



2020-2021

**BEL AIR HIGH SCHOOL CAREER & TECHNICAL EDUCATION
PROGRAM OF STUDY PATHWAYS TOWARDS EARNING AN ENDORSEMENT**

Cluster	Pathway	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Certification Opportunities
 Manufacturing	Advanced Manufacturing and Machinery Mechanics	V1050 Principles of Applied Engineering, 1 Credit L1	V1450 Engineering Design and Presentation I*, 1 Credit L2	V1750 Robotics I, 1 Credit L2	V1850 Robotics II*, 1 Credit L3	ROBOT C Autodesk Certified OSHA 30 Hour General Industry
Cluster	Pathway	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Certification Opportunities
 Science, Technology, Engineering & Mathematics	Engineering	V1050 Principles of Applied Engineering, 1 Credit L1 or V3350 Introduction to Engineering Design (PLTW), 1 Credit L1	V1450 Engineering Design and Presentation I*, 1 Credit L3 and/or V5450 Civil Engineering & Architecture (PLTW), 1 Credit L3	V5650 Engineering Design and Development (PLTW), 1 Credit L3 and/or V3450 Aerospace Engineering (PLTW), 1 Credit L3	V3250 Digital Electronics*, 1 Credit L3 and/or V3000 Engineering Design & Problem Solving*, 1 Credit L4 and/or V3150 Engineering Science*, 1 Credit L3	Autodesk Certified User in AutoCAD Autodesk Certified User in Revit Architecture
	Programming and Software Development	V5750 Computer Science I*, 1 Credit L2	C2010 Computer Science II*, 1 Credit L3	V230K Introduction to C# Programming Applications OnRamps DE, 1 Credit L3	K115C Practicum in Audio/Video Production I*, 2 Credit L4	Microsoft Technology Associate (MTA) Introduction to Programming Using Java Microsoft Technology Associate (MTA) Introduction to Programming