Catalog Description

The Welding Technology program will provide students with the theory and practice in entry-level welding skills. Upon successful completion of the program, students will be prepared for the American Welding Society (AWS) examinations. The Welding Technology degree requires a minimum of 64 credits in program requirements, program electives and general education courses in the courses listed below.

Program Requirements ..................................................41
Weld 1100  Welding I ....................................................3
Weld 1112*  Oxy-Fuel, Welding, Plasma Cutting, and Brazing.................................3
Weld 1122*  Shielded Metal Arc (SMAW).................................................3
Weld 1132*  Gas Metal Arc (MIG).........................................................3
Weld 1142*  Gas Tungsten Arc (TIG).........................................................3
Weld 1151*  Pipe Welding and Fabrication ........................................3
Weld 1160*  Skill Assessment ..........................................................3
Manuf 1101  Industrial Design/CAD ...............................................3
Manuf 1151  Machine Shop I..........................................................3
Weld 2000*  Introduction to AWS Level 1 .......................................2
Weld 2001*  AWS Level 1 Shielded Metal Arc Welding (SMAW).........................3
Weld 2002*  AWS Level 1 Gas Tungsten Arc Welding (GTAW)........................3
Weld 2003*  AWS Level 1 Flux Core Arc Welding (FCAW)..............................3
Weld 2004*  AWS Level 1 Gas Metal Arc Welding (GMAW)........................3

Program Electives ...............................................................5 to 6
Elmec 1171  Introduction to Robotic Technology ..............................3
Manuf 1121  Physical Metallurgy .....................................................3
Manuf 2280  Industrial Safety .......................................................2

* - course has a prerequisite

General Education .............................................................18 to 22
Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 to 22 credits in General Education.

Under the specified General Education headings below, the following courses are required:

Communication: 6 credits
Written: (3 credits) English 1101 or 1105
Oral: (3 credits) Speech 1100, 1120 or 1150

Physical and Life Sciences: 3 to 5 credits
At least one course with a laboratory component.

Suggested Course Sequence
(Full Time Enrollment)

Please note: A student’s readiness to perform college-level coursework is based on the student’s placement test and/or ACT scores. Below 1000 level coursework may be required prior to the student taking courses in the suggested sequences.

First Semester (15 credits)
- Weld 1100 (3)
- Manuf 1101 (3)
- Manuf 1151 (3)
- Elective (3)
- General Education (3)

Second Semester (14 credits)
- Weld 1112 (3)
- Weld 1122 (3)
- Weld 1132 (3)
- Weld 2000 (2)
- General Education (3)

Third Semester (17 credits)
- Weld 1142 (3)
- Weld 2001 (3)
- Weld 2003 or Weld 2004 (3)
- Elective (2)
- General Education (6)

Fourth Semester (18 credits)
- Weld 1151 (3)
- Weld 1160 (3)
- Weld 2002 (3)
- Weld 2003 or Weld 2004 (3)
- General Education (6)

For more information:
If you are considering this program as an area of study, please contact the Business and Applied Technology Division office at 630-942-2592.

Program web site:
https://cod.edu/academics/programs/welding/index.aspx
**Mathematics**: 3 to 5 credits  
Select a minimum of 3 credits (1000 level or above). Select Mathematics 1102, 1104 or 1120 only where required in the degree program. Only one from the following three courses may count toward overall degree requirement credit: Mathematics 1635, Psychology 2280 or Sociology 2205. Only one of the following courses may count toward overall degree credit: Mathematics 1428 or Mathematics 1431.

**Humanities and Fine Arts**: 3 credits

**Social and Behavioral Sciences**: 3 credits

Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills Category

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<th>TOTAL CREDITS FOR AAS DEGREE</th>
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<td>64 to 69</td>
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Career Information: WELD.AAS

Job Title(s): Welders, Cutters, Solderers, and Brazers:

Use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

For salary and wage information, please visit: www.onetonline.org

If you would like information regarding internships, resume development, and job search skills, please contact the Career Services Center.
Phone: 630-942-2230 www.cod/careerservices Twitter: @codcareercenter

Related Occupations:
- Maintenance Welder
- Aluminum Welder
- Welder Fabricator
- Production Welder
- Welding Technician
- Wirer
- Solderer
- Refrigeration Specialist
- Refrigeration Brazer/Solderer Production Technician