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FACILITIES MAINTENANCE ENGINEER AAS (120-124 CREDITS)

CIP Code

46.0401

Plan Code: BCMFMAPT

Bates Technical College 2024-25 catalog Addendum specifying the number of credits required (10 crs.) if FACM 296 or 297 is selected - See quarter 6

- 6 quarter AAS
- Maximum class size: 18
- Student to teacher ratio: 18:1
- Enrollment point: Fall, Winter, Spring, Summer
- This program is primarily face-to-face with some hybrid, and web-enhanced courses. Please see course details for more information.

General Education Requirements

5 credits from the Communications Distribution

5 credits from the Quantitative Distribution

5 credits from the Sciences and Humanities Distribution

Note: See a Career Advisor prior to choosing courses that meet general education requirements.

Required Courses

Quarter 1

FACM 101	Safety Principles	2
FACM 102	Fundamentals of Electricity	3
FACM 103	Electrical Service	4
FACM 104	Introduction to Blueprint Reading	5
FACM 105	Engineering Drawings	4
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 2

FACM 106	Introduction to Hydraulics/Pneumatics	5
FACM 107	Machine Components	5
FACM 108	Mechanical and Machine Maintenance	5
FACM 109	Tools and Equipment	3
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 3

FACM 111	Building Maintenance and Repair Methods	5
FACM 113	Introduction to Building Maintenance	3
FACM 121	Grounds Keeping	5
FACM 222	Introduction to Remodeling	4
GENED	*Communications or Quantitative or Sciences-Humanities*	*5*

Quarter 4

FACM 122	HVAC Systems	4
FACM 221	Small Business Planning	3
FACM 230	Computers in Industry	2
FACM 231	Computer Applications	4

*And choose **ONE** of these courses:*

FACM 112	*Basic Refrigeration*	*4*
FACM 292	*Independent Project I*	*5*
FACM 293	*Independent Project II*	*5*

Quarter 5

FACM 140	Boiler Operations and Certifications	12
FACM 144	Advanced Boiler Operations	5

Quarter 6

WBAS 101	Welding Basics	8

*And choose **ONE** of these courses:*

FACM 143	*Advanced Projects*	*10*
FACM 296	*Work-Based Learning Experience I (10 credits if selected)*	*1-13*
FACM 297	*Work-Based Learning Experience II (10 credits if selected)*	*1-13*

TOTAL CREDIT HOURS: 120-124