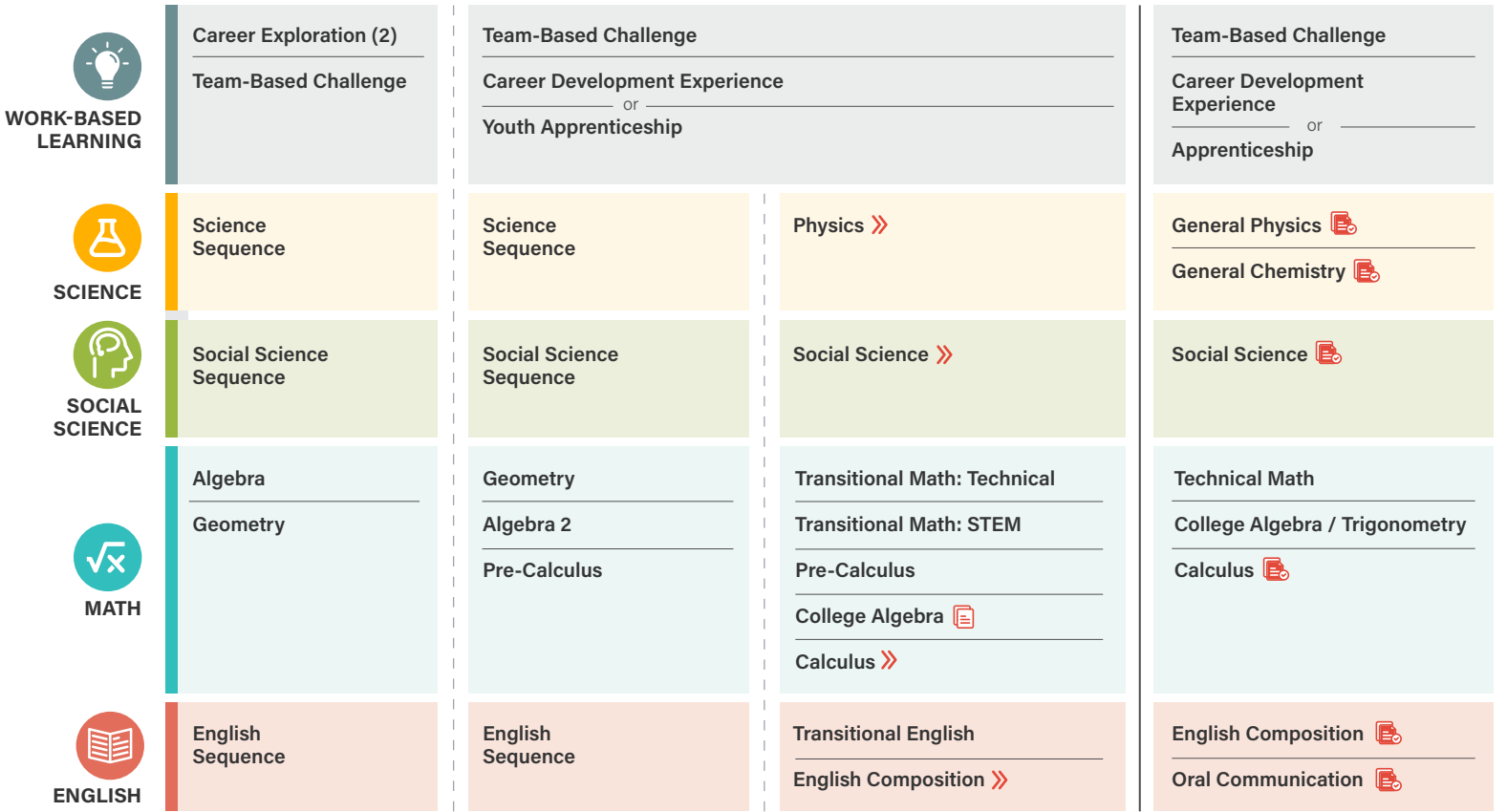
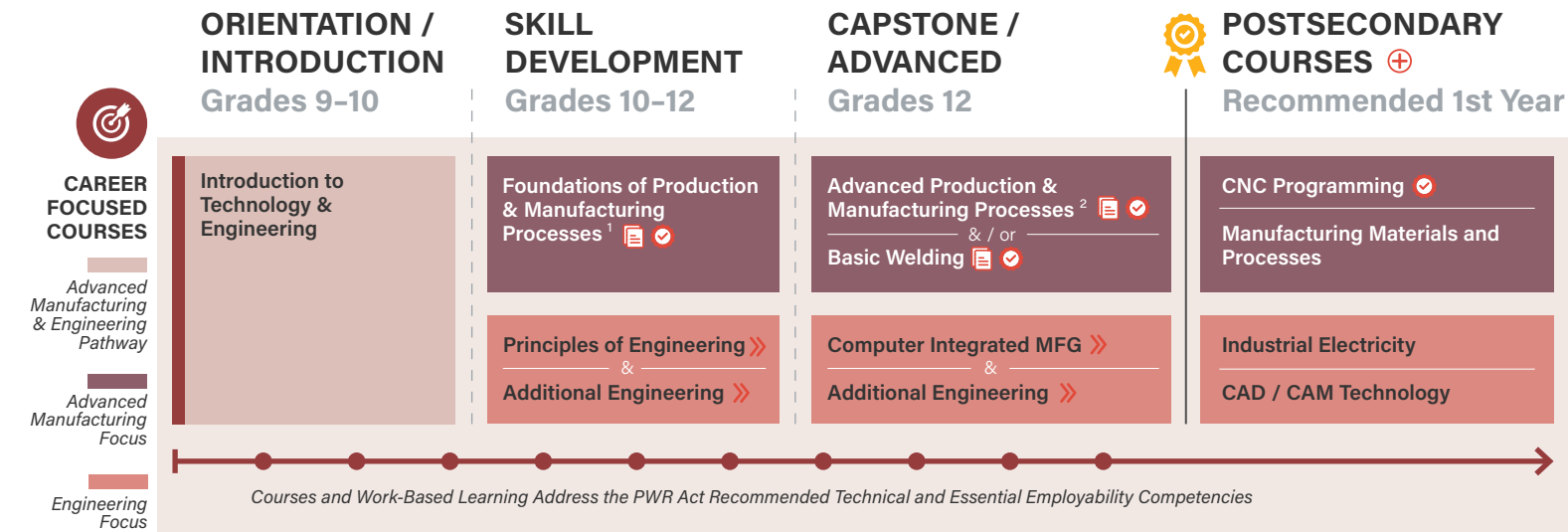


Model Programs of Study Guide:

Manufacturing & Engineering



AP or Dual Credit

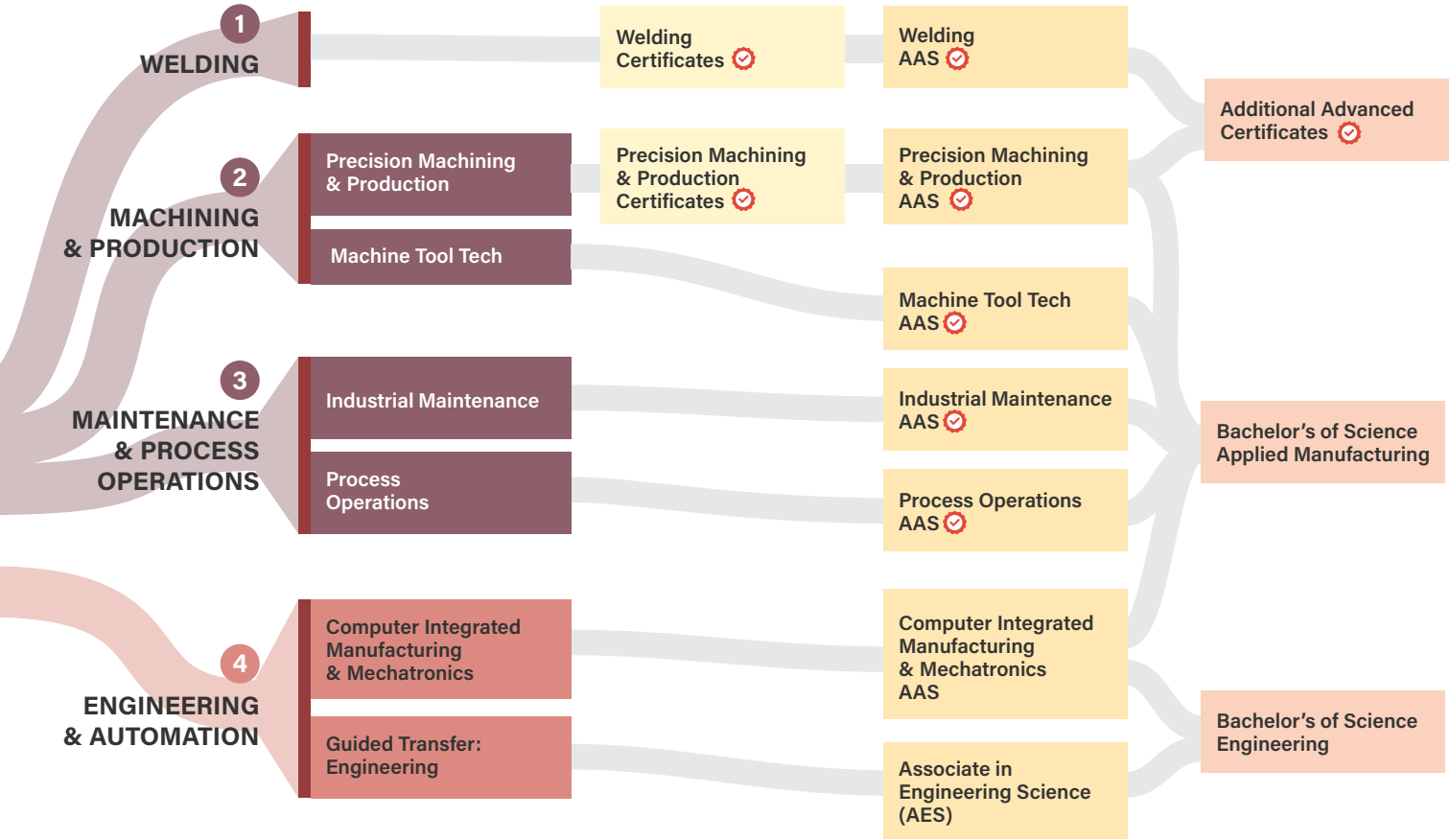
Dual Enrollment

Course or Program Prepares for Industry Credential

College and Career Pathway Endorsement Earned

If courses in this column were accomplished through early college credit, students should take the next required course in the sequence or, if none, additional AAS or Major Courses

POSTSECONDARY OPTIONS



SELECTED OCCUPATIONS, WAGES, & JOB GROWTH

	Program	Typical Job	Near or Above Living Wage Threshold for 1 Adult + 1 Child ³	Median Hourly Wage ⁴	Growth in TN: Annual Job Openings ⁴	Growth in TN: % Change Over 10 years ⁴	Stackable?
1	Welding	Welders, Cutters, Welder Fitters	N	\$	#	%	Not Typically Stackable
2	Machine Tool Technology	Tool and Die Makers	Y	\$	#	%	Typically Stacks to Related Bachelor's Program at Select TN Universities
	Precision Machining	Machinists Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	N Y	\$ \$	# #	% %	Typically Stacks to Further Certificates or an AAS
3	Industrial Maintenance	Industrial Machinery Mechanics	Y	\$	#	%	Typically Stacks to Related Bachelor's Program at Select TN Universities
	Process Technology	Chemical Equipment Operators and Tenders, Biofuels Processing Technician	Y	\$	#	%	
4	Computer Integrated Manufacturing & Mechatronics	Manufacturing Engineering Technologists, Electromechanical Engineering Technologists, Robotics Technicians	Y	\$	#	%	Typically Stacks to Related Bachelor's Program at Most TN Universities
	Guided Transfer: Engineering	Engineers in Various Branches: Mechanical, Civil, Electrical, Chemical, Mechatronics, Industrial	Y	\$	#	%	

1. For machining-focused programs, equivalent to ISBE CTE Courses — Beginning Machining and Machine Shop Technology 1

2. For machining-focused programs, equivalent to ISBE CTE Course — Machine Shop Technology II

3. Living wage calculations are based on MIT's Living Calculator (livingwage.mit.edu), where the "Living Wage" for 1 Adult + 1 Child is \$7/hour for the state of Tennessee. "Near" defined as 85% of the statewide living wage, which is \$22.33/hour

4. U.S. Department of Labor, CareerOnestop (careeronestop.org/explorecareers)