ENGINEERING TECHNOLOGY ASSOCIATE IN SCIENCE DEGREE

PROGRAM DESCRIPTION

The Engineering Technology (ET) Associate in Science (A.S.) degree program at Palm Beach State College (PBSC), 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)

PBSC ET DEGREE SPECIALIZATIONS: Advanced Manufacturing, Advanced Technology, Alternative Energy and Electronics

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 ENGINEERING TECHNOLOGY (18 credits)

This certificate prepares students for careers in the growing "green" alternative energy industries. This program offers a sequence of courses that provides coherent and rigorous content and relevant technical knowledge and skills needed to prepare for further education and careers in the growing alternative energy career cluster; and includes competency-based applied learning that contributes to the general employability skills, technical skills, and knowledge of all aspects of alternative energy careers.

AUTOMATION (15 Credits)

This certificate prepares students for engineering technology support positions dealing with PLCs, automation, and control systems in high tech production, manufacturing, distribution, and engineering research and development facilities. It is designed for the student who is seeking entry into the field of engineering technology with a focus on automation in manufacturing. It is also designed for employees in this field who seek further education and career advancement.

ENGINEERING TECHNOLOGY SUPPORT SPECIALIST (18 credits)

The Engineering Technology Support Specialist certificate prepares individuals for entry-level employment as engineering support specialists or engineering technicians in various engineering and manufacturing areas. This certificate program is the core of the Engineering Technology degree program. Credits earned toward this certificate can be applied toward the A.S. in Engineering Technology degree.

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.

LEAN MANUFACTURING (12 credits)

This certificate prepares students for engineering technology support positions dealing with quality systems and their implementation in high technology production, manufacturing, distribution, engineering, and research and development facilities.

RAPID PROTOTYPING SPECIALIST (12 credits)

This certificate prepares students for entry-level technical jobs in high tech production, manufacturing, distribution and engineering research and development facilities. The certificate is designed for the student who is preparing for a career in the engineering technology or high-tech manufacturing fields. It is also designed for employees in these fields who seek further education and career advancements.