



# Academic Map: Welding Technology: Advanced Level Welder (AAS)

**Associate of Applied Science (A.A.S) | 60 Total Credits | CSN Degree Code: WELDADV-AAS | Catalog Year: 2021-2022 |**

Industry, Manufacturing, Construction & Transportation Advanced and Applied Technologies Department of Applied Technologies  
 Jobs and Employment Information: <https://www.csn.edu/imctarea>

**DESCRIPTION:** The Associate of Applied Science – Advanced Level Welder provides students with the knowledge and skills necessary for successful employment in the welding industry. Continuation of COA requirements, students will receive additional instruction in Welding Inspection and Testing principals, structural welding code, fabrication and layout techniques, as well as the opportunity for advanced electives.

**TERM 1 – TOTAL CREDIT HOURS: 16-18**

|  | <u>Credits</u> | <u>Pre-Requisite/Co-Requisite</u>                | <u>Area</u>      | <u>Min Grade</u> | <u>Milestones and Notes</u> |
|--|----------------|--|------------------|------------------|-----------------------------|
| MATH 14B or above (except MATH122/123)   | 3              | None   | GE Math          | C                |                             |
| ENG 100 or 101 or 107 or 113             | 3-5            | ENG Place Score; or C or up in ENG 98 or ESL 139 | GE ENG Comp      | C                |                             |
| WELD 100B Introduction to Welding        | 4              | None   | Special Prog Req | C                |                             |
| WELD 115B Welding Insp and testing Princ | 3              | None   | Special Prog Req | C                |                             |
| WELD 135B GMAW (Mig)                     | 3              | None   | Special Prog Req | C                | Mandatory Advising Required |

**TERM 2 – TOTAL CREDIT HOURS: 17**

|   | <u>Credits</u> | <u>Pre-Requisite/Co-Requisite</u> | <u>Area</u>      | <u>Min Grade</u> | <u>Milestones and Notes</u> |
|---|----------------|-----------------------------------|------------------|------------------|-----------------------------|
| ALS 101 College Success                                     | 3              | None                              | GE Hum Rel       | C                |                             |
| MT 102B Fundamentals of Electricity                         | 4              | None                              | GE Nat Science   | C                |                             |
| WELD 131B BP Reading, Layout and Sketching                  | 3              | None                              | Special Prog Req | C                |                             |
| WWW 132B Oxy/Fuel, Plasma and Carbon Arc<br>Air Cutting Ops | 3              | None                              | Special Prog Req | C                |                             |
| WELD 133B SMAW (Stick)                                      | 4              | None                              | Special Prog Req | C                | Mandatory Advising Required |

**TERM 3 – TOTAL CREDIT HOURS: 14**

|  | <u>Credits</u> | <u>Pre-Requisite/Co-Requisite</u> | <u>Area</u>      | <u>Min Grade</u> | <u>Milestones and Notes</u> |
|--|----------------|-----------------------------------|------------------|------------------|-----------------------------|
| COM 115 Applied Communication          | 3              | None                              | GE Com           | C                |                             |
| WELD 134B GTAW (Tig)                   | 4              |                                   | Special Prog Req | C                |                             |
| WELD 154B D1.1 Structural Welding Code | 3              | WWT 115B                          | Special Prog Req | C                |                             |
| HIST 100 or PSC 101                    | 4              | None                              | GE US/NV Cons    | C                | Mandatory Advising Required |

**TERM 4 – TOTAL CREDIT HOURS: 13**

|  | <u>Credits</u> | <u>Pre-Requisite/Co-Requisite</u>   | <u>Area</u>      | <u>Min Grade</u> | <u>Milestones and Notes</u> |
|--|----------------|-------------------------------------|------------------|------------------|-----------------------------|
| ART 107 Design Fundamentals I            | 3              | None                                | GE FA/Hum/SS     | C                |                             |
| WELD 137B FCAW (Flux Core)               | 3              | None                                | Special Prog Req | C                |                             |
| WELD 214B Fabrication Layout             | 3              | WELD 131B and WELD 132B and WEL133B | Special Prog Req | C                |                             |
| Weld Elective – See an advisor/counselor | 4              | Depends on course chosen            | SP WELD Elective | C                | Apply for Graduation        |

