

**Energy Management Technician: Building Controls Technician Option-Online, AAS (2-year degree)**

**List of Core Classes**

Course #	Name	Credit	Course #	Name	Credit
BT 123	MS Excel	4	NRG 131	Lighting Fundamentals	3
CST 110	Blueprint Reading	4	NRG 142	Energy Accounting	3
NRG 101	Introduction to Energy Management	3	NRG 181	Direct Digital Controls 1	4
NRG 103	Sustainability in the Built Environment	3	NRG 182	Commercial HVAC Controls	4
NRG 111	Residential/Light Commercial Energy Analysis	3	NRG 183	Controls Retuning and Troubleshooting	4
NRG 112	Commercial Energy Use Analysis	3	NRG 184	Direct Digital Controls 2	4
NRG 121	Air Conditioning System Analysis	3	NRG 185	Lighting Controls	4
NRG 122	Commercial Air Conditioning System Analysis	3	CS 133JS or CS 133N or CS 275	Beginning Programming JavaScript or Beginning Programming or Basic Database SQL	4
NRG 123	Energy Control Strategies	4	CS 179	Introduction to Computer Networks	4
NRG 124	Energy Efficiency Methods	4	NRG 280	Co-op Ed: Energy Management	6
			General Education Requirements	General Education Courses will include Writing, Math, PE/Health, Physics and Human Relations See below for suggested schedule. <b>General Education Classes can be taken anytime during the program .^^</b>	26
<b>Total Credits Required for Program AAS Degree</b>					100-103

**Term by Term Planner**

*Please use the Term by Term Planner with your academic advisor to help you meet your degree goals in a timely manner*

FALL TERM 1st year	Credits	Fall Term 2nd Year	Credits
Course Name		Course Name	
BT 123 Microsoft Excel For Business	4	NRG 185 Lighting Controls	4
MTH 095 Intermediate Algebra^	5	NRG 122 Commercial Air Conditioning System Analysis	3
NRG 101 Introduction to Energy Management	3	NRG 123 Energy Control Strategies	4
CST 110 Blueprint Reading 1	3	WR 227 Technical Writing^^	4
PH 101 Fundamentals of Physics*	4		
<b>Total Credits</b>	<b>19</b>	<b>Total Credits</b>	<b>15</b>
WINTER TERM 1st Year		WINTER TERM 2nd Year	
Course Name		Course Name	
CS 133JS Beg. Programming: JavaScript	4	NRG 112 Commercial Energy Use Analysis	4
NRG 111 Residential/Light Commercial Energy Analysis	3	NRG 182 HVAC Controls	4
CS 179 Introduction to Computer Networks	4	NRG 181 Direct Digital Controls 1	4
PH 102 Fundamentals of Physics*	4	PE/Health Requirement ^^	3
		Human Relations Requirement^^	3
<b>Total Credits</b>	<b>15</b>	<b>Total Credits</b>	<b>18</b>
SPRING TERM 1st Year		SPRING TERM 2nd year	
Course Name		Course Name	
NRG 121 Air Conditioning System Analysis	3	NRG 184 Direct Digital Controls 2	4
NRG 124 Energy Efficiency Methods	4	NRG 183 Controls Retuning and Troubleshooting	4
NRG 131 Lighting Fundamentals	3	NRG 142 Energy Accounting	3
NRG 206 Co-op Ed: Internship Seminar (Online)	2		
NRG 103 Sustainability in The Built Environment	3		
<b>Total Credits</b>	<b>15</b>	<b>Total Credits</b>	<b>11</b>
Summer Term 1st Year		<b>^^May be taken any time within the first year</b>	
		<b>*Required Classes NOT AVAILABLE ONLINE</b>	

**Water and Energy Programs**  
Funded by the National Science Foundation



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Wr121 or WR 121\_H Academic Composition^^ 4  
NRG 280 Cooperative Education: Energy Management to be 6

**^^May be taken any time during the program**