



MECHATRONICS (ESET)

ESET graduates function in multidisciplinary teams to design, install, maintain, and repair systems, components, or processes meeting specific needs for engineering applications. They serve as a link between engineers and technicians in the workplace where they play a key role from the conception of electronic systems until their 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.

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

Through ECPI University's year-round schedule, you can earn a Bachelor of Science Degree in Electronic Systems Engineering Technology with a concentration in Mechatronics in just 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
- ▶ Industrial Technician
- ▶ Field Service Technician
- ▶ Computer Engineering Technician
- ▶ Electronics Engineering Technician