The Welding program prepares students for careers in welding fabrication, welding manufacturing, and/or welding repair. The curriculum is designed to develop skills, attitudes, and competencies in welding processes including oxy-fuel welding and cutting, gas metal arc welding, gas tungsten arc welding, and shielded metal arc welding. In addition, students will receive training in welding safety, blueprint reading, metallurgy, and layout and fabrication. An Associate of Applied Science Degree and three certificate options are available. The Associate of Applied Science Degree consists of 64-65 semester credit hours and takes approximately two years to complete. Each certificate consists of 18-21 semester credit hours and takes approximately one year to complete. To receive a Welding Technology certificate, students must maintain a 2.5 grade point average. Students interested in this program should contact the Technical Studies Division office to obtain additional information and/or acquire a degree or certificate plan.

The following is the suggested sequence of courses for the following degree and certificates. A + indicates courses which have a prerequisite or co-requisite. However, courses that do not have a prerequisite do not have to be taken in order. For example, WLDG 1521 does not have to be taken before WLDG 1553 since 1521 is not a prerequisite for 1553. Nevertheless, the general sequence should still be followed. Part-time students may require more than four semesters to complete their degrees.

### Associate of Applied Science

<table>
<thead>
<tr>
<th>Semester I</th>
<th></th>
<th>Semester III</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLDG 1521 Intro. to Welding Fundamentals</td>
<td>5</td>
<td>+WLDG 2543 Advanced Shielded Metal Arc Welding</td>
</tr>
<tr>
<td>+WLDG 1557 Intermediate Shielded Metal Arc Welding (SMAW)</td>
<td>5</td>
<td>+WLDG 1530 Intro. to Gas Metal Arc Welding or</td>
</tr>
<tr>
<td>MCHN 1320 Precision Tools and Measurement</td>
<td>3</td>
<td>+WLDG 1534 Intro. to Gas Tungsten Arc Welding</td>
</tr>
<tr>
<td>Humanities/Fine Arts</td>
<td>3</td>
<td>DFTG 1305 Technical Drafting</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
<td>Natural Science/Mathematics</td>
</tr>
<tr>
<td><strong>Semester II</strong></td>
<td></td>
<td><strong>16-17</strong></td>
</tr>
<tr>
<td>WLDG 1553 Intermediate Layout &amp; Fabrication</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>+WLDG 1530 Intro. to Gas Metal Arc Welding (GMAW) or</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>+WLDG 1534 Intro. to Gas Tungsten Arc Welding (GTAW)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>OSHT 1301 Intro. to Safety &amp; Health (WEB)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
<td></td>
</tr>
</tbody>
</table>

1Select the Humanities/Fine Arts section of the General Education Course List
2Select Speech (SPCH) course from the Communications section of the General Education Course List
3Select from the Natural Science/Mathematics section of the General Education Course List.
4Select from the Humanities/Fine Arts section of the General Education Course List.
5Select from the Social/Behavioral Sciences section of the General Education Course List.
## Basic Certificate in Welding Technology

**Semester I**
- WLDG 1521  Intro. to Welding Fundamentals 5
- +WLDG 1557 Intermediate Shielded Metal Arc Weld (SMAW) 5
- OSHT 1301  Intro. To Safety & Health (WEB) 3

**Semester II**
- +WLDG 1525 Introduction to Oxy-Fuel Welding 5
- MCHN 1320  Precision Tools and Measurement 2

**TOTAL** 21

## Intermediate Certificate in Welding Technology

**Semester I**
- +WLDG 1530 Introduction to Gas Metal Arc Welding 5
- +WLDG 1534 Introduction to Gas Tungsten Arc Welding 5

**Semester II**
- WLDG 1553 Intermediate-Layout & Fabrication 5
- +WLDG 2543 Advanced Shielded Metal Arc Welding 3

**TOTAL** 18

## Advanced Certificate in Welding Technology

**Semester I**
- +WLDG 2506 Intermediate Pipe Welding 5
- +WLDG 2547 Advanced Shielded Metal Arc Welding 5
- +WLDG 2551 Advanced Gas Tungsten Arc Welding 5

**Semester II**
- +WLDG 2535 Advanced Layout & Fabrication 5
- +WLDG 2553 Advanced Pipe Welding 5

**TOTAL** 20

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