

Career, Technical and Agricultural Education Pathway Completion

CTAE Pathway Completers: Ready for the Future!

A CTAE Pathway Completer is a student who successfully completes three courses in one Career, Technical, and Agricultural Education (CTAE) pathway. These students are eligible to earn a Career Ready Diploma Seal, signaling to employers that they are prepared to participate in the workforce.

Students may earn each of the three seals for their accomplishments. Foil seals will be affixed to their diplomas awarded at graduation. In addition, students earning the Pathway Skills Seal receive a maroon braided graduation cord.



Employability/Soft
Skills Seal



Leadership
Skills Seal



Pathway
Skills Seal

Why It Matters: Benefits for Students

Career Ready Diploma Seals are awarded to graduating seniors who demonstrate career readiness through coursework, experiences, and achievements. These seals are recognized by Georgia employers and industry partners as a mark of professionalism and preparedness.

Benefits:

- Recognition on diploma and transcripts
- Boosts college and career applications
- Connects students with real-world experiences
- Demonstrates leadership, professionalism, and technical skills

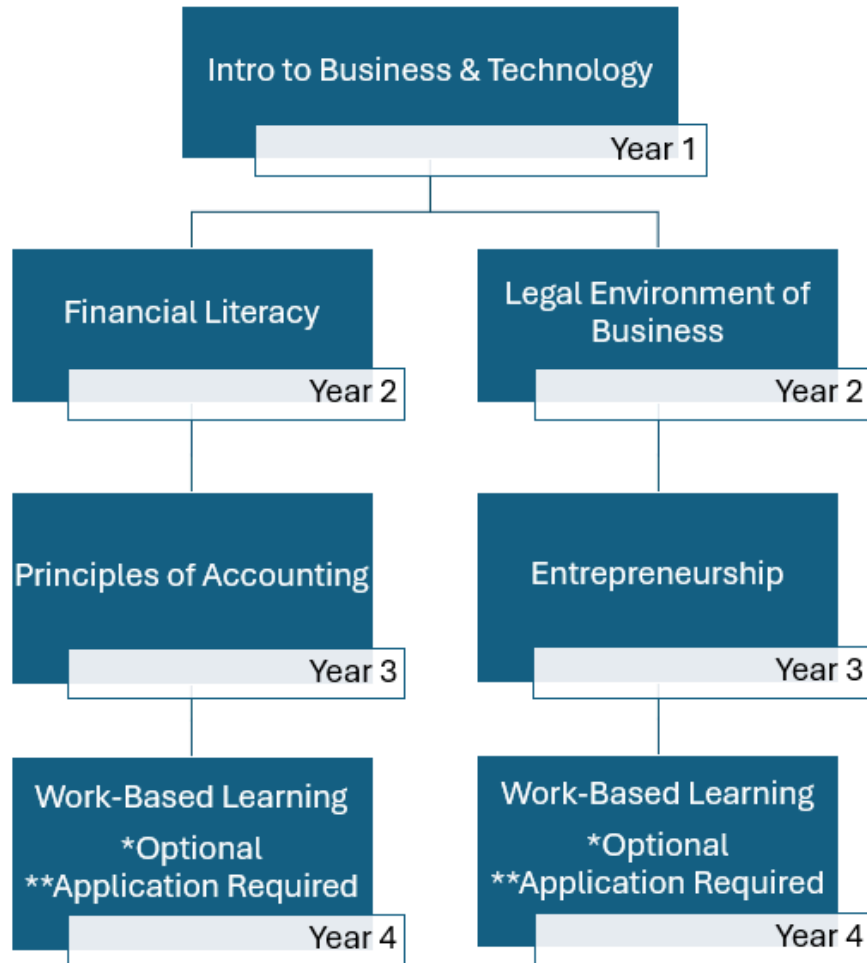


Career Ready Diploma Seals Requirements

Career, Technical and Agricultural Education


Accounting & Entrepreneurship Pathways

Students have two paths to choose between and must take the courses in sequence. In some rare cases (teacher approved and communicated with you), they can double up senior year.



Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Intro to Business and Technology	07.4413001 fall 07.4413002 spring	Y	9 - 12	None	The course provides an overview of business and technology skills required for today's business environment. Knowledge of business principles, the impact of financial decisions, and technology proficiencies demanded by business combine to establish the elements of this course. Emphasis is placed on developing proficient fundamental computer skills required for all career pathways. Students will learn essentials for working in a business environment, managing a business, and owning a business. The intention of this course is to prepare students to be successful both personally and professionally in an information-based society.

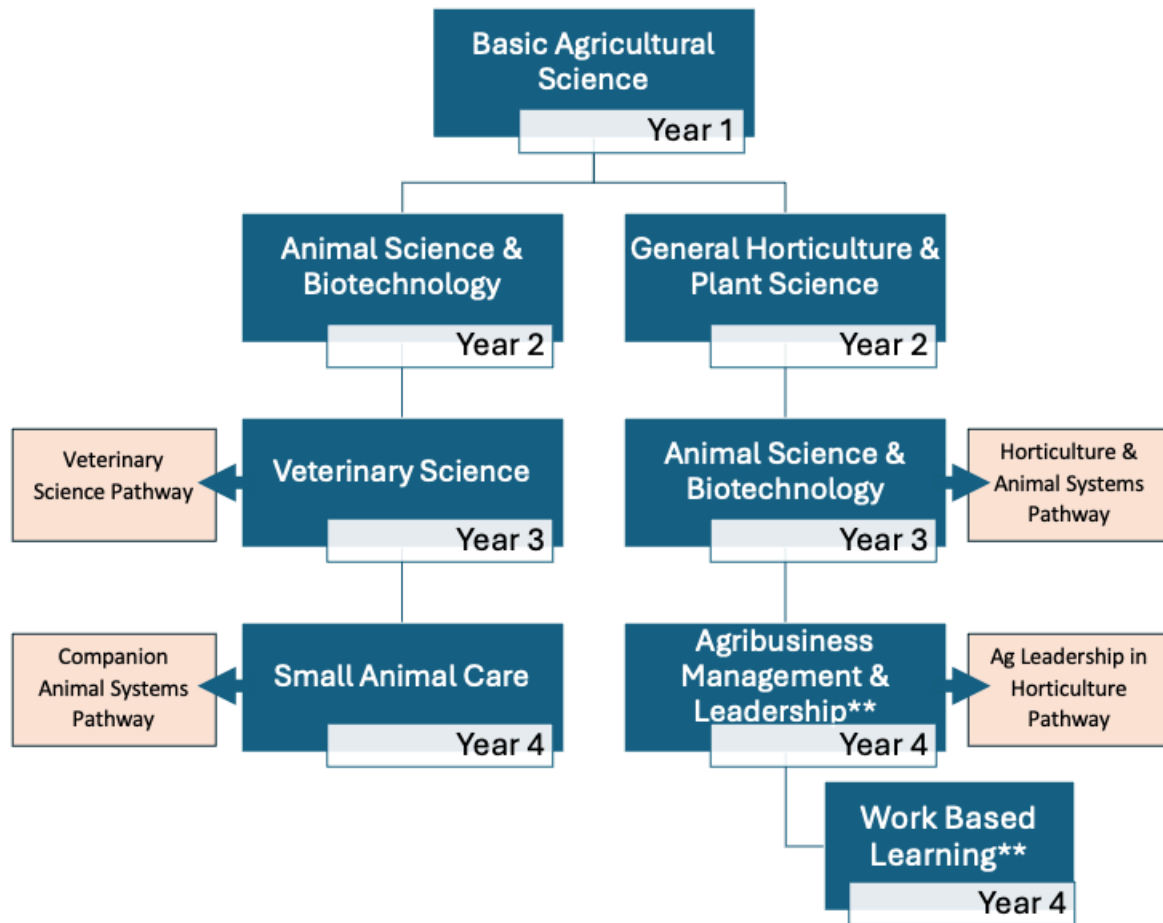
Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Financial Literacy	07.4260001 fall	Y	10-12	Intro to Business and Tech	<p>How money smart are you? Step into this course specifically designed for high school students to understand the importance of the financial world, including planning and managing money wisely. Areas of study taught through application in personal finance include sources of income, budgeting, banking, consumer credit, credit laws and rights, personal bankruptcy, insurance, spending, taxes, investment strategies, savings accounts, mutual funds and the stock market, buying a vehicle, and living independently. Based on the hands-on skills and knowledge applied in this course, students will develop financial goals, and create realistic and measurable objectives to be MONEY SMART! Financial Literacy places great emphasis on problem solving, reasoning, representing, and connecting and communicating financial data.</p>
	07.4260002 spring				
Legal Environment of Business	06.4150001 fall	Y	10-12	Intro to Business and Tech	<p>This course addresses statutes and regulations affecting businesses, families, and individuals. All students will benefit with the knowledge of business law as they will eventually assume roles as citizens, workers, and consumers in their communities and in society at large. Get an overview of business law while concentrating on the legal aspects of business ownership and management. Legal issues addressed include court procedures, contracts, torts, consumer law, employment law, environmental law, international law, ethics, and the role of the government in business.</p>
	06.4150002 spring				
Principles of Accounting	07.4110001 fall	Y	11-12	Financial Literacy	<p>This is a skills-level course that is of value to all students pursuing a strong background in business, marketing, and management. Using financial information, students will learn how to make decisions about planning, organizing, and allocating resources using accounting procedures. Performing accounting activities for sole proprietorships and corporations following Generally Accepted Accounting Procedures are included in the course. Students analyze business transactions and financial statements, perform payroll, and evaluate the effects of the economics health of a business.</p>
	07.4110002 spring				

Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Entrepreneurship	06.4161001 fall 06.4161002 spring	Y	11- 12	Legal Environ of Business	Want to own and manage your own business? If so, this course is for you! Build on the theories learned in Intro to Business & Legal Environment of Business by learning through practical application scenarios. You will study market research, funding, location, marketing plan, management, accounting, business ethics, culture, day-to-day operations, characteristics of an entrepreneur, and create a business plan. You will also help manage and operate the Paw Prints shop.
Work-Based Learning	Various course numbers	Y	11- 12	Application and Teacher Approval 	Work-Based Learning placements represent the pinnacle of the Career-Related Education experience. To qualify for a WBL placement, a student must be in grades 11 or 12. Students must also have a defined Career Pathway in order to participate in a Work-Based Learning placement. There are several opportunities for students to participate in work-based learning. These opportunities include employability skill development, Cooperative Education, Internship, Youth Apprenticeship, and Great Promise Partnership.

Career, Technical and Agricultural Education

Agriscience & Veterinary Pathways


Students have two paths to choose between and must take the courses in sequence. In some rare cases (teacher approved and communicated with you), they can double up senior year.



**** Agribusiness & WBL course must be taken together.**

Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Basic Agricultural Science	02.471001 fall 02.471002 spring	Y	9 - 12	None	This course is designed as the foundational course for Ag Pathways. The course comprises the three circle model of Ag Education: class and laboratory instruction, supervised agricultural experiences (SAEs), and FFA. The course introduces students to the major areas of agricultural production and research; presents problem solving lessons and introductory skills within each sector of the ag industry and explores ag related technologies.

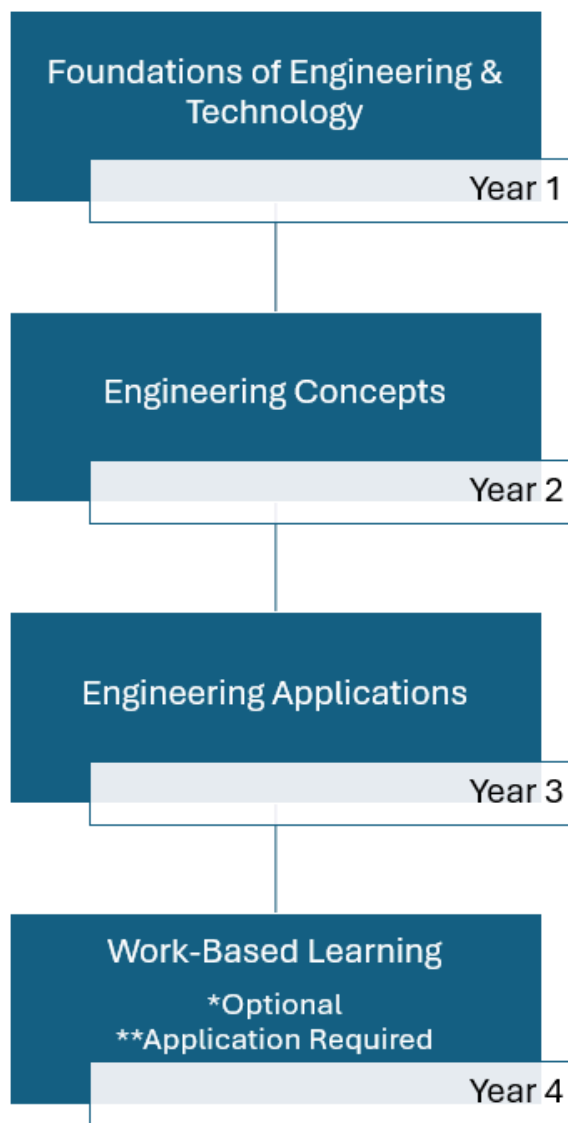
Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Animal Science Technology Biotech *Course meets 4th science credit requirement	02.4210001 fall 02.4210002 spring	Y	9-12	Basic Ag Science	<p>This course is designed to introduce students to the scientific principles of the breeding and husbandry of agricultural animals, and the production, processing, and distribution of agricultural animal products. Through this course, students gain insight into the industries that get livestock from farm to fork to become more informed consumers when purchasing animal products and by-products. Through interaction with livestock, students leave this course with knowledge and skills related to raising and handling agricultural animals.</p>
Veterinary Science	02.4240001 fall 02.4240002 spring	Y	10-12	Animal Science Tech Biotech	<p>The agricultural education course in veterinary science covers the basics of animal care. Topics covered include disease, parasites, nutrition, behavior, grooming, and general animal care. Skills covered include injections, suturing, restraints, and basic veterinary laboratory procedures. This course allows students entering the workforce after graduation from high school to develop entry-level skills to become employed and to continue education on the job. Students will utilize the skills learned in this course by operating a doggie daycare program.</p>
Small Animal Care and Management	02.4230001 fall 02.4230002 spring	Y	11-12	Vet Science	<p>The goal of this course is designed to provide students with skills and concepts involved with the care and management of companion animals. Students in this course will gain hands-on experiences of small animal management through the care of the program's animals. Students will practice industry-standard grooming in partnership with the Veterinary Science doggie daycare program.</p>

Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
General Horticulture and Plant Science *Course meets 4th science credit requirement	01.4610001 fall 01.4610002 spring	Y	9-12	Basic Ag Science	<p>The course introduces students to the major concepts of plant and horticulture science. Students will explore careers in Georgia's green industry from landscape design, greenhouse nursery management, floral design, turfgrass, orchards, small scale farming, and vegetable/cut flower production. Students will gain hands-on industry practices of the cultivation of ornamental, edible, and medicinal plants through hands-on project based instruction.</p>
Agribusiness & Leadership	01.4120001 fall 01.4120002 spring	Y	11-12	General Hort & Plant Science	<p>Students in this course will learn agribusiness types, business management, financial analysis, communications, agricultural law, leadership and teamwork, ethics, and personal finance. Students in this course will operate a weekly fresh produce subscription service where they will develop and operate all components of an LLC business. Students will be responsible for developing business plans, running social media, operating a website, and selling as vendors at local markets.</p>
Agribusiness WBL	Various Course Numbers	Y	11-12	Must be taken with Agribusiness and Leadership 	<p>Students in this course intern at the Old Rucker Farm in Alpharetta. Students who are in their final year and have or are currently completing at least one pathway could take this course. Students would apply their skills learned from a completed pathway in animal and/or plant production to manage daily operations of the farm for events and local markets.</p>


Career, Technology and Agriculture Education

Engineering Pathway

Students have one path available for Engineering and must take the courses in sequence.



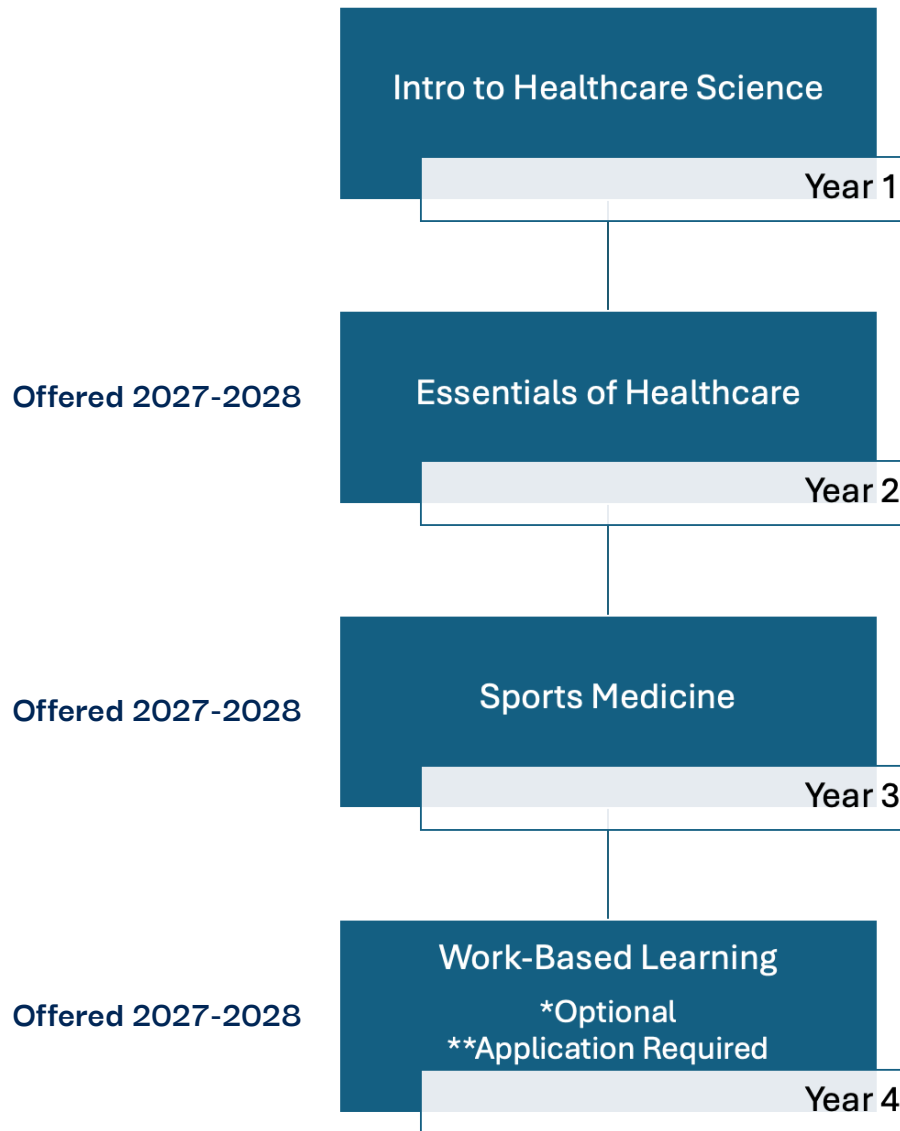
Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Foundations of Engineering Technology	21.4250001 fall	Y	9 - 12	None	Safety and Hand Tool Identification, Machine Safety and Usage, Intro to Amatrrol Online Training, Intro to CAD Fundamentals (Onshape), Intro to Adobe Illustrator, Adobe Express and CC, Intro to vexcode VR Robotics, VEX Cortex and V5 Robotics, Engineering and Design Thinking Processes. Practical applications of wood machining and tool use for those who qualify.
	21.4250002 spring				

Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Engineering Concepts	21.4710001 fall 21.4710002 spring	Y	9-12	Foundations of Engineering Tech	Safety and higher-level machine and power tool use, Advanced CAD (SolidWorks), Design Thinking Processes, and Introduction to Master Projects for 2nd Semester.
Engineering Applications	21.4720001 fall 21.4720002 spring	Y	11-12	Engineering Concepts	Safety and high-level machine and power tool use, SolidWorks CAD CSWA Certification, High-Level Master Projects, SwitchLab Electric Vehicle curriculum for top qualifying students, and complete the Engineering End of Pathway Exam. *Welding/Plasma will be taught only to students requiring it for Master Projects or EV Competition Team.
Work-Based Learning	Various course numbers	Y	11-12	Application and Teacher Approval 	Work-Based Learning placements represent the pinnacle of the Career-Related Education experience. To qualify for a WBL placement, a student must be in grades 11 or 12. Students must also have a defined Career Pathway in order to participate in a Work-Based Learning placement. There are several opportunities for students to participate in work-based learning. These opportunities include employability skill development, Cooperative Education, Internship, Youth Apprenticeship, and Great Promise Partnership.

Career, Technical and Agricultural Education

Health Science - Sports Medicine Pathway

Students have one path available for Health Science and must take the courses in sequence.



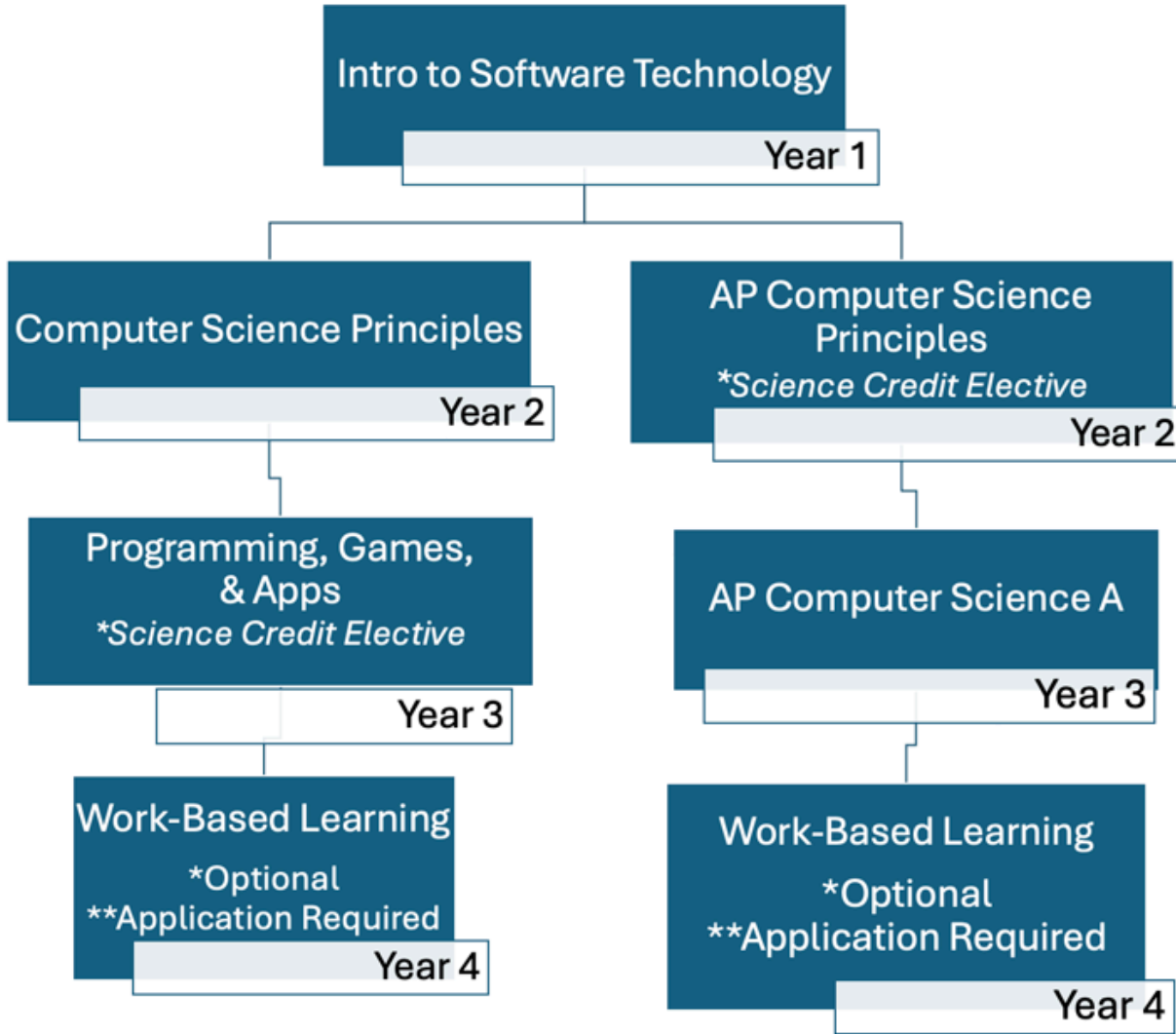
Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Intro to Healthcare Science	25.5210001 fall	Y	9 - 12	None	This course will enable students to receive initial exposure to the many Healthcare Science careers as well as employability, communication, and technology skills necessary in the healthcare industry. The concepts of human growth and development, interaction with patients and family members, health, wellness, and preventative care are evaluated, as well as the legal, ethical responsibilities of today's healthcare provider. Fundamental healthcare skills development is initiated including microbiology (infection prevention), basic life support, first aid, and vital signs assessments.
	25.5210002 spring				

Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Essentials of Healthcare OFFERED 2027-2028 *Course meets 4th science credit requirement	25.4400011 fall 25.4400012 spring	Y	10-12	Intro to Healthcare Science	<p>This course is a medical-focused anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. The prevention of disease and the diagnosis and treatment that might be utilized are addressed, along with medical terminology related to each system. This course provides an opportunity to demonstrate technical skills that enforce the goal of helping students make connections between medical procedures and the pathophysiology of diseases and disorders.</p>
Sports Medicine OFFERED 2027-2028	25.4460001 fall 25.4460000 spring	Y	11-12	Essentials of Healthcare	<p>The course is appropriate for students who wish to pursue a career in healthcare with a focus on the musculoskeletal system, injury assessment, injury prevention, or rehabilitation including careers in Sports Medicine and Rehabilitative Services. This course will enable students to receive initial exposure to therapeutic services skills and attitudes applicable to the healthcare industry. The concepts of anatomy and physiology, assessment, preventative and rehabilitative care are introduced. Fundamental healthcare skills development is initiated, including medical terminology, kinesiology, patient assessment, record keeping, and basic life support.</p>
Work-Based Learning OFFERED 2027-2028	Various course numbers	Y	11-12	Application and Teacher Approval 	<p>Work-Based Learning placements represent the pinnacle of the Career-Related Education experience. To qualify for a WBL placement, a student must be in grades 11 or 12. Students must also have a defined Career Pathway in order to participate in a Work-Based Learning placement. There are several opportunities for students to participate in work-based learning. These opportunities include employability skill development, Cooperative Education, Internship, Youth Apprenticeship, and Great Promise Partnership.</p>

Career, Technology and Agriculture Education


Information Technology Pathway

Students have two paths to choose between and must take the courses in sequence. In some rare cases (teacher approved and communicated with you), they can double up senior year.



Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Introduction to Software Technology	10.4460001 (fall)	Y	9 - 12	None	This course is designed for high school students to understand, communicate, and adapt to a digital world as it impacts their personal life, society, and the business world. Exposure to foundational knowledge in programming languages, software development, app creation, and user interfacing applications are all taught in a computer lab with hands-on activities and project-focused tasks.
	10.4460002 (spring)				

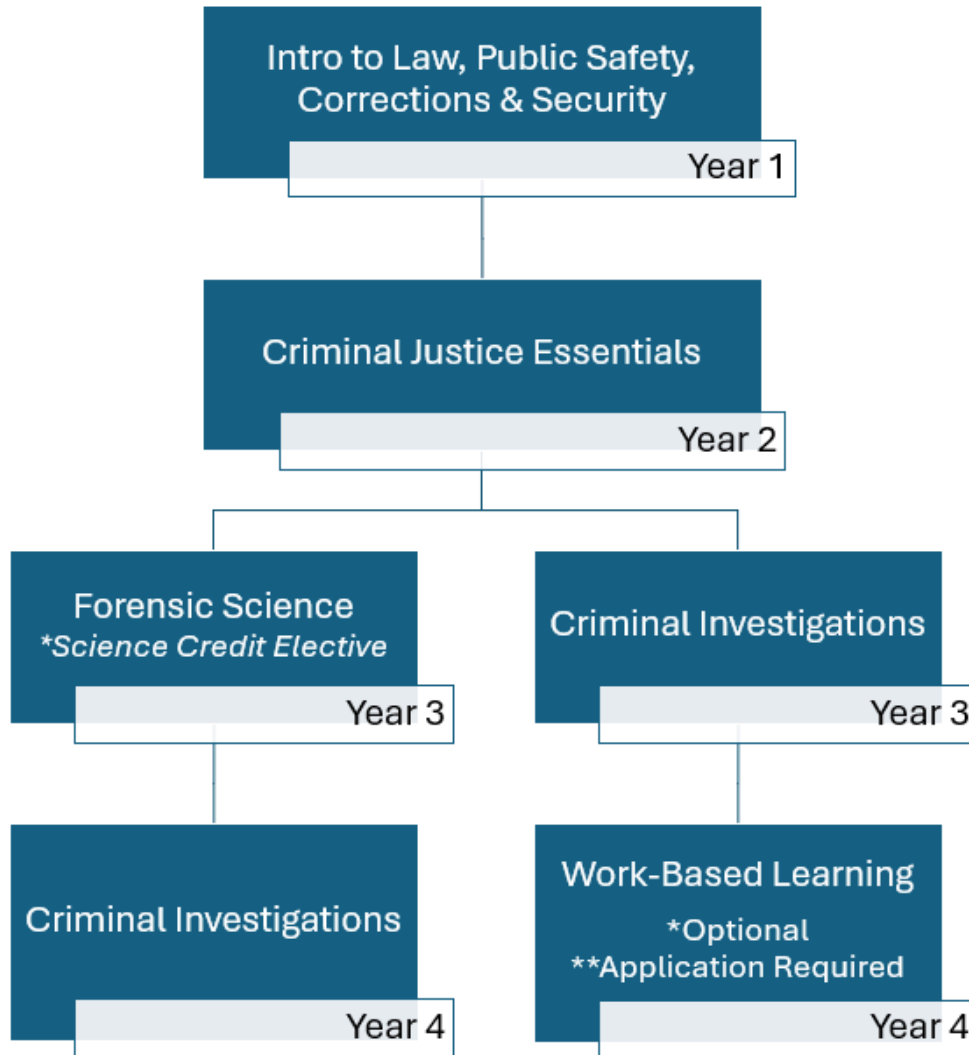
Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Computer Science Principles	11.4710001 (fall) 11.4710002 (spring)	Y	9 - 12	Intro to Software Tech	How can computing change the world? Demonstrate and build your problem-solving ability all while connecting the relevance of computer science to society! Computer Science (CS) Principles is an engaging course that is focused on connecting computing, developing computational artifacts, abstracting, analyzing problems and artifacts, communicating, and collaborating.
AP Computer Science Principles *Meets 4th science, or 4th math, or world lang. requirement; Two comp sci courses from the same pathway will satisfy 2 years of sequenced world lang. courses.	11.0190001 fall 11.0190002 spring	Y	10-12	Intro to Software Tech	<p>This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and career.</p> <p>Whether it is 3-D animation, engineering, music, app development, medicine, visual, robotics, or political analysis, computer science is the engine that powers the technology, productivity, and innovation that drive the world. Computer science experience has become imperative for today's students and the workforce of tomorrow.</p> <p>AP Computer Science Principles is designed with the goal of creating leaders in computer science fields and attracting and engaging those who are traditionally underrepresented with essential computing tools and multidisciplinary opportunities.</p>
Programming, Games, Apps/Society Game Design *Meets 4th science, or 4th math, or world lang. requirement; Two comp sci courses from the same pathway will satisfy 2 years of sequenced world lang. courses.	11.4720001 fall 11.4720002 spring	Y	11-12	AP Comp Science Principles	<p>Are you ready to design and develop? The course is designed for high school students to strategize, design, and develop games and mobile and desktop applications that can be produced in the real world. Students will learn about life cycles of project development and use models to develop applications. Attention will be placed on how user interfaces affect the usability and effectiveness of a game or an application.</p> <p>Programming constructs will be employed which will allow students' applications to interact with "real world," stimuli. The course exposes students to privacy, legality, and security considerations with regards to the software industry.</p>

Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
<p>AP Computer Science A</p> <p>*Meets 4th science, or 4th math, or world lang. requirement; Two comp sci courses from the same pathway will satisfy 2 years of sequenced world lang. courses.</p>	<p>11.0160001 (fall)</p> <p>11.0160002 (spring)</p>	<p>Y</p>	<p>11-12</p>	<p>AP Comp Science Principles</p>	<p>Major themes include critical thinking and problem-solving in computer programming. Students design, implement, and analyze solutions as well as write, run, test, and debug solutions in the Java programming language. Students should have completed Algebra II and Pre-Calculus (preferred).</p>
<p>Work-Based Learning</p>	<p>Various Course Numbers</p>	<p>Y</p>	<p>11-12</p>	<p>Application and Teacher Approval</p> 	<p>Work-Based Learning placements represent the pinnacle of the Career-Related Education experience. To qualify for a WBL placement, a student must be in grades 11 or 12. Students must also have a defined Career Pathway in order to participate in a Work-Based Learning placement. There are several opportunities for students to participate in work-based learning. These opportunities include employability skill development, Cooperative Education, Internship, Youth Apprenticeship, and Great Promise Partnership.</p>

Career, Technology and Agriculture Education


Law Enforcement Services Pathways

Students have two paths to choose between and must take the courses in sequence. In some rare cases (teacher approved and communicated with you), they can double up senior year.



Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Introduction to Law, Public Safety, Corrections, & Security (LPSCS)	43.4500001 fall 43.4500002 spring	Y	9 - 12	None	This course provides students with career-focused educational opportunities in LPSCS fields. It examines the basic concepts of law related to citizens' rights and responsibilities. Students will receive instruction in critical skill areas including communicating with diverse groups, conflict resolution, ethics, CERT (Citizens Emergency Response Training), basic firefighting, and civil and criminal law.

Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Criminal Justice Essentials	43.4510001 fall	Y	10-12	Intro to Law	This course provides an overview of the criminal justice system. Starting with historical perspectives of the origin of the system, the course reviews the overall structure. Students will become immersed in criminal and constitutional law and will review basic law enforcement skills. The course ends with a mock trial to provide participants with a first-hand experience of the criminal justice system.
	43.4510002 spring				
Forensic Science *Course meets 4th science credit requirement	43.4520001 fall	Y	11-12	Criminal Justice Essentials	This course will provide students with an opportunity to explore the basic processes and principles of forensic science as it relates to criminal investigation. Students will learn the importance of the identification, collection, and processing of evidence and of its contribution to criminal investigation. Students will learn of the legal responsibilities and challenges which the forensic investigator may encounter. Students will also learn of the role of the criminal investigator. Included in this course will be the importance of preserving and documenting the crime scene and enabling the investigator to analyze evidence and its relationship to the crime. The student will also study interviews and interrogations and how those statements are used as evidence in court.
	43.4520002 spring				
Criminal Investigation	43.4530001 fall	Y	12	Forensic Science	This course is designed to provide students with an opportunity to explore the basic processes and principles of a criminal investigation. This course is an analytical examination of crime detection and solution, including such topics as crime scene procedures, physical evidence, interviews, field notes and reporting, follow-up investigation, interrogation, and rules of evidence. Specific detail is given to investigations involving homicide, sex-related offenses, and crimes against children, robbery, larceny, vehicle thefts, computer crime, environmental crime, arson, and drug abuse. Additionally, many areas of specialized crimes will be discussed and reviewed. This course will involve projects, where groups will work to develop and investigate various crime scenarios. There is an in-depth analysis of investigation methodologies addressing inductive and deductive reasoning to assess the decision-making process to solve crimes.
	43.4530001 spring				

Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
<p>Law & Justice WBL</p>	<p>Various Course Numbers</p>	<p>Y</p>	<p>11-12</p>	<p>Application and Teacher Approval</p> 	<p>Work-Based Learning placements represent the pinnacle of the Career-Related Education experience. To qualify for a WBL placement, a student must be in grades 11 or 12. Students must also have a defined Career Pathway in order to participate in a Work-Based Learning placement. There are several opportunities for students to participate in work-based learning. These opportunities include employability skill development, Cooperative Education, Internship, Youth Apprenticeship, and Great Promise Partnership.</p>


Career, Technology and Agricultural Education

Marketing Pathway

Students have one path available for Marketing and must take the courses in sequence.



Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Marketing Principles	08.4740001 fall	Y	9-12	None	Marketing Principles addresses all the ways in which marketing satisfies consumer and business needs and wants for products and services. Students develop an understanding of the functions of marketing and how these functional areas affect all businesses. They learn basic marketing concepts and the role of marketing in our economy.
	08.4740002 spring				

Course	Course Number	Term	Grade (s)	Prerequisite (s)	Curriculum
Intro to Sports & Entertain. Marketing	08.4780001 fall	Y	9-12	Marketing Principles	Business fundamentals, product mix, product knowledge, product/service management, business regulations, interpersonal skills, selling, marketing-information management, economics, distribution, pricing, advertising, publicity/public relations, sales promotion, business risks, and organization.
	08.4780002 spring				
Advanced Sports & Entertain. Marketing	08.4850001 fall	Y	10-12	Intro to Sports & Entertain Marketing	Marketing-information management, selling, publicity/public relations, sales promotion, management of promotion, product mix, pricing, positioning, and marketing planning. Project-based instruction, together with a variety of work-based learning activities, should be incorporated in this course to provide real world application.
	08.4850002 spring				
Work-Based Learning	Various Course Numbers	Y	11-12	Application and Teacher Approval 	Work-Based Learning placements represent the pinnacle of the Career-Related Education experience. To qualify for a WBL placement, a student must be in grades 11 or 12. Students must also have a defined Career Pathway in order to participate in a Work-Based Learning placement. There are several opportunities for students to participate in work-based learning. These opportunities include employability skill development, Cooperative Education, Internship, Youth Apprenticeship, and Great Promise Partnership.