

**MT**<sup>i</sup>

**Be The Best!**

## Utilities Technology (Combination Degree)

- Combines a set of two popular one-year programs into one, allowing you to earn an AAS degree
- Choose from Power Line Construction & Maintenance; Natural Gas Technology; Heating & Cooling Technology; or GPS/GIS Mapping Technology
- Learn the best skills and gain valuable hands-on experience
- Match up two specialties to create a unique set of skills that will put you in high demand
- High starting salaries
- Excellent job opportunities

TUITION/FEES/LAPTOP: Costs factored according to individual educational plans



**Mitchell Technical Institute**  
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Aspen Prize Top 10 Community College

## PL Curriculum

First Semester		Semester Credits
PL	111	Fundamentals of DC/AC..... 3
PL	141	Power Grid Design ..... 2
PL	150	Field Training I ..... 4
PL	151	Construction of Underground Lines ..... 4
PL	171	Utility Safety I..... 1
PAT	100	Intro to GPS Technologies ..... 1

Second Semester		Semester Credits
PL	120	Transformer Connections ..... 3
PL	143	Power Grid Design II ..... 2
PL	154	Maintenance of Underground Lines ..... 4
PL	156	Field Training II ..... 4
PL	172	Utility Safety II ..... 1

## GPS/GIS Mapping Technology Curriculum

First Semester		Semester Credits
MAP	101	Introduction to GIS ..... 4
MAP	105	GPS Data Collection & Management..... 4
MAP	110	CAD I..... 2

Second Semester		Semester Credits
MAP	120	CAD II ..... 2
MAP	121	Cloud Based GPS/GIS Apps..... 2
MAP	125	GIS Problems & Analysis..... 4
MAP	128	Remote Sensing ..... 3
CIS	107	Spreadsheets ..... 3

## Heating & Cooling Technology Curriculum

First Semester		Semester Credits
HV	101	Electrical Fundamentals..... 3
HV	111	Heating Fundamentals..... 3
HV	121	AC and Refrigeration Fundamentals ..... 2
HV	151	AC/Heating/Refrigeration Lab I..... 4

Second Semester		Semester Credits
HV	122	Sheet Metal Technology and Lab ..... 3
HV	132	Heating & Refrigeration Theory..... 4
HV	142	HV Controls & Heat Pumps ..... 3
HV	152	AC/Heating/Refrigeration Lab II ..... 4

## Natural Gas Technology Curriculum

First Semester		Semester Credits
NGT	100	Safety for the Natural Gas Technician ..... 1
NGT	101	Electrical Fundamentals..... 3
NGT	102	Gas Operations & Maintenance..... 3
NGT	104	Foundations of Natural Gas Technology ..... 2
NGT	105	Gas Installation Lab ..... 3

Second Semester		Semester Credits
NGT	110	Trenching & Excavation Practices ..... 2
NGT	112	Gas Measurements & Controls..... 3
NGT	115	Gas Mapping & Operations..... 3
PAT	102	Principles of GPS/GIS..... 2
BUS	204	Customer Service ..... 3

In addition to the technical courses required in each program, the student seeking an AAS degree must also complete:

TRAN	100	Industrial Transportation/CDL ..... 1
OSHA	101	OSHA 10 Training ..... 1
CPR	100	First Aid, CPR & AED.....0.5
CIS	101	Computer Concepts ..... 3
SSS	100	Student Success ..... 1
		Communications Elective ..... 3
		Math Elective ..... 3
		Behavioral Science Elective..... 3
		Social Science Elective ..... 3