

**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 111	Residential/Light Commercial Energy Analysis	3	NRG 182	Commercial HVAC Controls	4
NRG 112	Commercial Energy Use Analysis	3	NRG 183	Controls Retuning and Troubleshooting	4
NRG 121	Air Conditioning System Analysis	3	NRG 184	Direct Digital Controls 2	4
NRG 122	Commercial Air Conditioning System Analysis	3	NRG 185	Lighting Controls	4
NRG 123	Energy Control Strategies	4	CS161P	Introduction to basic syntax and semantics of Python. Online	4
NRG 124	Energy Efficiency Methods	4	CS 179	Introduction to Computer Networks	4
NRG 110	Energy Efficiency Industry Software Applications	4			34
Some Gen classes are not online and it may be necessary to take them at your local Community College.					
<b>Total Credits Required for Program AAS Degree</b>			General Education Requirements	General Education Courses will include Writing, Math, Physics and Human Relations See below for suggested schedule. <b>General Education Classes can be taken anytime during the program .^^</b>	24
					93

**Term by Term Planner**

**Please use the Term by Term Planner with your**

FALL TERM 1st year	Credits
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Course Name	Credits
BT 123 Microsoft Excel For Business	4
MTH 098 Math Literacy^	5
NRG 101 Introduction to Energy Management	3
CST 110 Blueprint Reading 1	3
PH 101 Fundamentals of Physics*	4
<b>Total Credits</b>	<b>19</b>

**WINTER TERM 1st Year**

Course Name	Credits
CS 161P Computer Science 1	4
NRG 111 Residential/Light Commercial Energy Analysis	3
PH 102 Fundamentals of Physics*	4
Wr121 or WR 121_H Academic Composition^^	4
<b>Total Credits</b>	<b>15</b>

**SPRING TERM 1st Year**

Course Name	Credits
NRG 121 Air Conditioning System Analysis	3
NRG 124 Energy Efficiency Methods	4
NRG 131 Lighting Fundamentals	3
CS 179 Introduction to Computer Networks	4
<b>Total Credits</b>	<b>14</b>

Fall Term 2nd Year	Credits
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Course Name	Credits
NRG 185 Lighting Controls	4
NRG 122 Commercial Air Conditioning System Analysis	3
NRG 123 Energy Control Strategies	4
WR 227 Technical Writing^^	4
<b>Total Credits</b>	<b>15</b>

**WINTER TERM 2nd Year**

Course Name	Credits
NRG 112 Commercial Energy Use Analysis	4
NRG 182 HVAC Controls	4
NRG 181 Direct Digital Controls 1	4
Human Relations Requirement	3
<b>Total Credits</b>	<b>15</b>

**SPRING TERM 2nd year**

Course Name	Credits
NRG 184 Direct Digital Controls 2	4
NRG 183 Controls Retuning and Troubleshooting	4
NRG 142 Energy Accounting	3
NRG 110 Energy Efficiency Industry Software Applications	4
<b>Total Credits</b>	<b>15</b>

^May be taken any time within the first year \*Required Classes NOT AVAILABLE ONLINE

^^May be taken any time during the program

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



<b>Catalog Link for Directed Electives and other important information</b>	<a href="https://catalog.lanecc.edu/preview_program.php?catoid=6&amp;poid=462&amp;returnto=207">https://catalog.lanecc.edu/preview_program.php?catoid=6&amp;poid=462&amp;returnto=207</a>
Website:	<a href="https://www.nweei.org/">https://www.nweei.org/</a>
Facebook:	<a href="https://www.facebook.com/pg/NWEEI.LCC/about/">https://www.facebook.com/pg/NWEEI.LCC/about/</a>
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