

## Welding- Technical Certificate

The one year certificate in Welding is designed for students wishing to secure marketable welding skills. Through an organized progression of steps, the student builds ability with the different welding processes offered. Progression is competency based. Students will achieve different levels of expertise, determined by their interest, aptitude, and participation in class. Welder Qualification is available. All structural qualification testing will be done in accordance with American Welding Society Structural code D1.1. All pipe qualifications will adhere to Section 1X of the American Society of Mechanical Engineers welding code. Students must earn a grade of "C" or above in each required course.

Requirements:

| First Semester   | Credit Hours |
|--|--------------|
| WE17001 Oxygen/Acetylene Safety and Orientation              | 1            |
| WE17013 Blueprint Reading for Welders                        | 3            |
| WE17094 SMAW Structural Welding (Partial Joint Penetration)  | 4            |
| WE17104 SMAW Structural Welding (Complete Joint Penetration) | 4            |
| WE17034 Shielded Metal Arc Welding (SMAW) Pipe Welding       | 4            |

| TC - Welding            |      |         |         |
|-------------------------|------|---------|---------|
| Minimum Scores Required |      |         |         |
|                         | Math | English | Reading |
| ACT                     | 11   | 11      | 11      |
| Accuplacer              | 26A  | 52      | 33      |

### Second Semester

|                                   |           |
|-----------------------------------|-----------|
| CE 11003 Workplace Essentials     | 3         |
| *Approved Electives               | 12        |
| <b>Total Program Credit Hours</b> | <b>31</b> |

\* Choose from the following approved electives

|  |   |
|--|---|
| WE17044 Gas Tungsten Arc Welding (GTAW) - Pipe             | 4 |
| WE17064 Gas Metal Arc Welding                              | 4 |
| WE17074 Gas Tungsten Arc Welding (GTAW) –<br>Manufacturing | 4 |
| WE17084 Flux Cored Arc Welding                             | 4 |

## Welding- Certificate of Proficiency

Students must earn a grade of "C" or above in each required course.

### Requirements: Credit Hours

|  |           |
|--|-----------|
| WE 17001 Oxygen/Acetylene Safety and Orientation                 | 1         |
| WE 17094 SMAW Structural Welding<br>(Partial Joint Penetration)  | 4         |
| WE 17104 SMAW Structural Welding<br>(Complete Joint Penetration) | 4         |
| *Approved Electives  | 7         |
| <b>Total Certificate Credit Hours</b>                            | <b>16</b> |

Choose from the following Approved Electives\*

|   |   |
|---|---|
| CE 11003 Workplace Essentials                               | 3 |
| WE 17034 Shielded Metal Arc Welding (SMAW)<br>Pipe Welding  | 4 |
| WE 17044 Gas Tungsten Arc Welding (GTAW) - Pipe             | 4 |
| WE 17064 Gas Metal Arc Welding                              | 4 |
| WE 17074 Gas Tungsten Arc Welding (GTAW) -<br>Manufacturing | 4 |
| WE 17084 Flux Cored Arc Welding                             | 4 |

| CP - Welding            |      |         |         |
|-------------------------|------|---------|---------|
| Minimum Scores Required |      |         |         |
|                         | Math | English | Reading |
| ACT                     | 11   | 11      | 11      |
| Accuplacer              | 26A  | 52      | 33      |

For more information about ANC graduation rates, the median debt of students who completed the program, and other important information, please visit the ANC website at: <http://www.anc.edu/gainfulemployment/index.htm>