

Career and Technical Education – State Approved Clusters, Pathways, Embedded Credit and/or Fulfillment of Requirement, and Programs of Study – Alphabetical (Last Updated December 19, 2023)

Program of Study	Program	Cluster	Pathway	Transition ELA for Seniors Embedded Credit (4013)	Transition Mathematics for Seniors Embedded Credit (3052)	Other Mathematics Embedded Credit	Fulfillment of Required Course <i>(not transcribed)</i>
Agribusiness Systems	AG0120	Agriculture, Food and Natural Resources	Agribusiness Systems				0164-CASE Animal & Plant Biotechnology Course fulfills the third Science credit 0165-CASE Food Science and Safety Course fulfills the third Science credit 0166-CASE Principles of Agricultural Science-Plant Course fulfills the third Science credit
Allied Health Sciences	HE0715	Health Science	Therapeutic Services	Completer: <u>2 required courses</u> 0711 and 0715 AND <u>2 specialization courses</u> 0755 & 0756 OR 0792 & 0732 OR 0737 & 0733 OR 0810 & 0825 OR 0771 & 0772			<u>3 required courses</u> 0711, 0715, and any Clinical Specialty course (0755, 0756, 0792, 0732, 0737, 0733, 0810, 0825, 0771, 0772) fulfills third Science credit
Animal Systems	AG0220	Agriculture, Food and Natural Resources	Animal Systems				0164-CASE Animal & Plant Biotechnology Course fulfills the third Science credit 0165-CASE Food Science and Safety Course fulfills the third Science credit
Automotive Technology	TR1620	Transportation, Distribution and Logistics	Facility & Mobile Equipment Maintenance		Completer: <u>4 required courses</u> 1631, 1623, 1625, and 1637		
Biomedical Science (PLTW)	HE0780	Health Science	Biotechnology Research & Development	Completer:			0766-Human Body Systems course fulfills the third Science credit

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				<u>4 required courses</u> 0727, 0766, 0780, and 0795			
Building Maintenance and Operations	AR1800	Architecture and Construction	Maintenance/ Operations		Completer: <u>4 required courses</u> 1774, 1775, 1776, and 1777		
Careers in Education (Removed from Policy 2520.13 on July 1, 2022).	ED1300	Education and Training	Teaching/ Training	Completer: <u>4 required courses</u> 1301, 1302, 1304, and 1135			
Carpentry	AR1820	Architecture and Construction	Construction		Completer: <u>4 required courses</u> 1842, 1843, 1844, and 1845		
Coding, App and Game Design	IT1442	Information Technology	Interactive Media			<u>2 required courses</u> 1431 and 1456 (Computer Science & Mathematics credit)	1431-Digital Imaging/ Multimedia I fulfills 1 Art credit
Collision Repair Technology	TR1670	Transportation, Distribution and Logistics	Facility & Mobile Equipment Maintenance		Completer: <u>4 required courses</u> 1671, 1675, 1677, and 1679		
Computer Aided Drafting and Design	AR1720	Architecture and Construction	Design/ Pre-construction		Completer: <u>4 required courses</u> 1729, 1727, 1725, and 1721		1727-Drafting Techniques fulfills 1 Art credit
Diagnostics Services (Removed from Policy 2520.13 on July 1, 2022).	HE0718	Health Science	Diagnostic Services	Completer: <u>4 required courses</u> 0711 and 0715 AND <u>2 specialization courses</u> 0755 & 0756 or 0810 & 0825			<u>3 required courses</u> 0711, 0715, and any Clinical Specialty Course fulfills the third Science credit

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Early Childhood Classroom Assistant Teacher	ED1320	Education and Training	Teaching and Training	Completer: <u>4 required courses</u> 1321, 1322, 1323, 1324			
Electrical Technician	AR1760	Architecture and Construction	Construction		Completer: <u>4 required courses</u> 1756, 1757, 1758, and 1759		
Emergency and Firefighting Management Services	LA2200	Law, Public Safety, Corrections and Security	Emergency and Firefighting Management Services		Completer: <u>4 required courses:</u> 2203, 2205 AND <u>2 Specialization Courses:</u> 2250, 2251, 2248, OR 2249		
Energy, Power and Engineered Systems (Advanced Careers)	ST2175	Science, Technology, Engineering and Math	Engineering & Technology		Completer: <u>4 required courses</u> 2485, 2486, 2487, and 2488		Completer: <u>4 required courses</u> 2485, 2486, 2487, and 2488 fulfills the third Science credit
Graphic Design	AV1850	Arts, A/V Technology and Communications	Visual Arts				1851-Fundamentals of Illustration OR 1859-Graphic Design Applications OR 1857-Fundamentals of Graphic Design OR 1861-Illustration fulfills the third Art course
Health Informatics (Removed from Policy 2520.13 on July 1, 2022).	HE0742	Health Science	Health Informatics	Completer: <u>4 required courses</u> 0711, 0715 and 1443 AND <u>1 specialization course</u> 1411, or 0769, or 0768, or 0777			
HVAC Technician	AR1600	Architecture and Construction	Maintenance/Operations		Completer:		

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					<u>4 required courses</u> 1752, 1753, 1754, and 1755		
Industrial Equipment Maintenance	MA1870	Manufacturing	Maintenance, Installation, & Repair		<u>4 required courses</u> 1873, 1875, 1871, and 1985		
Information Management	IT 1450	Information Technology	Interactive Media				1431-Digital Imaging/ Multimedia I fulfills 1 Art credit
Innovations in Science and Technology (Advanced Career) (Removed from Policy 2520.13 on July 1, 2022).	ST2205	Science, Technology, Engineering and Math	Engineering & Technology				Completer: <u>4 Required courses</u> 1545, 1546, 1547, and 1548 fulfills the third Science credit
Integrated Production Technologies	MA2235	Manufacturing	Manufacturing Production Process Development		Completer: <u>4 required courses</u> 1575, 1576, 1577, and 1578		
JROTC	GO1070	Government and Public Administration	National Security				1065 and 1066 fulfills 1 PE credit Completer: <u>4 required courses</u> 1065, 1066, 1080, and 1081 fulfills 1 Social Studies credit (not Civics)
Law and Public Safety	LA1020	Law, Public Safety, Corrections and Security	Law Enforcement Services	Completer: <u>4 required courses</u> 1225, 1226, 1039, and 1035			
Machine Tool Technology	MA1900	Manufacturing	Production		Completer: <u>4 required courses</u> 1903, 1905, 1907, and 1909		
Manufacturing Production & Design	MA1910	Manufacturing	Production		Completer: <u>4 required courses</u> 1579, 1580, 1581, and 1582		

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Marketing Management	MK0420	Marketing	Marketing Management	Completer: <u>4 required courses</u> 0422, 0425, 0426, and 0428			1431-Digital Imaging/ Multimedia I fulfills 1 Art credit
Masonry	AR1910	Architecture and Construction	Construction		Completer: <u>4 required courses</u> 1846, 1847, 1848, and 1849		
Millwork and Cabinetmaking	MA2120	Manufacturing	Production				2126-Millwork and Cabinetmaking I OR 2127- Millwork and Cabinetmaking II OR 2128- Millwork and Cabinetmaking III, OR 2129- Millwork and Cabinetmaking IV fulfills 1 Art Credit
Natural Resources Management	AG0170	Agriculture, Food and Natural Resources	Natural Resources Systems				0200-Natural Resource Management fulfills the third Science credit
Pre-Cosmetology	HU2310	Human Services	Personal Care Services	Hairstylist Completer: <u>4 required courses</u> 1734, 1735, 1736, 1737, AND <u>4 elective courses</u> 1730, 1738, 1740, 1750			
Plant Systems	AG0210	Agriculture, Food and Natural Resources	Plant Systems				0213-Floriculture fulfills 1 Art credit 0164-CASE Animal & Plant Biotechnology Course fulfills the third Science credit 0165-CASE Food Science and Safety Course fulfills the third

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							Science credit 0166-CASE Principles of Agricultural Science-Plant Course fulfills the third Science credit
Plumbing	AR2140	Architecture and Construction	Construction		Completer: <u>4 required courses</u> 2081, 2082, 2083, and 2084		
Power Equipment Systems	TR1960	Transportation, Distribution and Logistics	Facility & Mobile Equipment Maintenance		Completer: <u>4 required courses</u> 1962, 1964, 1966, and 1968		
Pre-Engineering – Project Lead the Way	ST2460	Science, Technology, Engineering and Math	Engineering & Technology			<u>3 required courses</u> 2461, 2463, and 2464 (Advanced Mathematical Modeling)	2463-Principles of Engineering fulfills the third Science credit
ProStart Restaurant Management	HO1010	Hospitality and Tourism	Restaurants & Food/ Beverage Services	Completer: <u>4 required courses</u> 1013, 1014, 1019, and 1020			
Robotics	MA1630	Manufacturing	Manufacturing Production Process Development		Completer: <u>2 required courses</u> 1866, 1867 AND <u>2 Drone Specialization Courses</u> 1887 and 1888		
Therapeutic Services	HE0723	Health Science	Therapeutic Services	Completer: <u>4 required courses</u> 0711, 0715, 0789, and 0790			<u>3 required courses</u> 0711, 0715 and any Clinical Specialty course (0789 or 0790) fulfills the third Science credit

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Virtual Simulation and Game Development	IT 1445	Information Technology	Interactive Media				1431-Digital Imaging/Multimedia I fulfills 1 Art credit
Welding	MA1980	Manufacturing	Production		Completer: <u>4 required courses</u> 1862, 1863, 1864, and 1865		1982-Ornamental Metalwork fulfills 1 Art credit