Electronics Technology

The philosophy of the Allan Hancock College's Electronics Program is to offer our students detailed instruction emphasizing hands-on training using today's modern laboratory instrumentation. We supply the necessary educational knowledge required for success in challenging and rewarding fields, such as mechatronics, computer maintenance, network administration, telecommunications, industrial control, and instrumentation. Several of these technologies require industry certifications, and the training you will receive at Allan Hancock College will fully prepare you to meet and exceed industry standards of certification. In order to provide more flexibility, many of our courses are offered via the Internet to support our students who have busy schedules.

If you are curious about how things work, enjoy operating, maintaining and installing electrical equipment and thrive on using your analytical skills, electronics may be right for you. From circuits to microprocessors, you'll learn the basics in a broad range of applicable skills to set you on your path to a successful career in electronics.

For more information:
Electronics Technology is one of the career technical education programs at Allan Hancock College within the department of Industrial Technology. It resides in the Engineering Design industry sector.

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Allan Hancock College is a California public community college in northern Santa Barbara County serving more than 11,000 credit students each semester. The college offers degrees and certificates in more than 100 fields of study from accounting to welding. The college has a campus in Santa Maria and centers in Lompoc, Solvang, and at Vandenberg AFB.

- Associate in Science Degree in options
  - Electronics Technology
  - Electronic Engineering Technology
  - Network Maintenance and Digital Technologies
  - Mechatronics
- Certificate of Achievement options
  - Digital Systems Technician
  - Network Maintenance and Digital Technologies
  - Electronic Training
  - Mechatronics
Electronics Technology

We envision a 21st century electronic technician to be a versatile person equipped with technical competence, resourcefulness, and broad teamwork skills. We believe the extensive training provided at Allan Hancock College will give our students a decisive edge in today's demanding job markets.

Our program's curricula are specifically designed to enable you to tailor an area of study and your individual needs by selecting specialized courses or degree program options. We can help with career goals, whether interested in acquiring an A.S. degree, a certificate, industry certifications, or updating job related skills. Our program was the first at Hancock College to offer online course work options.

Facilities and equipment:
The program has two laboratories each equipped with 24 student stations and modern technological instrumentation. One lab also includes 3 large networking pods including complete wireless and fiber optic construction sets. The second lab includes two automated control-manufacturing pods and special computer-aided-instruction hardware. Students in our program are eligible for free software from Microsoft and Cisco Systems corporations.

Employment Opportunities:
Earning an Associate in Science degree or certificate in electronics technology from Allan Hancock College will provide you with the skills necessary to pursue a successful career in electronics in a wide variety of industries such as:
- Aerospace & Aviation
- Banking
- Robotics in Police/Sheriff Depts
- Wine & Bottling
- Gaming
- Medical and/or Bioscience
- Automotive and/or Heavy Equipment
- Manufacturing and Logging
- Ski Industry
- Semiconductor Fabrication
- Petroleum and Renewable Energy
- State & Federal Traffic Control Agencies
- Computer Technology
- Network Maintenance
- Alternative Energy

Depending on your emphasis, employees in electronics occupations can make an average annual salary of $49,200 according to the Bureau of Labor Statistics. Pay increases with experience and higher education.

Electronics Technology (A.S.) & Digital Systems Technician (Certificate of Achievement)
This associate in science degree/certificate option provides you with the basic knowledge and skills required for a wide variety of occupations in the field of electronics. This degree will also allow you to transfer into an engineering technology baccalaureate program. You will gain fundamental mastery of the use of electronic equipment in electrical, digital, and analog circuits; use computer simulation and design software to conduct, analyze and interpret electrical, digital, and analog circuits. Several class projects involve designing, building and evaluating electronic equipment.

Network Maintenance and Digital Technologies (A.S. & Certificate of Achievement)
Upon graduation with an associate in science degree or certificate option in network maintenance and digital technologies our students will have demonstrated understanding of how computers communicate with each other and the methods employed to ensure that the communication is reliable. We offer students a comprehensive program in networking essentials, basic electronics, and computer applications.

Electronic Engineering Technology (A.S.)
An associate in science degree in electronic engineering technology provides the lower division course requirements leading to a baccalaureate degree in engineering technology. Choosing this option will give you skills in the use of electronic equipment in electrical, digital and analog circuits. You will use computer simulation and design software to conduct, analyze and interpret electrical, digital, and analog circuits. Towards the completion of your degree requirements you will demonstrate learned skills with a capstone project requiring you to design, build, and evaluate a piece of electronic equipment.

Electronic Training (Certificate of Achievement)
The electronic training certificate option provides you with the basic knowledge and skills required for entry-level employment in a range of career occupations. As a part of your curriculum you will have the opportunity to build and analyze a modern computer system using subsystems.

Mechatronics (A.S. & Certificate of Achievement)
An associate in science degree or certificate in mechatronics gives you a comprehensive foundation in the software, electronics, and mechanics of technologies used in automation (process control), robotics, and machine design and maintenance. Mechatronics lets you build and manipulate things, combining the best parts of mechanical engineering, electronics, controls engineering and computers. It emphasizes links between machine and computer, using software to guide a physical system like a robot.