CONNECTICUT STATE DEPARTMENT OF EDUCATION

Figure 3: Connecticut Career Pathways Program of Study (POS)

SAMPLE STUDENT SUCCESS PLAN - POS

Name: _____

Learner ID: _____

School/College/University: _____

Cluster: Science, Technology, Engineering and Mathematics (STEM) Pathway: Engineering and Technology

Career Pathway Program of Study for ►Learners ►Parents ►Counselors ►Teachers/Faculty

This Career Pathway (POS) (based on the Science, Technology, Engineering and Mathematics Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This POS, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.

Education Levels	Grade	English/Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Engineering and Technology Pathway	SAMPLE Occupations Relating to This Pathway	CT Comprehensive School Counseling Program
SECONDARY	6 & 7	**Interest Inventory Administered and Plan of Study Initiated for all Learners**					Exploratory Courses	**2-yr College Degree** ►Manufacturing Technician ►Electronic Technician ►Survey Technician ►CAD Technician **4-yr College Degree** ►Aerospace Engineer ►Civil Engineer ►Biomedical Engineer ►Computer Engineer	
	8	English	Pre-Algebra or Algebra 1	Integrated Science	American History	First Robotics	The Magic of Electronics		
	9	English Composition	Algebra 1 or Geometry	Earth Science	Social studies 9	• Experiential Learning • College Career Pathways, Early College Experience, A/P, Dual/ Concurrent credit • 21st Century and Professional skills • Capstone Projects • Related extra-& co-curricular • Arts elective • Physical and Health Education • World Language	Introduction to Engineering Design		
	10	English Literature	Geometry or Algebra II	Biology	Modern Europe		Principles of Engineering Information Technology Application		
	11	Literature and Composition	Pre-Calculus or Trigonometry	Chemistry	U.S. History		Product Engineering and Development Digital Electronics		
	College Placement Assessments-Academic/Career Advisement Provided								
	12	English Composition	Intermediate Algebra or Trig or Calculus or Math Analysis	Physics, Advanced Chemistry or Organic Chemistry	World Issues		Civil Engineering and Architecture Engineering Innovation		
POST SECONDARY	**Articulation/Dual Credit Transcripted-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes**								
	Year 13	English Composition	Algebra or Trig Calculus I Calculus II	Physics or Chemistry	American Government Global Issues	• Experiential Learning • Practicum • Portfolio • 21st Century • Professional Skills • Internship • Related extra- & co-curricular	Engineering Analysis Engineering Design		
	Year 14	Speech/Oral Communication or Technical Writing	Intro to Differential Equations Calculus & Statistics	Organic Chemistry Microbiology	Modern Western Traditional Ethics/ Legal Issues		Engineering Processes		
	Year 15	Literature	Statistical or Tri	Chemistry	Economics or Geography		Continue Courses in Area of Specialization		
	Year 16	Technical Writing	Math	Physics	Psychology or Anthropology		Complete Engineering. & Tech Major (4-Year Degree Program)		