CareerClusters™ PATHWAYS TO COLLEGE & CAREER READINESS
Transportation, Distribution & Logistics

Commonwealth of Virginia Plan of Study

Student Name: _____
Roanoke County Public Schools
Date: March 2024

Cluster: Transportation, Distribution, and Logistics **Pathway:** Facility and Mobile Equipment Maintenance

Career Pathway Plans of Study can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

Education Levels	GRADE	English/ Language Arts	Mathematics	Science	Social Studies/ Science	Other Req. Courses Recommended Electives	Recommended CTE Courses Source: Administrative Planning Guide http://www.cteresource.org/apg/	SAMPLE – Occupations Relating to This Pathway: http://www.doe.virginia.gov/instruction/career_technical/career_clusters/sample_plans_study/index.shtml http://www.careerclusters.org http://www.cteresource.org/cpg/
		NOTE: Indicate State Course Titles and Codes						
		Graduation Requirements: http://www.doe.virginia.gov/instruction/graduation/index.shtml						
MIDDLE	7	English 7 (1110) ADV English 7	Math 7(3111) Pre-Algebra 7 ADV Algebra 1	Life Science (4115) ADV Life Science	U S History (2354) ADV US History			Aerospace Engineering/Operations Technician - Aircraft Body/Bonded Structure Repairer - Aircraft Mechanic/Service Technician - Automotive Body/Related Repairer - Automotive Glass Installer/Repairer - Automotive Service Technician/ Mechanic - Avionics Technician - Bus/Truck Mechanic - Collision Repair Technician - Diesel Engine Specialist - Diesel Service Technician - Electrical/Electronic Installer/Repairer - Electrical/Electronic Technician - Facility Maintenance Manager/ Engineer - Industrial Electrician - Industrial Equipment Mechanic - Motorboat Mechanic - Off-Road Equipment Technician - Rail Locomotive/Car Mechanic/ Repairer - Service Manager - Service Writer - Ship Mechanic/Repairer - Small Engine Mechanic - Stationary Engineer
	8	English 8 (1120) ADV English 8	Math 8(3112) Pre-Algebra 8 ADV Algebra 1 ADV Geometry	Physical Science (4125) ADV Phys Science	Civics & Economics (2357) ADV Civics			
Career Assessment: Identify an appropriate career assessment instrument:								
	9	English 9 (1130) CB English 9 ADV English 9	Algebra I (3130) Alg Readiness Geometry (3143) ADV Algebra 1 ADV Geometry AFDA Pre AP Algebra 2	Earth Science (4210) ADV Earth Science	World Geography I (2210) ADV World Geography Pre AP World History 1	Economics & Personal Finance (6120) Health & PE (2 years) Foreign Language (3 years) Other Electives to Complement Pathway (CoreAcademic and CTE):	Auto Service Technology I Auto Service Technology II Auto Service Technology III Or Motorsports Technology I Motorsports Technology II Motorsports Technology III	
	10	English 10 (1140) ADV English 10 CB English 10	Geometry (3143) Geom Readiness Alg 1 Alg Readiness ADV Algebra 1 ADV Geometry AFDA ADV Algebra 2 Algebra 2 College Algebra Pre-Calc AP Calc AB AP Comp Science AP Stats	Biology (4310) ADV Biology Chemistry (4410) ADV Chemistry	World History II (2216) ADV World History II AP World History			
	11	English (1150) CB English 11 AP/D English 11	AFDA (3134) Geometry Geom Readiness Algebra II (3135) College Algebra AV Algebra 2 Pre-Calc AP CompScience Computer Math AP Calc AB/BC AP Stats	Chemistry (4410) Bio II: Ecology ADV Chemistry Bio II: A & P Physics AP Physics AP Biology AP Chemistry	US/VA History (2360) AP/D US Hist			
	12	English12 (1160) CB English 12 AP/D English 12	Algebra II AFDA Algebra II (3135) College Algebra ADV Algebra 2 Pre-Calc AP CompScience Computer Math AP Calc AB/BC AP Stats	Physics (4510) Bio II: Ecology Bio II: A & P Physics AP Physics AP Biology AP Chemistry	US/VA Government (2440) AP/D US Government			

High school courses in the pathway offered locally for college credit should be coded: DE (Dual Enrollment) and/or VC (Validated Credit)

List related certifications/credentials approved by VDOE and offered locally:	Additional Learning Opportunities:
http://www.cteresource.org/apg (Go to Certification – License Section) Workplace Readiness Skills for the Commonwealth (CTECS) W!SE Financial Literacy	CTSO Organization(s): ☐ DECA ☐ FBLA ☐ FCCLA ☐ FFA ☐ FEA ☐ HOSA ☐ SkillsUSA ☐ TSA **Work-Based Learning:** ☐ Career Research ☐ Cooperative Education ☐ Internship ☐ Mentorship ☐ Job Shadowing ☐ Service Learning Project ☐ Student Apprenticeship
Postsecondary: Placement Assessments such as Virginia Placement Test	College Entrance Exams such as ACT & SAT

POSTSECONDARY

SAMPLE POSTSECONDARY PROGRAMS RELATED TO THIS CAREER PATHWAY

Individual plans must include locally agreed upon courses at the postsecondary level (See page 2)

Pathway	Associate Degree CollegeCertificate Apprenticeship	Bachelors Degree	Postgraduate Degree
Facility and Mobile Equipment Maintenance	**Automotive Analysis and Repair Career Studies Certificate**	(Determined Individually)	(Determined Individually)

College: Virginia Western Community College **School Division(s):** Roanoke County

Postsecondary: Placement Assessments such as Virginia Placement Test

POSTSECONDARY - COMMUNITY COLLEGE or APPRENTICESHIP - Determined Locally

	Required Courses or Recommended Electives							
POSTSECONDARY PLAN OF STUDIES MUST INCLUDE POSTSECONDARY ACADEMIC, CTE, AND OTHER ELECTIVE COURSES APPROPRIATE FOR AN ASSOCIATE DEGREE.								
Year 1 1st Sem	AUT 241 - Automotive Electricity I 4 CR	AUT 265 - Automotive Braking System 4 CR [1] *(or AUT 266)*						
Year 1 2nd Sem	AUT 126 - Auto Fuel and Ignition Systems 5 CR							
Year 2 1st Sem	AUT 266 - Auto Alignment, Suspension and Steering 4 CR [1] *(or AUT 265)*							
Year 2 2nd Sem								

College courses offered locally in the high school for college credit should be coded: DE (Dual Enrollment) and/or VC (Validated Credit)

* STUDENTS CAN SELECT FROM OTHER COURSES WITHIN THIS CONTENT AREA

Certificate Options:	Additional Learning Opportunities: