

WELDING AND MATERIALS TECHNOLOGY

College of Rural and Community Development
Community and Technical College
907-455-2800
www.ctc.uaf.edu/programs/weld/

Welding is an important industrial skill with applications in agriculture, mining, transportation, aviation, oil and gas, and construction. Training ranges from welding basics to advanced pipe and metal plate fabrication.

Classes are small to offer hands-on training and maximum interaction between the student and instructor. Students may request credit by examination for any WMT class. Advanced students may work toward American Welding Society certification or pursue advanced projects. Contact the department for details.

The following courses are part of the welding and materials technology program:

WMT F101—Introduction to Welding.....	3
WMT F102—Intermediate Welding.....	3
WMT F103—Welding I.....	3
WMT F105—Welding II.....	3
WMT F106—Heat Treating/Metal Finishing/Knife Making I....	3
WMT F117—Oxy-Acetylene Welding and Cutting.....	3
WMT F130—Shielded Metal Arc Welding (SMAW).....	1 – 3
WMT F150—Gas Tungsten Arc Welding (GTAW).....	1 – 3
WMT F160—Gas Metal Arc Weld Alum (GMAW).....	1 – 3
WMT F170—Military Training Welding I.....	3
WMT F206—Heat Treating/Metal Finishing/ Knife Making II.....	3
WMT F210—Uphill Pipe Welding.....	3
WMT F241—Gas Tungsten Arc and Gas Metal Arc Welding....	3
WMT F270—Military Training Welding II.....	3
WMT F280—Military Training Welding III.....	3
WMT F290—Welding Proficiency Maintenance.....	3

All degrees (e.g. Certificate, A.A., A.A.S., A.S., etc) require additional courses. Refer to specific degree and program requirements.

Certificate Requirements

COMMUNICATION (2-3)

Complete one of the following:

ENGL F111X.....	(3)	_____
ABUS F170.....	(3)	_____
ABUS F271.....	(3)	_____
ENGL F211X.....	(3)	_____
ENGL F212.....	(3)	_____
ENGL F213X.....	(3)	_____
COMM F131X.....	(3)	_____
COMM F141X.....	(3)	_____
DEVS F104.....	(1 – 3)	_____
DEVS F105.....	(3)	_____

Other program-approved discipline-based communication course or discipline-based courses with embedded communication content. (2 – 3)

* ENGL F212 does not fulfill the second half of the written communication requirement for the bachelor's degree.

COMPUTATION (2-3)

Complete one of the following:

Any course at the F100-level or above in mathematical sciences (computer science, math or statistics).....	(3)	_____
ABUS F155.....	(3)	_____
DEVM F105.....	(3)	_____
ECE F117.....	(3)	_____
HLTH F116.....	(3)	_____
HUMS F117.....	(3)	_____
PRT F155.....	(3)	_____
TTCH F131.....	(3)	_____

Other program-approved discipline-based computation course or discipline-based courses with embedded computation content. (2 – 3)

HUMAN RELATIONS (2-3)

Complete one of the following:

ANTH F100X/SOC F100X.....	(3)	_____
ABUS F154.....	(3)	_____
ANL F287.....	(3)	_____
ECE F245.....	(3)	_____
ED/PSY F245.....	(3)	_____
HLTH F106.....	(3)	_____
HUMS F120.....	(3)	_____
RHS F110.....	(1)	_____
AND RHS F115.....	(2)	_____

Other program-approved discipline-based human relations course or discipline-based courses with embedded human relations content. (2 – 3)

MAJOR SPECIALTY CREDITS (minimum)..... 21

Minimum credits for required certificate..... 30

Associate of Applied Science Requirements

COMMUNICATION (9)

ENGL F111X.....	(3)	_____
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Complete one of the following:

ABUS F271.....	(3)	_____
ENGL F211X.....	(3)	_____
ENGL F212.....	(3)	_____
ENGL F213X.....	(3)	_____

* ENGL F212 does not fulfill the second half of the written communication requirement for the bachelor's degree.

Complete one of the following:

COMM F131X.....	(3)	_____
COMM F141X.....	(3)	_____

COMPUTATION (3)

Complete one of the following:

Any course at the F100-level or above in mathematical sciences (computer science, math or statistics).....	(3)	_____
ABUS F155.....	(3)	_____
DEVM F105.....	(3)	_____
ECE F117.....	(3)	_____
HLTH F116.....	(3)	_____
HUMS F117.....	(3)	_____
PRT F155.....	(3)	_____
TTCH F131.....	(3)	_____

Other program-approved discipline-based computation course or discipline-based courses with embedded computation content. (3)

HUMAN RELATIONS (2-3)

Complete one of the following:

ANTH F100X/SOC F100X.....	(3)	_____
ABUS F154.....	(3)	_____
ANL F287.....	(3)	_____
ECE F245.....	(3)	_____
ED/PSY F245.....	(3)	_____
HLTH F106.....	(3)	_____
HUMS F120.....	(3)	_____
RHS F110.....	(1)	_____
AND RHS F115.....	(2)	_____

Other program-approved discipline-based human relations course or discipline-based courses with embedded human relations content. (3)

MAJOR SPECIALTY CREDITS (minimum)..... 30

Minimum credits required for degree..... 60



UNIVERSITY OF ALASKA FAIRBANKS

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