Transportation, Distribution, and Logistics Individual Graduation Plan

FACILITY AND MOBILE EQUIPMENT MAINTENANCE*

This career cluster plan of study is a source of information as you develop your own personal learning plan. This plan lists EXAMPLES of suggested coursework. Courses will vary according to the availability in each school district. Plans of study should meet high school graduation requirements as well as entrance requirements for a variety of postsecondary options within this career cluster.

Boise SD

■ Coursework

Subject	9th Grade	10th Grade	11th Grade	12th Grade	Advanced Coursework for Postsecondary Credit
Language Arts *(9 credits)*	English 9	English 10 Speech	English 11	English 12	Tech Prep Advanced Placement
Mathematics *(8 credits)*	Algebra I	Geometry	Algebra II Pre-Calculus	Calculus Statistics	Tech Prep Advanced Placement
Science *(6 credits)*	Earth Science	Biology	Chemistry Anatomy/Physiology	Physics	Tech Prep Advanced Placement
Social Studies *(4 credits)*			US History 11	American Government Economics	Tech Prep Advanced Placement
Idaho Professional-Technical Education Classes	Teen Living Career & Personal Development Technology Education	TI 0601 Heavy Equip & Diesel I	TI 0602 Heavy Equip & Diesel II	TI 0603 Heavy Equip & Diesel III TI 9806 Occ for Hvy Equip Diesel	Tech Prep: Boise State University
Additional Requirements or Electives	World History Geography	US History 10 Physical Education Health Foreign Language Computer Technology	Physical Education Health Foreign Language Computer Technology	Computer Technology	Tech Prep Advanced Placement

■ Extended Learning

School-Based	SkillsUSA DECA Junior Engineering Technical Society (JETS)	Career Days Discovery Engineering Math Club Science Club	Career Interviews FFA MathCounts Senior Project	Career Research Internships OPPD/NPPD Power Drive	Cooperative Education Job Shadowing Service Learning Project
Community-Based	Mentorships		Part-Time Employment		

Italicized courses represent repeat offering (Take once); • Often qualify for dual credit/tech prep college credits; Underlined courses are highly recommended for this pathway

■ Coursework					
Major	Year 13	Year 14	Year 15	Year 16	Occupations Relating to This Pathway
BSU Heavy Equipment Tech Option	HETEC 100 Shop Practices ** HETEC 105 Electrical Systems HETEC 110 Engines/Engine Controls HETEC 120 Mobile Hydraulic Systems HETEC 130 Powertrains HETEC 140 Preventive Maintenance/HVAC ENGL 101 English Composition APPACAD 111 Applied Communication ** Area I or II core course in any field	IPDT 106 Driving Skills Devel. HETEC 220 Adv. Electrical Systems HETEC 230 Adv. Engines/ Engine Controls HETEC 240 Adv. Powertrain HETEC 250 Adv. Hydraulic Systems HETEC 260 Adv. Preventive Maintenance/HVAC HETEC 280 Heavy Equipment Capstone Area III Core course in mathematics Area I,II, or III core course in any field (Core credits must total 16 for A.A.S. degree)	**Bachelor of Applied Science (AAS + 2 years of add'l coursework)** ENGL102 English Composition 2 total credits in Area I core Arts and Humanities Math course from A.A.S degree + additional 8 credits of Area III Science or Math courses in at least one other field 9 additional credits of Area II core Social Science Areas of Emphasis: Of the required 34 upper-division credits, a minimum of 15 credits must be in one area of emphasis OR a minimum of 18 credits with 9 credits in each of two areas of emphasis OR a minimum of 15 credits interdisciplinary (Students must see their advisors for approved areas of emphasis). 15-18 credits Upper-division courses (No more than 9 hours may come from BASCI courses.) Technical courses from AAS degree 40 Electives to total 128 credits.		Aircraft mechanics and service technicians Bus and truck mechanics Farm equipment mechanics Mobile heavy equipment mechanics Rail car repairers Industrial machinery mechanics
Option	HETEC 100 Shop Practices** HETEC 105 Electrical Systems TTEC 110 Engines/Engine Controls TTEC 120 Mobile Hydraulics/ Braking Systems** TTEC 130 Drivetrains/ Steering & Suspension TTEC 140 Preventive Maintenance/ HVAC ENGL 101 English Composition APPACAD 111 Applied Communication Area I or II core course in any field	IDPT 106 Driving Skills Devel. TTEC 220 Adv. Electrical Systems TTEC 230 Adv. Engine/ Engine Controls TTEC 240 Adv. Drivetrain/ Steering and Suspension TTEC 250 Adv. Braking Systems TTEC 260 Adv. Preventive Maintenance/ HVAC TTEC 280 Heavy Duty Truck Capstone Area III Core course in mathematics Area I, II, or III core course in any field (Core credits must total 16 for A.A.S. Degree)	**Bachelor of Applied Science (AAS + 2 years of add'l coursework)** ENGL102 English Composition 2 total credits in Area I core Arts and Humanities Math course from A.A.S degree + additional 8 credits of Area III Science or Math courses in at least one other field 9 additional credits of Area II core Social Science Areas of Emphasis: Of the required 34 upper-division credits, a minimum of 15 credits must be in one area of emphasis OR a minimum of 18 credits with 9 credits in each of two areas of emphasis OR a minimum of 15 credits interdisciplinary (Students must see their advisors for approved areas of emphasis). 15-18 credits Upper-division courses (No more than 9 hours may come from BASCI courses.) Technical courses from AAS degree 40 Electives to total 128 credits.		