

MAINTENANCE TECHNOLOGY (AAS)

Manufacturing and Construction

Program website (<https://www.harpercollege.edu/academics/manufacturing/maintenance/maintenance-technology-degree.php>)

Program Overview

This 60 credit-hour program prepares students for employment in the fast growing industrial maintenance service sector of urban society. Graduates may be employed directly in building maintenance as directors, managers or operators for industrial and commercial properties.

Program Requirements

All MNT courses are offered in an 8-week scheduling format.

First Semester		Hours
MFT 102	Introduction to Manufacturing and Safety	4
MFT 134	Print Reading for Industry	3
MNT 135	Plumbing Systems Maintenance	3
MTH 100	Applied Math for Technical Careers ¹	3
WLD 110	Welding I	3
Hours		16
Second Semester		Hours
ELT 143	Commercial Wiring	2
ENG 101	Composition I	3
MFT 109	Introduction to Manufacturing Maintenance	2
MNT 228	Small Equipment Maintenance	2
WLD 210	Welding II	3
Hours		12
Third Semester		Hours
AAS General Education elective(s) (https://catalog.harpercollege.edu/catalog/programs/aas-general-education-electives/) ²		3
HVA 101	Refrigeration Fundamentals	3
MFT 105	Machining Processes I	3
MFT 120	Machining Processes II	3
MNT 235	Maintenance Troubleshooting Skills	3
Hours		15
Fourth Semester		Hours
MNT 255	Belts/Bearings and Mechanical Drives	2
PSC 270	Global Politics ⁺	3
SPE 101	Fundamentals of Speech Communication	3
Technical electives ³		9
Hours		17
Total Hours		60

¹ Students may take MTH 100, MTH 101, MTH 103 or higher.

² See full list of AAS General Education Electives (<https://catalog.harpercollege.edu/catalog/programs/aas-general-education-electives/>).

⁺ This course meets the World Cultures and Diversity graduation requirement.

³ Technical electives: Select courses not listed as required that have one of the following prefixes: ELT, MFT, MNT, SCM or WLD

Program Learning Outcomes

- Operate common hand tools, electrical test equipment and power tools used in the maintenance trade in a safe and efficient manner.
- Troubleshoot basic maintenance issues involving plumbing, carpentry, electrical wiring and heating, ventilation and air conditioning (HVAC).
- Read and interpret basic blueprints, shop drawings and electrical schematics.
- Have knowledge and skills to safely perform basic welding repairs.
- Have basic understanding of belts, bearings and mechanical drives.
- Have basic mathematic skills to be able to measure, calculate and estimate needed supplies and costs.
- Have basic computer skills needed for communication and record keeping.