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.

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 because of race, color, ancestry, religion, gender, national origin, age, physical/mental disability, medical condition, status as a veteran or veteran’s family member, sexual orientation, or sexual harassment.

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.

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

Engineering Technology

As you begin your engineering technology education at Allan Hancock College you are opening the door to many exciting careers. Each career in turn has many different opportunities within it. Whether your interest lies in theoretical problem solving, artistic creation, working with your hands or creating something practical, a degree in engineering technology will help you satisfy that interest. With your engineering technology degree you can pursue a career as a draftsman, designer, engineer, manufacturing engineer, mechanical engineer, electrical engineer or electronic engineer, among many other options. Graduating with a degree or certificate in engineering technology from Allan Hancock College will put you well on your way to a successful career in the engineering and design industry.

Equipment and Facilities:

Our facilities include a fully-equipped Computer Aided Design and Drafting (CADD) lab with up-to-date hardware and software, a state-of-the-art 3D printer, a 42” wide plotter for larger CADD prints and, three laser printers and copier.

Employment Opportunities:

Earning an associate in science degree or a certificate in engineering technology or a certificate of accomplishment in engineering drafting from Allan Hancock College will provide you with the skills necessary to pursue a successful career in entry level positions such as:

• Engineering assistant
• Engineering technician
• Engineering drafter (architectural, structural, aeronautical, civil, mechanical, sheet metal, electrical, electronic)

According to the Bureau of Labor Statistics, electrical and electronic engineering technicians held 33 percent of the 497,300 jobs industry wide and earned a median annual wage $53,240 in May 2008.

Engineering Technology

The engineering technology program at Allan Hancock College will prepare you for transfer to a four-year college or for employment as a draftsman or technician to support engineering or drafting offices. Engineering drafters create technical drawings and plans including architectural, structural, aeronautical, civil, mechanical, electronic, sheet metal, electrical and electronic. Potential drafting areas include aeronautical, architectural, automotive, civil, electrical, electronic, illustrative, mapping, mechanical, piping, structural and sheet metal. In addition, several major industries require engineering technologists including mining, petroleum, manufacturing, transportation, communications, and public utilities.

The associate degree and certificate options in engineering include engineering, civil, mechatronics or engineering drafting. Each emphasis focuses specifically on providing a solid background in the mechanics of each technology. Depending on which option you choose will become skilled in the technologies of automation, robotics, machine design, CADD operations, civil engineering, surveying and more.

For more information

Engineering technology is one of the career technical education programs at Allan Hancock College within the department of Industrial Technology. It resides in the Engineering and Design industry sector.

Saad Sadig, instructor/coordinator
Phone: 805.922.6966 ext. 3488
ssadig@hancockcollege.edu

Or visit our website at
www.hancockcollege.edu/cte

Career Technical Education (CTE)

Engineering Technology

Associate in Science degree in Engineering Technology options

• Engineering Technology
• Civil
• Mechatronics

Certificate of Achievement in Engineering Technology with emphasis in Mechatronics

Certificate of Accomplishment in Engineering Drafting

As you begin your engineering technology education at Allan Hancock College you are opening the door to many exciting careers. Each career in turn has many different opportunities within it. Whether your interest lies in theoretical problem solving, artistic creation, working with your hands or creating something practical, a degree in engineering technology will help you satisfy that interest. With your engineering technology degree you can pursue a career as a draftsman, designer, engineer, manufacturing engineer, mechanical engineer, electrical engineer or electronic engineer, among many other options. Graduating with a degree or certificate in engineering technology from Allan Hancock College will put you well on your way to a successful career in the engineering and design industry.

Equipment and Facilities:

Our facilities include a fully-equipped Computer Aided Design and Drafting (CADD) lab with up-to-date hardware and software, a state-of-the-art 3D printer, a 42” wide plotter for larger CADD prints and, three laser printers and copier.

Employment Opportunities:

Earning an associate in science degree or a certificate in engineering technology or a certificate of accomplishment in engineering drafting from Allan Hancock College will provide you with the skills necessary to pursue a successful career in entry level positions such as:

• Engineering assistant
• Engineering technician
• Engineering drafter (architectural, structural, aeronautical, civil, mechanical, sheet metal, electrical, electronic)

According to the Bureau of Labor Statistics, electrical and electronic engineering technicians held 33 percent of the 497,300 jobs industry wide and earned a median annual wage $53,240 in May 2008.

Engineering Technology

The engineering technology program at Allan Hancock College will prepare you for transfer to a four-year college or for employment as a draftsman or technician to support engineering or drafting offices. Engineering drafters create technical drawings and plans including architectural, structural, aeronautical, civil, mechanical, electronic, sheet metal, electrical and electronic. Potential drafting areas include aeronautical, architectural, automotive, civil, electrical, electronic, illustrative, mapping, mechanical, piping, structural and sheet metal. In addition, several major industries require engineering technologists including mining, petroleum, manufacturing, transportation, communications, and public utilities.

The associate degree and certificate options in engineering include engineering, civil, mechatronics or engineering drafting. Each emphasis focuses specifically on providing a solid background in the mechanics of each technology. Depending on which option you choose will become skilled in the technologies of automation, robotics, machine design, CADD operations, civil engineering, surveying and more.

For more information

Engineering technology is one of the career technical education programs at Allan Hancock College within the department of Industrial Technology. It resides in the Engineering and Design industry sector.

Saad Sadig, instructor/coordinator
Phone: 805.922.6966 ext. 3488
ssadig@hancockcollege.edu

Or visit our website at
www.hancockcollege.edu/cte

Career Technical Education (CTE)

Engineering Technology

Associate in Science degree in Engineering Technology options

• Engineering Technology
• Civil
• Mechatronics

Certificate of Achievement in Engineering Technology with emphasis in Mechatronics

Certificate of Accomplishment in Engineering Drafting

As you begin your engineering technology education at Allan Hancock College you are opening the door to many exciting careers. Each career in turn has many different opportunities within it. Whether your interest lies in theoretical problem solving, artistic creation, working with your hands or creating something practical, a degree in engineering technology will help you satisfy that interest. With your engineering technology degree you can pursue a career as a draftsman, designer, engineer, manufacturing engineer, mechanical engineer, electrical engineer or electronic engineer, among many other options. Graduating with a degree or certificate in engineering technology from Allan Hancock College will put you well on your way to a successful career in the engineering and design industry.

Equipment and Facilities:

Our facilities include a fully-equipped Computer Aided Design and Drafting (CADD) lab with up-to-date hardware and software, a state-of-the-art 3D printer, a 42” wide plotter for larger CADD prints and, three laser printers and copier.

Employment Opportunities:

Earning an associate in science degree or a certificate in engineering technology or a certificate of accomplishment in engineering drafting from Allan Hancock College will provide you with the skills necessary to pursue a successful career in entry level positions such as:

• Engineering assistant
• Engineering technician
• Engineering drafter (architectural, structural, aeronautical, civil, mechanical, sheet metal, electrical, electronic)

According to the Bureau of Labor Statistics, electrical and electronic engineering technicians held 33 percent of the 497,300 jobs industry wide and earned a median annual wage $53,240 in May 2008.

Engineering Technology

The engineering technology program at Allan Hancock College will prepare you for transfer to a four-year college or for employment as a draftsman or technician to support engineering or drafting offices. Engineering drafters create technical drawings and plans including architectural, structural, aeronautical, civil, mechanical, electronic, sheet metal, electrical and electronic. Potential drafting areas include aeronautical, architectural, automotive, civil, electrical, electronic, illustrative, mapping, mechanical, piping, structural and sheet metal. In addition, several major industries require engineering technologists including mining, petroleum, manufacturing, transportation, communications, and public utilities.

The associate degree and certificate options in engineering include engineering, civil, mechatronics or engineering drafting. Each emphasis focuses specifically on providing a solid background in the mechanics of each technology. Depending on which option you choose will become skilled in the technologies of automation, robotics, machine design, CADD operations, civil engineering, surveying and more.

For more information

Engineering technology is one of the career technical education programs at Allan Hancock College within the department of Industrial Technology. It resides in the Engineering and Design industry sector.

Saad Sadig, instructor/coordinator
Phone: 805.922.6966 ext. 3488
ssadig@hancockcollege.edu

Or visit our website at
www.hancockcollege.edu/cte

Career Technical Education (CTE)

Engineering Technology

Associate in Science degree in Engineering Technology options

• Engineering Technology
• Civil
• Mechatronics

Certificate of Achievement in Engineering Technology with emphasis in Mechatronics

Certificate of Accomplishment in Engineering Drafting

As you begin your engineering technology education at Allan Hancock College you are opening the door to many exciting careers. Each career in turn has many different opportunities within it. Whether your interest lies in theoretical problem solving, artistic creation, working with your hands or creating something practical, a degree in engineering technology will help you satisfy that interest. With your engineering technology degree you can pursue a career as a draftsman, designer, engineer, manufacturing engineer, mechanical engineer, electrical engineer or electronic engineer, among many other options. Graduating with a degree or certificate in engineering technology from Allan Hancock College will put you well on your way to a successful career in the engineering and design industry.

Equipment and Facilities:

Our facilities include a fully-equipped Computer Aided Design and Drafting (CADD) lab with up-to-date hardware and software, a state-of-the-art 3D printer, a 42” wide plotter for larger CADD prints and, three laser printers and copier.

Employment Opportunities:

Earning an associate in science degree or a certificate in engineering technology or a certificate of accomplishment in engineering drafting from Allan Hancock College will provide you with the skills necessary to pursue a successful career in entry level positions such as:

• Engineering assistant
• Engineering technician
• Engineering drafter (architectural, structural, aeronautical, civil, mechanical, sheet metal, electrical, electronic)

According to the Bureau of Labor Statistics, electrical and electronic engineering technicians held 33 percent of the 497,300 jobs industry wide and earned a median annual wage $53,240 in May 2008.
Engineering Technology (A.S.)
A major of 27 units is required for the associate in science degree.

Required core courses (27 units):

ET 100  Computer Aided Drafting and Design  3 units
ET 140  Engineering Drawing  3 units
ET 145  Advanced Engineering Drawing  3 units
ET 330  Print Reading and Interpretation  3 units
ET 381  Industrial Mathematics  3 units
ENGR 152  Statics  3 units
GEO 100  Physical Geology  4 units
PHYS 141  General Physics 1  4 units
PHYS 142  General Physics 2  4 units
ARCH 131  Materials of Construction 1  3 units
EL/COM 128  Preparation and Interpretation  3 units
MT 109  Survey of Machining  4 units
ET 140  Engineering Drawing  3 units
SPACE 128  Materials and Processes  3 units

Engineering Technology: Civil (A.S.)
A major of 26 units is required for the associate in science degree.

Required core courses (26 units):

ARCH 131  Materials of Construction 1  3 units
ARCH 121  Architectural Drawing 1  4 units
ARCH 122  Architectural Drawing 2  4 units
ET 100  Computer Aided Drafting and Design  3 units
MT 109  Survey of Machining  4 units
ET 140  Engineering Drawing  3 units
PHYS 110  Introductory Physics 3 units
PHYS 100  Concepts in Physics  4 units
PHYS 100  Concepts in Physics  3 units
SPACE 104  Quality Management Control and Safety  3 units
WLD T 106  Beginning Welding  3 units
WLD T 107  Advanced Welding  3 units
WLD T 308  T.I.G. Welding  3 units
WLD T 315  Metal Fabrication  4 units

Engineering Technology with emphasis in Mechatronics (A.S. & Certificate of Achievement)
A major of 52 units is required for the associate in science degree and certificate.

Required core courses (37 units):

COM SC 121  Fundamentals of Programming 1  4 units
EL/COM EL/  Introduction to Robotics and Mechatronics  3 units
ET 104  1.5 units
EL 111  Fundamentals of DC Circuit Analysis  1.5 units
EL 112  Fundamentals of DC Circuit Analysis Lab  1 unit
EL 113  Fundamentals of AC Circuit Analysis  1.5 units
EL 114  Fundamentals of AC Circuit Analysis Lab  1 unit
EL 122  Electronic Devices and Circuits  3 units
EL 123  Electronic Devices and Circuits Lab  2 units
COM SC 141  Computer Fundamentals in Digital Design 3 units
EL 125  Digital Devices and Circuits  3 units
COM SC 142  Computer Fundamentals in Digital Design  2 units
EL 126  Digital Devices and Circuits Lab  2 units
MT 330  Print Reading and Interpretation  3 units
WLD T 306  Preparation and Interpretation  3 units
EL 146  Electronic Product Design, Fabrication and Documentation  2 units
MT 109  Survey of Machining  4 units
ET 140  Engineering Drawing  3 units
SPACE 128  Materials and Processes  3 units
COM  Fundamentals of Programming 2  3 units
COM SC 175  Object-Oriented Programming  3 units
COM SC 164  Software Engineering 3 units
EL/COM SC 105  PC Preventive Maintenance and Upgrade  3 units
EL/COM SC 106  Networking Essentials 1  3 units
SC 106  Networking Essentials 2  3 units
SC 107  Networking Essentials 2  3 units
ET 128  Renewable Energy  3 units
EL/COM EL/  Programmable Logic Controllers and Industrial Control Design  3 units
EL/COM EL/  Transducers and Sensors  3 units
EL 135  Electronic Measurement and Instrumentation  3 units
EL 136  Electronic Measurement and Instrumentation Lab  2 units
EL/COM SC 137  Microcomputer Architecture and Software Design  4 units
EL/COM EL/  Introduction to Motorola’s 68000  3 units
EL 138  Microprocessor Family  3 units
EL/COM EL/  Electrical Power, Motors, and Controls  3 units
EL/COM EL/  Fluid Power and Control  2 units
EL/COM EL/  Functional Circuits  3 units

Engineering Technology - Engineering Drafting (Certificate of Accomplishment)
Fifteen units constitute the certificate.

Required core courses (12 units):

ET 100  Computer Aided Drafting and Design  3 units
ET 140  Engineering Drawing  3 units
ET 145  Advanced Engineering Drawing  3 units
ET 330  Print Reading and Interpretation  3 units

Plus a minimum of 3 units selected from the following:

ET 189  Independent Projects in Engineering Technology  3 units
ARCH 111  Architectural Graphics  3 units
ARCH 121  Architectural Drawing 1  4 units
ARCH 122  Architectural Drawing 2  4 units