

CAREER PROGRAMS IN TECHNOLOGY AND ENGINEERING EDUCATION

	Technologies									
GROUP 3: ADDITIONAL PROGRAM COURSES										
ADDITIONAL PROGRAM COURSES	Computer Integrated Manufacturing (PLTW)	Cooperative Education	Cooperative Education	Cooperative Education	Cooperative Education	Cooperative Education	Cooperative Education	Cooperative Education	Cooperative Education	Cooperative Education
	Aerospace Engineering (PLTW)									
	Biotechnical Engineering (PLTW)									
	Civil Engineering & Architecture (PLTW)									
	Engineering Design & Development (PLTW)									
	Advanced Design Applications (EbD)									
	Advanced Technological Applications (EbD)									
	Engineering Design (EbD)									
	Cooperative Education									

A quality program delivers all required elements* and a variety of additional elements. CTE program elements include: a sequence of courses* each educational entity offering approved courses provides assurance that the course content includes at a minimum the state course description*, (State course descriptions are available at http://www.isbe.net/career/html/cte_industrial_ed.htm), meets the state’s minimum requirements for course offerings by program contain a minimum of two (2) credits of instruction*, curriculum aligned to state recognized learning standards and industry standards, career pathway guidance, resources to support program/course delivery (licensed and qualified staff, appropriate facilities, adequate equipment, instructional materials, work-based learning experiences, special populations support services, active affiliated SkillsUSA and/or TSA chapter), articulation/dual credit agreements, documentation of state agency certification or licensing requirements for occupations regulated by law or licensure, and content which prepare students for reflective of current labor and opportunity for cooperative education as a structured capstone course. Foundational courses are suggested to be taught at the 9th and 10th grade levels. Skill level courses are suggested to be taught at the 10th – 12th grade levels.