emphasizes proper sanitation and disease prevention techniques, appropriate medication administration procedures, animal nutrition, reproduction, and behavior.
- VETT-232 Large Animal Diseases and Medical Care** 2 cr.
Instructs students in sanitation and disease prevention techniques, correct use and administration and documentation of medications, and the pathophysiology of common diseases of large animals.
- VETT-233 Large Animal Clinical Assisting** 3 cr.
Designed to teach the student physical examinations, restraint techniques, treatment and medication administration, and record keeping techniques for large animals.
- VETT-234 Clinical Practicum** 2 cr.
Designed to teach students emergency and critical care nursing skills and to assist students in preparing for their credentialing examinations.
- VETT-236 Emergency and Critical Care Medicine** 2 cr.
Designed to teach students emergency and critical care nursing skills to assist students in preparing for their credentialing examinations.

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. Required for Machine Shop and the Diesel Degree and Certificate programs. Semester Offered: Fall.
- 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. Semester offered: Fall and 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. Corequisite: WELD 131. Semester Offered: Fall and 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 students' skills using Shielded Metal Arc Welding in all positions and E-6010, E-7018 and E-7024 electrodes will be stressed. Prerequisite: WELD 129. Corequisite: WELD 132. Semester Offered: Fall and 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. Prerequisite: WELD 130. Corequisite: WELD 129. Semester Offered: Fall and Spring.
- WELD-132 Basic TIG Welding** 4 cr.
A basic course designed to provide the student with the ability to set up, 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. Prerequisite: WELD 131. Corequisite: WELD 130. Semester offered: Fall and Spring.
- 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. Prerequisite: WELD 130. Semester offered: Fall and 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. Prerequisite: WELD 133. Semester Offered: Fall and 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. Prerequisite: WELD 132. Semester Offered: Fall and 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. Prerequisite: WELD 135. Semester Offered: Fall and 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. Prerequisite: WELD 136. Semester Offered: Fall and 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. Prerequisite: WELD 204. Semester Offered: Fall and 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 135 and WELD 136. Semester Offered: Fall and 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. Prerequisite: WELD 206. Semester Offered: Fall and 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. Prerequisite: WELD 204 and WELD 205. Semester Offered: Fall and 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. Prerequisite: WELD 208. Semester Offered: Fall and 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. Semester offered: Fall. Semester Offered: Fall.

WELD-217 Pipe Fabrication and Layout I 4 cr.
Designed to correlate the several related courses of the program of study. Major emphasis given to special assignments which requires students to apply his/her knowledge of fabrication and layout methods in construction principles using pipe. Corequisite: WELD 229.

WELD-218 Pipe Fabrication and 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. Prerequisite: WELD 217 and WELD 229. Semester Offered: Fall and Spring.

WELD-229 Template Theory and 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. Corequisite: WELD 217. Semester Offered: Spring.

WELD-267 Metal Sculpture 3 cr.
Advanced ornamental welding procedures, equipment, and terminology used in the industry. Welding equipment and safety will be addressed. This course will also provide students with advanced knowledge and hands-on experience to perform techniques and applications as applied to metal sculpture using oxy/acetylene, gas metal arc, and gas tungsten arc welding equipment. Cross-listed with ARTS 267. Course is not required for a degree or certificate. Semester offered: Fall and Spring.