[Welding Technology](https://bluegrass.kctcs.edu/education-training/program-finder/welding-technology.aspx)

Associate in Applied Science

Coordinator: Shawn Gannon (shawn.gannon@kctcs.edu) 859-246-6777

Student Name: Student ID:

*Students must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.*

Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| WLD 110 Cutting Processes ORWLD 100 Oxy-fuel Cutting Systems | 2 |  |  | WLD 110 Coreq: WLD111 WLD 100 Coreq: WLD101 |  |
| WLD 111 Cutting Processes ORWLD 101 Oxy-fuel Cutting Systems Lab | 2 |  |  | WLD 111 Coreq: WLD110 WLD101 Coreq: WLD100 |  |
| WLD 120 Shielded Metal Arc Welding | 2 |  |  | WLD 120 Coreq: WLD121 AND WLD 123 |  |
| WLD 121 Shielded Metal Arc Weld Fillet Lab | 3 |  |  |  |  |
| WLD 123 Shield Metal Groove/Backing Lab | 3 |  |  |  |  |
| MAT 116 Technical Mathematics ORMAT 110 Applied Mathematics ORMAT 146 Contemporary Mathematics ORMAT 150 College Algebra | 3 |  |  |  |  |
| Total Semester Credit Hours | 15 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| WLD 130 Gas Tungsten Arc Welding | 2 |  |  | WLD 130 Coreq: WLD 131 AND WLD 133 |  |
| WLD 131 Gas Tungsten Arc Weld Fillet Lab | 3 |  |  |  |  |
| WLD 133 Gas Tung. Arc Weld Groove Lab | 3 |  |  |  |  |
| WLD 170 Blueprint Reading for Welding | 2 |  |  | WLD 170 Coreq: WLD171 |  |
| WLD 171 Blueprint Reading for Welding Lab | 3 |  |  |  |  |
| Computer / Digital Literacy | 0 – 3 |  |  |  | See note |
| Total Semester Credit Hours | 13 – 16 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
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| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| WLD 140 Gas Metal Arc Welding | 2 |  |  | WLD 140 Coreq: WLD 141 AND WLD 143 |  |
| WLD 141 Gas Metal Arc Welding Fillet Lab | 3 |  |  |  |  |
| WLD 143 Gas Metal Arc Welding Groove Lab | 3 |  |  |  |  |
| WLD 220 Welding Certification | 2 |  |  |  |  |
| WLD 221 Welding Certification Lab | 3 |  |  |  |  |
| WLD 298 Welding Practicum ORWLD 299 Cooperative Education Program | 1 – 4 |  |  | Consent of Instructor |  |
| Technical Elective | 3 |  |  |  | See list |
| Total Semester Credit Hours | 17 – 20 |  |  |  |  |

Semester 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ENG 101 Writing I | 3 |  |  |  |  |
| Heritage or Humanities course | 3 |  |  |  |  |
| Natural Sciences course | 3 |  |  |  |  |
| PSY 110 General Psychology ORSOC 101 Introduction to Sociology | 3 |  |  |  |  |
| COM 181 Basic Public Speaking ORCOM 252 Intro. to Interpersonal Comm. | 3 |  |  |  |  |
| Total Semester Credit Hours | 15 |  |  |  |  |
| Total Degree Credit Hours | 60 – 66 |  |  |  |  |

**Graduation Requirements:**

* 25% or more of Total Degree Credit Hours must be earned at BCTC.
* Cumulative GPA must be 2.0 or higher.

Advisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Advisor Contact \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Additional Information**

Computer / Digital Literacy requirements can be satisfied by completion of one of the following courses: CAD 103, CIT 105, DLC 100, EDU 204, IMD 100, OST 105, VCC 125 or VCC 150, or by competency exam.

**Technical Elective Courses**

|  |  |  |
| --- | --- | --- |
| Course | Cr. Hrs. | Prerequisites |
| WLD 145 Gas Metal Arc Welding Aluminum Lab | 1 | WLD 140 |
| WLD 147 Flux Cored Arc Welding Lab | 1 | WLD 140 |
| WLD 151 Basic Welding A | 2 | WLD 140 |
| WLD 161 Submerged Arc Welding Lab | 1 | WLD 140 |
| WLD 229 Shielded Metal Arc Welding Pipe Lab B | 3 | WLD 225 |
| WLD 239 Orbital Tube Welding | 1 | WLD 130 and WLD 131 |
| WLD 251 Welding Automation Lab | 1 – 6 | Coreq: WLD 140 and WLD 141 |
| WLD 253 Pipe Fitting and Template Development Lab | 1 |  |
| WPP 200 Workplace Principles | 3 |  |
| BEX 100 Basic Electricity for Non-Majors | 3 | Coreq: BEX 101 |
| BEX 101 Basic Electricity Lab for Non-Majors | 2 | Coreq: BEX 100 |
| \*This list is not all inclusive. Other courses may be approved at the discretion of the Welding Program Coordinator. | 1 – 3 |  |

**Embedded Credentials**

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| --- | --- | --- | --- |
| Credential | Title | Requirements | Total Cr. Hours |
| Diploma | Combination Welder | ENG 101, MAT 110 or MAT 116 or MAT 150, Computer/Digital Literacy, WLD 100, WLD 101, WLD 120, WLD 121, WLD 123, WLD 130, WLD 131, WLD 133, WLD 140, WLD 141, WLD 143, WLD 170, WLD 171, WLD 220, WLD 221, WLD 298, WLD 299, Technical Elective | 42 |
| Certificate | ARC Cutter | WLD 110, WLD 111 | 5 |
| Certificate | ARC Welder | WLD 100, WLD 101, WLD 120, WLD 121, WLD 130, WLD 131, WLD 140, WLD 141, WLD 170, WLD 171 | 24 |
| Certificate | AWS National Skills Standards Level I | WLD 100, WLD 101, WLD 120, WLD 121, WLD 123, WLD 130, WLD 131, WLD 133, WLD 140, WLD 141, WLD 143, WLD 170, WLD 171 | 33 |
| Certificate | Gas Metal Arc Welder  | WLD 100, WLD 101, WLD 140, WLD 141, WLD 143, WLD 170, WLD 171 | 17 |
| Certificate | Gas Tungsten Arc Welder | WLD 100, WLD 101, WLD 130, WLD 131, WLD 133, WLD 170, WLD 171 | 17 |
| Certificate | Gas Welder | WLD 100, WLD 101 | 4 |
| Certificate | Production Line Welder | WLD 100, WLD 101, WLD 120, WLD 121, WLD 130, WLD 131, WLD 140, WLD 141 | 19 |
| Certificate | Shielded Metal Arc Welder | WLD 100, WLD 101, WLD 120, WLD 121, WLD 123, WLD 170, WLD 171 | 17 |
| Certificate | Tack Welder | WLD 151, WLD 170, WLD 171 | 7 |
| Certificate | Welder Helper | WLD 120, WLD 121 | 5 |

**Diploma Requirements:**

* 25% or more of Total Diploma Credit Hours must be earned at BCTC.
* Cumulative GPA must be 2.0 or higher.

**Certificate Requirements:**

* 25% or more of Total Certificate Credit Hours must be earned at BCTC.
* Grade of C or higher in each course required for certificate.

*Reviewed by: Shawn Gannon Effective Term: Fall 2021*

 *Review Date: 03-10-2021*