




MECHATRONICS (ESET)

ESET graduates function in multidisciplinary teams to design, install, maintain, and repair systems, components, or processes that meet specific needs for engineering applications. They serve as a link between engineers and technicians in the workplace and play a key role in the conception of electronic systems all the way through implementation. They are involved in the development, testing, production, and quality assurance of electronic and mechanical components and/or systems.

The curriculum provides ESET graduates with the education and foundation needed for employment in a variety of industries in the private and public sector, including the computer industry, homeland security, automation and manufacturing, and education.

ESET graduates are employed in a wide spectrum of positions, such as engineering consultant, electrical engineering or computer engineering technologist, product engineer, or project manager.

Through ECPI University's year-round schedule, you could earn a Bachelor of Science Degree in Electronic Systems Engineering Technology with a concentration in Mechatronics in as little as 2.5 years.



Outcomes

Students in the B.S. Electronic Systems Engineering Technology, ESET program learn to design and integrate electronic systems through a strong foundation in analog and digital electronics. They are able to apply the acquired engineering and mathematical principles to implement and improve systems and/or processes for engineering applications.

Upon Completion of the Bachelor of Science in Electronic Systems Engineering Technology, ESET, Graduates Will Have:

- ▶ An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve broadly defined engineering problems appropriate to the discipline
- ▶ An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes
- ▶ An ability to function effectively as a member or leader on a technical team
- ▶ An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline
- ▶ An ability to apply written, oral, and graphical communication in both defined technical and non-technical environments; and an ability to identify and use appropriate technical literature

MECHATRONICS CONCENTRATION:

- ▶ Students enrolled in the Mechatronics concentration will apply acquired knowledge to design and repair mechanical, electronic, and control systems

Possible Career Track

Job titles for these positions include:

- ▶ Engineering Consultant
- ▶ Electrical/Computer Engineering Technologist
- ▶ Industrial Engineer
- ▶ Product Engineer
- ▶ Project Manager



Engineering
 Technology
 Accreditation
 Commission

The Bachelor of Science in Electronic Systems Engineering Technology at the Virginia Beach campus and Online is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET, <https://www.abet.org>, under the General Criteria and the Electrical/Electronic(s) Engineering Technology and Similarly Named Programs Program Criteria.