

Skilled Trades-Maintenance Mechanic, A.A.S.

26-27 catalog

Full-time

Description: This program trains students in basic industrial maintenance. Coursework focuses on electronics, PLCs, and machine operation.

Completion Time: 2 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.
☐ Electrical Circuit Analysis	ATMN 110	3 Cr.
☐ Introduction to Windows	CMIS 102	1 Cr.
☐ Freshman English I	ENGL 100	3 Cr.
☐ Industrial Applied Algebra	INDS 122	2 Cr.

Spring Semester

☐ Industrial Motors and Controls	ATMN 140	4 Cr.
☐ Industrial Applied Geometry	INDS 124	2 Cr.
☐ Industrial Documentation & Measurement	TDSN 107	4 Cr.
☐ Electives in ATMN, INDS, TDSN, or WELD		3-4 Cr.

Summer Session

☐ Choose 1		
Computer Literacy	CMIS 101	3 Cr.
Introduction to Computer Information Systems	CMIS 115	3 Cr.
☐ Oral Communication Requirement		3 Cr.

Year 2

Fall Semester

☐ Industrial Control Systems-Allen Bradley	ATMN 160	4 Cr.
☐ Basic Machine Operations	INDS 129	4 Cr.
☐ Industrial First Aid	INDS 156	0.5 Cr.
☐ Industrial Safety	INDS 157	1 Cr.
☐ <i>Mathematics Requirement</i>		4 Cr.

Spring Semester

☐ Metallurgy & Heat Treatment	INDS 130	2 Cr.
☐ Choose One		
Pneumatics	INDS 106	3 Cr.
Hydraulics	INDS 107	3 Cr.
☐ Choose 1		
Survey of General Chemistry	CHEM 105	4 Cr.
Physical Science	PHYS 101	4 Cr.
College Physics I	PHYS 230	4 Cr.
☐ Electives in ATMN, INDS, TDSN, or WELD		3-4 Cr.

Summer Session

☐ <i>Humanities Requirement</i>		3-4 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.

Courses in italics may be taken in the summer term.

Total Minimum Credits: 62.5

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 certificate programs.

Skilled Trades-Maintenance Mechanic, A.A.S.

26-27 catalog

Part-time

Description: This program trains students in basic industrial maintenance. Coursework focuses on electronics, PLCs, and machine operation.

Completion Time: 4.5 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.
☐ Electrical Circuit Analysis	ATMN 110	3 Cr.
☐ Industrial Applied Algebra	INDS 122	2 Cr.

Spring Semester

☐ Industrial Motors and Controls	ATMN 140	4 Cr.
☐ Industrial Applied Geometry	INDS 124	2 Cr.

Year 2

Fall Semester

☐ Industrial Control Systems-Allen Bradley	ATMN 160	4 Cr.
☐ Freshman English I	ENGL 100	3 Cr.

Spring Semester

☐ Metallurgy & Heat Treatment	INDS 130	2 Cr.
☐ Industrial Documentation & Measurement	TDSN 107	4 Cr.

Year 3

Fall Semester

☐ Basic Machine Operations	INDS 129	4 Cr.
☐ Choose One		
Pneumatics	INDS 106	3 Cr.
Hydraulics	INDS 107	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 certificate programs.

Year 3

Spring Semester

☐ Introduction to Windows	CMIS 102	1 Cr.
☐ Industrial First Aid	INDS 156	0.5 Cr.
☐ Industrial Safety	INDS 157	1 Cr.
☐ <i>Mathematics Requirement</i>		4 Cr.

Year 4

Fall Semester

☐ <i>Humanities Requirement</i>		3-4 Cr.
☐ Choose 1		
American Political System	POLI 240	3 Cr.
United States History to 1865	HIST 250	3 Cr.
Electives in ATMN, INDS, TDSN, or WELD		3-4 Cr.

Spring Semester

☐ Choose 1		
Survey of General Chemistry	CHEM 105	4 Cr.
Physical Science	PHYS 101	4 Cr.
College Physics I	PHYS 230	4 Cr.
☐ Choose 1		
United States History Since 1865	HIST 251	3 Cr.
Electives in ATMN, INDS, TDSN, or WELD		3-4 Cr.

*One Social Science class (POLI 240, HIST 250, HIST 251) must be taken

Year 5

Fall Semester

☐ Choose 1		
Computer Literacy	CMIS 101	3 Cr.
Introduction to Computer Information Systems	CMIS 115	3 Cr.
☐ <i>Oral Communication Requirement</i>		3 Cr.
☐ Electives in ATMN, INDS, TDSN, or WELD		3-4 Cr.

Courses in italics may be taken in the summer term.

Total Minimum Credits: 62.5

Skilled Trades-Maintenance Mechanic, A.A.S.

26-27 catalog

Full-time spring start

Description: This program trains students in basic industrial maintenance. Coursework focuses on electronics, PLCs, and machine operation.

Completion Time: 2 Years

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

Year 1

Spring Semester

☐ Success Skills for the 21st Century	GNST 100	3 Cr.
☐ Electrical Circuit Analysis	ATMN 110	3 Cr.
☐ Industrial Documentation & Measurement	TDSN 107	4 Cr.
☐ <i>Mathematics Requirement</i>		4 Cr.

Summer Session

☐ Freshman English I	ENGL 100	3 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.

Fall Semester

☐ Industrial Motors and Controls	ATMN 140	4 Cr.
☐ Introduction to Windows	CMIS 102	1 Cr.
☐ Industrial Applied Algebra	INDS 122	2 Cr.
☐ Industrial First Aid	INDS 156	0.5 Cr.
☐ Industrial Safety	INDS 157	1 Cr.
☐ Basic Machine Operations	INDS 129	4 Cr.

Year 2

Spring Semester

☐ Industrial Control Systems-Allen Bradley	ATMN 160	4 Cr.
☐ Industrial Applied Geometry	INDS 124	2 Cr.
☐ Metallurgy & Heat Treatment	INDS 130	2 Cr.
☐ Laboratory Science Requirement		4 Cr.

Summer Session

☐ Choose 1		
Computer Literacy	CMIS 101	3 Cr.
Introduction to Computer Information Systems	CMIS 115	3 Cr.
☐ Oral Communications Requirement		3 Cr.

Fall Semester

☐ Choose One		
Pneumatics	INDS 106	3 Cr.
Hydraulics	INDS 107	3 Cr.
☐ <i>Humanities Requirement</i>		3-4 Cr.
☐ Electives in ATMN, INDS, TDSN, or WELD		3-4 Cr.
☐ Electives in ATMN, INDS, TDSN, or WELD		3-4 Cr.

Courses in italics may be taken in the summer term.

Total Minimum Credits: 62.5

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 certificate programs.