Energy Performance & Resource Management-Residential Auditing, A.A.S.

The energy performance and resource management program will prepare the student for entry into the rapidly emerging alternative energy technology field. Upon completion of the program, students will be able to demonstrate an understanding of the science behind active and passive energy systems, analyze energy system designs, and offer professional advice to consumers to improve energy systems' efficiency. Students will acquire the knowledge and skills to provide technical services in planning, designing and construction/installing appropriate energy technologies to manage energy utilization effectively.

(Major Code 2200; State CIP Code 15.0503)

- Energy Performance (http://www.jccc.edu/energyauditor)

Associate of Applied Science Degree

First Semester

EPRM 120	Introduction to Residential Energy	3
ENGL 121	Composition I*	3
MATH 130	Technical Mathematics I*	3
CPCA 105	Introduction to Personal Computers: Windows	1
CPCA 110	Spreadsheets I: MS Excel*	1
HVAC 125	Energy Alternatives	2
INDT 155	Workplace Skills	1
CET 105	Construction Methods	3
Total Hours		17

Second Semester

EPRM 123	Active & Passive Residential Systems*	4
PHYS 133	Applied Physics*	5
ENGL 123	Technical Writing I*	3
CPCA 114	Databases I: MS Access*	1
DRAF 129	Interpreting Architectural Drawings	2
Total Hours		15

Third Semester

Technical Electives (see below)		3
EPRM 127	Residential Energy Data Collection and Input*	3
BIOL 130	Environmental Science	3
BIOL 131	Environmental Science Lab*	1
CET 150	Construction Safety	3
Social Science and/or Economics Elective ^		3
Total Hours		16

^ Social Science and/or Economics Elective (http://catalog.jccc.edu/fall/degreecertificates/electives/social-sci-econ-aas)

Fourth Semester

Technical Electives (see below)		4
EPRM 130	Residential Energy Auditing Application*	3
PHIL 138	Business Ethics	1
BUS 140	Principles of Supervision	3
HPER 200	First Aid and CPR	2

Humanities Elective ^	3
Total Hours	16

^ Humanities Elective (http://catalog.jccc.edu/fall/degreecertificates/electives/humanities-aas)

Technical Electives

ELEC 123	Smart House Technology	3
ELEC 131	Introduction to Sensors and Actuators	3
ELTE 122	National Electrical Code I	4
HVAC 121	Basic Principles of HVAC*	4
HVAC 123	Electromechanical Systems	4
HVAC 271	HVAC Internship*	3

Total Program Hours: 64