

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.

	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		Measuring and scaled Objects Manual Drafting - views and shapes Two & Three Dimensional AutoCad Job Seeking/Keeping Skills sketching and basic tools	3D Models with Inventor Software User interface, commands, and basic objects coordinates and drawing files to create objects panning, zoom and viewing duplicating and moving objects layers and linetypes blocks and isometric view	Inventor Projects solid materials project Work Based Learning Prep Residential Design Using Revit user coordinate systems	CCD 101: Technical Drawing I CCD 102: Detailing	CCD 121: Technical Drawing CCD 122: Detailing AD 119: 3D CAD and Parametric Modeling Solids	CD 235: Design & Prod. Drawing CCD 236: Civil and Structural Drawings	CCD 243: Tooling Design and Drawings CAD 247: CAD Mgmt & Customization
English	College Prep English I	College Prep English II	College Prep English III	College Prep English IV	ENL 111: English Comp I	ENL 201: Technical & Professional Communication		
Math	Algebra I	Algebra II	Geometry	College Prep Math (recommended)		MTH 180: College Algebra and Trig I	MTH 182: College Algebra and Trig II	

Science	Biology	Chemistry	Physics				PHS 115: College Physics	HS 125: College Physics II
Humanities	Civics	American History	World Studies			_SSE: Elective: Social Science		
Other Required Courses/ Electives	Foreign Language I (recommended)	Foreign Language II (recommended)					FIT: Elective: Fitness	