

Maintenance Technology



HEARTLAND
COMMUNITY COLLEGE

Associate in Applied Science 63-64 Semester Hours

General Education Requirements

COMM 101	Introduction to Oral Communication	3 hrs.
ENGL 101	Composition I	3
MATH 109	College Algebra for Math & Science	4
Or		
TMAT 103	Technical Mathematics I	4
MATH 128	Trigonometry	3
Or		
TMAT 105	Technical Mathematics II	4
Physical Science		4
Social Science/Humanities Elective		<u>3</u>
TOTAL		20-21

Technical Core Requirements

CAD 101	Introduction to AutoCAD	3
CSCI 101	Intro to Computer Information Science	4
MAIN 101	Industrial Electricity & Systems	3
MFTG 110	Manufacturing Processes	3
TECH 114	Intro to Technical Graphics	<u>3</u>
TOTAL		16

Technical Electives

Specialty Electives** (See option areas below)
TOTAL 27-28

Industrial Maintenance Option

MAIN 102	Mechanical Systems	3
MAIN 202	Fluid Power Systems	3
MAIN 220	Machine Installation & Maintenance	3
MAIN 222	Industrial Controllers	3
MTT 101	Machine Tool I	4
MTT 201	Machine Tool II	3
WELD 110	Maintenance Welding	3
Electives**		<u>6</u>
TOTAL		28

Electrical Maintenance Option

ELTC 102	DC Electronics	3
ELTC 103	AC Electronics	3
ELTC 206	Digital Electronics & Microprocessors	3
ELTC 207	Solid State Electronics Troubleshooting and Measurements	3
ELTC 212	Automation and Control Electronics	3
ELTC 220	Data Communications	3
MAIN 201	Electrical Wiring & Maintenance	3
MAIN 222	Industrial Controllers	3
Elective**		<u>3</u>
TOTAL		27

Facilities Maintenance Option

CNST 101	Construction Materials & Methods	3
CNST 103	Building Mechanical & Electrical Systems	3
CNST 113	Construction Documents & Quantity Takeoff	3
MAIN 104	Air Conditioning & Refrigeration	3
MAIN 221	Heating Systems	3
REEC 110	Green Building Technology	3
Electives**		<u>9</u>
TOTAL		27

Note:

Students are encouraged to pursue a certificate program in conjunction with the A.A.S. degree. Other electives may be taken as approved by an advisor or the department.

Program Description & Career Opportunities

The Maintenance Technology Associate in Applied Science Degree is a two-year program designed to prepare graduates for a position in industrial and facility maintenance or management. This program includes introductions to industrial electricity and wiring, mechanical applications, welding, hydraulic and pneumatic equipment, and heating and air conditioning systems.



** Electives as approved by advisor or department