WESTERN DAKOTA TECHNICAL COLLEGE

ENVIRONMENTAL ENGINEERING TECHNICIAN

Associate of Applied Science, 67 Credit Hours, 18-Month Program

The Environmental Engineering Technician program is designed to prepare students for work in an exciting and growing field. As our population grows, society puts an ever-increasing demand on our natural resources. Program graduates primarily work outdoors in the field, collecting information used to assess how increased demand affects the quality and quantity of our nation's natural resources. Program graduates work in a broad range of jobs such as collecting and analyzing water and soil samples, measuring stream flow and groundwater levels, and conducting soils testing. The work can be physically demanding, requiring technicians to climb or hike long distances, carrying equipment to remote locations. Field work often entails working under varying climatic conditions such as hot summers or cold winters. Technicians may be required to drive off-road vehicles such as 4-wheelers and snowmobiles, or even ride on horses, boats or helicopters, to access some remote sampling sites.

Upon graduation, students can be employed with federal, state, county, and city environmental departments; water treatment facilities; or with private businesses such as consulting engineers, mining companies, and testing labs.

Students will gain experience in environmental sampling and monitoring throughout the program. Field Engineering courses provide students with an excellent balance of theory and hands-on experience that will enable them, upon graduation, to conduct environmental investigations under the supervision of professional Geologists, Engineers, or Hydrologists.

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	250	MAPPING AND GPS TECHNOLOGIES	2
AE	251	INTRODUCTION TO GIS	3
AE	252	SURVEYING I	3
AG	110	FUNDAMENTALS IN SOIL SCIENCE	2
EET	102	INTRODUCTION TO ENVIRONMENTAL SCIENCES	4
EET	140	LABORATORY METHODS IN ENVIRONMENTAL SCIENCE	3
EET	202	WATER QUALITY	3
EET	210	ENVIRONMENTAL REGULATIONS & HAZMAT AWARENESS	2
EET	215	HYDROLOGY & STREAM FIELD METHODS	4
EET	220	WATER TREATMENT AND DISTRIBUTION	3
EET	225	AIR QUALITY	2
EET	235	CONSTRUCTION MATERIALS SAMPLING & TESTING	3
EET	251	ENVIRONMENTAL GEOLOGY	3
EET	260	WASTEWATER COLLECTION & TREATMENT	3
EET	299	FIELD INTERNSHIP ***or***	3
INT	202	GLOBAL ACADEMIC EXPERIENCE	
INT	201	GAE/INTERNSHIP PREP	3
		Total	**46**

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

Fall start semester breakdown on next page

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Semester Breakdown AAS- Fall Start

First Semester		CR
AE 250	Introduction to Mapping/GPS	2
BIOL 101	Biology Survey I	3
BIOL 101L	Biology Survey I Lab	1
CHEM 106	Chemistry Survey	3
CHEM 106L	Chemistry Survey Lab	1
EET 102	Introduction to Environmental Sciences	4
MATH 114	College Algebra	3
	Total Credit Hours	**17**

Second Semester		CR
EET 140	Laboratory Methods in Environmental Science	3
EET 225	Air Quality	2
EET 251	Environmental Geology	3
ENGL 101	Composition I ***or***	3
ENGL 106	Workplace Communication	
PSYC 103	Human Relations in the Workplace	3
	Total Credit Hours	**14**

Third Semester (summer)		CR
INT 201	GAE/ Internship Prep(first 2 weeks)	3
INT 202	Global Academic Experience ***or***	3
EET 299	Field Internship (last 6 weeks)	
	Total Credit Hours	**6**

Fourth Semester		CR
AE 252	Surveying I	3
AG 110	Fundamentals in Soil Science	2
EET 215	Hydrology & Stream Field Methods	4
EET 220	Water Treatment and Distribution	3
MICR 231	General Microbiology	3
MICR 231L	General Microbiology Lab	1
	Total Credit Hours	**16**

Fifth Semester		CR
AE 251	Introduction to GIS	3
EET 210	Environmental Regulations & Hazmat Awareness	2
EET 202	Water Quality	3
EET 235	Construction Materials Sampling & Testing	3
EET 260	Wastewater Collection and Treatment	3
	Total Credit Hours	**14**

Spring start semester breakdown on next page

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WESTERN DAKOTA TECHNICAL COLLEGE

Semester Breakdown AAS- Spring Start

First Semester		CR
CHEM 106	Chemistry Survey	3
CHEM 106L	Chemistry Survey Lab	1
EET 140	Laboratory Methods in Environmental Science	3
EET 225	Air Quality	2
EET 251	Environmental Geology	3
PSYC 103	Human Relations in the Workplace	3
	Total Credit Hours	**15**

Second Semester		CR
AE 250	Introduction to Mapping/GPS	2
BIOL 101	Biology Survey I	3
BIOL 101L	Biology Survey I Lab	1
EET 102	Introduction to Environmental Sciences	4
ENGL 101	Composition I ***or***	3
ENGL106	Workplace Communications I	
MATH 114	College Algebra	3
	Total Credit Hours	**16**

Third Semester		CR
AE 251	Introduction to GIS	3
EET 210	Environmental Regulations &	2
EET 202	Hazmat Awareness	
	Water Quality	3
EET 235	Construction Materials Sampling & Testing	3
EET 260	Wastewater Collection and Treatment	3
	Total Credit Hours	**14**

Fourth Semester (Summer)		CR
INT 201	GAE/Internship Prep (first 2 weeks)	3
INT 202	Global Academic Experience ***or***	3
EET 299	Field Internship (last 6 weeks)	
	Total Credit Hours	**6**

Fifth Semester		CR
AE 252	Surveying I	3
AG 110	Fundamentals in Soil Science	2
EET 215	Hydrology & Stream Field Methods	4
EET 220	Water Treatment and Distribution	3
MICR 231	General Microbiology	3
MICR 231L	General Microbiology Lab	1
	Total Credit Hours	**16**

If you are or have been convicted, pleaded guilty or no contest to, or received a suspended imposition of sentence for a felony or certain misdemeanors, you are advised that you may not be able to complete all course requirements for your chosen program, you may be prevented from taking required certification/licensure examinations in your chosen program field, and you may be prevented from gaining employment in your program field.

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