ENVIRONMENTAL ENGINEERING TECHNICIAN - CEA

Associate of Applied Science, 60 Credit Hours, 18-Month Program

The Environmental Engineering Technician – Controlled Environment Agriculture (CEA) program is designed to prepare students for work in the exciting and growing field of controlled environment agriculture. Successful completion of this Associate of Applied Science Degree prepares students to become greenhouse professionals with skills that can be applied to home, farm, or commercial scale operations. With the expanded interest in farm-to-table, there are increased opportunities to apply the skills learned in this program in a variety of settings.

Course	No.	Course Title	Credits
		General Education Requirements	
BIOL	101	BIOLOGY SURVEY I	3
BIOL	101L	BIOLOGY SURVEY I LAB	1
BIOL	231	GENERAL MICROBIOLOGY	3
BIOL	231L	GENERAL MICROBIOLOGY LAB	1
CHEM	106	CHEMISTRY SURVEY	3
CHEM	106L	CHEMISTRY SURVEY LAB	1
ENGL	101	COMPOSITION* *or*	3
ENGL	106	WORKPLACE COMMUNICATIONS I*	
MATH	114	COLLEGE ALGEBRA **	3
PSYC	103	HUMAN RELATIONS IN THE WORKPLACE	3
		Total	**21**
		Technical Requirements	
AG	115	INTRODUCTION TO AGRONOMY & PLANT SCIENCE	3
CEA	150	AQUAPONICS/INDOOR GROWING	3
CEA	205	HORTICULTURE	3
CEA	250	AQUACULTURE	3
CEA	255	CEA DESIGN	3
BUS	233	BUSINESS ENTREPRENEURSHIP	3
CAD	150	ARCHITECTURAL PRINT READING	1
EET	102	INTRODUCTION TO ENVIRONMENTAL SCIENCES	4
EET	140	LABORATORY METHODS IN ENVIRONMENTAL SCIENCE	3
EET	260	WASTEWATER COLLECTION & TREATMENT	3
EET	280	TOPICS IN ENVIRONMENTAL ENGINEERING	1
IEL	105	INTRODUCTION TO INDUSTRIAL ELECTRONICS	4
IEL	221	PROGRAMMABLE LOGIC CONTROLLERS	2
IEL	222	PROGRAMMABLE LOGIC CONTROLLERS LAB	3
		Total	**39**

*Prerequisite: Acceptable ACCUPLACER score or Basic Writing.
**Prerequisite: Acceptable ACCUPLACER score or Intermediate Algebra.

Semester Breakdown AAS

First Semester		CR	Second Semester		CR
BIOL 101	Biology Survey I	3	CEA 150	Aquaponics/Indoor Growing	3
BIOL 101L	Biology Survey Lab 1	1	CAD 150	Architectural Print Reading	1
CHEM 106	Chemistry Survey	3	EET 140	Laboratory Methods in Environmental Science	3
CHEM 106L	Chemistry Survey Lab	1			
EET 102	Introduction to Environmental Sciences	4	IEL 221	Programmable Logic Controllers	2
IEL 105	Introduction to Industrial Electronics	4	IEL 222	Programmable Logic Controllers Lab	3
			MATH 114	College Algebra	3
	Total Credit Hours	**16**		**Total Credit Hours**	**15**

Third Semester		CR	Fourth Semester		CR
AG 115	Introduction to Agronomy & Plant Science	3	BUS 233	Business Entrepreneurship	3
BIOL 231	General Microbiology	3	CEA 255	CEA Design	3
BIOL 231L	General Microbiology Lab	1	EET 260	Wastewater Collection and Treatment	3
CEA 205	Horticulture	3	EET 280	Topics in Environmental Engineering	1
CEA 250	Aquaculture	3	PSYC 103	Human Relations in the Workplace	3
ENGL 101	Composition *or*	3			
ENGL 106	Workplace Communications I				
	Total Credit Hours	**16**		**Total Credit Hours**	**13**