Welding, A.A.S.

25-26 catalog

Full-time with summer course schedule

Description: This program provides the background, skills, knowledge, understanding and techniques needed to produce quality weldments. Students gain knowledge of various materials and an understanding of the effects that heat and stress have on welded materials. Students should develop sufficient skills for American Welding Society Certification.

Completion Time: 2 Years

This is suggested course sequencing. Please see a counselor or advisor for individual adjustments.

Year 1

Fall Semester

❑ **College Success**	GNST 100	*3 Cr.*
❑ **Freshman English I**	ENGL 100	*3 Cr.*
❑ **Industrial Applied Algebra**	INDS 122	*2 Cr.*
❑ **Fundamentals of Welding**	WELD 101	*3 Cr.*
❑ **Choose 1**		
MIG Welding	WELD 105	*3 Cr.*
TIG Welding	WELD 106	*3 Cr.*

Spring Semester

❑ **Mathematics Requirement**		*4 Cr.*
❑ **Industrial Documentation & Management**	TDSN 107	*4 Cr.*
❑ **Choose 1**		
MIG Welding	WELD 105	*3 Cr.*
TIG Welding	WELD 106	*3 Cr.*
❑ **Welding Fabrication & Design**	WELD 265	*3 Cr.*

Summer Session

❑ **Humanities Requirement**		*3-4 Cr.*
❑ **Choose 1**		
American Political System	POLI 240	*3 Cr.*
United States History to 1865 (Even year)	HIST 250	*3 Cr.*
United States History Since 1865 (Odd year)	HIST 251	*3 Cr*

Year 2

Fall Semester

❑ **Electrical Circuit Analysis**	ATMN 110	*3 Cr.*
❑ **Choose 1**		
Survey of General Chemistry	CHEM 105	*4 Cr.*
College Physics I	PHYS 230	*3 Cr.*
❑ **Test Plate Welding**	WELD 255	*3 Cr.*
❑ **Basic Machine Operations**	INDS 129	*4 Cr.*

Spring Semester

❑ **Communication Requirement**		*3 Cr.*
❑ **Metallurgy & Heat Treatment**	INDS 130	*2 Cr.*
❑ **Welding Automation**	WELD 275	*3 Cr.*
❑ **Pipe Welding**	WELD 285	*3 Cr.*
❑ **Elective(s)** in ATMN, INDS, TDSN or WELD as needed to get to 60 credit hours		

Total Minimum Credits: 61

Academic Advising: You should meet with an academic counselor prior to registering for classes.

Note: Prerequisite courses may apply to this program. A minimum of 60 unduplicated credits (100 level or higher) are required for all associate degree programs.

Welding, A.A.S.

25-26 catalog

Full-time course schedule

Description: This program provides the background, skills, knowledge, understanding and techniques needed to produce quality weldments. Students gain knowledge of various materials and an understanding of the effects that heat and stress have on welded materials. Students should develop sufficient skills for American Welding Society Certification.

Completion Time: 2 Years

This is suggested course sequencing. Please see a counselor or advisor for individual adjustments.

Year 1

Fall Semester

❑ **College Success**	GNST 100	*3 Cr.*
❑ ***Freshman English I***	ENGL 100	*3 Cr.*
❑ **Industrial Applied Algebra**	INDS 122	*2 Cr.*
❑ **Fundamentals of Welding**	WELD 101	*3 Cr.*
❑ **Choose 1**		
MIG Welding	WELD 105	*3 Cr.*
TIG Welding	WELD 106	*3 Cr.*

Spring Semester

❑ **Electrical Circuit Analysis**	ATMN 110	*3 Cr.*
❑ ***Mathematics Requirement***		*4 Cr.*
❑ **Industrial Documentation & Management**	TDSN 107	*4 Cr.*
❑ **Choose 1**		
MIG Welding	WELD 105	*3 Cr.*
TIG Welding	WELD 106	*3 Cr.*
❑ **Welding Fabrication & Design**	WELD 265	*3 Cr.*

Year 2

Fall Semester

❑ **Choose 1**		
Survey of General Chemistry	CHEM 105	*4 Cr.*
College Physics I	PHYS 230	*3 Cr.*
❑ **Humanities Requirement**		*3-4 Cr.*
❑ **Basic Machine Operations**	INDS 129	*4 Cr.*
❑ **Choose 1**		
American Political System	POLI 240	*3 Cr.*
United States History to 1865	HIST 250	*3 Cr.*
United States History Since 1865	HIST 251	*3 Cr*
if student wants HIST251, swap with communication requirement		
❑ **Test Plate Welding**	WELD 255	*3 Cr.*

Spring Semester

❑ ***Communication Requirement***		*3 Cr.*
❑ **Metallurgy & Heat Treatment**	INDS 130	*2 Cr.*
❑ **Welding Automation**	WELD 275	*3 Cr.*
❑ **Pipe Welding**	WELD 285	*3 Cr.*
❑ **Elective(s)** in ATMN, INDS, TDSN or WELD as needed to get to 60 credit hours		

Courses in italics may be taken in the summer term.

Total Minimum Credits: 61

Academic Advising: You should meet with an academic counselor prior to registering for classes.

Note: Prerequisite courses may apply to this program. A minimum of 60 unduplicated credits (100 level or higher) are required for all associate degree programs.

Welding, A.A.S.

25-26 catalog

Half-time course schedule

Description: This program provides the background, skills, knowledge, understanding and techniques needed to produce quality weldments. Students gain knowledge of various materials and an understanding of the effects that heat and stress have on welded materials. Students should develop sufficient skills for American Welding Society Certification.

Completion Time: 5 Years

This is suggested course sequencing. Please see a counselor or advisor for individual adjustments.

Year 1

Fall Semester

❑ **Success Skills for the 21st Century**	GNST 100	*3 Cr.*
❑ ***Freshman English I***	ENGL 100	*3 Cr.*

Spring Semester

❑ **Fundamentals of Welding**	WELD 101	*3 Cr.*
❑ **Choose 1**		
MIG Welding	WELD 105	*3 Cr.*
TIG Welding	WELD 106	*3 Cr.*

Year 2

Fall Semester

❑ **Choose 1**		
MIG Welding	WELD 105	*3 Cr.*
TIG Welding	WELD 106	*3 Cr.*
❑ **Test Plate Welding**	WELD 255	*3 Cr.*

Spring Semester

❑ **Welding Fabrication & Design**	WELD 265	*3 Cr.*
❑ ***Mathematics Requirement***		*4 Cr.*

Year 3

Fall Semester

❑ **Industrial Applied Algebra**	INDS 122	*2 Cr.*
❑ **Industrial Documentation & Management**	TDSN 107	*4 Cr.*

Spring Semester

❑ **Welding Automation**	WELD 275	*3 Cr.*
❑ **Pipe Welding**	WELD 285	*3 Cr.*

Year 4

Fall Semester

❑ **Choose 1**		
Survey of General Chemistry	CHEM 105	*4 Cr.*
College Physics I	PHYS 230	*3 Cr.*
❑ **Basic Machine Operations**	INDS 129	*4 Cr.*

Spring Semester

❑ **Electrical Circuit Analysis**	ATMN 110	*3 Cr.*
❑ **Metallurgy & Heat Treatment**	INDS 130	*2 Cr.*

Year 5

Fall Semester

❑ **Choose 1**		
American Political System	POLI 240	*3 Cr.*
United States History to 1865	HIST 250	*3 Cr.*
United States History Since 1865	HIST 251	*3 Cr*
❑ **Humanities Requirement**		*3-4 Cr.*

Spring Semester

❑ **Elective(s)** in ATMN, INDS, TDSN or WELD as needed to get to 60 credit hours

❑ ***Communication Requirement*** *3 Cr.*

Academic Advising: You should meet with an academic counselor prior to registering for classes.

Note: Prerequisite courses may apply to this program. A minimum of 60 unduplicated credits (100 level or higher) are required for all associate degree programs.

Courses in italics may be taken in the summer term.

Total Minimum Credits: 60

Welding, A.A.S.

25-26 catalog

Full-time spring start course schedule

Description: This program provides the background, skills, knowledge, understanding and techniques needed to produce quality weldments. Students gain knowledge of various materials and an understanding of the effects that heat and stress have on welded materials. Students should develop sufficient skills for American Welding Society Certification.

Completion Time: 2 Years

This is suggested course sequencing. Please see a counselor or advisor for individual adjustments.

Year 1

Spring Semester

❑ **College Success**	GNST 100	*3 Cr.*
❑ **Freshman English I**	ENGL 100	*3 Cr.*
❑ **Fundamentals of Welding**	WELD 101	*3 Cr.*
❑ **Humanities Requirement**		*3-4 Cr.*

Fall Semester

❑ **Industrial Applied Algebra**	INDS 122	*2 Cr.*
❑ **Choose 1**		
MIG Welding	WELD 105	*3 Cr.*
TIG Welding	WELD 106	*3 Cr.*
❑ **Mathematics Requirement**		*4 Cr.*

Year 2

Spring Semester

❑ **Industrial Documentation & Management**	TDSN 107	*4 Cr.*
❑ **Test Plate Welding**	WELD 255	*3 Cr.*
❑ **Welding Fabrication & Design**	WELD 265	*3 Cr.*
❑ **Choose 1**		
American Political System	POLI 240	*3 Cr.*
United States History Since 1865 (Odd year)	HIST 251	*3 Cr*

(if you want HIST 250 swap with mathematics requirement)

Fall Semester

❑ **Electrical Circuit Analysis**	ATMN 110	*3 Cr.*
❑ **Choose 1**		
Survey of General Chemistry	CHEM 105	*4 Cr.*
College Physics I	PHYS 230	*3 Cr.*
❑ **Basic Machine Operations**	INDS 129	*4 Cr.*

Year 3

Spring Session

❑ **Communication Requirement**		*3 Cr.*
❑ **Metallurgy & Heat Treatment**	INDS 130	*2 Cr.*
❑ **Welding Automation**	WELD 275	*3 Cr.*
❑ **Pipe Welding**	WELD 285	*3 Cr.*
❑ **Elective(s)** in ATMN, INDS, TDSN or WELD as needed to get to 60 credit hours		

Total Minimum Credits: 61

Academic Advising: You should meet with an academic counselor prior to registering for classes.

Note: Prerequisite courses may apply to this program. A minimum of 60 unduplicated credits (100 level or higher) are required for all associate degree programs.