2014-2015

Welding

Associate in Applied Science (AAS) Degree

Technical Requirements	51
General Education/MnTC	15
TOTAL CREDITS	66

Program Information

The Anoka Technical College associate in applied science (AAS) degree in Welding is a 66-credit program designed for individuals seeking a well-rounded welding background.

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:

Semester 1: Basic Welding Certificate
17 Credits
The first semester is designed for individuals who want quick access into the welding careers.

Semester 2: Welding Technology Diploma
17 Credits
The second semester is designed for individuals who have completed our Basic Welding Certificate and want to further their knowledge and proficiency. By mastering the more advanced welding disciplines, these individuals will expand their ability to choose more rewarding career opportunities.

Semester 3: Fabricator Certificate
17 Credits
The third semester offers individuals the opportunity to develop skills necessary for construction, manufacturing, building and fabrication of real weldments. These people generally have good welding ability, but desire the skills for actual applications.

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.

Certification

Graduates of the Anoka Technical College Welding program are prepared to take three national certification examinations:

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

Prerequisites

Although no prior knowledge or experience is necessary to succeed in Anoka Technical College Welding program, prospective students should have a high school diploma or GED, good physical health and stamina, good hand-eye coordination and manual dexterity.

Helpful high school classes include general math, drafting, welding, machine shop, and construction/carpentry. Students should be able to lift a 60-pound spool of wire and a 50-pound box of welding rods and should be able to pass an industrial physical examination (requirements may vary).

Graduation Requirements

All Anoka Technical College students must demonstrate basic competency in Math, English, and Reading. Competency may be demonstrated through achieving minimum cut scores in new student assessments (Accuplacer); through other assessment exemptions; or through successful completion of Basic Math, Basic English, and Reading courses, earning a "C" or higher before receiving a diploma or an associate in applied science degree.

Technical Education — 51 Credits

Basic Welding Certificate ..... 17 Credits

☐ 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 & 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

Additional Credits ..... 17 Credits

☐ WELD 1022	Blueprint Reading II	3
☐ WELD 1024	Metals Theory I	2
☐ WELD 1026	Processes & Power Sources 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

Fabricator Certificate ..... 17 Credits

☐ 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

General Education/MnTC Requirements — 15 Credits

Fifteen (15) general education credits of Minnesota Transfer Curriculum are required. Student is required to take:

☐ MATH 1500	Mathematical Ideas	3
☐ General Education/MnTC Courses		12

The remaining twelve (12) credits must be taken from the Minnesota Transfer Curriculum. Refer to the ATC Web site for a list of the Minnesota Transfer Curriculum and their goal areas: www.AnokatTech.edu/current_students/transfer/

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

Also see graduation standards in Anoka Technical College *Student Handbook.*

NOTE: Program plans are subject to change. Please contact your program advisor for the most current program information.

Transfer Opportunities

To see how this program transfers to other programs, review the Anoka Tech articulation agreements at Minnesota Transfer. Articulation agreements are transfer agreements with specific programs and partnering schools. These agreements detail how specific courses transfer to a specific program at the partnering school. For a complete list of Anoka Tech's articulation agreements listed by program please see this Minnesota Transfer link.

This program may also include Minnesota Transfer Curriculum (MnTC) courses. MnTC courses transfer to meet MnTC general education courses throughout the Minnesota State Colleges and Universities (MnSCU) system.

(continued on back)

This information is available in alternative formats by calling 763-576-4069. TTY users can call Minnesota Relay at 800-627-3529 • A member of the Minnesota State Colleges and Universities System • Anoka Technical College is an equal opportunity, affirmative action employer and educator. Accredited by the Higher Learning Commission.

ANOKA TECHNICAL COLLEGE

Anoka Technical College
1355 West Highway 10
Anoka, MN 55303
763-433-1100
AnokaTech.edu

Rev. 4/2014

2014-2015

Welding

Associate in Applied Science (AAS) Degree

Technical Requirements	51
General Education/MnTC	15
TOTAL CREDITS	66

MnTC courses from Anoka Technical College transfer to any MnSCU institution to meet the same goal areas that are met at Anoka Tech. Students are encouraged to contact the Office of Records and Registration at all transfer schools for details about the institution's transfer process and policies.

For more information please visit our Transfer page

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 striving 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 Education and the Minnesota Department of Employment and Economic Development.

Start Dates

Fall Semester ..... August

Faculty Contact

Jay Gerdin	763-576-4055
Rich Godeen	763-576-4122
Joe Ferdelman	763-576-4068
For service during summer hours contact Enrollment Services	763-576-7710

For information on how to apply or to schedule a tour, please contact Admissions by phone 763-576-7710 or by email at info@anokatech.edu

Sample Program Sequence

Full -Time

	First Semester	Second Semester
FIRST YEAR	WELD 1002 ..... 1 WELD 1004 ..... 1 WELD 1006 ..... 1 WELD 1008 ..... 2 WELD 1012 ..... 3 WELD 1014 ..... 3 WELD 1016 ..... 3 WELD 1018 ..... 3 **TOTAL..... 17**	WELD 1022 ..... 3 WELD 1024 ..... 2 WELD 1026 ..... 3 WELD 1028 ..... 3 WELD 1034 ..... 3 WELD 1036 ..... 3 **TOTAL..... 17**
	Third Semester	**Second Semester**
SECOND YEAR	WELD 1209 ..... 5 WELD 2000 ..... 3 WELD 2004 ..... 3 WELD 2006 ..... 2 WELD 2008 ..... 4 **TOTAL..... 17**	MATH 1500 ..... 3 MnTC transferable general .... 12 **TOTAL..... 15**

This information is available in alternative formats by calling 763-576-4069. TTY users can call Minnesota Relay at 800-627-3529 • A member of the Minnesota State Colleges and Universities System • Anoka Technical College is an equal opportunity, affirmative action employer and educator. Accredited by the Higher Learning Commission.

ANOKA TECHNICAL COLLEGE

Anoka Technical College
1355 West Highway 10
Anoka, MN 55303
763-433-1100
AnokaTech.edu

Rev.4/2014