Name Heather Cornelius

Learner ID

School/College/University Freeport High, Engineering

updated 12-23-13

Science, Technology, Engineering and Mathematics: Engineering and Technology

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

This Career Pathway Plan of Study (based on the Engineering and Technology Pathway of 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 Plan of Study, 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
	Interest Inventory Administered and Plan of Study Initiated for all Learners							
SECONDARY	9	English 9 or English 9 H	Integrated Math 1 or Geometry H	Science Survey Biology 9 or Biology 9 H	World History or World History H	**9th**: Health/PE **10th:** Consumer Economics, PE/Safety (Drivers Ed) **11th:** PE and up to 2 Electives **12th:** PE and up to 5 electives	Introduction to Design Drafting, Orientation to Technology (OTC)	► Aeronautical Engineer ► Aerospace Engineer ► Agricultural Engineer ► Agricultural Technician ► Application Engineer ► Architectural Engineer ► Automotive Engineer ► Biomedical Engineer ► Biotechnology Engineer ► CAD Technician ► Chemical Engineer ► Civil Engineer ► Communications Engineer ► Computer Engineer ► Computer Programmer ► Construction Engineer ► Electrical Engineer ► Electronics Technician ► Geothermal Engineer ► Industrial Engineer ► Manufacturing Engineer ► Manufacturing Technician ► Marine Engineer ► Mechanical Engineer ► Metallurgist ► Mining Engineer ► Nuclear Engineer ► Petroleum Engineer ► Product/Process Engineer ► Survey Technician ► Systems Engineer ► Transportation Engineer
	10	English 10 or English 10 H	Integrated Math II or Algebra II	Biology, Chemistry or Chemistsry H	Government or Government H,		Advanced Drafting (CAD II), Introduction to Auto Technology, Independent Study Auto Technology	
	11	English 11 or English 11 H, AP Language	Integrated Math 3, Math Application 1, Pre Calculus,	Chemistry, Physics, A&P, Forensic Science,	US Histtory or US History H, AP US History		Independent Study (CADIII), Welding & Print Reading (CareerTEC)	
	College Placement Assessments-Academic/Career Advisement Provided							
	12	English 12, AP Literature					Independent Study with Work Experience (CADIV)	
	Articulation/Dual Credit Transcripted-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.							
POSTSECONDARY	Year 13	Rhet/Comp I Rhet/Comp II	Analytic Geom/Calc I Analytic	Chemistry Physics I	1 Social Behaviorial Science Elective	**Year 13:** 2nd Semester - 1 Humanities/Fine Arts, **Year 14:** 1st Semester 1 Humanities/Fine Arts, 1 Humanities	Introduction to Engineering (3)	
	Year 14	Fundamentals Speech	Differential Equations, Analytic	Physics II	1 Social Behaviorial Science Elective		1-2 Engineering Specialty Electives (4/5)	
	Year 15						• Continue Courses in the Area of Specialization	
	Year 16						• Complete Engineering Major (4-Year Degree Program)	