

## Career & Technical Education

Course Title	Course #	Term	Grade(s)	Prerequisite(s)	Course Description
<b>Introduction to Healthcare Science</b>	25.5210000	Y	9-10	None	Health, wellness, and preventative care are evaluated, as well as ethical and legal responsibilities of today's healthcare provider. Fundamental healthcare skills development is initiated including medical terminology, microbiology, and basic life support. First course in Sports Medicine and Surgical Technology Pathways.
<b>Essentials of Therapeutic Services</b>	25.4400000	Y	10-12	Introduction to Healthcare	Anatomy course addressing the physiology of each body system, along with the investigation of common diseases, disorders and emerging diseases. Second course in Sports Medicine and Surgical Technology Pathways.
<b>Surgical Technician</b>	25.4470000	Y	11-12	Introduction to Healthcare and Essentials of Therapeutic Services	Fundamental surgical technician skills and knowledge, including safety, infection control, pharmacology, surgical equipment, surgical terminology, perioperative procedures, instruments, and sterilization. Third course in Surgical Technology Pathway.
<b>Sports Medicine</b>	25.4460000	Y	11-12	Introduction to Healthcare and Essentials of Therapeutic Services	Anatomy and physiology assessment, preventative and rehabilitative care, medical terminology, kinesiology, patient assessment, record keeping, and basic life support. Third course in Sports Medicine Pathway.
<b>Intro to Business &amp; Technology</b>	7.4413000	Y	9-12	None	Business characteristics, ownership and communication, finance, human resources, leadership, international business, marketing. First course in Entrepreneurship Pathway.
<b>Legal Environment of Business</b>	06.4150000	Y	10-12	Introduction to Business & Technology	Rights and responsibilities in personal law and business law; application activities to examine consumer, citizen and worker roles; US legal system and employer-employee relations. This course is offered in alternate years with Entrepreneurship. Second or third course in Entrepreneurship Pathway. Offered in the 2018-2019 school year.
<b>Entrepreneurship</b> <i>This course is not offered in the 20-21 school year</i>	<del>06.4161000</del>	<del>Y</del>	<del>10-12</del>	<del>Introduction to Business &amp; Technology</del>	<del>Market research, funding, location, marketing plan, management, accounting process, business ethics, culture, day to day operations, characteristics of an entrepreneur, goal setting and business plan. This course is offered in alternate years with Legal Environment of Business. Second or third course in Entrepreneurship Pathway.</del>
<b>Intro to Digital Technology</b>	11.4150000	Y	9-10	None	Introduction to computers, multimedia graphics, databases, web design, and programming. First course in Computer Science & Game Design Pathways.
<b>AP Computer Science Principles</b>	11.4710000	Y	10-12	Intro to Digital Technology	Introduction to the central ideas of computing and computer science, ideas of computational thinking, and activities that show how computing and computer science change the world. <b>This course qualifies as the fourth science course for graduation and for college admissions.</b> It meets the RIGOR requirement. Second course in Computer Science Pathway.
<b>AP Computer Science A</b>	11.0160010	Y	10-12	<b>Required</b> prerequisite: AP Computer Science Principles	Application of data abstraction and encapsulation, class specifications and relationships among classes, design and interface, modification of existing code, extension of existing code using inheritance, and analysis of algorithms. This course qualifies as the fourth science course for graduation and for college admissions. <b>It meets the RIGOR requirement.</b> Third course in Computer Science Pathway.

<b>Game Design: Animation &amp; Simulation</b>	11.4290000	Y	10-12	Intro to Digital Technology & AP CS Principles OR AP Computer Science	Students completing this course will gain an understanding of the fundamental principles used at every stage of the game creation process. First, game genres and modes of play are explored in terms of the psychology of incentives, motivation to play, and social networking. Next, virtual characters and non-player characters are reviewed from concept drawing to 2D and 3D art, rigging, and animation. Next, level design, storytelling, and animation are added to develop a virtual world around the characters. These same techniques are at work in training simulator systems, virtual shopping experiences, augmented reality, and a number of other important career options. Schools offering this program can provide a foundation of traditional drawing, illustration, and art courses to make way for the 2D and 3D animation, storytelling, character development, audio, and game technology.
<b>Foundations of Engineering &amp; Technology</b>	21.4250000	Y	9-12	None	Robotics and manufacturing, computer numerical control, automation, research and computer-aided design, advertising and presentation, radio-audio communication, laser and fiber optics, flight and space, solar energy, electricity and electronics, transportation, simple machines, and pneumatics/hydraulics. First course in Engineering & Technology Pathway.
<b>Engineering Concepts</b>	21.4710000	Y	10-12	Foundations of Engineering & Technology	Technological concepts, process and systems, problem-solving, safety, teamwork, equipment, analysis and evaluation, and career opportunities. Second course in Engineering & Technology Pathway.
<b>Engineering Applications</b>	21.4720000	Y	11-12	Engineering Concepts	Engineering concepts, process and systems, problem solving, safety, teamwork, equipment, analysis and evaluation, and career opportunities. Third course in Engineering & Technology Pathway.
<b>Research Design &amp; Project Management</b>	21.4610000	Y	11-12	Engineering Applications	Research, Design, and Project Management is the fourth course in the engineering pathway. This course provides students with opportunities to work with students from other pathways as a member of a design team. Research strategies, prototype testing and evaluation, and communication skills are emphasized.
<b>Audio &amp; Video Technology &amp; Film I</b>	10.5181000	Y	9-12	Application only. Approved by Mr. Hopkins	This course is the foundational course in the Audio & Video Technology & Film pathway. The course prepares students for employment or entry into a postsecondary education program in the audio and video technology career field. Topics covered may include, but are not limited to: terminology, safety, basic equipment, script writing, production teams, production and programming, lighting, recording and editing, studio production, and professional ethics. Skills USA and Technology Student Association (TSA) are examples of, but not limited to, appropriate organizations for providing leadership training and/or for reinforcing specific career and technical skills and may be considered an integral part of the instructional program. All material covered in Audio & Video Technology & Film I will be utilized in subsequent courses. <b>An application must be completed to be approved for course. Please see Mr. Hopkins for the application. The application must be submitted by the last day for initial schedule requests.</b>

<b>Audio &amp; Video Technology &amp; Film II</b>	10.5191000	Y	10-12	Audio & Video Technology & Film I	This year-long course is the second in a series of three that prepares students for a career in Audio Video Technology and Film production and/or to transfer to a postsecondary program for further study. Topics include Planning, Writing, Directing and Editing a Production; Field Equipment Functions; Operational Set-Up and Maintenance; Advanced Editing Operations; Studio Productions; Performance; Audio/Video Control Systems; Production Graphics; Career Opportunities; and Professional Ethics. Skills USA and Technology Student Association (TSA) are examples of, but not limited to, appropriate organizations for providing leadership training and/or for reinforcing specific career and technical skills and may be considered an integral part of the instructional program.
<b>Audio &amp; Video Technology &amp; Film III</b>	10.5201000	Y	10-12	Audio & Video Technology Film II	The last class of the pathway is geared towards careers in which students may be able to pursue. Students will manage a student-led broadcast and work, both individually and cooperatively on a variety of projects. You will cover: film making, career opportunities, professional ethics, copyright.
<b>Food, Nutrition &amp; Wellness</b>	20.4161000	Y	9-12	None	This is an essential course designed to introduce students to the field of nutrition and wellness including major trends, issues, employment opportunities, and career paths. Some units are: "Personal Wellness Plan", "Extreme Nutrition Makeover", "What's Growing in the Kitchen", "Get Your Body Moving!", "Beautiful Foods Around the World", and "Forecast for Your Future Wellness".
<b>Food for Life</b> <i>This course is not offered for the 20-21 school year</i>	20.4140000	Y	10-12	Food, Nutrition & Wellness	Food for Life is an advanced course in food and nutrition that addresses the variation in nutritional needs at specific stages of the human life cycle: lactation, infancy, childhood, adolescence, and adulthood including old age. The most common nutritional concerns, their relationships to food choices and health status and strategies to enhance well-being at each stage of the lifecycle are emphasized. This course provides knowledge for real life and offers students a pathway into dietetics, consumer foods, and nutrition science careers with additional education at the post-secondary level. Can be counted as fourth Science credit if the student is enrolled in the Food & Nutrition pathway.
<b>Food Science</b>	20.4181000	Y	10-12	Food, Nutrition & Wellness	Our everyday life is full of encounters with Food Science, which is the study of the relationship between food and the scientific world. This course is not only about the science of food, emerging technologies, basic chemistry concepts and nutrition, but also covers careers in Food Science. From the trivial—like what is the newest color of a candy—to matters of life and death – like hunger—research in food science leads to new discoveries every day. Take this course as part of the Food and Nutrition Pathway and you can earn your fourth science credit. Offered 2018-2019.
<b>Introduction to Law, Public Safety, Corrections &amp; Security</b>	43.4540000	Y	9-10	None	This course provides students with career-focused educational opportunities 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. First course in Law Enforcement Services/Forensics Pathway.

<p><b>Criminal Justice Essentials</b>  <i>This course is not offered in the 20-21 school year</i></p>	43.4510000	Y	10-12	Introduction to Law, Public Safety, Corrections, and Security	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. This course is offered in alternate years with Forensics. Second or third course in Law Enforcement Services/Forensics Pathway.
<p><b>Forensic Science &amp; Criminal Investigation</b></p>	43.4520000	Y	10-12	Intro to Law, Public Safety, Corrections & Security (ILPSCS)	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 the criminal investigation. 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. Students will express understanding of their knowledge by composing clear, concise, and thorough investigative reports, indicating a successful conclusion to an investigation. Most of this course is lab based, students will have practical experiences in the analysis and identification of different types of evidence commonly found at crime scenes.
<p><b>Examining the Teaching Profession</b></p>	13.0110000	Y	9-12	Application only. Approved by Ms. Saren, room 3201	Examining the Teaching Profession is a course designed to introduce the beginning student to the field of education. This course will be taught with “hands-on” activities, observations, and field experiences designed to excite the student about teaching. The student will also be exposed to careers in education and components of the educational system. <b>An application must be completed to be approved for course. Please see Ms. Saren (3201) for the application.</b>
<p><b>Contemporary Issues in Education</b></p>	13.0120000	Y	11-12	Examining the Teaching Profession	This course engages the candidate in observations, interactions, and analyses of critical and contemporary educational issues. The candidate will investigate issues influencing the social political contexts of educational settings in Georgia and the United States and actively examines the teaching profession from multiple vantage points both within and outside of the school. Against this backdrop, the candidate will reflect on and interpret the meaning of education and schooling in a diverse culture and examine the moral and ethical responsibilities of teaching in a democracy. Mastery of standards through project-based learning, technical skills practice, and leadership development activities of the career and technical student organization Future Educators of America (FEA) will provide students with a competitive edge for either entry into the education global marketplace and/or the post-secondary institution of their choice to continue their education and training.

<b>Teaching as a Profession Practicum</b>	13.0130000	Y	10-12	Examining the Teaching Profession - Application	This is the third course in the Teaching as a Profession Pathway. The internship offers a candidate in the Teaching as a Profession Pathway a field experience under the direct supervision of a certified teacher (mentor teacher). The internship stresses observing, analyzing, and classifying activities of the mentor teacher and comparing personal traits with those of successful teachers. The candidate intern will develop a portfolio of their skills, plan and teach a lesson or lessons, understand and practice confidentiality as it pertains to the teaching profession, meet the needs of special education students, maintain the safety of the students and practice professionalism and ethical behavior.
<b>Work-Based Learning/OFF CAMPUS (2-hour)</b>	21.7115001 21.7125002	Y	11-12	Application only. Apply during registration.	2- hour work experience with associated curriculum. <b>Application must be completed to be approved for course. See Dr. Wagner for the application. The application must be submitted by the DUE DATE ON THE APPLICATIONS. THIS IS A YEAR-LONG COURSE.</b>
<b>Work-Based Learning/OFF CAMPUS (1-hour)</b>	21.7114001 21.7124002	Y	11-12	Application only. Apply during registration	1- hour work experience with associated curriculum. <b>Application must be completed to be approved for course. See Dr. Wagner for the application. The application must be submitted by the last date for schedule requests. THIS IS A YEAR-LONG COURSE.</b>
<b>TA (Teacher Assistant) Work-Based Learning (1-hour)</b>	13.7114001 13.7124002	Y	11-12	Application only. Apply during registration.	1- hour work experience as a Teaching Assistant with associated curriculum. <b>Application must be completed to be approved for course. See Dr. Wagner for the application. The application must be submitted by the last date for schedule requests. THIS IS A YEAR-LONG COURSE..</b> <i>Previous AP Course required to be a TA</i>
<b>Tech Eagle Work-Based Learning (1-hour)</b>	11.7114001 11.7124002	Y	11-12	Application only. Apply during registration	1- hour work experience as a Teaching Assistant with associated curriculum. <b>Application must be completed to be approved for course. See Dr. Wagner for the application. The application must be submitted by the last date for schedule requests. THIS IS A YEAR-LONG COURSE.</b> <i>Previous AP Course required to be a TA</i>
<b>Medical Internship Work-Based Learning (1-hour)</b>	25.7114001 25.7124002	Y	12	Intro to Healthcare, Essentials of Therapeutic Services and either Surgery OR Sports Medicine & Application	1- hour internship experience in hospital, medical, dental, physical therapy, veterinary offices, etc. reinforces learning in the classroom. Additional training in subjects such as CPR/AED, Teen Work Safety, Blood borne Pathogens, and HIPAA. Fourth course in Sports Medicine and Surgical Technology Pathways and is listed as Work-Based Learning. <b>Application must be completed to be approved for course. See Dr. Wagner for the application. The application must be submitted by the last date for schedule requests. THIS IS A YEAR-LONG COURSE.</b>