

## MAINTENANCE TECHNOLOGY

### Associate in Applied Science Degree

*Students can prepare for employment in the fast growing building maintenance service sector of urban society. Graduates of this 65 credit-hour program may be employed directly in building maintenance as directors, managers or operators for industrial and commercial properties. Other graduates may find employment as assistants in residential properties managed through associations including assisted living housing for the elderly.*

#### Required General Education Courses:

Communications elective .....	6
Humanities elective <sup>♦</sup> .....	3
MTH 060 <sup>1</sup> Foundations of Mathematics I .....	4
Natural Science or Social Science <sup>♦</sup> electives .....	6

#### Required Core Courses:

CIS 100	Computer Fundamentals .....	3
ELT 142	Electrical Writing.....	2
FLS 122	Introduction to Fire Prevention Principles .....	3
MGT 160	Principles of Supervision .....	3
MNT 110	Basic Welding .....	3
MNT 111	Prints and Schematics.....	2
MNT 115	Basic Carpentry .....	2
MNT 125	Basic Plumbing.....	2
MNT 215	Commercial Carpentry .....	2
MNT 225	Commercial Plumbing .....	2
MNT 235	Maintenance Troubleshooting Skills .....	3
MNT 245	Force and Motion Basics.....	2
MNT 255	Belts/Bearings and Mechanical Drives .....	2
RAC 101	Refrigeration Fundamentals.....	4

#### Electives: Select 11 credit hours from the following courses:

ACC 099	Business Recordkeeping .....	3
ATE 210	Cost Estimating .....	3
ATE 213	Construction Management Process.....	3
BCE 104	Basic Mechanical and Energy Conservation Codes...	3
ELT 143	Advanced Electrical Wiring.....	2
ELT 144	AC and DC Motors .....	2
ELT 145	Variable Frequency Drives.....	2
MNT 105	Machining Processes I .....	3
MNT 120	Machining Processes II .....	3
MNT 210	Advanced Welding .....	3
PKM 140	Grounds Equipment and Shop Operation.....	4
RAC 103	Heating Principles.....	4
RAC 104	Residential Comfort Systems.....	4

<sup>1</sup> A competency test, available in the Assessment and Testing Center, may be utilized to meet the mathematics requirement.

<sup>♦</sup> Students need to choose a course to meet the Humanities or Social Science requirement that also meets the World Cultures and Diversity graduation requirement.

### Basic Maintenance Certificate

*This 16 credit-hour certificate program provides the basic knowledge and skill for entry-level jobs in building and residential maintenance.*

#### Electives: Select 16 credit hours from the following courses:

CIS 100	Computer Fundamentals.....	3
ELT 142	Electrical Wiring .....	2
MNT 110	Basic Welding .....	3
MNT 111	Prints and Schematics.....	2
MNT 115	Basic Carpentry .....	2
MNT 125	Basic Plumbing.....	2
PKM 140	Grounds Equipment and Shop Operations.....	4
RAC 101	Refrigeration Fundamentals.....	4

## MAINTENANCE TECHNOLOGY

### Commercial Maintenance Certificate

*This 16 credit-hour certificate program builds on the Basic Maintenance certificate to prepare students for more advanced maintenance jobs in commercial or industrial maintenance.*

**Electives:** Select 16 credit hours from the following courses:

BCE	104	Basic Mechanical and Energy Conservation Codes...	3
ELT	143	Advanced Electrical Wiring.....	2
ELT	144	AC and DC Motors .....	2
MNT	210	Advanced Welding .....	3
MNT	215	Commercial Carpentry .....	2
MNT	225	Commercial Plumbing .....	2
MNT	235	Maintenance Troubleshooting Skills .....	2
RAC	103	Heating Principles.....	4

### Supervisory Maintenance Technology Certificate

*This 16 credit-hour certificate program builds on the Basic Maintenance and Commercial Maintenance certificates to prepare students for supervisory positions in commercial, industrial or residential maintenance.*

**Electives:** Select 16 credit hours from the following courses:

ACC	099	Business Recordkeeping.....	3
ATE	210	Costing Estimating.....	3
ATE	213	Construction Management Process.....	3
ELT	140	Programmable Logic Controllers.....	2
FIS	122	Introduction to Fire Prevention Principles .....	3
MGT	160	Principles of Supervision .....	3
MNT	245	Force and Motion Basics .....	2
MNT	255	Belts/Bearings and Mechanical Drives .....	2
SPE	205	Group Discussion .....	3

## MAMMOGRAPHY\*

### Mammography Certificate\*

*This four credit-hour certificate program provides a study in the theory and practice of mammography technology. The mammogram is a non-invasive procedure that assists in the detection of breast cancer.*

*The individual who successfully completes this program will be eligible to sit for the Mammography Technologist Certification exam.*

#### Admission Requirements

*For admission requirements, please contact the Admissions Outreach Office at 847.925.6700 or check the following Web page: [harpercollege.edu/learning/healthcareers](http://harpercollege.edu/learning/healthcareers)*

*Students who apply for this limited enrollment program are obligated to meet current admission requirements and follow program curriculum as defined **at the time of acceptance to the program.***

#### Required:

MAM	206	Principles and Procedures in Mammography .....	3
MAM	207	Mammography Internship .....	1

\* Mammography is a limited enrollment program. See Limited Enrollment Programs section of this catalog for details. Requirements subject to change. Contact the Admissions Outreach Office for updated information.