
Wyoming Energy Sector Technology (WEST) Program Maps



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PROGRAM MAP

Diesel Technology AAS

Spring 2015							
Course #	Course Title	Preferred Day/Time	Cr.	Course #	Course Title	Preferred Day/Time	Cr.
DESL1540	Heavy Duty Electrical Sys		3	DESL1580	Power Train, Braking & Steering		3
DESL1610	Engine Rebuilding I		9	DESL1620	Engine Rebuilding II		9
DESL1650	Diesel Fuel Sys & Tuning I		5	DESL1660	Diesel Fuel Sys & Tuning II		3
DESL1980	Cooperative Work Experience		4	DESL1850	Basic Hydraulics		3
				DESL1980	Cooperative Work Experience		4
Total Fall			21	Total Spring			22
				Total First Year			43

Summer 2015

Spring 2016							
Course #	Course Title	Preferred Day/Time	Cr.	Course #	Course Title	Preferred Day/Time	Cr.
COM 1030	Interpersonal Communication		3	CHEM 1005	Basic Chemistry		3
PEAC 2001	Physical Fitness & Wellness		1	CHEM 1006	Basic Chemistry Lab		1
POLS 1000	US & Wyoming Govt		3	ENGL1010	English I: Composition		3
MATH 1000	Problem Solving		3	MCHT 1610	Machine Tool I		2
				MCHT 1620	Machine Tool II		2
Total Fall			10	Total Spring			11
				Total Second Year			21
				Total Program Credit Hours			64

PROGRAM MAP

Power Plant Technology AAS

Fall 2014		Spring 2015		Preferred Day/Time		Cr.	
Course #	Course Title	Course #	English I: Composition	Preferred Day/Time	Cr.	Preferred Day/Time	Cr.
ENVT 1600	Industrial Safety	POWER 1565	Pwr Plant Treatmt/Air Quality		4		3
POWER 1500	Power Plant Orientation	POWER 1600	Power Plant Supply & Control I		3		3
POWER 1980	Cooperative Work Experience	POWER 2600	Power Plant Supply & Control II		4		4
ELTR 1570	Electric Circuits	POWER 1980	Cooperative Work Experience		4		4
ELTR1620	Electrical Circuits Lab	MCHT 1610	Machine Tool Technology I		1.5		2
DESL 1850	Basic Hydraulics	WELD 1820 or WELD 1700	GMAW & GTAW Welding or General Welding		3		2.5
Total Fall		Total Spring			19.5		18.5
Summer 2015		Total First Year					38

Fall 2015		Spring 2016		Preferred Day/Time		Cr.	
Course #	Course Title	Course #	Course Title	Preferred Day/Time	Cr.	Preferred Day/Time	Cr.
ELTR 1535	Electrical Power		Approved Major Electives		3		6
MATH 1000 or BADM 1005	Problem Solving or Business Mathematics		General Education Electives		3		4
POLS 1000	US & Wyoming Govt	ENGL 1010 or BOTK 1540	English I: Composition or Business English		3		3
	Physical Ed.				1		
	General Education Elective				3		
Total Fall		Total Spring			13		13
Total Second Year		Total Program Credit Hours					26
							64

PROGRAM MAP

Renewable Energy Technology AAS

Spring 2015							
Course #	Course Title	Preferred Day/Time	Cr.	Course #	English I: Composition	Preferred Day/Time	Cr.
ENVT 1600	Industrial Safety		4	RETK 1520	Wind Power Systems		3
RETK 1500	Solar Power Systems		2	ENTK 1510	Drafting I		4
RETK 1505	Small Wind Turbines		2	ELTR 2945	Fiber Optic Workshop		2
ELTR 1570	Electric Circuits		4	ELTR 1535	Electrical Power		3
ELTR 1620	Electrical Concepts Lab		1.5	ELTR 1535L	Electrical Power Lab		0
DESL 1850	Basic Hydraulics		3	RETK 2500	Basic Site Planning		3
Total Fall			16.5	Total Spring			16
Total First Year							32.5

Summer 2015

Spring 2016							
Course #	Course Title	Preferred Day/Time	Cr.	Course #	Course Title	Preferred Day/Time	Cr.
RETK 2530	Instrumentation		3		Approved Major Electives		6
MATH 1000	Problem Solving		3		General Education Electives		7
POLS 1000	US & Wyoming Government		3	RETK 2550	Power Distribution		3
ATSC 2000	Intro to Meteorology		4				
PEAC	Physical Education		1				
ENGL 1010	English I: Composition		3				
Total Fall			17	Total Spring			16
Total Second Year							32
Total Program Credit Hours							64.5

PROGRAM MAP

Welding Technology AAS

Spring 2015							
Course #	Course Title	Preferred Day/Time	Cr.	Course #	English I: Composition	Preferred Day/Time	Cr.
WELD 1555	Welding Tech Safety		1.5	WELD 1780	Gas Tungsten Arc Welding		4.5
WELD 1650	Print Reading		2	WELD 1860	Welding Fabrication		4.5
WELD 1710	Oxy Welding & Cutting		1.5	WELD 1910	Specialized Weld & Join		3
WELD 1755	Shielded Metal Arc Welding		7	WELD 2500	Structural Welding		2.5
WELD 1770	Gas Metal Arc Welding		4.5	WELD 2520	Pipe Welding II		5
WELD 2510	Pipe Welding I		3.5	WELD 2670	Welding Inspection		2.5
WELD 2680	Welding Metallurgy		3				
Total Fall			23	Total Spring			22
Total First Year							45

Summer 2015

Spring 2016							
Course #	Course Title	Preferred Day/Time	Cr.	Course #	Course Title	Preferred Day/Time	Cr.
	Approved electives		2		Approved electives		2
	General education		9		General Education		8
Total Fall			13	Total Spring			12
Total Second Year							25
Total Program Credit Hours							70

Program: Associate of Science in Geographic Information Systems

Degree: AS

Fall 2014		Spring 2015	
Course #	Course Title	Cr.	Course Title
GEOG 1100	Introduction to GIS	4	GEOG 1110 Management GIS
MATH 1400	Pre-Calculus Algebra	4	ENGL 1020 English II: Composition
POLS 1000	US and WY Gov't	3	HUMAN 1010 Human Behavior Elec
ENGL 1010	English I: Composition	3	GEOG 1100 Physical Geology
GEOG 1080	Into to GPS and Maps	3	MATH 1405 Pre-Calculus Trig
Total Fall		17	Total Spring
			Total First Year
			34
Summer 2015			
Fall 2015		Spring 2016	
Course #	Course Title	Cr.	Course Title
GEOG 2100	Advanced GIS	4	Cultural Env Elective
GEOG 2150	Map Use and Analysis	3	Intro to Comp Sci
GEOG 1000	World Regional Geogrphy	3	Intro to Env and Nat Res
AGRI 1020	GPS and GIS in Ag	2	Fitness and Wellness
CMPA 1815	Database Applications	3	Fund of Statistics
Total Fall		15	Total Spring
			Total Second Year
			31
			Total Program Credit Hours
			65

Program: Associate of Applied Science in Extractive Resources

Degree: AA AB AS AFA AAS

Fall 2014				Spring 2015				Cr.	
Course #	Course Title	Cr.	Course #	Course Title	Cr.	Course Title	Cr.		
EXTR 1500	Geology of Extractive Res	3	EXTR 2510	Intro to Well Drilling					
GEOG 1080	Intro to GPS and Maps	3	COSC 1200	Computer Info Systems	3				3.5
ELTR 1515	Basic AC/DC Electronics	3	ELTR 1535	Electrical Power	3				3
ENVT 1600	Industrial Safety	3	DESL 1850	Basic Hydraulics	3				3
CO/M 1010	Public Speaking	1		Elective					
PEAC									
Total Fall		16	Total Spring						15.5
			Total First Year						31.5

Summer 2015					
Course #	Course Title	Cr.	Course #	Course Title	Cr.

Fall 2015				Spring 2016				Cr.	
Course #	Course Title	Cr.	Course #	Course Title	Cr.	Course Title	Cr.		
GEOG 2320	Petroleum Geology	3	EXTR 2530	Oil and Gas Production	3.5				
EXTR 2520	Intro to Well Logging	3	EXTR 2540	Petroleum Refining	3				
ELTR 1605	Process Control	3	ELTR 2815	Program Logic Control	4				
POLS 1000	US and WY gov't	3		Electives	6				
GEOG 1100	Physical Geology	4							
Total Fall		16	Total Spring						16.5
			Total Second Year						32.5
			Total Program Credit Hours						64

Program: Associate of Science in Geology
Degree: AS

Fall 2014			Spring 2015		
Course #	Course Title	Cr.	Course #	Course Title	Cr.
GEOL 1100	Physical Geology		GEOL 1200	Historical Geology	
		4			4
MATH 1400	Pre-Calculus Algebra	4	MATH 1405	Pre-Calculus Trig	3
POLS 1000	US and WY Gov't	3	GEOL 2010	Mineralogy	
ENGL 1010	English I: Composition	3			5
GEOG 1000	World Regional Geography	3	ENGL 1020	English II: Composition	3
			PEAC		1
Total Fall		17	Total Spring		16
			Total First Year		33

Summer 2015		
Course #	Course Title	Cr.

Fall 2015			Spring 2016		
Course #	Course Title	Cr.	Course #	Course Title	Cr.
GEOL 2100	Stratigraphy and Sediment	4	GEOL 2050	Prin of Paleontology	3
			CHEM 1035	Chemistry II	3
CHEM 1025	Chemistry I	3	CHEM 1038	Chemistry II Lab	1
CHEM 1028	Chemistry I Lab	1	GEOG 1080	Intro to GPS and Maps	3
STAT 2050	Fund of Statistics	5	BIOL 1000	or BIOL 1010	4
GEOL 2020	Petrology	4		GEOL Electives	4
Total Fall		17	Total Spring		18
			Total Second Year		35
			Total Program Credit Hours		68