

### Program Information

The Anoka Technical College Associate of Applied Science (AAS) degree in Welding is a 66-credit program designed for individuals seeking a well rounded welding background. The degree program also offers a balance of general education courses to complement the welding courses and to provide students with opportunity to capitalize on a broad-based welding education.

The Welding program consists of technical courses, specifically designed to develop exceptional welding skills utilizing the major welding processes that are vital to industry.

The technical courses are broken out into semester-long certificates to provide quick access into a welding career.

### Program Learning Outcomes

By completing this program, students will achieve the following learning outcomes.

1. Graduates of the WT Program will demonstrate entry level competencies as defined by the WT Program, WT Program Advisory Board and AWS.
2. The WT Program will retain qualified and committed faculty who are involved in ongoing educational/professional growth activities.
3. The WT Program will provide a student-centered educational process.
4. The WT Program will build and maintain relationships within the community and business/industry community.
5. The WT Program will maintain adequate enrollment of students.

### Certification

The Welding program not only provides students with a thorough background in welding and related theory, but also prepares students with the knowledge and skills needed to take three national certification examinations:

- American Society of Mechanical Engineers;
- American Petroleum Institute; and
- American Welding Society's Welding Code

### Course Prerequisites

Some courses may require appropriate test score or completion of basic math, basic English and/or reading courses with a "C" or better.

### Graduation Requirements

All Anoka Technical College students seeking an Associate in Applied Science (AAS), diploma, or certificate must meet the cumulative grade point average (GPA) of 2.0 or higher.

### Transfer Opportunities

To see how credits from this program may transfer into other Anoka Technical College programs or into a program at another college, visit:

- [Minnesota Transfer](http://www.mntransfer.org/students/plan/s_agreements.php?numResults=25&archive=false&from_inst=70&from_prog=&to_inst=&Search=Search): (www.mntransfer.org/students/plan/s\_agreements.php?numResults=25&archive=false&from\_inst=70&from\_prog=&to\_inst=&Search=Search)
- [Anoka Technical College transfer student](http://www.anokatech.edu/BecomeStudent/Transfers.aspx): (www.anokatech.edu/BecomeStudent/Transfers.aspx)

### Industry Information

The diversification of the welding industry impacts virtually every industry around the globe. From the depth of the world's oceans to the far-reaching corners of outer space, there is a welding position for every hardworking, ambitious, smart individual who is ready and willing to constantly improve and strive for excellence.

A career choice in welding offers a vast array of options for employment and continuing personal development. Welding is the most common way to permanently join metal parts. Heat is applied to the pieces that are being joined, melting and fusing them together which forms a permanent bond.

Therefore, welding plays a key role in industry production lines, laboratories, research and development, national defense, sales and service, NASCAR and drag racing, custom motorcycle building, artwork, sculptures, pipelines, power plants, refineries, construction, maintenance, repair and much more.

### Wages/Outlook/Advancement

Welders and solderers can advance to more skilled jobs with additional training and experience. For example, experienced welders may become technicians, supervisors, inspectors, or instructors. Other experienced welders and solderers open their own repair shops.

Wage information is available from the [Minnesota Department of Employment and Economic Development](https://mn.gov/deed/job-seekers/job-outlook/) (https://mn.gov/deed/job-seekers/job-outlook/).

### Technical Education: 51 Credits

<b>Basic Welding Certificate</b> .....	<b>17</b>
WELD 1002 Math for Welders .....	1
WELD 1004 Oxy-Fuel Applications .....	1
WELD 1006 Oxy-Fuel Processes .....	1
WELD 1008 Blueprint Reading I .....	2
WELD 1012 Processes and Power Sources I .....	3
WELD 1014 Gas Tungsten Arc Welding I .....	3
WELD 1016 Gas Metal Arc Welding I .....	3
WELD 1018 Shielded Metal Arc Welding I .....	3
<b>Welding Technology Diploma</b> .....	<b>17</b>
WELD 1022 Blueprint Reading II .....	3
WELD 1024 Metals Theory I .....	2
WELD 1026 Processes and Power Source II .....	3
WELD 1028 Gas Tungsten Arc Welding II .....	3
WELD 1034 Gas Metal Arc Welding II .....	3
WELD 1036 Shielded Metal Arc Welding II .....	3
<b>Fabricator Certificate</b> .....	<b>17</b>
WELD 1209 Basic Pipe Welding .....	5
WELD 2000 Basic Pipe Layout .....	3
WELD 2004 Metals Theory II .....	3
WELD 2006 Welding Code Interpretation .....	2
WELD 2008 Blueprint Reading III .....	4

(continued)

2019-2020

# Welding

Associate of Applied Science (AAS) Degree

### General Education: 15 Credits

Fifteen (15) general education credits of Minnesota Transfer Curriculum (MnTC) are required. MnTC credits must be from three different goal areas. Student is required to take:

MATH 1500 Mathematical Ideas ..... 3  
General Education/MnTC Electives ..... 12

*Also see: Welding Technology diploma, Basic Welding certificate, Welding Fabricator certificate, and Pipe Welding certificate*

### Start Dates

Fall Semester ..... August  
Spring Semester ..... January

### Faculty Contact

[Jay Gerdin](#) ..... 763-576-4055  
[Rich Godeen](#) ..... 763-576-4122  
[Lisa Glendower](#) ..... 763-576-4086

For information on how to apply, to schedule a tour, or for service during summer hours, contact Enrollment Services at 763-576-7710 or [EnrollmentServices@anokatech.edu](mailto:EnrollmentServices@anokatech.edu)

## Sample Program Sequence

Full Time

		First Semester	Second Semester
1 <sup>st</sup> YEAR	WELD 1002	1	WELD 1022 ..... 3
	WELD 1004	1	WELD 1024 ..... 2
	WELD 1006	1	WELD 1026 ..... 3
	WELD 1008	2	WELD 1028 ..... 3
	WELD 1012	3	WELD 1034 ..... 3
	WELD 1014	3	WELD 1036 ..... 3
	WELD 1016	3	<b>TOTAL</b> ..... <b>17</b>
	WELD 1018	3	
	<b>TOTAL</b>	<b>17</b>	
			<b>Third Semester</b>
2 <sup>nd</sup> YEAR	WELD 1209	5	MATH 1500 ..... 3
	WELD 2000	3	General Ed/MnTC courses 12
	WELD 2004	3	<b>TOTAL</b> ..... <b>15</b>
	WELD 2006	2	
	WELD 2008	4	
<b>TOTAL</b>	<b>17</b>		