
# ENGINEERING TECHNOLOGY ASSOCIATE IN SCIENCE DEGREE

## PROGRAM DESCRIPTION

The Engineering Technology (ET) Associate in Science (A.S.) degree program 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)

**ST. JOHNS RIVER STATE COLLEGE ET DEGREE SPECIALIZATIONS:** Advanced Manufacturing.

**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

**ENGINERING TECHNOLOGY SUPPORT SPECIALIST (18 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.

**MECHATRONICS (30 Credits)**

This program focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of the Engineering Technology: Maintenance Techniques, Computer Aided Drafting/Design Skills, Technical Communications, Maintenance and Operation of Various Industrial Components, Quality Control and Testing, Material Handling Protocols, and Proper Usage of Tools and Instrumentation.

**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.