

## 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 equity and inclusion in a diverse society (3 credits)\*\***

**Choose one of the following:**

HUM 131 Cultural Connections

#### **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 140 Introduction to 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

*\*\*We have listed the preferred course option(s) in this category, but other courses may be used to meet this requirement. Your student success navigator will assist you making the best course selection based on your schedule and interests. You can view the complete list of approved GEO courses in the [Jackson College Catalog](#) on pages 14-16.*