Aviation Technology Pathway

ACADEMY OF DESIGN, ENGINEERING AND TRANSPORTION

Our MISSION
Educating all learners for tomorrow's world.

Pathway Experience

The Aviation Technology Pathway investigates the science, design, and skills of the aviation industry. This program is intended to provide a pathway into professional pilots, air traffic control, unmanned aerial vehicles and numerous aviation-related careers. Learners may earn dual credit, industry certifications, prepare for college, and experience local industry careers through on-site field trips.

HIGH-WAGE, HIGH-SKILL, AND HIGH-DEMAND CAREERS	
Transportation Operations	Pilot • Flight Engineer • Truck Driver • Bus Driver • Dispatchers • Air Traffic Controller • Transportation Managers • Locomotive Engineer • Flight Attendant
Transportation Systems/Infrastructure Planning, Management & Regulation	Aviation Inspector • Logistics System Manager • Surveying and Mapping Technician • Motor Vehicle Inspector• Transportation Engineer • Freight Inspector

PROGRAM OF STUDY: AVIATION TECHNOLOGY				
SUBJECT	**9th Grade**	**10th Grade**	**11th Grade**	**12th Grade**
Choice Ready Planning	Freshman Experience HS 101	Choice Ready Career & Financial Literacy	Cybersecurity & College Ready	Senior Experience & Profile of a Graduate
CTE Pathway	**Intro to Engineering**	**Aviation I or UAV***	**Aviation I or Aviation II**	**Aviation II or Unmanned Aerial Vehicles***
Language Arts	**4 Credits required:** core academic, electives, and dual credit are available.			
Math	**3 Credits required:** core academic, electives, and dual credit are available.			
PE/Health	**1.5 Credits required:** core academic, electives, and dual credit are available.			
Science	**3 Credits required:** core academic, electives, and dual credit are available.			
Social Studies	**3.5 Credits required:** core academic, electives, and dual credit are available.			
Other Electives	Other electives for pathway preparation: Business, Construction, Engineering, Digital Technology, Marketing, Manufacturing, World Language			

Aligned Career and Technical Student Organization(s)

Drone Club, SkillsUSA

College & Career Experiences – Accessible to ALL Academy Program of Study Students

4-year rolling plan, Classroom Guest Speakers, Campus and Industry Tours, Career Interest Inventory, College Application, R U Ready ND exploration, Compass Tool Profiles, College & Career Research, College and industry representative visits during advisory and lunch and learn session, Job Shadow/ Professional Interview/CareerViewXR, Scholarship & Financial Aid, Senior Capstone/Profile of a Graduate Reflection

Early Postsecondary Courses – Accessible to ALL Academy Program of Study Students

Review the West Fargo Course Catalog for dual credit course and advanced placement course offerings. (link)

Professional Certification(s)

FAA Part 107

Aviation Coordinated Plan of Study – ND Scholarship	
Course Name	**Credit**
Aviation I	1
Aviation II	1
Unmanned Aerial Vehicles	.5
Cooperative Work Experience	.5 to 4

Is this Academy for you?

- Are you curious about how things are made or how they work?
- Do you enjoy creating, inventing, or imagining new and different ways to do things?
- Do you consider yourself a leader who could be part of a team?
- Are you interested in technology and its ongoing innovation?
- Do you like to follow directions and use precise detail to complete a task?

North Dakota Transportation, Distribution & Logistics Related Postsecondary Programs			
Pathway	**Associate's Degree or Less**	**Bachelor's Degree**	**Master's Degree or More**
Facility & Mobile Equipment Maintenance	♦ Auto Collision Technology (BSC, NDSCS) ♦ Auto Technology (BSC, BJCC, CCCC, LRSC, NDSCS, UTTC) ♦ Diesel Technology (NDSCS) ♦ Electronics Technology (BSC) ♦ Electronics & Telecommunications Technology (BSC) ♦ Facilities Maintenance (BJCC) ♦ Geographic Information Systems Technology (BSC) ♦ Power Sport Technology (NDSCS) ♦ Transportation Technician (WSC)		
Logistics Planning & Management Services	♦ Information Management Systems (DCB, NHSC, RC) ♦ Information Processing Specialist (BSC) ♦ Information Technology (DCB, LRSC, NDSCS, WSC) ♦ Management Information Systems (NDSCS)	♦ Business Administration/Business Process Integration Management (VCSU) ♦ Business Management (UM) ♦ Information Technology Management (DSU, UM) ♦ Management Information Systems (MiSU, NDSU, RC, UND) ♦ Operations/Supply Chain & Logistics (RC, UND)	♦ Business Administration/Project Management (UM) ♦ Transportation and Logistics (NDSU)
Sales & Service	♦ Business Management (WSC) ♦ Marketing & Management transfer (DCB, LRSC, RC)	♦ Airport Management (UND) ♦ Marketing (MiSU, NDSU, RC, UM, UND)	♦ Merchandising (NDSU)
Transportation Operations	♦ Airline Transport Pilot (FFS) ♦ CDL/Heavy Equipment (CCCC, NHSC, SBC, TMCC, UTTC) ♦ Commercial Pilot (EATC, FFS, GFKFS) ♦ Heavy Equipment Operator (UTTC) ♦ Instrumental/Multi-Engine Rating (EATC, FFS, GFKFS) ♦ Private Pilot (EATC, FFS, GFKFS) ♦ Recreational/Sport Pilot (EATC, FFS)	♦ Air Traffic Control (UND) ♦ Commercial Aviation (UND) ♦ Aviation Management (UND) ♦ Aviation Technology Management (UND) ♦ Flight Education (UND) ♦ Unmanned Aircraft Systems Operations (UND)	♦ Aerospace Sciences (UND) ♦ Aviation (UND)
Transportation Systems/ Infrastructure Planning, Management & Regulation		♦ Airport Management (UND) ♦ Aviation Technology Management (UND) ♦ Operations/Supply Chain & Logistics (RC, UND) ♦ Public Policy	♦ Transportation and Urban Systems (NDSU)