



MONTANA STATE UNIVERSITY BILLINGS

SUSTAINABLE ENERGY TECHNICIAN ASSOCIATE OF APPLIED SCIENCE

ADVISING WORKSHEET 2014-2015

City College
Jacket Student Central
Phone: 406-247-3019
Fax: 406-247-3095

Name _____

Student ID # _____

This program begins in the fall semester

Course	Credits	Grade	Semester	Equivalent
Recommended Preparatory Courses				

Required Preparatory Courses				

General Education Requirements

CAPP	120	Introduction to Computers	3			
COMX	106	Communicating in a Dynamic Workplace	3			
M	114	Extended Technical Mathematics or	3			
M	121	College Algebra (preferred)				
WRIT	121	Intro to Technical Writing	3			

Required Courses

DST	140	Introduction to Hydraulics	2			
DST	141	Introduction to Hydraulics Lab	2			
ELCT	130	Electric Motors and Generators	3			
ELCT	241	Electric Motor Controls	3			
ELCT	250	Programmable Logic Controllers	3			
ETEC	103	AC/DC/Electronics II	3			
ETEC	220	Electrical Power and Distribution I	3			
HVC	110	Introduction to HVAC	3			
HVC	225	Advanced Controls	3			
NRGY	101	Introduction to Sustainable Energy	3			
NRGY	121	Climb Safety and Rigging	1			

NRGY	220	Wind Turbine Equipment	3			
NRGY	235	Building Energy Efficiency	3			
NRGY	243	Fundamentals of Photovoltaic Design and Installation	3			
NRGY	299	Senior Capstone	3			
NTS	104	CCNA 1: Intro to Networks	4			
TRID	150	Environmental and Shop Practices	2			
TRID	185	Introduction to Industrial Power Systems	2			
TRID	186	Introduction to Industrial Power Systems Lab	1			

TOTAL MINIMUM CREDITS REQUIRED 65

A grade of "C" or higher is mandatory in all required courses

Restricted Elective to choose from:

DDSN 114	Introduction to CAD.....	3
ETEC 284	Digital Electronics.....	4
NRGY 291	Special Topics.....	1-3
NRGY 298	Internship.....	3

Suggested Plan of Study

First Semester	Credits	Second Semester	Credits
HVC 110	3	CAPP 120	3
M 114 or M121	3	COMX 106	3
NRGY 101	3	DST 140	2
NRGY 121	3	DST 141	2
TRID 185	2	ELCT 130	3
TRID 186	1	ETEC 103	3
WRIT 121	3	TOTAL	16
TOTAL	18		

Third Semester	Credits	Fourth Semester	Credits
ELCT 241	3	ELCT 250	3
ETEC 220	3	HVC 255	3
NRGY 220	3	NRGY 299	3
NRGY 235	3	NTS 104	4
NRGY 243	3	Restricted Elective	3
TOTAL	15	TOTAL	16

Transcript evaluation (if applicable completed) by: _____ on _____

Developing a Plan of Study

To facilitate course planning and scheduling, students should be aware that not all courses are offered every semester. Some courses require pre-requisites and preparatory courses to be successfully completed or co-requisites be taken simultaneously.

Sustainable Energy Associate of Applied Science Degree Program Requirements:
Key: F= Fall; S=Spring; X=Summer; # = online

Course	Required Pre-requisite	Recommended Pre-requisite	Required Co-requisite	Recommended Co-requisite	Term Offered
CAPP 120					F, S, X # F, S, X
COMX 106					F, S, # F, S, X
M 114	M 111/M095 or appropriate placement score				F, S, X # F, S
M 121	M 095 or appropriate placement score				F, S, X # F, S, X
DST 140			DST 141		F,S
DST 141			DST 140		F ,S
ELCT 130					S
ELCT 241	ELCT 130				F
ELCT 250	ETEC 103				S
ETEC 103					S
ETEC 220	ETEC 103				F
ETEC 284	ETEC 103				S
HVC 110					F
HVC 255	HVC 110 and ELCT 241				S
NRGY 101					F
NRGY 121					F
NRGY 220	NRGY 120				F
NRGY 235	NRGY 101				F
NRGY 243	NRGY 101 and ETEC 103				F
NRGY 291					
NRGY 298					
NRGY 299	NRGY 101, ETEC 103, NRGY 243, and ELCT 241				
NTS 104		CAPP120			F
TRID 150					F,S
TRID 185					F,S
TRID 186			TRID 185		F,S

Program Specific Information

Students should know the following information:

- Before a student can take part in the technical courses in the Sustainable Energy program they must be at a math level of at least M 111 and a writing level of at least WRIT 104.
- For the Certificate of Applied Science, General Education courses such as CAPP 120 and COMX 106, WRIT 104, and M 111 can be taken in advance of starting the technical courses.
- For the Associate of Applied Science degree, General Education courses such as CAPP 120, COMX 106, WRIT 121, M 114 or M 121 can be taken in advance of starting the technical courses.
- The technical portion of the program is a fall semester start only.
- Technical courses are very specific and sequential in order and semesters in which they are offered. Please refer to the plan of study outlined below as to the order and progression of the technical courses.
- Students that earn an AAS degree and want to further their education thus career; are able to go on for a Bachelor of Applied Science degree through MSUB. There are various thematic concentrations that a student can focus on to earn a BAS degree, one of which is Business.



2014-2015 Sustainable Energy AAS Plan of Study

Name: _____

Date: _____

City College
AAS Sustainable Energy

Semester _____

Semester _____

Course	Credits	Course	Credits

Fall _____

Spring _____

Course	Credits	Course	Credits
HVC 110	3	DST 140	2
NRGY 101	3	DST 141	2
NRGY 120	3	ELCT 130	3
TRID 185	2	ETEC 103	3
TRID 186	1	+ CAPP 120	3
+ M 114 or M 121	3	+ COMX 106	3
+WRIT 121	3		
Total		Total	

Fall _____

Spring _____

Course	Credits	Course	Credits
ELCT 241	3	ELCT 250	3
ETEC 220	3	HVC 255	3
NRGY 220	3	NRGY 299	3
NRGY 235	3	NTS 104	4
NRGY 243	3	Restricted Elective	3
Total		Total	

+ Courses that can be taken in advance.

Number of earned credits that apply toward degree: _____

Number of credits left to earn for degree: _____

CERTIFICATION: The courses listed are **required** for the student's degree.

Advisor's Signature: _____ Date: _____

Student's Signature: _____ Date: _____