

Associate in Applied Science

Renewable Energy Technology

This curriculum is intended for persons who desire to become professional technicians qualified for immediate employment in the renewable energy and/or chemical processing environment. The technical components of the program prepare the graduate for employment as operating or electrical technicians in the field of biodiesel production, wet and dry ethanol production, waste and water treatment, process control and chemical processing.

Summer Semester			Sem. Hrs.
CHM	100	Concepts of Chemistry	3
CIS	112	Computer Software Applications	<u>3</u>
Semester Total			6

First Semester			
ELT	100	Electrical Fundamentals	3
BIO	101	General Biology	4
ELT	104	Industrial Electrical Control	3
MAT	101	Technical Mathematics 1	
OR			3
More Advanced Mathematics			<u> </u>
Semester Total			13

Second Semester			
BIO	200	General Microbiology	4
ELT	119	Industrial Electronic Control	3
ELT	208	Programmable Controllers	3
ELT	120	Electrical/Electronics Troubleshooting	3
MAT	102	Technical Mathematics 2	
OR			3
More Advanced Mathematics			<u> </u>
Semester Total			16

Summer Session			
WEL	130	Industrial Safety	<u>2</u>
POS	122	American Government & Politics	
OR			3
Social Science Elective			<u> </u>
Semester Total			5

Third Semester			
ENG	101	Freshman Composition 1	3
HYD	101	Hydraulics & Pneumatics	3
ELT	213	Process Control & Instrumentation	3
RET	200	Ethanol and Biodiesel Process Chemistry	4
Semester Total			13

Fourth Semester

ELT	216	Data Acquisition Controllers	3
RET	201	Waste Water Control and Treatment	3
RET	202	Distillation and Evaporation Theory	3
ELT	207	Electrohydraulic Process Control	3
Directed Elective			<u>2</u>
Semester Total			14

Total Program Requirement 67

Directed Electives:

TQM	101	Total Quality Management	2
CIT	250	Fundamentals of Network Security	3
OSP	199	Occupational Special Problems	1-4
OMS	102	Supervision Fundamentals	3
PSY	151	Occupational Search and Development	3