PTECH

Types of Degrees	Career Possibilities	9th Grade

➢ Mechanical Technology
➢ Electrical Technology
➢ Mechatronics Technology
	CAD (Computer-Aided Design) Designers
	  ➢ Three dimensional drawings to create the products for tomorrow
	Tool Designers
	  ➢ Creates tools for mass manufacturing products for everything (car parts, electronics, glass and plastics)
	Architectural and Mechanical Drafters
	  ➢ Creating drawing for commercial and residential buildings
	Robotics
	  ➢ Working with robotic tooling during the manufacturing process and programming machinery such as robots, mills, lathes
	Communication Devices
	  ➢ Car stereos, cellular devices, audio and radio frequencies
	Service technicians
	  ➢ Repairing machinery such as 3-D printers, Computer Numerical Control machines, lasers, maintenance and computer control of large industrial machines
	Bio-medical technicians
	  ➢ Building and repair of medical devices (microscope, stethoscopes, heart monitoring cuffs, life-saving devices
	Software technicians
	  ➢ Computer programming and coding, repair maintenance for computers
	Quality control technicians
	  ➢ Ensuring the products work properly
	Research and development
	  ➢ Designing products for mass production and wholesale
		Course work:
		➲ Introduction to Careers
		➲ IED (Introduction to Engineering Design) and/or DDP (Drawing and Design for Production)
		
		Molding students to be better employees and understand how ready they should be to enter the workforce.
		
		Introduces students to all of the different careers available in Central New York pertaining to these degrees, learning to design and build products and systems.
		
		10th Grade
		
		Course work:
		➲ Career Awareness 1 and 2
		➲ CCC CAY 101 at AHS
		➲ CAD (Computer Aided Design)
		
		Guided practice and hands-on learning with machinery.
		
		Building foundations for success, career and exploration readiness, resumes, and interviewing.
		
		11th and 12th Grade
		
		Course work:
		Cayuga Community College courses at CCC campus - may include Engineering 126, 130, or Electronics 103
		
		Qualifications for becoming an engineer, learning about how engineers do their jobs, building, designing and testing different products.