

# WESTERN DAKOTA TECH

## 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
<b>General Education Requirements</b>			
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* <i>or</i>	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
<b>Total</b>			<b>21</b>
<b>Technical Requirements</b>			
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
EET	102	INTRODUCTION TO ENVIRONMENTAL SCIENCES	4
EET	140	LABORATORY METHODS IN ENVIRONMENTAL SCIENCE	3
EET	260	WASTEWATER COLLECTION & TREATMENT	3
CEA	280	TOPICS IN CONTROLLED ENVIRONMENT AGRICULTURE	1
IEL	105	INTRODUCTION TO INDUSTRIAL ELECTRONICS	4
IEL	221	PROGRAMMABLE LOGIC CONTROLLERS	2
IEL	222	PROGRAMMABLE LOGIC CONTROLLERS LAB	3
<b>Total</b>			<b>39</b>

\*Prerequisite: Acceptable ACCUPLACER score or Basic Writing.

\*\*Prerequisite: Acceptable ACCUPLACER score or Intermediate Algebra.

Semester breakdown on next page

2023-2024 Academic Catalog – 4/2023

Apply online today at [wdt.edu](http://wdt.edu) or call Admissions Department at (605)718-2565 or email [admissions@wdt.edu](mailto:admissions@wdt.edu)

Learn. Do. Now.

# WESTERN DAKOTA TECH

## Semester Breakdown AAS

First Semester			Second Semester		
		CR			CR
BIOL 101	Biology Survey I	3	AE 150	Architectural Print Reading	1
BIOL 101L	Biology Survey Lab 1	1	CEA 150	Aquaponics/Indoor Growing	3
CHEM 106	Chemistry Survey	3	EET 140	Laboratory Methods in Environmental Science	3
CHEM 106L	Chemistry Survey Lab	1	IEL 221	Programmable Logic Controllers	2
EET 102	Introduction to Environmental Sciences	4	IEL 222	Programmable Logic Controllers Lab	3
IEL 105	Introduction to Industrial Electronics	4	MATH 114	College Algebra	3
<b>Total Credit Hours</b>		<b>16</b>	<b>Total Credit Hours</b>		<b>15</b>
Third Semester			Fourth Semester		
		CR			CR
AG 115	Introduction to Agronomy & Plant Science	3	BUS 233	Business Entrepreneurship	3
CEA 205	Horticulture	3	CEA 255	CEA Design	3
CEA 250	Aquaculture	3	EET 260	Wastewater Collection and Treatment	3
ENGL 101	Composition I <i>or</i>	3	CEA 280	Topics in Controlled Environment Agriculture	1
ENGL 106	Workplace Communications I	3	PSYC 103	Human Relations in the Workplace	3
MICR 231	General Microbiology	3			
MICR231L	General Microbiology Lab	1			
<b>Total Credit Hours</b>		<b>16</b>	<b>Total Credit Hours</b>		<b>13</b>

Apply online today at [wdt.edu](http://wdt.edu) or call Admissions Department at (605)718-2565 or email [admissions@wdt.edu](mailto:admissions@wdt.edu)

# Learn. Do. Now.