

# Scope and Sequence Motorcycle, Marine & Small Engine Tech



Academic Subjects – Career success and postsecondary education success require the same level of college prep coursework. The Pennsylvania Department of Education’s (PDE) focus is to ensure that every student is prepared for college and a career. Academic courses such as applied math or general science cannot be listed on the program’s scope and sequence. PDE’s goal is to have all students perform at the competent or advanced level on the PSSA, and earn the Pennsylvania Skills Certificate on the end-of-program assessment.

Subject (Hours)	Secondary School				Postsecondary Institution			
	Grade 9 (Hours)	Grade 10 (Hours)	Grade 11 (Hours)	Grade 12 (Hours)	First Semester	Second Semester	Third Semester	Fourth Semester
Technical		Engine Operations and Safety Engine Operations	Welding	Servicing Suspension, Tires, Wheels & Brakes	AMT 111: Manual Transmission & Transaxle Principle	AMT 122: Engine Principles	AMT 235: Engine Service	AMT 241: Automotive Chassis Service
		Basic Hand Tools	Lawn & Garden Equipment Repair	Engine Parts & Rebuilding	AMT 112: Brake Systems	AMT 123: Basic Fuel & Emission Control Systems	AMT 239: Engine Repair & Overhaul	AMT 242: Vehicle Safety Inspection
		Manuals, Ordering & Record Keeping	Engine Overhaul & Service	Electrical & Tuneups	AMT 113: Steering and Suspension	AMT 124: Automotive Electrical/Electronic Principle	AMT 263: Electronic Power train Systems Service	AMT 274: Automotive Air Conditioning Systems & Ser
		Principles and Design of 2 & 4 Stroke Engine	Chainsaw Service & Repair	Exhaust, Carburetor & Cooling Service	AMT 119: Fundamentals of Automatic Transmissions	AMT 126: Engine Electrical Systems		AMT 276: Electrical/Electronic Accessory Service
		Lubrication Systems	Snowmobile Services	Marine Repair				
		Starting & Troubleshooting Electrical	Motorcycle Repair	Certification Prep				
		Cooling Systems	Marine Repair	Small Engine Training				
		Fuel Systems	Job Seeking/Keeping Skills	Job Seeking/Keeping Skills				
English	College Prep English 9	College Prep English 10	College Prep English 11	College Prep English 12		ENL 111: English Comp I	ENL 201: Technical & Professional Communication	
Math	Algebra I	Geometry	Algebra II	Trigonometry	MTH 124: Technical Algebra & Trig I			
					MTH 180: College Algebra and Trig I			
Science	Accl Integrated Science	Biology	Chemistry					PHS 103: Physics Survey
								PHS 114: Physics w/Technological Applications
Humanities	Citizenship	World Cultures	American History I	American Government			_HUM:Elective:HUM/SSE/ART/FOUR/AEE	
Other	Physical Education	Physical Education	Physical Education	Physical Education		FIT:Elective: Fitness		
	Health	Health	Driver's Ed Theory					