

Internship Field Experience

Students may earn college units while gaining hands-on experience working in local businesses and corporations. Contact the electronics faculty member, Bob Alldredge, at (805) 922-6966, ext 3201 or boball@hancockcollege.edu.



Photo Courtesy: WG Harrinstein

Who to Contact:

Robert (Bob) Alldredge

Mathematical Sciences Department

Phone: (805) 922-6966,

or toll-free 1-866 DIAL AHC (342-5242), ext 3201

(From Santa Barbara and San Luis Obispo counties)

Fax: (805) 922-4916 • boball@hancockcollege.edu

National Science Foundation



Funded in part through

National Science Foundation Award No. 0202398.

Visit the SpaceTEC™ website at www.spacetek.org

The Allan Hancock College electronics laboratories are funded in part by the NASA Curriculum Improvement Partnership Award and NSF SpaceTec grants.



Allan Hancock College is a California public community college in northern Santa Barbara County serving more than 12,000 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.

800 South College Drive
Santa Maria, CA 93454-6399
(805) 922-6966

www.hancockcollege.edu



The Allan Hancock Joint Community College District is committed to the active promotion of diversity and equal access and opportunities to all staff, students and applicants, including qualified members of underrepresented/protected groups. The college assures that no person shall be discriminated against regardless of race, color, ancestry, religion, gender, national origin, age, physical/mental disability, medical condition, status as a Vietnam-era veteran, marital status or sexual orientation.

Allan Hancock College will provide, upon request, alternate translation of its general information documents in large print, Braille, e-text, etc. Please call (805) 922-6966 ext 3788.



Photo Courtesy: AFSCC

Launch your
high tech career in



Electronics Technology:

SPACE OPERATIONS

- Associate in Science Degree (60 units)
- Certificate of Completion (39 units)



Electronics Technology – Space Operations

Would you like to be part of the national aerospace program?

Would you like to work locally at Vandenberg AFB, or possibly the Kennedy Space Center in Florida or other parts of the country supporting our national aerospace program as a technician or engineer?

Would you like to be employed in one of the highest paid fields in technology coming out at the community college level, earning between \$16 and \$35 an hour? *

Then Allan Hancock College's Electronics Technology – Space Operations A.S. degree or certificate program may be right for you!

* According to the Bureau of Labor Statistics at www.bls.gov, the national mean (or average) hourly wage for aerospace engineering and operations technicians is \$25.47, and the national mean annual wage is \$52,970. Sources: US Department of Labor Bureau of Labor Statistics. "Occupational Employment and Wages, November 2003" Thompson, Grant. "Antelope Valley College Electronics Technology Program Needs Assessment Report," November 2004.

Who can benefit from this degree and certificate program?

The associate in science degree/certificate is designed for students preparing for or advancing in careers in electronics, robotics, and electrical engineering specializing in the field of aerospace engineering and operations technology.

What do aerospace engineering and operations technicians do?

Aerospace engineering and operations technicians are part of a highly skilled, technical team that supports equipment and systems designed to launch, track, position, and evaluate air and space vehicles. They operate, install, calibrate, and maintain integrated computer/communications systems consoles, simulators, and other instruments designed to acquire data, test, and measure.

Employment opportunities include, but are not limited to:

- Aerospace product and parts manufacturing
- Air transportation support activities
- Architectural and engineering services
- Communications equipment manufacturing
- Electronic instrument manufacturing
- Facilities support services
- Scientific research and development services



Program Requirements

Completion of 39 units from the following courses is required for the associate in science (A.S.) degree and certificate program. The A.S. degree will be awarded when a minimum of 60 units have been satisfactorily completed, including required general education courses defined in the Graduation Requirements section of the Allan Hancock College catalog.

Required Courses:		Unit(s)
EL 118	Fundamentals of DC and AC Circuit Analysis <i>OR</i>	3
EL 111	Fundamentals of DC Circuit Analysis <i>AND</i>	1.5
EL 113	Fundamentals of AC Circuit Analysis	1.5
EL 119	Fundamentals of DC and AC Circuit Analysis Lab <i>OR</i>	2
EL 112	Fundamentals of DC Circuit Analysis Lab <i>AND</i>	1
EL 114	Fundamentals of AC Circuit Analysis Lab	1
EL 122	Electronic Devices and Circuits	3
EL 123	Electronic Devices and Circuits Lab	2
EL 125	Digital Devices and Circuits <i>OR</i>	3
Com Sc 141	Digital Computer Fundamentals	3
EL 126	Digital Devices and Circuits Lab <i>OR</i>	2
Com Sc 142	Digital Logic and Switching Circuits Lab	2
EL 130	Electronic Troubleshooting	4
EL/Com Sc 137	Microcomputer Architecture & Software Design	4
EL 146	Electronic Product Design, Fabrication & Documentation <i>OR</i>	2
ET 100	Computer Aided Drafting and Design	3
EL/Com Sc 148	Mechatronic Systems	4
Space 102	Introduction to Space	3
Space 104	Quality Management Control and Safety	3
Space 128	Materials and Processes	3
GIS 111	Global Positioning Systems (GPS)	1