

TECHNICAL COLLEGE

ENVIRONMENTAL ENGINEERING TECHNICIAN - CEA

Associate of Applied Science, 66 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
CHEM	106	CHEMISTRY SURVEY	3
CHEM	106L	CHEMISTRY SURVEY LAB	1
ENGL	101	COMPOSITION I* or	3
ENGL	106	WORKPLACE COMMUNICATIONS I*	
MATH	114	COLLEGE ALGEBRA **	3
MICR	231	GENERAL MICROBIOLOGY	3
MICR	231L	GENERAL MICROBIOLOGY LAB	1
PSYC	103	HUMAN RELATIONS IN THE WORKPLACE	3
		Total	21
		Technical Requirements	
AE	150	ARCHITECTURAL PRINT READING	1
AG	115	INTRODUCTION TO AGRONOMY & PLANT SCIENCE	3
BUS	233	BUSINESS ENTREPRENEURSHIP	3
CEA	150	AQUAPONICS/INDOOR GROWING	3
CEA	205	HORTICULTURE	3
CEA	250	AQUACULTURE	3
CEA	255	CEA DESIGN	3
CEA	280	TOPICS IN CONTROLLED ENVIRONMENT	
CLIT	200	AGRICULTURE	1
EET	102	INTRODUCTION TO ENVIRONMENTAL SCIENCES	4
EET	140	LABORATORY METHODS IN ENVIRONMENTAL SCIENCE	3
EET	260	WASTEWATER COLLECTION & TREATMENT	3
EET	299	FIELD INTERNSHIP or	3
INT	202	GLOBAL ACADEMIC EXPERIENCE	
IEL	105	INTRODUCTION TO INDUSTRIAL ELECTRONICS	4
IEL	221	PROGRAMMABLE LOGIC CONTROLLERS	2
IEL	222	PROGRAMMABLE LOGIC CONTROLLERS LAB	3
INT	201	GAE/INTERNSHIP PREP	3
		Total	45
	*D	requisite: Acceptable ACCLIPI ACER score or Rasic Writing	

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

The Controlled Environment Agriculture program is on hiatus and not enrolling students for the 2024-25 academic year.

Fall start semester breakdown on next page.

2024-2025 Academic Catalog – 6/2024

Learn. Do. Now.



Semester Breakdown AAS Fall Start

	First	Second			
Semester				Semester	CD
BIOL 101	Dialagy Cumyay I	CR 3	AE 150	Architectural Print Reading	CR
BIOL 101	Biology Survey I Biology Survey Lab 1	3 1	CEA 150	Aquaponics/Indoor Growing	1 3
CHEM 106		3	EET 140	Laboratory Methods in Environmental	3
CHEM 106 CHEM 106L	Chemistry Survey Lob	1	EE1 140	Science	3
EET 102	Chemistry Survey Lab Introduction to Environmental	4	IEL 221		2
LL1 102	Sciences	7	IEL 222	Programmable Logic Controllers Programmable Logic Controllers Lab	2 3
IEL 105	Introduction to Industrial Electronics	4	MATH 114	College Algebra	3
	Total Credit Hours	16		Total Credit Hours	15
	Third				
	Semester (Summer)	CR			
INT 201	GAE/Internship Prep (first 2 weeks)	3			
INT 202	Global Academic Experience (last 6	3			
	weeks) or				
EET 299	Field Internship				
	Total Credit Hours	6			
Fourth				Fifth	
	Semester	CR		Semester	CR
AG 115	Introduction to Agronomy & Plant	3	BUS 233	Business Entrepreneurship	3
	Science	_	CEA 255	CEA Design	3
CEA 205	Horticulture	3	CEA 280	Topics in Controlled Environment	1
CEA 250	Aquaculture	3	EET 260	Agriculture	2
ENGL 101	Composition I or	3	EET 260	Wastewater Collection and Treatment	3
ENGL 106	Workplace Communications I	3	PSYC 103	Human Relations in the Workplace	3
MICR 231	General Microbiology				
MICR231L	General Microbiology Lab	1			
	Total Credit Hours	16		Total Credit Hours	13

Spring start semester breakdown on the next page

Learn. Do. Now.



Semester Breakdown - AAS Spring Start

	First Semester	CR		Second Semester	CR
AE 150 Agriculture Print Reading		1	BIOL 101	Biology Survey I	3
	CEA 150 Aquaponics/Indoor Growing			Biology Survey I Lab	1
	Topics in Controlled Environmental	1		Introduction to Environmental Sciences	4
	Agriculture		ENGL 101	Composition or	3
	CHEM 106 Chemistry Survey			Workplace Communications	
	CHEM 106L Chemistry Survey Lab			Introduction to Industrial Electronics	4
	Laboratory Methods in	3			
	Environmental Science				
MATH 114	MATH 114 College Algebra				
	Total Credit Hours	15		Total Credit Hours	15
	Third Semester	CR		Fourth Semester (summer)	CR
BUS 233	Business Entrepreneurship	3	EET 299	Field Internship <i>or</i>	3
CEA 255	CEA Design	3	INT 202	Global Academic Experience (last 6	
EET 260	Wastewater Collection and Treatment	3 2		weeks)	
IEL 221	Programmable Logic Controllers	3	INT 201	GAE/Internship Prep (first 2 weeks)	3
IEL 222	Programmable Logic Controllers Lab	3			
	Total Credit Hours	14		Total Credit Hours	6
	Fifth	CD			
A C 115	Semester	CR			
AG 115 CEA 205	Introduction to Agronomy Horticulture	3			
CEA 203 CEA 250	Aquaculture	3 3 3			
	General Microbiology	3			
	General Microbiology General Microbiology Lab	1			
PSYC 103	Human Relations in the Workplace	3			
1510103	Traman Relations in the workplace				
	Total Credit Hours	16			