



## ENGINEERING TECHNOLOGY ASSOCIATE IN SCIENCE DEGREE PROGRAM DESCRIPTION

The Engineering Technology (ET) Associate in Science (A.S.) degree program at Eastern Florida State College (EFSC), prepares students for employment or provides additional training for persons employed in manufacturing and high technology industries. The 18 credit hour technical core of this degree is closely aligned with the national Manufacturing Skill Standards Council (MSSC) Certified Production Technician (CPT) industry certification, and endorsed by the National Association of Manufacturers (NAM). Students who have already earned the MSSC-CPT will receive 15 articulated credit hours towards the Engineering Technology degree. The Engineering Technology Associate in Science degree program is fully transferable to four year degree granting institutions.

### ENGINEERING TECHNOLOGY A.S. (60 Credits)

**EFSC ET DEGREE SPECIALIZATIONS:** Advanced Technology, Alternative Energy and Electronics, Mechanical Design & Fabrication.

#### **ET TECHNICAL CORE (18 credits)**

The ET core provides technical fundamentals for the ten specializations tracks of the ET Degree that supports many manufacturing and high technology industry sectors.

The ET technical core includes CAD, Electronics, Measurement, Manufacturing Processes, Quality and Safety.

### COLLEGE CREDIT CERTIFICATES

#### **ALTERNATIVE ENERGY SYSTEMS SPECIALIST (18 credits)**

This certificate program will prepare students to meet the industry-specific skills needed for technicians in the new and emerging alternative and renewable energy fields, including occupational titles such as Electrical Engineering Technician, Industrial Engineering Technician, Solar Photovoltaic Installer and Solar Power Plant Technician, Solar Thermal Installer and Technician, Energy Auditor, and Smart Grid Technician.

#### **APPLIED TECHNOLOGY SPECIALIST (16 credits)**

This certificate program will prepare the student for entry-level employment in electronic assembly field, or to provide supplemental training for individual previously or currently employed in the field.

#### **COMPOSITE FABRICATION AND TESTING (19 credits)**

This certificate program will prepare the student for entry-level employment in composite material fabrication, composite production or fiberglass lamination and fabrication, or to provide supplemental training for individuals previously or currently employed.

#### **COMPUTER NUMERICAL CONTROL (CNC) MACHINIST (12 credits)**

This certificate prepares students for engineering technology support positions dealing with facilities operations and maintenance in high technology production, manufacturing, distribution, engineering, and research and development facilities.

#### **ENGINEERING TECHNOLOGY SUPPORT SPECIALIST (20 credits)**

This certificate prepare students for entry-level employment with an occupational title such as Engineering Support Specialist or Engineering Specialist to support engineering design, manufacturing processes and production, test and/or maintain product quality, or to provide supplemental training for persons previously or currently employed in these occupational areas.



**ROBOTICS & SIMULATION TECHNICIAN (12 credits)**

This certificate prepares students to install, maintain and troubleshoot general robotic systems and simulations. The content also includes Program Logic Controller (PLC) programming and basic electronics competencies as identified by the electronics industry. Individuals are prepared in the areas of Robotic Applications, Modeling and Simulation, and Virtual Reality Environment. Graduates of this technical program will be prepared to enter advanced training and education in specialized Robotics and Simulation related fields.