MECHATRONICS TECHNOLOGY, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

Program Description

Mechatronics is an interdisciplinary technical discipline that combines mechanical, electrical, electronics, control and computer engineering technology. The field deals with the design, development, control, and application of advanced electro-mechanical systems. Such systems will include sensors, actuators, microprocessors, controllers, software, computer, and mechanical hardware components. The purpose of the mechatronics technology minor is to provide undergraduate students an opportunity to take relevant courses that will sequentially build on their knowledge and understanding of mechatronic systems and to provide recognition to those who do so.

What is Mechatronics Technology?

Mechatronics Technology is a multidisciplinary field of engineering and technology that includes a combination of mechanical, electronics, computer, systems, and controls technology, and focuses on real-world application of these areas. The field deals with the design, development, control, and application of advanced electro-mechanical systems. Such systems will include sensors, actuators, microprocessors, controllers, software, computer, and mechanical hardware components. The applications of mechatronics technology include medical, defense, manufacturing, robotics, automotive, and distributed systems and smart consumer products. Mechatronics engineers and technologists develop new solutions to industrial problems using mechanical and electronic systems and computer technology in addition to designing and building completely new products by integrating various technologies. They may also develop and test factory production lines by integrating automation to improve existing process.

You Might Like This Program If...

- · You like hands-on and creative problem-solving.
- · You like understanding how robotics or automation work.
- You are interested in working with technology as it relates to manufacturing and systems engineering You work well within collaborative, multidisciplinary teams.
- You are interested in a career as a hands-on technologist or test engineer.
- You are interested in the synergy of electrical, computer and mechanical systems.