## Course Options

### Industrial Welding

**Certificate:** 25 credits  
**Associate in Applied Science:** 60 credits (combination of industrial welding, technical electives, and general education credit requirements)

All costs are subject to change without notice. Please call 269-965-4137 to verify.

### Modules Offered at Hastings High School

<table>
<thead>
<tr>
<th>Module Subject Code and Number</th>
<th>Module Title</th>
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<th>Contact Hours</th>
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### UNIT 05

#### Basics of Welding

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### UNIT 10

#### Oxyacetylene Welding

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### UNIT 20

#### Brazing and Soldering

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### UNIT 25

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### UNIT 30

#### Advanced Arc Welding

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## Modules Offered at Hastings High School

### Kellogg Community College

### Industrial Welding

#### Course Options

Certificate: 25 credits  
Associate in Applied Science: 60 credits (combination of industrial welding, technical electives, and general education credit requirements)

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| UNIT 35 WELDING METALLURGY    | INTRO TO METALLURGY                 | 0.46   | 11            | 9.00     | 125.81  | 134.81     |
| INWE 35010-8230               | EXAMINE IDENTIFY METALS             | 0.13   | 3             | 14.00    | 35.56   | 49.56      |
| INWE 35030-8230               | METALLURGY FUND CAST IRON           | 0.13   | 3             | 9.00     | 35.56   | 44.56      |
| INWE 35040-8230               | METALLURGY FUND STAINLESS           | 0.13   | 3             | 9.00     | 35.56   | 44.56      |
| INWE 35050-8230               | TESTING METALS                      | 0.42   | 10            | 9.00     | 114.87  | 123.87     |
| **UNIT TOTAL**                |                                    | **1.27** | **30**        | **50.00** | **347.36** | **397.36** |

| UNIT 40 GAS METAL ARC WELDING | EXPLAINING GMAW                     | 0.29   | 7             | 34.00    | 79.32   | 113.32     |
| INWE 40020-8230               | START ARC RUN BEADS GMAW            | 0.17   | 4             | 29.00    | 46.50   | 75.50      |
| INWE 40030-8230               | GMAW FCAW WELD ALL POSITIONS        | 1.67   | 40            | 93.00    | 456.75  | 549.75     |
| **UNIT TOTAL**                |                                    | **2.80** | **67**        | **156.00** | **582.57** | **738.57** |

| UNIT 45 GAS TUNGSTEN ARC WELDING | EXPLAINING GTAW                     | 0.42   | 10            | 30.00    | 114.87  | 144.87     |
| INWE 45020-8230               | START ARC RUN BEADS GTAW            | 0.42   | 10            | 29.00    | 114.87  | 143.87     |
| INWE 45030-8230               | GTAW ALUMINUM FLAT POSITION         | 1.25   | 30            | 73.00    | 341.88  | 414.88     |
| INWE 45040-8230               | BASIC JOINTS STAINLESS              | 1.25   | 30            | 57.00    | 341.88  | 398.88     |
| INWE 45050-8230               | GTAW ALUMINUM OUT POSITION          | 1.67   | 40            | 83.00    | 456.75  | 539.75     |
| **UNIT TOTAL**                |                                    | **5.01** | **120**       | **272.00** | **1,370.25** | **1,642.25** |

| **TOTAL**                     |                                    | **21.85** | **525**       | **1,727.00** | **5,976.13** | **7,703.13** |

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**FOR OFFICE USE ONLY**

Instructor Approval ___________________________ Date __________

Total Credit ___________________________ Total Contact __________ Total Cost __________