

Welding

WELD 102 (P/T) 3 Credits

PIPE WELDING

Quarters: Spring

Designed for the student seeking employment in the welding industry where pipe welding is a major component. The student will be introduced to pipe layout and fitting techniques. The student will then apply their welding skills to produce welds in the 2G, 5G, and 6G positions to industry standards.. Prerequisites: WELD 150, WELD 160, WELD 120, WELD 103, or instructor approval.

WELD 103 (P/T) 5 Credits

SHIELDED METAL ARC WELDING II

Quarters: Fall, Winter, Spring

Instruction given in the selection and use of Shielded Metal Arc Welding (SMAW) equipment and in the basic techniques of safely welding ferrous metal in the five American Welding Society defined joint configurations and in the flat, horizontal, vertical and overhead positions. Included is the selection and use of mild steel electrodes. Prerequisites: WELD 150, or instructor approval

WELD 104 (P/T) 3 Credits

GAS METAL ARC WELDING

Quarters: Fall, Spring

Instruction given in the selection and use of Gas Metal Arc Welding (GMAW) equipment and in the basic techniques of safely welding ferrous and non-ferrous metals in the five American Welding Society defined joint configurations and in the flat, horizontal, vertical and overhead positions. Prerequisites: WELD 160, or instructor approval

WELD 105 (P/T) 2 Credits

ADVANCED PIPE WELDING

Quarters: Spring

Designed for the student to improve and expand the skills learned in WELD 102. The focus will be on welded joints requiring multiple welding processes to complete. Prerequisites: WELD160, WELD 102, or instructor approval

WELD 106 (P/T) 3 Credits

FLUX CORED ARC WELDING

Quarters: Winter, Spring

Instruction given in the selection and use of Flux Cored Arc Welding (FCAW) equipment and in the basic techniques of safely welding ferrous and metal in the five American Welding Society defined joint configurations and in the flat, horizontal, vertical and overhead positions. Proper electrode selection will be covered. Prerequisites: WELD 160, or instructor approval

WELD 120 (P/T) 3 Credits

WELDING SYMBOLS AND PRINT READING

Quarters: Fall, Winter, Spring

Designed to give the student an introduction to the basic concepts of industrial drawing systems used in the fabrication and erection of welded components. Emphasis is placed upon the application and understanding of welding symbols.

WELD 130 (P/T) 2 Credits

PERFORMANCE WELDING-OAW

Quarters: Spring

Performance Welding-OAW is designed for the student who needs to develop a higher level of manipulative skill proficiency then obtained in WELD 150. Some sections may have a no-cost text book option. Prerequisites: WELD 150, or instructor approval

WELD 131 (P/T) 2 Credits

PERFORMANCE WELDING-SMAW

Quarters: Fall, Winter, Spring

Performance Welding-SMAW is designed for the student who needs to develop a higher level of manipulative skill proficiency then obtained in WELD 150 or WELD 103. Some sections may have a no-cost text book option. Prerequisites: WELD 150, or instructor approval

WELD 132 (P/T) 2 Credits

PERFORMANCE WELDING-GMAW

Quarters: Fall, Winter, Spring

Performance Welding-GMAW is designed for the student who needs to develop a higher level of manipulative skill proficiency then obtained in WELD 160 or WELD 104. Some sections may have a no-cost text book option. Prerequisites: WELD 160, or instructor approval

WELD 133 (P/T) 2 Credits

PERFORMANCE WELDING-FCAW

Quarters: Fall, Winter, Spring

Performance Welding-FCAW is designed for the student who needs to develop a higher level of manipulative skill proficiency then obtained in WELD 160, or WELD 105. Prerequisites: WELD 160, or instructor approval

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WELD 134 (P/T) 2 Credits

PERFORMANCE WELDING-GTAW

Quarters: Summer, Fall, Winter, Spring

Performance Welding-GTAW is designed for the student who needs to develop a higher level of manipulative skill proficiency then obtained in WELD160. Prerequisites: WELD 160 or instructor approval

WELD 135 (P/T) 2 Credits

PERFORMANCE WELDING-CODE PRACTICAL

Quarters: Fall, Winter, Spring

Performance welding-Code Practical Plate is designed for the student who needs to develop a higher level of manipulative skill in preparation for a practical weld qualification test. Prerequisites: WELD 103, or instructor approval

WELD 136 (P/T) 2 Credits

PERFORMANCE WELDING-CODE PRACTICAL

Quarters: Fall, Spring

Performance Welding-Code Practical Pipe is designed for the student who needs to develop a higher level of manipulative skill proficiency then obtained in WELD 102. Prerequisites: WELD 102 or instructor approval

WELD 150 (P/T) 5 Credits

BASIC WELDING I

Quarters: Fall, Winter, Spring

Entry level class that covers safety and a basic knowledge of the setup and operation of the followings processes. Oxy-Acetylene Welding (OAW), Oxy-Acetylene Cutting (OAC), Plasma Arc Cutting (PAC), Air Carbon Arc Cutting (CAC-A) and Shielded Metal Arc Welding (SMAW).

WELD 160 (P/T) 5 Credits

BASIC WELDING II

Quarters: Winter, Spring

Designed to give the student a basic knowledge and ability to safely set up and operate the Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW) processes.

WELD 190 (P/T) 5 Credits

WELDING CODES, PROCEDURE AND INSPECT

Quarters: Spring

Design to give the student a working knowledge of code sections and how they apply to the welding industry. Inspection requirements will be covered and applied to the student's practical weld test. Prerequisites: WELD 150, WELD 160, WELD 103, WELD 105 or instructor approval

WELD 296 (P/T) 4 Credits

WELDING FABRICATIONS PRACTICES

Quarters: Spring

Instruction in fabrication techniques including blueprint reading, layout tools, material lists, time management, job cost calculations, measuring, fitting, cutting, and welding. Beginning projects will be assigned. Prerequisites: WELD 150, WELD 160, or instructor approval

WELD 297 (P/T) 2 Credits

WELDING FABRICATION PRACTICES II

Quarters: Spring

Students will be assigned intermediate fabrication projects based on skills acquired in WELD296 Welding Fabrication Practices.

Prerequisites: WELD 296, or instructor approval

WELD 298 (P/T) 2 Credits

WELDING FABRICATION PRACTICES III

Quarters: Spring

Students will be assigned advanced fabrication projects based on skills acquired in WELD 296 Welding Fabrication Practices, and WELD 297 Welding Fabrication Practices II. Prerequisites: WELD 297, or instructor approval

Writing

WR 090 3 Credits

FUNDAMENTALS OF COMPOSITION

Quarters: Fall, Winter

Develops basic writing skills such as sentence structure, grammar, and punctuation used in paragraph structure. Some sections may have a low-cost text book option. Prerequisites: Suitable placement score.

- WR 095 3 Credits
ENGLISH COMPOSITION
Quarters: Summer, Fall, Winter, Spring
Emphasizes basic grammar, punctuation, sentence structure, and paragraph development necessary for effective college-level writing. Some sections may have a low-cost text book option. Prerequisites: Pass WR 90 with a "C-" or better, or suitable placement score.
- WR 115 4 Credits
INTRO TO COLLEGE WRITING
Quarters: Summer, Fall, Winter, Spring
Develops the students' critical thinking skills and emphasizes basic competence in grammar, mechanics, and sentence structure, with particular attention to unified writing, and coherent essays. Some sections may have a low-cost text book option. Prerequisites: Pass WR 95 with a C- or better, or suitable placement score.
- WR 118 1 Credit
INTRO TO INFORMATION LITERACY
Quarters: Fall
This course teaches students an understanding of both information literacy and research processes. Students will learn how to identify and narrow research topics, plan and carry out research, identify credible sources, and utilize appropriate citation methods.
- WR 121 Z 4 Credits
COMPOSITION I
Quarters: Summer, Fall, Winter, Spring
Engages students in the study and practice of critical thinking, reading, and writing. The course focuses on analyzing and composing across varied rhetorical situations and in multiple genres. Students will apply key rhetorical concepts flexibly and collaboratively throughout their writing and inquiry processes. Prerequisites: Pass WR 115 with a grade of "C-" or better, or suitable writing placement exam score.
- WR 122 Z 4 Credits
COMPOSITION II
Quarters: Summer, Fall, Winter, Spring
Builds on concepts and processes emphasized in WR 121Z, engaging with inquiry, research, and argumentation in support of students' development as writers. The course focuses on composing and revising in research-based genres through the intentional use of rhetorical strategies. Students will find, evaluate, and interpret complex material, including lived experience; use this to frame and pursue their own research questions; and integrate material purposefully into their own compositions. Prerequisites: Pass WR 121 with a "C-" or better.
- WR 123 3 Credits
ENGLISH COMPOSITION
Quarters: Offered as needed
Assists students in using successful steps for the research process, including formulating research proposals, using effective search strategies, analyzing and evaluating sources, and demonstrating mastery of documentation. Emphasis is on writing a lengthy research paper which will support an argumentative thesis using appropriate rhetorical strategies, applicable evidence, and effective language. Prerequisites: Pass WR 122 with a "C-" or better.
- WR 227 Z 4 Credits
TECHNICAL WRITING
Quarters: Offered as needed
Introduces students to producing instructive, informative, and persuasive technical/professional documents aimed at well-defined and achievable outcomes. The course focuses on presenting information using rhetorically appropriate style, design, vocabulary, structure, and visuals. Students can expect to gather, read, and analyze information and to learn a variety of strategies for producing accessible, usable, reader-centered deliverable documents that are clear, concise, and ethical. Prerequisites: Pass WR 122 with a "C-" or better.
- WR 241 3 Credits
INTRO TO IMAGINATIVE WRITING
Quarters: Spring
Explores reading and writing some of the major varieties of imaginative, or "creative", writing. Focus: reading and writing short fiction. Prerequisites: Pass WR 115 with a "C-" or better, or suitable placement score.
- WR 242 3 Credits
INTRO TO IMAGINATIVE WRITING
Quarters: Offered as needed
Explores the reading and writing of three of the major varieties of imaginative, or "creative", writing. Focus: reading and writing creative nonfiction. Prerequisites: Pass WR 115 with a "C-" or better, or suitable placement score.
- WR 243 3 Credits
INTRO TO IMAGINATIVE WRITING
Quarters: Offered as needed
Explores the reading and writing of three of the major varieties of imaginative, or "creative", writing. Focus: reading and writing poetry. Prerequisites: Pass WR 115 with a "C-" or better, or suitable placement score.