



Transportation, Distribution & Logistics Career Cluster

| Pathway | OCCUPATIONS RELATING TO THIS CAREER CLUSTER |
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| Facility & Mobile Equipment Maintenance | Automotive Service Technician • Collision Repair Technician • Diesel Engine Specialist • Service Manager • Electrical/Electronic Technician • Industrial Electrician |
| Health, Safety & Environmental Management | Industrial Health & Safety Engineer • Safety Analyst • Environmental Scientist • First Responder • Environmental Compliance Specialist • Risk Manager |
| Logistics Planning & Management Services | Logistic Manager • Logistics Analyst • Logistician • Logistic Consultant • International Logistics Specialists • Logistic Engineer |
| Sales & Service | Marketing Manager • Sales Representative • Cargo and Freight Agent • Customer Service Representative • Customer Order and Billing Clerk • Sales Manager |
| 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 |
| Warehousing & Distribution Center Operations | Warehouse Manager • Shipping & Receiving Clerk • Production/Planning/Expediting Clerk • Laborer & Material Handler • Industrial and Packaging Engineers |

HIGH SCHOOL COURSE REQUIREMENTS

| English | Math | Science | Social Studies | Physical Education |
|---|---|---|--|---|
| Four units required to graduate; including literature, composition, and speech. | Three units required to graduate | Three units required to graduate. | Three units required to graduate. | One unit required to graduate. |
| Choices may include: | Choices may include: | Required Units: | Required Units: | Required Units: |
| <input type="checkbox"/> English 9 05071 | <input type="checkbox"/> Algebra I 11031 | <input type="checkbox"/> Physical Science 13030 | <input type="checkbox"/> U.S. History 15085 | <input type="checkbox"/> Physical Education 1 unit 08030 |
| <input type="checkbox"/> English 10 05072 | <input type="checkbox"/> Geometry 11120 | <input type="checkbox"/> Biology 13020 | <input type="checkbox"/> American Government ½ unit AND 15111 | OR |
| <input type="checkbox"/> English 11 05073 | <input type="checkbox"/> Advanced Algebra 11032 | <input type="checkbox"/> One additional unit of Science | <input type="checkbox"/> Economics ½ unit 15060 | <input type="checkbox"/> Physical Education ½ unit AND 08030 |
| <input type="checkbox"/> English 12 05074 | | OR | OR | <input type="checkbox"/> Health ½ unit 18010 |
| | | <input type="checkbox"/> Biology 13020 | <input type="checkbox"/> Problems of Democracy 1 unit 15201 | |
| | | <input type="checkbox"/> Chemistry 13031 | Additional units may include: | |
| | | <input type="checkbox"/> Physics 13042 | <input type="checkbox"/> Civics | |
| | | | <input type="checkbox"/> Geography | |
| | | | <input type="checkbox"/> Psychology | |
| | | | <input type="checkbox"/> World History | |

| Career & Technical Education Electives | Extended Learning Opportunities | |
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| Three units of foreign or Native American language, fine arts, or career and technical education are required to graduate. | | |
| Trade, Industry & Technical Education | <input type="checkbox"/> Recreational Small Engine Technology I 17310 | School-Based: |
| <input type="checkbox"/> Aviation Technology I 17812 | <input type="checkbox"/> Recreational Small Engine Technology II 17311 | <input type="checkbox"/> SkillsUSA |
| <input type="checkbox"/> Aviation Technology II 17813 | <input type="checkbox"/> Commercial Driver License 17045 | <input type="checkbox"/> TSA |
| <input type="checkbox"/> Auto Tech I 17032 | | <input type="checkbox"/> FCCLA |
| <input type="checkbox"/> Auto Tech II 17037 | Business Education | <input type="checkbox"/> DECA |
| <input type="checkbox"/> Auto General Service Tech I 17038 | <input type="checkbox"/> Communication Technologies 14028 | <input type="checkbox"/> FFA |
| <input type="checkbox"/> Auto General Service Tech II 17039 | <input type="checkbox"/> Business Communication 14060 | <input type="checkbox"/> FBLA |
| <input type="checkbox"/> Electrical Technology 17125 | <input type="checkbox"/> Operations Management 14234 | <input type="checkbox"/> Career Research |
| <input type="checkbox"/> Diesel Technology 17040 | | <input type="checkbox"/> Cooperative Work Experience |
| <input type="checkbox"/> Electronics Technology I 17150 | Information Technology Education | |
| <input type="checkbox"/> Electronics Technology II 17151 | <input type="checkbox"/> Intro to IT 27101 | |
| <input type="checkbox"/> Electronics Technology III 17152 | <input type="checkbox"/> IT Essentials 2 27220 | |
| <input type="checkbox"/> Welding Technology I 17236 | <input type="checkbox"/> Geographic Info Systems (GIS) 27400 | |
| <input type="checkbox"/> Welding Technology II 17237 | | |
| <input type="checkbox"/> Parts & Merchandise Management 17035 | Technology & Engineering Education | |
| <input type="checkbox"/> Auto Collision Tech I 17030 | <input type="checkbox"/> Energy & Transportation Technology 10331 | |
| <input type="checkbox"/> Auto Collision Tech II 17031 | <input type="checkbox"/> Communication Technology 10251 | |
| <input type="checkbox"/> Diesel Tech 17040 | | |
| | | Community Based: |
| | | <input type="checkbox"/> Mentorship |
| | | <input type="checkbox"/> Volunteer |
| | | <input type="checkbox"/> Part-time Employment |
| | | <input type="checkbox"/> Service Learning Project |
| | | <input type="checkbox"/> Job Shadow |
| | | <input type="checkbox"/> Internship |

North Dakota Transportation, Distribution & Logistics Related Postsecondary Programs

| Pathway | Certificate or Associate's Degree | Bachelor's Degree | Master's Degree or More |
|--|--|--|---|
| Facility & Mobile Equipment Maintenance | <input type="checkbox"/> Auto Body Repair and Refinishing Technology (NDSCS) <input type="checkbox"/> Auto Collision Technology (BSC) <input type="checkbox"/> Auto Technology (BSC, BJCC, LRSC, NDSCS, UTTC) <input type="checkbox"/> Case IH Technology (NDSCS) <input type="checkbox"/> Caterpillar Dealer Service Technician (NDSCS) <input type="checkbox"/> Electronics Technology (BSC) <input type="checkbox"/> Electronics/Telecommunications Technology (BSC) <input type="checkbox"/> General Diesel Technology (NDSCS) <input type="checkbox"/> Geographic Information Systems Technology (BSC) <input type="checkbox"/> John Deere Technology (NDSCS) <input type="checkbox"/> Komatsu Technology (NDSCS) <input type="checkbox"/> Power Sports Technology (NDSCS) <input type="checkbox"/> Transportation Technology (WSC) <input type="checkbox"/> Unmanned Aircraft Systems (NDSCS) | | |
| Health, Safety & Environmental Management | | <input type="checkbox"/> Environmental Design (NDSU) <input type="checkbox"/> Environmental Health (DSU) | |
| Logistics Planning & Management Services | <input type="checkbox"/> Information Processing Specialist (BSC) <input type="checkbox"/> Information and Communications Technology (NDSCS) <input type="checkbox"/> Information Technology (DCB, LRSC, WSC) <input type="checkbox"/> Management Information Systems transfer (NDSCS) | <input type="checkbox"/> Business Process Integration Management (VCSU) <input type="checkbox"/> Information Technology Management (UM) <input type="checkbox"/> Management Information Systems (MiSU, NDSU) <input type="checkbox"/> Operations/Supply Chain & Logistics Mgmt. (RU, UND) | <input type="checkbox"/> Project Management (UM) <input type="checkbox"/> Public Administration (UM) <input type="checkbox"/> Transportation and Urban Systems (NDSU) |
| Sales & Service | <input type="checkbox"/> Business Management (NDSCS, RU, WSC) <input type="checkbox"/> Marketing & Management transfer (DCB) | <input type="checkbox"/> Airport Management (UND) <input type="checkbox"/> Marketing (MiSU, NDSU, RU, UM, UND) | |
| Transportation Operations | <input type="checkbox"/> Airline Transport Pilot (FFS) <input type="checkbox"/> Commercial Pilot (EATC, FFS, GFKFS) <input type="checkbox"/> Commercial Vehicle Operations (TMCC) <input type="checkbox"/> CDL/Heavy Equipment (CCCC, SBC, TMCC, UTTC) <input type="checkbox"/> Instrumental/Multi-Engine Rating (EATC, FFS, GFKFS) <input type="checkbox"/> Private Pilot/Drone Training (EATC, FFS, GFKFS) <input type="checkbox"/> Recreational/Sport Pilot (EATC) | <input type="checkbox"/> Air Traffic Management (UND) <input type="checkbox"/> Commercial Aviation (UND) <input type="checkbox"/> Aviation Management (UND) <input type="checkbox"/> Aviation Studies (UND) <input type="checkbox"/> Unmanned Aircraft System Operations (UND) | <input type="checkbox"/> Aerospace Sciences (UND) <input type="checkbox"/> Aviation (UND) <input type="checkbox"/> Unmanned Aircraft Systems Engineering (UND) |
| Transportation Systems/Infrastructure Planning, Management & Regulation | | <input type="checkbox"/> Airport Management (UND) | <input type="checkbox"/> Public Administration (UND) <input type="checkbox"/> Transportation and Urban Systems (NDSU) |
| Warehousing & Distribution Center Operations | <input type="checkbox"/> Management (BSC) <input type="checkbox"/> Business Management (NDSCS) | <input type="checkbox"/> Business Process Integration Management (VCSU) | |

North Dakota Postsecondary Institutions Offering Transportation, Distribution & Logistics Related Programs

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| BSC Bismarck State College | www.bismarckstate.edu | NDSCS ND State College of Science | www.ndscs.edu |
| BJCC Burdick Job Corps Center | http://quentinnburdick.jobcorps.gov | NDSU ND State University | www.ndsu.edu |
| CCCC Cankdeska Cikana Community College | www.littlehoop.edu | NHSC Nueta Hidatsa Sahnish College | http://nhsc.edu |
| DCB Dakota College at Bottineau | www.dakotacollege.edu | RU Rasmussen University | www.rasmussen.edu |
| DSU Dickinson State University | www.dickinsonstate.edu | SBC Sitting Bull College | www.sittingbull.edu |
| EATC Executive Air Taxi Corporation | www.executive-air.com | TMCC Turtle Mountain Community College | www.tm.edu |
| FFS Fargo Flight School | www.fargojet.com/school | UTTC United Tribes Technical College | www.uttc.edu |
| GFKFS GFK Flight Support | www.flygfk.com | UM University of Mary | www.umary.edu |
| LRSC Lake Region State College | www.lrsc.edu | UND University of North Dakota | www.und.edu |
| MAC Minot Aero Center | http://minotaerocenter.com | VCSU Valley City State University | www.vcsu.edu |
| MiSU Minot State University | www.minotstate.edu | WSC Williston State College | www.willistonstate.edu |