The Energy Services and Technology program is a specialized building science technology program created to meet the needs of the real estate, property management, utility and energy services, construction, contracting, equipment operations and maintenance, and performance contracting industries. Technicians entering the field become members of a team working with supervision by more experienced technicians or engineering personnel. They can be found working in building management; engineering and construction companies; heating, ventilation, and air conditioning (HVAC) and utility companies; energy service companies (ESCOs); and building automation system suppliers such as Johnson Controls, Siemens, and Honeywell. They use and interpret information for building instrumentation and field assessment tools including temperature and pressure gauges, flow meters, BTU meters, electric meters and test equipment, building automation system logs, data loggers, infra-red cameras, air hoods, blower doors, tachometers, anemometers, light meters, combustion test kits and carbon monoxide monitors. They are also called upon to interpret energy bills, demand charges, and load profiles. The work environment requires technicians to be well trained in analytical and computer methods as applied to the operation of building systems and equipment, as well as to job safety, health and environment regulations. Please note that the program articulates with SUNY Empire State College. Please visit the Transfer Planning web site for more details.

Curriculum Coordinator: Dr. Akhil Lal

Energy Services and Technology Curriculum (Pathways)
60 Credits required for A.A.S. Degree

Required Core
A. English Composition
   • ENG 10 Fundamentals of Composition and Rhetoric OR ENG 11 Composition and Rhetoric I (3 Credits)
   • ENG 12 Composition and Rhetoric II (3 Credits)
B. Mathematical and Quantitative Reasoning
   • MTH 231 Probability and Statistics (3 Credits)
C. Life and Physical Sciences
   • PHY 11 College Physics I (4 Credits)

Flexible Core
A. World Cultures and Global Issues
   • HIS 10 History of the Modern World OR HIS 11 Introduction to the Modern World (3 Credits)

D. Individual and Society
   • COMM 11 Fundamentals of Interpersonal Communications (3 Credits)

E. Scientific World
   • ENV 11 Introduction to Environmental Health OR CHM 11 General College Chemistry I (4 Credits)

SUBTOTAL 23

Required Areas of Study
A. BUS 10 Introduction to Business OR BUS 51 Business Organization and Management (3 Credits)
   • COMM 12 Voice and Diction : Business and Professional Speech (2 Credits)
   • ECO 11 Microeconomics OR ECO 12 Macroeconomics (3 Credits)
   • ELC 11 DC Circuit Analysis (4 Credits)
   • ELC 15 Computer Applications in Technology (2 Credits)
   • MTH 131 Trigonometry and College Algebra (3 Credits)
   • RESTRICTED ELECTIVE 2 (1 Credit)

SUBTOTAL 18

Specialization Requirements
A. EST 11 Introduction to Energy Technology (2 Credits)
   • EST 15 Energy Economics (3 Credits)
   • EST 21 Energy Analysis of Mechanical and Electrical Equipment (2 Credits)
   • EST 31 Building Systems I (3 Credits)
   • EST 32 Building Systems II (3 Credits)
   • EST 41 Principles of Energy Management I (3 Credits)
   • EST 42 Principles of Energy Management II (3 Credits)

SUBTOTAL 19

1 Students planning on transferring to a four-year program may substitute MTH 30 and MTH 31 for MTH 13 and MTH 23.
2 Choose from ART 10, MUS 10, any PEA one credit course, CPR 10, or WFA 10.