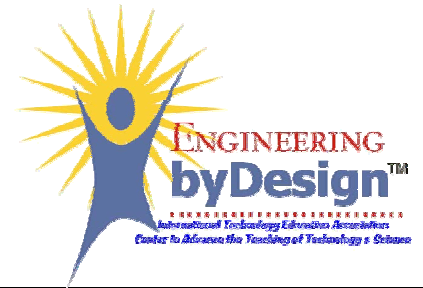




STEM Cluster Engineering & Technology Pathway



Elementary		Middle School	6 th Grade	7 th Grade	8 th Grade
Integrated Lessons (KITS)*				Exploring Technology*	Invention & Innovation*
High School	9 th Grade	English I	English II	English III	English IV
	Algebra I or Geometry	Geometry or Algebra II	Algebra II, Pre-Calculus, or Trigonometry	Trigonometry or Calculus	
	Physical Science or Biology I	Biology I or Chemistry I	Chemistry or Physics	AP Biology, AP Chemistry, or AP Physics	
	Geography/State History	World History	American History	Economics/Government	
	Required Courses/Electives PE, Health, Art, Foreign Language, or Computer Technology	Required Courses/Electives PE, Health, Art, Foreign Language, or Computer Technology	Advanced Technology/Engineering Electives Choose one: Advanced Design Applications* Advanced Technological Applications*	Technology Capstone Engineering Design*	
	Career Electives Foundations of Technology * (Transition Course)	Career Electives Choose one: Technological Design* Technological Issues* Impacts of Technology *			
Post-Secondary	Technology Center		Community College		College/University
	<input type="checkbox"/> Automated Manufacturing Technology <input type="checkbox"/> Drafting and CAD <input type="checkbox"/> Electronics <input type="checkbox"/> Industrial Maintenance <input type="checkbox"/> Manufacturing Engineering Technology <input type="checkbox"/> Precision Machining		<input type="checkbox"/> Design Engineering Technology <input type="checkbox"/> Pre-Engineering <input type="checkbox"/> Industrial Drafting <input type="checkbox"/> Biology <input type="checkbox"/> Chemistry <input type="checkbox"/> Physics <input type="checkbox"/> Mathematics		<input type="checkbox"/> Mechanical Engineering <input type="checkbox"/> Civil Engineering <input type="checkbox"/> Mathematics <input type="checkbox"/> Biology <input type="checkbox"/> Biochemistry <input type="checkbox"/> Chemistry <input type="checkbox"/> Physics <input type="checkbox"/> Management Science and Systems Analysis
Career Enhancement Options	Work-based Learning Options		Short-Term Training Options		
	Job-Shadowing: Internship/Mentorship: On-The-Job Training:		<input type="checkbox"/> Safety Training <input type="checkbox"/> Visual Basic 6 <input type="checkbox"/> Internet & Network Security <input type="checkbox"/> Wireless Technology <input type="checkbox"/> VB Net <input type="checkbox"/> AutoCAD		

*These courses are part of the Engineering byDesign™ Program curriculum. More information is available at www.teachstem.org