

RELIABILITY AND MAINTENANCE TECHNOLOGY, A.A.S.

The Associate of Applied Science in Reliability and Maintenance Technology prepares graduates for maintenance and repair positions in today's modern industrial facilities. Courses include preventative maintenance, welding, and troubleshooting concepts that integrate practical application and knowledge of hydraulic and mechanical systems.

Milestone Course

These courses are the keys to graduation and certification. Courses should be taken in the recommended semesters.

Career Planning

Plant maintenance jobs

Field and shop welder

Pipefitter

Millwrights

Industrial maintenance technician

These positions can range from \$15.74-\$26.15 per hour.

Capstone Course

The capstone is a semester long project that must be taken in the graduation semester. A "C" or better must be earned.

Students should average 15 credit hours per semester, or 30 per year, to graduate on time.

Total Degree Credits: 60

Course	Title	Hours
Semester 1		
COLL 101	ORIENTATION TO COLLEGE ¹	1
ELEC 101	ELECTRICITY & ELECTRONICS FUND	3
IM 101	INDUSTRIAL MAINTENANCE 1	3
IM 102	INDUSTRIAL MAINTENANCE 2	3
IM 103	INDUSTRIAL MAINTENANCE 3	3
Quantitative Reasoning (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#qr) Math 125 or Higher		3-4
MATH 125	TECHNICAL MATHEMATICS	
MATH 126	~COLLEGE ALGEBRA	
MATH 128	~COLLEGE TRIGONOMETRY	
Hours		16-17
Semester 2		
MTEC 102	INTRODUCTORY CRAFT SKILLS	2
IM 201	INDUSTRIAL MAINTENANCE 4	3
IM 202	INDUSTRIAL MAINTENANCE 5	3
IM 203	INDUSTRIAL MAINTENANCE 6	3
WELD 171	WELDING THEORY	1
Writing and Rhetoric (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#wr) (ENGL 107 Preferred)		3
Hours		15
Semester 3		
WELD 111	BASIC OXYACETYLENE WELDING	3
WELD 121	BASIC SHIELDED METAL ARC(SMAW)	3
PHYS 101	~INTRO TO PHYSICS 1	4
MTEC 103	INTRO TO MAINTENANCE TECH	3
Select one of the following:		3
Aesthetics, Creativity, and Appreciation (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca)		
People and Their Worlds (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#ptw)		
Human Communication and Interaction (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#hci)		
Hours		16
Semester 4		
Select one of the following:		3

Aesthetics, Creativity, and Appreciation (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca)		
Human Communication and Interaction (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#hci)		
People and Their Worlds (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#ptw)		
WELD 221	ADV SHIELDED METAL ARC (SMAW)	3
WELD 291	FABRICATION SHOP	3
WELD 261	STEEL FABRICATION	3
MTEC 280	CAPSTONE COURSE ²	1
Hours		13
Total Hours		60-61

¹ Institutional graduation requirement

² Capstone course; grade of C or better must be earned.

Degree requires a total of 60 credit hours. [Core Course Credit Hours : 17]

Code	Title	Hours
Core Courses		
COLL 101	ORIENTATION TO COLLEGE ¹	1
Writing and Rhetoric (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#wr)		3
Quantitative Reasoning		3
MATH 125	TECHNICAL MATHEMATICS (or higher)	
Scientific Inquiry		4
PHYS 101	~INTRO TO PHYSICS 1	
Select two of the following:		6
Aesthetics, Creativity, and Appreciation (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca)		
Human Communication and Interaction (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#hci)		
People and Their Worlds (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#ptw)		
Program Courses		
IM 101	INDUSTRIAL MAINTENANCE 1	3
IM 102	INDUSTRIAL MAINTENANCE 2	3
IM 103	INDUSTRIAL MAINTENANCE 3	3
MTEC 102	INTRODUCTORY CRAFT SKILLS	2
MTEC 103	INTRO TO MAINTENANCE TECH	3
IM 201	INDUSTRIAL MAINTENANCE 4	3
IM 202	INDUSTRIAL MAINTENANCE 5	3
IM 203	INDUSTRIAL MAINTENANCE 6	3
WELD 111	BASIC OXYACETYLENE WELDING	3
WELD 121	BASIC SHIELDED METAL ARC(SMAW)	3
WELD 171	WELDING THEORY	1
WELD 261	STEEL FABRICATION	3
WELD 221	ADV SHIELDED METAL ARC (SMAW)	3
WELD 291	FABRICATION SHOP	3
ELEC 101	ELECTRICITY & ELECTRONICS FUND	3
MTEC 280	CAPSTONE COURSE ²	1
Total Hours		60

¹ Institutional Graduation Requirement.

² Capstone course; grade of C or better must be earned.