

Energy

Energy Management

STANTON CAMPUS

Fall 2020

Students will gain an understanding of energy systems in today's "built environment" and the tools to analyze and quantify energy efficiency. Students develop sophisticated skills in multi-level analysis, including human and computer modeling, to improve energy efficiency in commercial spaces. These skills are applied to the description and measurement of energy in building systems with the goal of evaluating and recommending energy solutions that will result in greater efficiency, energy cost savings, and lower environmental impact. This approach allows energy users to apply strategic efforts to reduce consumption analytically, as opposed to only replacing controls or undertaking expensive changes in equipment.

PROGRAM SPECIFIC ADVISEMENT STATEMENT

Courses - Semester 1

	Credits	Lecture	Lab
SSC 100 - First Year Seminar	1	1	0
NRG 101 - Intro to Energy Management	3	2	2
(MAT 153 - College Math and Statistics	4	4	0
OR MAT 261 - Business Calculus I)	4	4	0
DAT 101 - Intro to Data Analytics/Visual	3	2	3
PHY 120 - Energy Physics	3	3	1
ENG 101 - Crit Thinking & Acad Writing	3	3	0

Courses - Semester 2

	Credits	Lecture	Lab
NRG 126 - Fundamentals of HVAC systems	4	3	3
(EDD 131 - Engineering Graphics/CAD	3	2	4
OR AET 164 - Architectural CAD Applications)	3	2	2
ENG 102 - Composition and Research	3	3	0
NRG 111 - Res/Light Comm Energy Analysis	3	2	2
NRG 154 - Alternative Energy Tech.	3	2	2

Courses - Semester 3

	Credits	Lecture	Lab
NRG 226 - Bldg Mech/Elec Systms Analysis	4	3	2
NRG 233 - Lighting Applications	4	3	2
NRG 250 - Energy Accting/Invest Analysis	4	3	2
NRG 223 - Energy Control Strategies	3	2	2
NRG 108 - Safety Basics	1	1	1
ENG 122 - Technical Writing-Comm	3	3	0

Courses - Semester 4

	Credits	Lecture	Lab
NRG 214 - Capstone in Energy Use/Anal.	6	4	5
SOC 103 - Sustainability and Society	3	3	
(BUS 101 - Introduction to Business	3	3	0
OR ENT 101 - Intro to Entrepreneurship	3	3	0
OR LOM 230 - Project Management	3	2	2
OR CMT 242 - Constr Project Management I)	3	2	2
NRG 206 - Work Exp: Energy Mngmt	3	0	9

Approved Electives

Select one of the social science electives to take in the fourth semester.

Group	Courses	Credits	Lecture	Lab
A	COM 111 - Human Communications	3	3	0
A	PSY 100 - Human Relations	3	3	0
A	PSY 121 - General Psychology	3	3	0
A	ECO 111 - Macroeconomics	3	3	0
A	ECO 122 - Microeconomics	3	3	0

*To complete program requirements, you must pass the above courses and earn at least **70 credits**. The number of courses and credits required for graduation may be more depending on your need for developmental education courses and the elective choices you make (if electives are a part of the program). Some programs also have college-level courses that you must take if you do not score at a certain level on the College Placement Test. If this applies to your program, the courses are listed at the top of the sequence sheet before the first semester of the course list.*