

BUILDING UTILITIES MECHANIC Associate in Applied Science Degree AAS Degree Path 2: Employment

I. RCTC MNTC..... 15 Credits

Twelve credits from any MNTC course(s) from the following goals:

Goal 1	Written and Oral Communication (CM)	3 cr (minimum)
Goal 3 OR 4	Mathematics (MA) or Natural Science (NS)	3 cr (minimum)
Goal 5	History and the Social and Behavioral Sciences (SS)	3 cr (minimum)
Goal 6	Humanities - the Arts, Literature and Philosophy (HA)	3 cr (minimum)
Three credits of any additional MNTC courses		3 cr

II. Professional or Technical Credits 54 Credits

<i>BUM I</i>	BU 1500	Power Plant Theory	3 cr
	BU 1510	Welding Theory	1 cr
	BU 1520	Welding Equipment Repair	3 cr
	BU 1530	Plumbing Theory	2 cr
	BU 1540	Power Plant Operation	4 cr
	BU 1550	Plumbing Lab	2 cr
	BU 1570	Basic Boiler Theory	1 cr
<i>BUM II</i>	BU 1611	Basic Electricity	1 cr
	BU 1621	Electrical Theory I	3 cr
	BU 1631	Electrical Lab I	3 cr
	BU 1641	Electrical Theory II	3 cr
	BU 1651	Electrical Lab II	4 cr
	BU 1661	National Electric Code and Safety	2 cr
<i>BUM III</i>	BU 2500	Refrigeration Theory	3 cr
	BU 2506	Refrigeration Lab	3 cr
	BU 2512	Commercial Refrigeration	3 cr
	BU 2518	Commercial Refrigeration Lab	2 cr
<i>BUM IV</i>	BU 2602	HVAC/Refrigeration Systems Theory	4 cr
	BU 2612	HVAC/Refrigeration Systems Lab	2 cr
	BU 2622	HVAC Control Systems Lab	2 cr
	BU 2632	HVAC Control Systems Theory	3 cr

TOTAL..... 69 Credits

Purpose: The Building Utilities Mechanic major is designed to prepare students for careers requiring skills in the operation, maintenance, troubleshooting, and repair of electrical and mechanical equipment found in commercial buildings. Instruction the first year includes courses in boiler operation, electricity, plumbing, tool usage, welding, electrical controls, and programmable controls. Courses in residential and commercial refrigeration, air conditioning, pneumatics, heating and cooling controls, and computerized energy management systems comprise the second year instruction. Graduates usually start at entry level positions in various maintenance operation areas in medical clinics, hospitals, waste to energy plants, power plants, hotels, educational, manufacturing, processing, and industrial facilities. Graduates have been employed as service technicians in the heating/ventilation/air conditioning (H.V.A.C.) field, building trades, and some are self-employed in the H.V.A.C. field. **NOTE: Students must test at Reading 0840 level before enrolling or obtain instructor permission.**

For more information call

Warren Beighley at (507) 280-3143 or E-Mail: Warren.Beighley@roch.edu

Dick Sargent at (507) 280-3126 or E-Mail: Dick.Sargent@roch.edu

Tom Soltau at (507) 280-3130 or E-mail: Thomas.Soltau@roch.edu

Rick Yankowiak at (507) 529-2705 or E-mail: Rick.Yankowiak@roch.edu

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