

## CAREER, TECHNICAL, AND AGRICULTURAL EDUCATION

In House Bills 186 and 713, Georgia Legislators signed into law the 16 federal career clusters plus energy. As part of that law, elementary and middle school students receive classroom guidance from school counselors regarding the 17 clusters as well as the career pathways and their sequential courses. At the high school levels, students are given the opportunity to take specific courses and pathways based on the 17 Career Clusters. The below chart represents the CTAE courses and pathways that are offered at each high school. Like all other courses, these offerings are based on teacher certification, school resources, and student interest and can vary from year to year.

### **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 Can count as 4 <sup>th</sup> Science	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 Can count as 4 <sup>th</sup> Science	Nursery & Landscape 01.4700000
<i>Forestry/Wildlife Systems</i> (EPHS)	Basic Agriculture Science 02.4710000	Forest Science 03.4510000 Can count as 4 <sup>th</sup> Science	Wildlife Management 03.4530000
<b>2. Architecture and Construction</b>			
<i>Architectural Drawing and Design</i> (EPHS)	Intro 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 I 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
<b>4. Business Management &amp; Administration</b>			
<i>Business and Technology</i> (EPHS, NPHS, PCHS, SPHS, PVA)	Intro to Business and Technology 07.4413000	Business and Technology 07.4410000	Business Communication 07.4510000
<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

7. Finance			
<i>Business Accounting</i> (NPHS)	Intro to Business & Tech. 07.4413000	Financial Literacy 07.4260000	Principles of Accounting I 07.4110000
<i>Financial Services</i> (HHS, PVA)	Intro to Business & Tech. 07.4413000	Financial Literacy 07.4260000	Banking, Investing & Insurance 07.4130000
<i>Advanced Accounting</i> (NPHS)	Intro to Business & Tech. 07.4413000	Principles of Accounting I 07.4110000	Principles of Accounting II 07.4120000
8. Government and Public Administration			
<i>JROTC – Air Force</i> <i>8 blocks of courses may be taken in this pathway.</i> (EPHS)	Aerospace Science: Leadership 100 28.0110000	Aerospace Science: Leadership 200 28.0120000	Aerospace Science: Leadership 300 28.0140000
<i>Additional courses beyond the first three are taken in this order:</i> 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> <i>8 blocks of courses may be taken in this pathway.</i> (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
<i>Additional courses beyond the first three are taken in this order:</i> 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			
9. Health Science			
<i>Therapeutic Services – Allied Health and Medicine</i> (EPHS-HHS-PCHS) <i>NOTE: This pathway at PCHS is only available for Academy students.</i>	Intro to Healthcare Science 25.5210000	Essentials of Healthcare 25.4400000 Embedded Science Credit for Anatomy/Physiology	Allied Health and Medicine 25.4370000  4 <sup>th</sup> Course: Medical Assisting 25.43800 – (HHS)
<i>Therapeutic Services – Biotechnology Research and Development</i> (PCHS) <i>NOTE: This pathway is only available for Academy students.</i>	Intro to Healthcare Science 25.5210000	Essentials of Biotechnology 25.5700000	Application of Biotechnology 25.5690000
<i>Therapeutic Services – Patient Care</i> (NPHS-PCHS-SPHS-PCCA)	Intro to Healthcare Science 25.5210000	Essentials of Healthcare 25.4400000 Embedded Science Credit for Anatomy/Physiology	Patient Care Fundamentals 25.4360000 DE Only as NAST2100 25.0147400 @ PCCA
<i>Therapeutic Services – Sports Medicine</i> (EPHS-HHS-NPHS-PCHS)	Intro to Healthcare Science 25.5210000	Essentials of Healthcare 25.4400000 Embedded Science Credit for Anatomy/Physiology	Sports Medicine 25.4460000 Can count as 4 <sup>th</sup> Science
10. Hospitality and Tourism			
<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>Hospitality, Recreation and Tourism</i> (NPHS)	Marketing Principles 08.4740000	Hospitality, Recreation, and Tourism Essentials 08.4530000	Hospitality, Recreation, and Tourism Management 08.4540000
<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 (NPHS, PVA)</i>	Food, Nutrition, and Wellness 20.41610	Food for Life 20.41400 Can count as 4 <sup>th</sup> Science	Food Science 20.41810 Can count as 4 <sup>th</sup> Science
<b>12. Information Technology</b>			
<i>Web and Digital Design (NPHS, PVA)</i>	Intro to Software Technology 11.44600	Digital Design 11.4510000	Web Design 11.4520000
<i>Cybersecurity (PCCA)</i>	Intro to Hardware Technology 11.44800	Introduction to Cybersecurity 11.4810000	Advanced Cybersecurity 11.4820000
<i>Web Development (EPHS, PCHS)</i>	Intro to Software Technology 11.44600	Computer Science Principles 11.47100 Can count as 4 <sup>th</sup> Science	Web Development Course 11.42500 Can count as 4 <sup>th</sup> Science
Computer Science (NPHS-SPHS)	Intro to Software Technology 11.44600	AP Computer Science Principles 11.0190000 Can count as 4 <sup>th</sup> Science	AP Computer Science 11.2160000 Can count as 4 <sup>th</sup> Science
Cloud Computing (HHS) <i>** HHS offers this for HACS magnet students only.</i>	Intro to Software Technology 11.44600	AP Computer Science Principles 11.0190000 Can count as 4 <sup>th</sup> Science	Cloud Computing 11.447000
<i>Game Design (NPHS)</i>	Intro to Software Technology 11.44600	Computer Science Principles 11.47100 Can count as 4 <sup>th</sup> Science	Game Design: Animation & Simulation 11.4290000 Can count as 4 <sup>th</sup> Science
<b>13. Law, Public Safety, Corrections, and Security</b>			
<i>Law Enforcement Services-Criminal Investigations (HHS-NPHS-PCHS-SPHS)</i>	Intro to Law, Public Safety, Corrections, & Security 43.4500000	Criminal Justice Essentials 43.4510000	Criminal Investigations 43.4530000
<b>14. Manufacturing</b>			
<i>Mechatronics (PCCA)</i>	Intro 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 (EPHS-PCHS-SPHS)</i>	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 (HHS)</i>	Intro to Drafting and Design 48.5410000	Survey of Engineering Graphics 48.5420000	3-D Modeling and Analysis 48.5430000
<i>Engineering &amp; Technology Pathway (SPHS)</i>	Foundations of Engineering 21.4250000	Engineering Concepts 21.4710000	Engineering Applications 21.4720000
<b>17. Transportation, Distribution, and Logistics</b>			
<i>General Automotive Technology (EPHS-HHS-NPHS-PCHS-SPHS)</i>	Automotive Technologies 1 47.45000	Automotive Technologies 2 47.45100	Automotive Technologies 3 47.45200
<i>Collision Repair- Painting and Refinishing (PCHS)</i>	Intro to Collision Repair 47.56500	Painting and Refinishing I 47.56600	Painting and Refinishing II 47.56700