

CONSTRUCTION TECHNOLOGY ~ SUSTAINABLE TECHNOLOGY

The Sustainable Technology career ladder program focuses on the design, retrofit, and maintenance of sustainable construction, including energy efficient systems using day-lighting, passive cooling, and recyclable construction materials; renewable power derived from wind, sun, and water; and electricity-saving equipment using such new technology as off-grid systems and computer-controlled consumption. Maui companies and consumers are moving to sustainable systems in view of incentives to reduce consumption of oil-based energy and imported products.

Competency-based instruction covers the knowledge, attitude, and skills necessary for success in integrated energy and resource management. Hands-on experience is achieved through internships at the College and with community businesses. The program allows students to exit with four Certificates of Competence, a Certificate of Achievement, and an Associate in Applied Science degree.

Call the program coordinator, Don Ainsworth, at 984-3384.

Requirements for Certificates of Competence (Cert.Co.):

Energy Management: 7 credits

Energy 101(3), 102(3), 193v(1)

Energy Production: 7 credits

Energy 101(3), 103(3), 193v(1)

Energy Control: 7 credits

Energy 101(3), 104(3), 193v(1)

Biomass Processes: 7 credits

Energy 101(3), 105(3), 103v(1)

Requirements for Certificate of Achievement (C.A.): 33 credits

Energy 101(3), 102(3), 103(3), 104(3),
105(3), 193v(4)
Electricity 20(3)
Health 31(1)

Occupational Safety & Health 20(1)
Speech 151 or Communication/Business 130(3)
English 55 or English 100(3)
Mathematics 23(3)

Requirements for Associate in Applied Science (A.A.S.) Degree: 65 credits

All C.A. courses plus:

Energy 193v(4)
Physics 50(3)
Science 122(4) - *Natural Science requirement*
ICS 100 or BCIS 161(3)
English 100 or 209(3)

Humanities elective(3)
Social Science elective(3)
Technical electives(9) with consent:
AEC, ELEC, ETRO, CARP, MAIN,
WELD, ICS, BCIS, AG, or AMT

A full-time student would take courses in this sequence:

First Semester (Fall)	Credits	Second Semester (Spring)	Credits
*ENRG 101 Introduction to Sustainable Technology	3	*ENRG 102 Energy Management Systems	3
*ENRG 103 Energy Production Systems	3	*ENRG 104 Energy Storage Control	3
*ELEC 20 Introduction to Electricity	3	*ENRG 105 Biomass Processes	3
*HLTH 31 First Aid & Safety	1	*SP 151 Personal & Public Speaking, or COM/BUS 130 Business Comun-Oral	3
*OSH 20 Intro to Occupational Safety & Health	1	*ENG 55 Written Communications-Written, or ENG 100 Composition I	3
*MATH 23 Practical Algebra	3	*ENRG 193v Internship	<u>2</u>
*ENRG 193v Internship	<u>2</u>		17
	16		

Third Semester (Fall)	Credits	Fourth Semester (Spring)	Credits
BCIS 161 or ICS 100	3	SCI 122 Physical Science	4
PHYS 50 Technical Physics	3	ENG 100 Composition I, or ENG 209 Business & Managerial Writing	3
Social Science elective	3	Humanities elective	3
Technical electives (see above)	5	Technical electives (see above)	4
ENRG 193v Internship	<u>2</u>	ENRG 193v Internship	<u>2</u>
	16		16

* Note: Courses required for Certificate of Achievement.