Maryland CTE Program of Study

STEP 2D: Program Sequence Matrix (Include the program sequences for High School, Associate's Degree, and Bachelor's Degree programs)
Identify the pathway options. Complete the program matrix for the 9-12 program, plus, for Tech Prep programs include the matrix for the two- or four-year college program of study. Indicate which courses receive CTE credit by placing the number of credits in parentheses after each CTE course title. Place an asterisk (*) next to the course identified as the concentrator course indicating that the student has completed 50% of the program.

The program matrix defines a planned, sequential program of study that consists of a minimum of four credits in CTE coursework including work-based learning and/or industry-mentored projects. Work-based learning experiences or industry-mentored projects must be included in the program to obtain approval. The program matrix includes the recommended academic and CTE courses identified for the pathway and postsecondary linkages (i.e., dual enrollment, Tech Prep, transcripted and articulated credit).

CTE programs typically begin after ninth grade and do not include career exploration courses. Courses such as computer applications and keyboarding are not included in the completer sequence because they provide prerequisite skills for both academic courses and CTE programs. Academic courses are counted only if they are tailored to serve mainly CTE students and have been revised to reflect industry skill standards. Technology Education or Advanced Technology Education courses are not acceptable for credit in the career and technology education program sequence.

The LSS program title should be the same one that appears on the cover page. If more than one pathway option is offered in the program, complete a matrix for each program option (MSDE will insert the CIP number). Example: An Academy of Information Technology program may include options in web design & programming.				
Pathway/Program:	**Construction Trades – Four Options** **1-Carpentry/2-Electrical/3-Plumbing/ 4-Masonry**		**CIP Number** **(For MSDE Use)**	**Carpentry 46.5200** **Electrical 46.5300** **Plumbing 46.5500** **Masonry 46.5100**
Graduation Requirements	Grade 9	Grade 10	Grade 11	Grade 12
English - 4				
Social Studies - 3				
Mathematics - 3	**Algebra I**	**Geometry**	**Algebra II**	Trig./Pre-Calc.
Science - 3	Earth Science (or) Biology	Biology (or) **Chemistry**	Chemistry (or) **Physics**	Physics
Physical Educ.-.5 Health Educ.- .5				
Fine Arts - 1				
Technology Education – 1				
CTE Completer Program – 4 *concentrator course		**Construction Core (1)** All pathways start with 1 credit foundation	**Carpentry I** (1 credit) or **Electrical I** (1 credit) or **Plumbing I** (1 credit) or **Masonry I** (1 credit)	**Carpentry II*** (2 credits) or **Electrical II*** (2 credits) or **Plumbing II*** (2 credits) or **Masonry II*** (2 credits)
Foreign Language - 2 and/or Adv.Tech Ed - 2				