

Energy Systems Technology – Associate in Applied Science (EGYT.AAS)

The Energy Systems Technology - Associate in Applied Science program prepares students for careers as technicians within the energy industry. This 60-credit degree will provide students with the diverse skill set necessary to work competently within the various sectors of the industry: energy production, energy transmission and energy distribution. Students will achieve a certification in Energy Industry Fundamentals (Center for Energy Workforce Development). This program provides a foundation for the student to secure a career with a regulated provider of energy, or a non-regulated, public or private provider of energy (e.g., municipalities, heavy manufacturing, hospitals or college campuses).

Minimum credits: 60

Minimum cumulative GPA: 2.0

Minimum grade in all courses: 2.0

Minimum Jackson College credits: 15

GENERAL EDUCATION REQUIREMENTS (24 CREDITS)

GEO 1: Write clearly, concisely and intelligibly (6 credits)

Take the following:

ENG 131 Writing Experience I
ENG 232 Technical and Business Writing

GEO 2: Recognize the importance of effective communication in a dynamic and changing society (3 credits)

Choose one of the following:

COM 231 Communication Fundamentals
COM 240 Interpersonal Communication
COM 250 Intercultural Communication
HIS 211 Minority Groups in America
HUM 131 Cultural Connections
PHL 243 Great World Religions
PLS 262 International Relations
PSY 152 Social Psychology (or SOC 152 Social Psychology)
SOC 246 Marriage & Family

GEO 3: Demonstrate computational skills and mathematical reasoning (4 credits)

Take the following:

MAT 130 Quantitative Reasoning (or higher)

GEO 4: Demonstrate scientific reasoning (4-5 credits)**

Choose one of the following:

- CEM 131 Fundamentals of Chemistry
- CEM 141 General Chemistry I

GEO 5: Understand human behavior and social systems, and the principles that govern them (4 credits)**

Take the following:

- PSY 130 General Psychology

GEO 6: Identify artistic, linguistic, and theoretical perspectives across the human experience (3 credits)**

Choose one of the following:

- ART 111 Art History: Prehistoric to 1400
- ART 112 Art History: Renaissance to Present
- MUS 131 Understanding Music
- THR 116 Introduction to Theatre

CERTIFIED PRODUCTION TECHNICIAN RELATED REQUIREMENTS (16 CREDITS)

Take the following:

- MFG 135 Industrial Safety
- MFG 136 Blueprint Reading and Precision Measurement
- MFG 137 Production Processes and Fabrication
- ELT 106 Basic Electricity and Fluid Systems
- CAD 152 SolidWorks I

ENERGY SYSTEMS TECHNOLOGY CORE REQUIREMENTS (15 CREDITS)

Take the following:

- ALT 200 Principles of Alternative Energy
- EGY 101 EIF Energy Industry Fundamentals
- EGY 220 Energy Industry Experience
- ELT 260 Basic Programmable Controllers
- STM 101 Introduction to Sustainability

Choose 9 credits from the following:

- CAD 151 AutoCAD I
- EGY 110 Climbing Clinic
- EGY 111 Climbing Orientation
- EGY 112 Climbing School

ADDITIONAL PROGRAM REQUIREMENTS

CPR Training/ Certification