

## Career Clusters and Pathways for All High Schools

<b>1. Agriculture, Food, and Natural Resources</b>			
<b>Pathway</b>	<b>Course 1</b>	<b>Course 2</b>	<b>Course 3</b>
<i>Food Animal Systems</i> (PCHS)	Basic Agriculture Science 02.4710000	Animal Science and Biotechnology 02.4210000	Agricultural Animal Production and Management 01.4320000
<i>Agricultural Mechanics Systems</i> (PCHS)	Basic Agriculture Science 02.4710000	Agricultural Mechanics Technology I 01.4210000	Agricultural Mechanics Technology II 01.4220000
<i>Plant and Landscape Systems</i> (NPHS)	Basic Agriculture Science 02.4710000	General Horticulture and Plant Science 01.4610000	Nursery & Landscape 01.4700000
<i>Forestry/Wildlife Systems</i> (EPHS)	Basic Agriculture Science 02.4710000	Forest Science 03.4510000	Wildlife Management 03.4530000
<b>2. Architecture and Construction</b>			
<i>Architectural Drawing and Design</i> (EPHS-NPHS)	Introduction to Drafting and Design 48.5410000	Architectural Drawing and Design I 48.5450000	Architectural Drawing and Design II 48.5460000
<i>Carpentry</i> (NPHS-SPHS)	Industry Fundamentals & Occ. Safety 46.5450000	Intro. to Construction I 46.5460000	Carpentry I 46.5500000
<b>3. Arts, A/V Technology &amp; Communications</b>			
<i>Audio Video Technology and Film Pathway</i> (EPHS-HHS-NPHS-SPHS)	Audio and Video Technology & Film 10.5181000	Audio Video Technology and Film II 10.5191000	Technology and Film III 10.5201000
<i>Graphic Design</i> (EPHS-HHS)	Intro to Graphics and Design 48.5610000	Graphic Design and Production 48.5620000	Advanced Graphic Design 48.5280000
<i>Graphic Communication</i> (Not Available for 22-23)	Intro to Graphics and Design 48.5610000	Graphic Design and Production 48.5620000	Advanced Graphic Output Processes 48.5700000
<b>4. Business Management &amp; Administration</b>			
<i>Business and Technology</i> (EPHS, NPHS, PCHS, SPHS)	Introduction to Business and Technology 07.4413000	Business and Technology 07.4410000	Business Communication 07.4510000
<i>Entrepreneurship</i> (NA for 22-23)	Introduction to Business and Technology 07.4413000	Legal Environment of Business 06.4150000	Entrepreneurship 06.4160000
<b>5. Education and Training</b>			
<i>Teaching as a Profession</i> (EPHS, NPHS, SPHS)	Examining the Teaching Profession 13.0110000	Contemporary Issues in Education 13.0120000	Teaching as a Profession Practicum 13.0130000
<b>6. Energy</b>			
<i>Energy and Power: Generation, Transmission and Distribution</i> (PCCA)	Foundations of Energy Technologies 49.5370000	Energy and Power: Generation, Transmission, and Distribution 49.5380000	Energy Systems Applications 49.5390000
<b>7. Finance</b>			
<i>Business Accounting</i> (NPHS)	Introduction to Business & Tech.	Financial Literacy 07.4260000	Principles of Accounting I 07.4110000

	07.4413000		
<i>Financial Services</i> (HHS)	Introduction to Business & Tech. 07.4413000	Financial Literacy 07.4260000	Banking, Investing & Insurance 07.4130000
<b>8. Government and Public Administration</b>			
<i>JROTC – Air Force</i> 8 blocks of courses may be taken in this pathway (EPHS)	Aerospace Science: Leadership 100 28.0110000	Aerospace Science: Leadership 200 28.0120000	Aerospace Science: Leadership 300 28.0140000
Additional courses beyond the first three are taken in this order: 28.0160000 Aerospace Science: Leadership 400 28.0192000 Aerospace Science: Corps Management 28.0193000 Aerospace Science: Drill Only 28.0194000 Aerospace Science: Senior Project 28.0190000 Aerospace Science: Honors Ground School			
<i>JROTC – Army Leadership</i> 8 blocks of courses may be taken in this pathway (HHS-NPHS-PCHS-SPHS)	JROTC Army Leadership Ed 1 - Alpha 28.03110	JROTC Army Leadership Ed 1 - Bravo 28.03120	JROTC Army Leadership Ed 2 - Alpha 28.03210
Additional courses beyond the first three are taken in this order: 28.03220 JROTC Army Leadership Ed 2 - Bravo 28.03310 JROTC Army Leadership Ed 3 - Alpha 28.03320 JROTC Army Leadership Ed 3 - Bravo 28.03410 JROTC Army Leadership Ed 4 - Alpha 28.03420 JROTC Army Leadership Ed 4 - Bravo			
<b>9. Health Science</b>			
<i>Therapeutic Services – Allied Health and Medicine</i> (EPHS-PCHS)	Intro to Healthcare Science 25.5210000	Essentials of Healthcare 25.4400000	Allied Health and Medicine 25.4370000
<i>Therapeutic Services – Biotechnology Research and Development</i> (PCHS)	Intro to Healthcare Science 25.5210000	Essentials of Biotechnology 25.5700000	Application of Biotechnology 25.5690000
<i>Therapeutic Services – Patient Care</i> (HHS-NPHS-PCHS-SPHS-PCCA)	Intro to Healthcare Science 25.5210000	Essentials of Healthcare 25.4400000	Patient Care Fundamentals 25.4360000
<i>Therapeutic Services – Sports Medicine</i> (HHS-NPHS-PCHS)	Intro to Healthcare Science 25.5210000	Essentials of Healthcare 25.4400000	Sports Medicine 25.4460000
<b>10. Hospitality and Tourism</b>			
<i>Culinary Arts</i> (EPHS-NPHS-PCHS-SPHS)	Intro to Culinary Arts 20.5310000	Culinary Arts I 20.5321000	Culinary Arts II 20.5331000
<i>Sports &amp; Entertainment Mkt</i> (EPHS & NPHS)	Marketing Principles 08.4740000	Intro to Sports & Entertainment Marketing 08.4780000	Adv Sports & Entertainment Marketing 08.4850000
<b>11. Human Services</b>			
<i>Personal Care Services (Cosmetology)</i> (EPHS-HHS-NPHS-PCHS-SPHS)	Intro to Personal Care Services 12.5440000	Cosmetology II 12.4100000	Cosmetology III 12.4110000
<i>Nutrition and Food Science</i> (NPHS)	Food, Nutrition, and Wellness 20.41610	Food for Life 20.41400	Food Science 20.41810

<b>12. Information Technology</b>			
<i>Web and Digital Design</i> (NPHS)	Introduction to Software Technology 11.44600	Digital Design 11.4510000	Web Design 11.4520000
<i>Cybersecurity</i> (PCCA)	Introduction to Hardware Technology 11.44800	Introduction to Cybersecurity 11.4810000	Advanced Cybersecurity 11.4820000
<i>Web Development</i> (EPHS, PCHS)	Introduction to Software Technology 11.44600	Computer Science Principles 11.47100	Web Development Course 11.42500
Computer Science (HHS-NPHS-SPHS) <i>** HHS offers this for HACS magnet students only.</i>	Introduction to Software Technology 11.44600	AP Computer Science Principles 11.0190000	AP Computer Science 11.2160000
<b>13. Law, Public Safety, Corrections, and Security</b>			
<i>Law Enforcement Services-Criminal Investigations</i> (HHS-NPHS-PCHS-SPHS)	Intro to Law, Public Safety, Corrections, & Security 43.4500000	Criminal Justice Essentials 43.4510000	Criminal Investigations 43.4530000
<b>14. Manufacturing</b>			
<i>Mechatronics</i> (PCCA)	Introduction to Mechatronics -- DC Theory, Pneumatic Systems, and Programmable Logic Controllers 21.4620000	AC Theory, Electric Motors, and Hydraulic Systems 21.4630000	Semiconductors, Mechanical Systems, and Pump and Piping Systems 21.4640000
<b>15. Marketing</b>			
<i>Marketing and Management</i> (EPHS-NPHS-PCHS-SPHS)	Marketing Principles 08.4740000	Marketing & Entrepreneurship 08.4410000	Marketing Management 08.4420000
<b>16. Science, Technology, Engineering, and Mathematics</b>			
<i>Engineering Drafting and Design</i> (HHS)	Introduction to Drafting and Design 48.5410000	Survey of Engineering Graphics 48.5420000	3-D Modeling and Analysis 48.5430000
<i>Engineering &amp; Technology Pathway</i> (SPHS)	Foundations of Engineering 21.4250000	Engineering Concepts 21.4710000	Engineering Applications 21.4720000
<b>17. Transportation, Distribution, and Logistics</b>			
General Automotive Technology (EPHS-HHS-NPHS-PCHS-SPHS)	Automotive Technologies 1 47.45000	Automotive Technologies 2 47.45100	Automotive Technologies 3 47.45200
Collision Repair- Painting and Refinishing (PCHS)	Introduction to Collision Repair 47.56500	Painting and Refinishing I 47.56600	Painting and Refinishing II 47.56700