WELDING AAS (98-101 CREDITS)

BTC Addendum 2024-25 Catalog – Adding COLL 101 as a general education requirement

For students beginning Winter, Spring or Summer 2025:

- **COLL 101 College Success (5 Credits)**

must replace one of the general education required courses in either the ***Communications Distribution*** or the ***Humanities Distribution***.
COLL 101 must be taken in the student's first or second quarter of the program.

NOTE: This requirement does not apply to students who prior to starting the program have already completed the Communications or Human Relations course (@ Bates or Transfer) or have successfully completed at least one quarter of college at Bates or another institution.

CIP Code

48.0508

Plan Code: WETWEAPT

- 6 quarter AAS
- Maximum class size: 18
- Student to teacher ratio: 18:1
- Enrollment point: Fall, Winter, Spring, Summer
- This program offers online, hybrid, web-enhanced, and face-to-face courses. Please see course descriptions for more information.
- Students in this program will use welding machines for most processes. They will also learn to use ventilation, air compressors, welding booths, oxy/fuel torches, plasma tables, track burning ops, and forklift operation.
- Both day and evening courses are offered as well as various welding certificates.
- Students will be responsible for purchasing their own welding hood, leather boots, leather jacket, leather gloves. For complete list, see instructors.

General Education Requirements (15 credits)

5 credits from the Communications Distribution

5 credits from the Quantitative Distribution

5 credits from the Sciences and Humanities Distribution

Note: See a Career Advisor prior to choosing courses that meet general education requirements.

Required Courses

Quarter 1

WELD 101	Safety Principles	2
WELD 104	Oxyacetylene Cutting	3
WELD 105	Introduction to Shielded Metal Arc Welding	5
WELD 117	Welding Symbols	5

Quarter 2

WELD 201	Introduction to Gas Tungsten Arc Welding	5
WELD 202	Gas Tungsten Arc Welding - Full Penetration	5
WELD 203	Gas Tungsten Arc Welding - Aluminum	5
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 3 - Choose a Certificate Option

Quarter 3 - SMAW Certificate Option

WELD 108	Full Penetration Welds - Flat/Horizontal	5
WELD 109	Full Penetration Welds - Vertical/Overhead	5
WELD 110	Full Penetration Welds - Open Root	5
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 3 - Wire Certification Option

WELD 111	Introduction to Gas Metal Arc Welding	3

WELD 112	Gas Metal Arc Welding - Full Penetration	4
WELD 113	Gas Metal Arc Welding - Aluminum	5
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 4

WELD 114	Introduction to Flux Core Arc Welding	4
WELD 115	Flux Core Arc Welding - Full Penetration	5
WELD 207	Welding Certification Testing - Flux Core	5
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 5

WELD 205	Advanced Welding Applications - Pipe/SMAW	5
WELD 206	Advanced Welding Applications - Pipe/GTAW	5
WELD 210	Advanced Welding Applications - Project	5

Quarter 6

WELD 204	Welding Certification Testing - SMAW	5
WELD 208	Non-destructive Testing	2
WELD 295	Independent Projects	5

TOTAL CREDIT HOURS: 98-101

WELDING CERTIFICATE OF COMPETENCY (98-101 CREDITS)

For students beginning Winter, Spring or Summer 2025:

- **COLL 101 College Success (5 Credits)**

must replace one of the general education required courses in either the ***Communications Distribution*** or the ***Humanities Distribution***.
COLL 101 must be taken in the student's first or second quarter of the program.

NOTE: This requirement does not apply to students who prior to starting the program have already completed the Communications or Human Relations course (@ Bates or Transfer) or have successfully completed at least one quarter of college at Bates or another institution.

CIP Code

48.0508

Plan Code: WETWEC90

- 6 quarter CoC
- Maximum class size: 18
- Student to teacher ratio: 18:1
- Enrollment point: Fall, Winter, Spring, Summer
- This program offers online, hybrid, web-enhanced, and face-to-face courses. Please see course descriptions for more information.
- Students in this program will use welding machines for most processes. They will also learn to use ventilation, air compressors, welding booths, oxy/fuel torches, plasma tables, track burning ops, and forklift operation.
- Both day and evening courses are offered as well as various welding certificates.
- Students will be responsible for purchasing their own welding hood, leather boots, leather jacket, leather gloves. For complete list, see instructors.

General Education Requirements (15 credits)

5 credits from the Communications Distribution

5 credits from the Quantitative Distribution

5 credits from the Sciences and Humanities Distribution

Note: See a Career Advisor prior to choosing courses that meet general education requirements.

Required Courses

Quarter 1

WELD 101	Safety Principles	2
	Oxyacetylene Cutting	3
	Introduction to Shielded Metal Arc Welding	5
	Welding Symbols	5

Quarter 2

WELD 201	Introduction to Gas Tungsten Arc Welding	5
WELD 202	Gas Tungsten Arc Welding - Full Penetration	5
WELD 203	Gas Tungsten Arc Welding - Aluminum	5
GENED	*Communications or Quantitative or Sciences-Humanities*	

Quarter 3 - Choose a Certificate Option

Quarter 3 - SMAW Certificate Option

WELD 108	Full Penetration Welds - Flat/Horizontal	5
WELD 109	Full Penetration Welds - Vertical/Overhead	5
WELD 110	Full Penetration Welds - Open Root	5
GENED	*Communications or Quantitative or Sciences-Humanities*	

Quarter 3 - Wire Certificate Option

WELD 111	Introduction to Gas Metal Arc Welding	3

WELD 112	Gas Metal Arc Welding - Full Penetration	4
WELD 113	Gas Metal Arc Welding - Aluminum	5
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 4

WELD 114	Introduction to Flux Core Arc Welding	4
WELD 115	Flux Core Arc Welding - Full Penetration	5
WELD 207	Welding Certification Testing - Flux Core	5
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 5

WELD 205	Advanced Welding Applications - Pipe/SMAW	5
WELD 206	Advanced Welding Applications - Pipe/GTAW	5
WELD 210	Advanced Welding Applications - Project	5

Quarter 6

WELD 204	Welding Certification Testing - SMAW	5
WELD 208	Non-destructive Testing	2
WELD 295	Independent Projects	5

TOTAL CREDIT HOURS: 98-101