

Scope and Sequence Motorcycle, Marine & Small Engine Technology

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.

	SECONDARY				POSTSECONDARY based on PENN COLLEGE OF TECHNOLOGY			
	Ninth Grade	Tenth Grade	Eleventh Grade	Twelfth Grade	Semester One	Semester Two	Semester Three	Semester Four
Technical Units		Engine Operations Basic Hand Tools Manuals, Ordering & Record Keeping Small Engine Design & Components Lubrication, Fuel, Cooling, Ignition Systems Engine Overhaul Lawn & Garden Equipment Repair Job Seeking/Keeping Skills	Welding Lawn & Garden Equipment Repair Chainsaw Repair & Service Snowmobile Service Motorcycle Repair Marine Job Seeking/Keeping Skills Brake Systems	Drive Trains Certification Prep-OPE Electrical Systems	AMT 111: Manual Transmission & Transaxle Principle AMT 112: Brake Systems AMT 113: Steering and Suspension AMT 119: Fundamentals of Automatic Transmissions	AMT 122: Engine Principles AMT 123: Basic Fuel & Emission Control Systems AMT 124: Automotive Electrical / Electronic Principl AMT 126: Engine Electrical Systems	AMT 235: Engine Service AMT 239: Engine Repair & Overhaul AMT 263: Electronic Powertrain Systems Service	AMT 241: Automotive Chassis Service AMT 242: Vehicle Safety Inspection AMT 274: Automotive Air Conditioning Systems & Ser AMT 276: Electrical/Electronic Accessory Service
English	College Prep English I	College Prep English II	College Prep English III	College Prep English IV		ENL 111: English Comp	ENL 201: Technical & Professional Communication	
Math	Algebra I	Algebra II	Geometry	College Prep Math (recommended)	MTH 124: Technical Algebra & Trig I			

					MTH 180: College Algebra and Trig I			
Science	Biology	Chemistry	Physics					PHS 103: Physics Survey PHS 114: Physics w/Technological Applications
Humanities	Civics	American History	World Studies				_HUM:Elective:H UM/SSE/ART/FO R/AE	
Other Required Courses/ Electives	Foreign Language I (recommended)	Foreign Language II (recommended)				FIT:Elective: Fitness		