



Transportation, Distribution, & Logistics Program of Study

Bismarck High School Career Cluster Program of Study

This Program of Study Template can serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. **Ask your high school counselor to help you fill in the required courses you need to graduate.**

Grade	English 8 semesters	Math 6 semesters	Science 6 semesters	Social Studies 6 semesters	Other Required Courses, Recommended Electives	Career & Technical Courses and/or Degree Major Courses	SAMPLE Occupations Relating to this Pathway
9	Comm Arts I	High School Math	High School Science	High School S.S.	Personal Finance Computer Science Check with your high school counselor for additional course offerings	Ask your counselor about course options	<ul style="list-style-type: none"> ▶ Assembler ▶ Boilermaker ▶ Design Engineer ▶ Environmental Engineer ▶ Foundry Worker ▶ Freight, Stock and Material Mover ▶ Health and Safety Representative ▶ Industrial Machinery Mechanic ▶ Inspector ▶ Labor Relations Manager ▶ Logistician ▶ Manufacturing Technician ▶ Pattern and Model Maker ▶ Production Manager ▶ Quality Control Technician ▶ Safety Engineer ▶ SPC Coordinator ▶ Tool and Diemaker ▶ Traffic Manager ▶ Welder
10	Comm Arts II	High School Math	High School Science	High School S.S.	Personal Finance Computer Science Check with your high school counselor for additional course offerings	Ask your counselor about course options	
11	Comm Arts III *English Comp I *Public Speaking	High School Math Pre-College Algebra *College Algebra *College Trig	High School Science *General Biology –	High School S.S. – Government History *Am. College History I & II *Political Systems	*Personal Finance *Computer Science (Available as Dual Enrollment)	*Unitec - Collision Repair Technology, Electronics Technology, Automotive Technology, Welding Technology *Ask your counselor about additional college course offerings *Farmington PLTW Courses	
12	Senior Comm Arts & Comm Arts elective *English Comp II *Intro To Literature	High School Math Pre- College Algebra *College Algebra *College Trig	High School Science *Intro to Astronomy, Oceanography, Physics	High School S.S – Government History *College Am. History I & II *Political Systems	*Personal Finance *Computer Science (Available as Dual Enrollment)	*Unitec - Collision Repair Technology, Electronics Technology, Automotive Technology, Welding Technology *Ask your counselor about additional college course offerings *Farmington PLTW Courses	

***Dual Credit courses can often be substituted for high school credit. Check with your Counselor.**

***Dual Enrollment courses can be taken online or on a MAC campus.**

Assessments/Certifications: College Placement Assessments, Compass, ACT, SAT

Clubs/Extracurricular Activities: Ask your Counselor what is available at your school.

CTSO(s): FBLA FFA TSA Skills USA

Work-Based Learning: After School Employment Internship/Mentorship Job Shadowing Service Learning Supervised Business Experience

Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Sample Career Specialties / Occupations	<p>Air/Space Transportation: Transportation Managers (Air) Commercial Pilots Flight Engineers Flight Attendants Dispatchers (Air) Traffic Managers Air Traffic Controllers Aircraft Cargo Handling Supervisors Airfield Operations Specialists</p> <p>Rail Transportation: Transportation Managers (Rail) Dispatchers (Rail) Traffic Managers Locomotive Engineers Locomotive Firers Railyard Conductors and Yarmasters Railroad Brake, Signal and Switch Operators Railyard Engineers, Dinkey Operators, and Hostlers</p> <p>Water Transportation: Transportation Managers (Water) Dispatchers (Water) Traffic Managers Captains Mates Pilots of Water Vessels Sailors and Marine</p>	<p>Oilers Able Seamen Ordinary Seamen Ship and Boat Captains Ship Engineers Bridge and Lock Tenders</p> <p>Road Transportation: Transportation Managers (Road) Dispatchers (Truck/Bus/Taxi) Traffic Managers Truck Drivers (Tractor-Trailer) Truck Drivers (Light or Delivery Services) Bus Drivers (Transit and Intercity) School Bus Drivers Taxi Drivers and Chauffeurs</p> <p>Transit Systems: Transportation Managers (Mass Transit) Traffic Managers Subway and Streetcar Operators</p>	<p>Logisticians Logistics Managers Logistics Engineers Logistics Analysts Logistics Consultants International Logistics Specialists</p>	<p>Warehouse Managers Storage and Distribution Managers Industrial and Packaging Engineers Traffic, Shipping and Receiving Clerks Production, Planning, Expediting Clerks First-Line Supervisors/Managers of Helpers Laborers, and Material Movers (Hand) First-Line Supervisors /Managers of Transportation and Material (Moving Machine and Vehicle Operators) Laborers and Freight, Stock and Material Movers (Hand) Car, Truck and Ship Loaders Packers Packagers (Hand)</p>	<p>Facility: Facility Maintenance Managers and Engineers Industrial Equipment Mechanics Industrial Electricians Electrical Technicians</p> <p>Mobile Equipment: (General) Mobile Equipment Maintenance Managers Electrical and Electronic Installers and Repairers (Transportation Equipment) Mobile Heavy Equipment Mechanics (Air/Space) Aerospace Engineering and Operations Technicians Aircraft Mechanics and Service Technicians Airframe Mechanics Power Plant Mechanics Aircraft Engine Specialists Avionics Technicians (Water) Ship Mechanics and Repairers Motorboat Mechanics Automotive/Truck Mechanics and Body Repairers (Rail) Rail Car Repairers Signal and Track Switch Repairers Rail Locomotive Mechanics and Repairers (Road) Electronic Equipment Installers and Repairers (Motor Vehicle)</p>	<p>Electronic Equipment Installers and Repairers (Motor Vehicle) Automotive Body and Related Repairers Automotive Service Technicians and Mechanics Automotive Master Mechanics Automotive Specialty Technicians Bus and Truck Mechanics and Diesel Engine Specialists Motorcycle Mechanics Bicycle Repairers</p>	<p><u>General—</u> Intermodal Urban and Regional Planners Civil Engineers Engineering Technicians Surveying and Mapping Technicians Government Service Executives Environmental Compliance Inspectors <u>Air/Space</u> Air Traffic Controllers Aviation Inspectors <u>Road</u> Traffic Engineers Traffic Technicians Motor Vehicle Inspectors Freight Inspectors <u>Rail</u> Railroad Inspectors <u>Water</u> Marine Cargo Inspectors Vessel Traffic Control Specialists <u>Transit</u> Public Transportation Inspectors</p>	<p>Health and Safety Managers Industrial Health and Safety Engineers Environmental Scientists and Specialists Environmental Science and Protection Technicians Environmental Managers and Engineers Environmental Compliance Inspectors Safety Analysts</p>	<p>Marketing Managers Sales Managers Sales Representatives of Transportation/Logistics Services Reservation, Travel and Transportation Agents Cargo and Freight Agents Customer Service Managers Cashiers, Counter and Rental clerks</p>
	Path-ways	Transportation Operations	Logistics Planning and Management Services	Warehousing and Distribution Center Operations	Facility and Mobile Equipment Maintenance	Transportation Systems/ Infrastructure Planning, Management, and Regulation	Health, Safety and Environmental Management	Sales and Service	
Cluster K&S	<p>Cluster Knowledge and Skills</p> <p>•Academic Foundations •Communications •Problem Solving and Critical Thinking •Information Technology Applications • Safety, Health and Environmental •Leadership and Teamwork •Ethics and Legal Responsibilities •Employability and Career Development •Technical Skills</p>								