

<p><u>Agriculture Cluster</u> <u>Agriscience</u> Yr. 1 – Basic Agriculture Science Yr. 2/3 – Plant Science & Biotech** Yr. 2/3 – Animal Science & Biotech+ Yr. 4 - Biotechnology</p> <p><u>Veterinary Science</u> – AAS only Yr. 1 – Basic Agriculture Science Yr. 2 - Small Animal Care Yr. 3 - Veterinary Science Yr. 4 - Biotechnology</p>	<p><u>Education & Training Cluster</u> <u>Early Childhood Care & Education</u> Yr. 1 – Early Childhood Education I Yr. 2 – Early Childhood Education II Yr. 3 – Early Childhood Education III or Yr. 3 – Early Childhood Practicum (AAS only)</p> <p><u>Teaching as a Profession</u> – AAS only Yr. 1 - Examining the Teaching Profession Yr. 2 - Contemporary Issues in Education Yr. 3 - Teaching as a Profession Practicum</p>
<p><u>Architecture and Construction Cluster</u> <u>Architectural Drawing and Design</u> Yr. 1 – Intro to Drawing & Design Yr. 2 – Arch. Drawing and Design I Yr. 3 – Arch. Drawing and Design II</p> <p><u>Construction</u> – AAS only Yr. 1 – Industry Fund. & Occupational Safety Yr. 2 – Intro to Construction Yr. 3 – Carpentry, Masonry, Electrical or Plumbing (student will select specialty)</p> <p><u>Welding</u> – AAS only Yr. 1 – Industry Fund. & Occupational Safety Yr. 2 – Intro to Metals Yr. 3 – Welding I</p>	<p><u>Energy Cluster</u> <u>Energy & Power: Generation, Transmission, and Distribution</u> – AAS only Yr. 1 – Found. of Energy Technologies Yr. 2 – Energy & Power: Generation, Transmission, and Distribution Yr. 3 – Energy Systems Applications</p>
<p><u>Arts, A/V Tech and Communications Cluster</u> <u>Audio/Video Technology & Film</u> Yr. 1 – A/V Technology and Film I Yr. 2 – A/V Technology and Film II Yr. 3 – A/V Technology and Film III</p> <p><u>Graphics Design</u>– AAS only Yr. 1 – Introduction to Graphics & Design Yr. 2 – Graphics Design & Production Yr. 3 – Adv. Graphic Design or Adv. Graphic Output Processes</p>	<p><u>Finance Cluster</u> <u>Advanced Accounting</u> – AAS only Yr. 1 – Intro to Business & Technology Yr. 2 – Financial Literacy Yr. 3 – Accounting and Banking Yr. 4 – Accounting and Investing</p> <p><u>Basic Accounting</u> Yr. 1 – Intro to Business & Technology Yr. 2 – Financial Literacy Yr. 3 – Principles of Accounting I</p> <p><u>Banking, Investing and Insurance</u> Yr. 1 – Intro to Business & Technology Yr. 2 – Financial Literacy Yr. 3 – Banking, Investing and Insurance</p>

<p><u>Business Mgmt. and Admin. Cluster</u> <u>Small Business Development</u> Yr. 1 – Intro to Business & Technology Yr. 2 – Legal Environ. of Business Yr. 3 – Entrepreneurship</p>	<p><u>Government and Public Admin Cluster</u> <u>Air Force JROTC</u> – DH and OHS Yr. 1 – JROTC Aerospace Science I Yr. 2 – JROTC Aerospace Science II Yr. 3 – JROTC Aerospace Science III Yr. 4 – JROTC Aerospace Science IV</p> <p><u>Navy JROTC</u> – AAS, ELH, HCH, LH, SH, UGH Yr. 1 – JROTC Navy I Yr. 2 – JROTC Navy II Yr. 3 – JROTC Navy III Yr. 4 – JROTC Navy IV</p>
<p><u>Health Science Cluster</u> <u>Allied Health and Medicine</u> Yr. 1 - Intro to Healthcare Yr. 2 – Essentials of Healthcare⁺ Yr. 3 – Allied Health and Medicine</p> <p><u>Emergency Medical Responder</u> – AAS only Yr. 1 - Intro to Healthcare Yr. 2 – Essentials of Healthcare⁺ Yr. 3 - Emergency Medical Responder</p> <p><u>Health Information Technology</u> – AAS only Yr. 1 – Intro to Healthcare Yr. 2 – Essentials of Health IT Yr. 3 – Applications of Health IT</p> <p><u>Pharmacy</u> – AAS only Yr. 1 – Intro to Healthcare Yr. 2 – Essentials of Healthcare⁺ Yr. 3 – Pharmacy Operations & Fundamentals</p> <p><u>Phlebotomy</u> – AAS only Yr. 1 – Intro to Healthcare Yr. 2 – Essentials of Healthcare⁺ Yr. 3 – Diagnostics Phlebotomy</p> <p><u>Sports Medicine</u> – AAS only Yr. 1 – Intro to Healthcare Yr. 2 – Essentials of Healthcare⁺ Yr. 3 – Principles of Sports Medicine⁺</p> <p><u>Surgical Technician I</u> – AAS only Yr. 1 – Intro to Healthcare Yr. 2 – Essentials of Healthcare⁺ Yr. 3 – Surgical Tech I</p>	<p><u>Hospitality & Tourism Cluster</u> <u>Culinary Arts</u> – AAS only Yr. 1 – Intro to Culinary Arts Yr. 2 – Culinary Arts I Yr. 3 – Culinary Arts II</p> <p><u>Human Services Cluster</u> <u>Nutrition and Food Science</u> Yr. 1 - Food, Nutrition, and Wellness Yr. 2 – Food for Life⁺ Yr. 3 - Food Science^{*+}</p> <p><u>Personal Care Services - Cosmetology</u> – AAS only Yr. 1 – Intro to Personal Care Services Yr. 2 - Cosmetology II Yr. 3 - Cosmetology III</p>
	<p><u>Information Technology Cluster</u> <u>IT Support and Services</u> – AAS only Yr. 1 – Intro to Digital Technology Yr. 2 – IT Essentials Yr. 3 – IT Support</p> <p><u>Networking</u> – AAS only Yr. 1 – Intro to Digital Technology Yr. 2 – Networking Fundamentals Yr. 3 – Networking Systems & Support</p> <p><u>Programming</u> Yr. 1 – Intro to Digital Technology Yr. 2 – Computer Science Principles⁺ Yr. 3 – Programming, Games, Apps & Society⁺</p> <p><u>Advanced Programming</u> Yr. 1 – Intro to Digital Technology Yr. 2 – Computer Science Principles⁺ Yr. 3 – AP Computer Science⁺</p> <p><u>Cybersecurity</u> – AAS only Yr. 1 – Intro to Digital Technology Yr. 2 – Intro to Cybersecurity Yr. 3 – Advanced Cybersecurity</p>

<p><u>Law, Public Safety, Corrections & Security Cluster</u> <u>Law Enforcement Services</u> Yr. 1 - Intro to Law, Public Safety, Corrections & Security Yr. 2 – Criminal Justice Essentials Yr. 3 - Forensic Science and Criminal Investigations</p>	<p><u>Science, Technology, Engineering & Mathematics Cluster</u> <u>Engineering and Technology</u> Yr. 1 - Found. of Engineering & Technology Yr. 2 - Engineering Concepts Yr. 3 - Engineering Applications Yr. 4 - Research, Design, and Project Mgmt.</p> <p><u>Electronics</u> – AAS only Yr. 1 - Foundations of Electronics Yr. 2 - Advanced AC and DC Circuits+ Yr. 3 - Digital Electronics*</p> <p><u>Engineering Graphic and Design</u> – AAS only Yr. 1 – Intro to Mechanical Drafting and Design Yr. 2 – Survey of Engineering Graphics Yr. 3 – 3D Modeling and Analysis</p>
<p><u>Manufacturing Cluster</u> <u>Mechatronics</u> – AAS only Yr. 1 – Intro to Mechatronics Yr. 2 – AC Theory, Electric Motors, and Hydraulic Systems Yr. 3 – Semiconductors, Mechanical Systems, and Pump and Piping Systems</p>	<p><u>Transportation, Distribution & Logistics Cluster</u> <u>Automobiles Maintenance & Light Repair</u> – AAS only Yr. 1 – Basic Maintenance and Light Repair Yr. 2 – Maintenance and Light Repair II Yr. 3 – Maintenance and Light Repair III</p> <p><u>Automotive Service Technology</u> – AAS only Yr. 1 – Automobile Service Technology IV Yr. 2 – Automobile Service Technology V Yr. 3 – Automobile Service Technology VI</p>
<p><u>Marketing Cluster</u> <u>Marketing Communications & Promotions</u> – AAS only Yr. 1 – Marketing Principles Yr. 2 – Promotion and Professional Sales Yr. 3 – Marketing Communications Essentials</p> <p><u>Marketing and Management</u> Yr. 1 – Marketing Principles Yr. 2 – Marketing & Entrepreneurship Yr. 3 – Marketing & Management</p>	<p><u>Diesel Maintenance</u> – AAS only Yr. 1 – Intro to Diesel Mechanics Yr. 2 – Diesel I Yr. 3 – Diesel II</p> <p><u>Supply Chain Management</u> – AAS only Yr. 1 – Logistics Fundamentals Yr. 2 – Logistics Operations Yr. 3 – Materials Management</p>

~Work-Based Learning opportunities are available in all pathways~

AAS only – this pathway is available exclusively at the Academy for Advanced Studies

*Designates CTAE courses that will count toward satisfying the fourth science requirement and are recognized by the Board of Regents as a fourth science

+ Designates CTAE courses that will count toward satisfying the fourth science requirement but are not recognized as a fourth science by the Board of Regents

<https://www.gadoe.org/Curriculum-Instruction-and-Assessment/Curriculum-and-Instruction/Documents/Science/Science%20%28Fourth%20Science%20Options%29%202017-2018.pdf>