**Ornamental Iron Work**
**Common Course Syllabus**

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| **Course Information** |
| **Organization** | Northern Wyoming Community College |
| **Course Number** | WELD 2610 |
| **Credits** | 3 |

**Description**
This course focuses on welding skills needed to create and fabricate a variety of ornamental iron forms using, forge, anvil, hammers, bending and shaping equipment, oxyfuel welding and cutting, plasma cutting, shielded metal arc welding (stick), and gas metal arc welding (wire). Safe work practices are emphasized. Individuals are encouraged to work on skills needed to suit their individual creative ends.

**Purpose**
WELD 2610 Ornamental Iron Work can be used as a general elective.

**Class Format**
Lecture/Lab

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| **Prerequisites** |
| None |
| **Co-requisite** |
| None |

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| **Textbooks** |

 *Textbook and/or authority reviewed materials that are selected by individual instructors with Director/Area Coordinator approval.*

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| **Core Abilities** |
| A. | Think Critically |
| B. | Acquire and Apply Knowledge |
| C. | Communicate Effectively |

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| **Competencies** Upon completion of WELD 2610 Ornamental Iron Work, the student will: |
| 1. | distinguish between safe and unsafe working environments. |
| 2. | interpret proper personal protection equipment required for welding. |
| 3. | demonstrate safe set-up and operation of welding, cutting, iron working, and related shop equipment.  |
| 4. | demonstrate proper techniques to avoid smoke and fumes. |
| 5. | identify weld joint designs. |
| 6. | demonstrate planning, design, and completion of ornamental metal projects of a creative nature.  |
| 7. | construct a series of small projects and a final project. |
| 8. | identify weld joint designs. |
| 9. | demonstrate hot and cold metal working techniques. |

**Grading**
Letter

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| **Minimum Course Requirements** |
| Construct a series of small projects |
| Design and construct a final project |

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| **Guidelines and Information** |
| **Academic Honesty Statement**Students are expected to maintain the highest standards of academic honesty and integrity. Academic honesty means performing all academic work without lying, cheating, deceit, plagiarism, misrepresentation, or unfairly gaining advantage over any other student. Violations of academic honesty are in violation of District standards for student conduct and shall result in disciplinary action. |
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| **Disability Statement**Students with disabilities who believe they may need accommodations in this class are encouraged to contact the ADVISING OFFICE as soon as possible to ensure such accommodations may be implemented. |