


HIGH SCHOOL: Charles M. Russell High School		BIG SKY PATHWAY PROPOSAL 
COLLEGE: Helena College University of Montana		
COLLEGE DEGREE PROGRAM: AAS Automotive Technology		
Cluster Overview: Jobs in the Transportation, Distribution, and Logistics career cluster involve the planning, management, and movement of people, materials, and goods by road, air, rail, and water, as well as related professional and technical support services such as transportation infrastructure planning and management; logistics services; and mobile equipment and facility maintenance.	Pathway Options: <ul style="list-style-type: none"> • Transportation Operations • Logistics Planning and Management Services • Warehousing & Distribution Center Operations • Facility and Mobile Equipment Maintenance • Transportation Systems/Infrastructure Planning, Management and Regulation • Health, Safety and Environmental Management 	Occupation Examples: Dispatchers, Aircraft Mechanic, Airline Pilots, Air Traffic Controllers, Bus Drivers, Diesel Mechanics, Truck Drivers, Locomotive Engineers, Cargo and Freight Agents, Mass Transit Transportation Managers, Shipping and Receiving Clerks For a complete listing, go to: http://online.onetcenter.org/find/career?c=16&q=Go

SUGGESTED HIGH SCHOOL COURSES

9th	Graduation Requirements Workforce/2-Year College Prep	Eng 1-2, Math Alg 1, Foundations of Science, World History, Fine Arts	Recommended CTE Cluster Foundation Course(s): Intro to IT
	4-Year MT College/Univ Prep (Rigorous Core)		
	CTE and/or Electives	Alg Geometry, Biology 1-2, MT Government, Fine Arts, Fin Tech, Eng 3-4	Recommended CTE Pathway Courses:
10th	Graduation Requirements Workforce/2-Year College Prep		Power Technology, DC Electricity, Consumer Mechanics, Applied Physics
	4-Year MT College/Univ Prep (Rigorous Core)		
	CTE and/or Electives	Power tech, DC Electricity, Applied Physics, Consumer Mechanics	Other Recommended CTE Courses:
11th	Graduation Requirements Workforce/2-Year College Prep	English 5-6, Alg 2 Trig, Chemical Physics Bio, US History, Fine Arts, World Lang	Automotive Technology
	4-Year MT College/Univ Prep (Rigorous Core)		
	CTE and/or Electives	Automotive Technology	
12th	Graduation Requirements Workforce/2-Year College Prep	English 5-6, Geom, Alg 2 Trig, Chemistry, Physics Adu Biol., Government Fine Arts, or World Language	Career & Technical Student Organization(s): Automotive Technology ASE
	4-Year MT College/Univ Prep (Rigorous Core)		
	CTE and/or Electives	Automotive Technology ASE	

ADVANCED LEARNING OPPORTUNITIES High School to College/Career Linkages

CTE START courses:
Advanced Placement or IB courses:
Dual Enrollment courses: M11T Technical Math; WRIT121 Intro to Tech Writing
Online courses:
Other: work experience:

POSTSECONDARY PROGRAM OF STUDY (72 credits)

	Math	English	Major	Other
Semester 1	M11T Technical Math 3cr		AUTO104 Automotive Mechanics 2cr AST108 Auto Manual Drive Trains 6 AST130 Intro to Auto Electronics 7	
Semester 2			AST160 Auto Engine Repair 6 AST172 Auto Heating/Air Conditioning 5	

			Electric/Electronics Systems II 4	
Semester 3		WRIT121 Intro to Tech Writing 3cr	AST118 Brake Chassis 6 AST262 Engine Performance I 8cr	
Semester 4			AST264 Engine Performance II 5cr AST 270 Auto Transmissions/Transaxles 7 AST280 Applied Lab Experience Light Repair 4	HR110T Career Development and Human Relations

MONTANA POSTSECONDARY OPPORTUNITIES

*Montana University System Degree and Program Inventory: <http://www.homepage.montana.edu/~mus/drqinv/>
Your Guide to Montana's Certificate and Associate Degree Programs: <http://mus.edu/twoyear/YourGuide.html>*

MSU Two Year Colleges and Programs: City College MSUB—Billings (CC); Great Falls College MSU—Great Falls (GFC); Helena College UM—Helena (HC) Highlands College MT Tech—Butte(HC-Tech); Missoula College UM—Missoula (MC); Gallatin College MSU—Bozeman(GC)	Community Colleges: Dawson Community College (DCC) Flathead Valley Community College (FVCC) Miles Community College (MCC)	Tribal Colleges: Aaniiih Nakoda College (ANC);Blackfeet Community College(BCC); Chief Dull Knife College (CDKC);Fort Peck Community College (FPCC);Little Big Horn College (LBHC);Stone Child College (SCC);Salish Kootenai College (SKC)	Four Year Colleges/Universities: MSU—Bozeman; MSUB—Billings; MSUN—Havre; MT Tech—Butte; UM—Missoula; UMW—Dillon
MILITARY	<ul style="list-style-type: none"> Requires diploma or GED 17 with parental consent; 18 without 	Air Force, Air Guard, Army, Coast Guard, Marines, and Navy For more information: http://todaysmilitary.com	
PROFESSIONAL CERTIFICATE	<ul style="list-style-type: none"> Requires diploma or GED Less than 30 credits; little/no general ed credits Complete in one year or less 	Automotive Technology — FVCC Truck Driving — MCC	
APPRENTICESHIP	<ul style="list-style-type: none"> Requires diploma or GED Must be at least 18 Minimum 2,000 hours of supervised experience 	Aircraft Mechanics, Avionics Technicians, Bus and Truck Mechanics, Diesel Engine Mechanics, Heavy Equipment Mechanics, Material Coordinators/Shipping & Receiving Clerks See the MT Dept of Labor website for more information: http://wsd.dli.mt.gov/apprenticeship/default.asp	
CERTIFICATE OF APPLIED SCIENCE	<ul style="list-style-type: none"> Requires diploma or GED 30-45 credits; limited general education credits Complete in one year or less 	Automotive Collision & Refinishing — CC, GFC Automotive Technology — HC Tech, MSUN, CC, MCC, FPCC Diesel Equipment/Technology — CC Heavy Equipment Operation — MC, FVCC, MCC, FPCC, BCC Highway Construction Worker — SKC Recreational Power Equipment — MC Truck Driving — FPCC	
ASSOCIATE'S OF APPLIED SCIENCE DEGREE	<ul style="list-style-type: none"> Requires diploma or GED 60-72 credits; includes 15-25 general ed credits Complete in two years (<i>if prepared academically in math and English</i>) 	Automotive Collision & Refinishing — CC Automotive Technology — HC, CC, MSUN, MCC, FPCC Aviation — GC Aviation Maintenance — Helena College Diesel Equipment/Technology — CC, HC, MC, MSUN	
BACCALAUREATE DEGREE	<ul style="list-style-type: none"> Requires 4-year college prep for admission 128 credits (approximately) Complete in four years 	Diesel Technology — MSUN	

Degree and Program Inventory above may not be all inclusive