

# Scope and Sequence Computerized Drafting 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.

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		Measuring and Scaled Objects	Inventor Projects	3D Models with Inventor Software	CCD 101: Technical Drawing I	CCD 121: Technical Drawing II	CD 235: Design & Prod. Drawing	CCD 243: Tooling Design and Drawings
		Manual Drafting - Views and Shapes	Solid Materials Project	User Interface, Commands, and Basic Objects	CCD 102: Detailing I	CCD 122: Detailing II	CCD 236: Civil and Structural Drawings	
		Two & Three Dimensional AutoCad	Work Based Learning	Coordinates and Drawing Files to Create Objects		AD 119: 3D CAD and Parametric Modeling Solids		CAD 247: CAD Mgmt & Customization
		Job Seeking/Keeping Skills	Residential design Using Revit	Panning, Zoom and Viewing	MMT 211: Mfg Materials and Processes			
		Sketching and Basic Tools	User coordinate systems	Duplicating and Moving Objects				
				Layers and Linetypes				
				Blocks and Isometric View				
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 180: College Algebra and Trig I	MTH 182: College Algebra and Trig II	
Science	Accl Integrated Science	Biology	Chemistry				PHS 115: College Physics	HS 125: College Physics II
Humanities	Citizenship	World Cultures	American History I	American Government		_SSE: Elective: Social Science		
Other	Physical Education	Physical Education	Physical Education	Physical Education			FIT: Elective: Fitness	
	Health	Health	Driver's Ed Theory					
Math	Algebra I	Geometry	Algebra II	Trigonometry				