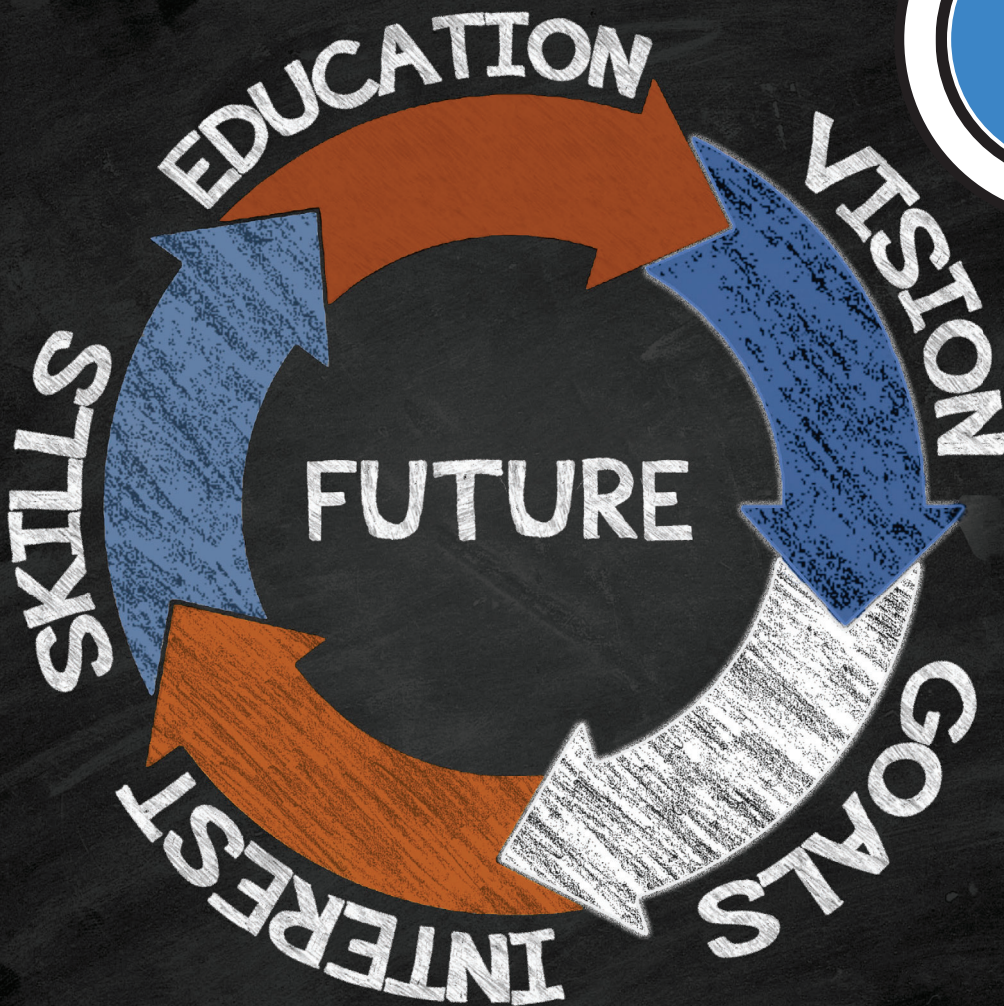


2025–2026

HALL COUNTY SCHOOLS  
*Secondary School Planning Guide*

COURSES | PROGRAMS | PATHWAYS

*Character, Competency, Rigor... For All*



Championing students through developing **character**, ensuring **competency**, and providing **rigor**!

**The Hall County School District is committed to...  
developing LIFE READY GRADUATES!**



**Programs of Choice:** LEGACY Program and AP Capstone Program

**Career Technology Programs:** Animation & Digital Media, Criminal Justice with Forensics, Education & Training, Engineering, Health Science, Information Technology, Marketing, Metals Technology and Workforce Ready



**Programs of Choice:** Johnson International Scholars Academy (JISA) and International Baccalaureate (IB) Diploma Program

**Career Technology Programs:** Audio-Video Technology, Business, Construction, Cybersecurity, Education & Training, Graphic Arts, Health Science, and Information Technology



**Programs of Choice:** Renaissance Academy for Creative Enterprises (RACE), and AP Capstone Program

**Career Technology Programs:** Audio-Video Technology, Automotive, Construction, Education & Training, Graphic Arts, Health Science, Information Technology, and Marketing



**Programs of Choice:** PT CTAE Pathways, FT Specialized Programs, and Dual Enrollment: Ag Mechanics, Baking & Pastry, Cosmetology, Culinary Arts, Fashion Merch, Forestry/Wildlife, Govt & Public Admin, Mktg Promotions, Hospitality & Tourism, HVAC and Workforce Ready

**DE Certificates:** Auto Collision, Criminal Justice, Design & Media, Diesel/Electrical, Early Childhood, Esthetics, Industrial Electrician, Marine Engine, Prep Cook, Salon & Spa, & Welding



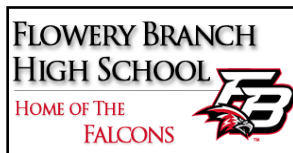
**Programs of Choice:** Endless Possibilities in Creativity and Collaboration (EPiCC) Academy and Navy Junior ROTC Program

**Career Technology Programs:** Agriculture/Horticulture, Business, Education As A Profession, Graphic Arts, Health Science, Heavy Equipment, Navy ROTC, Transportation and Workforce Ready



**Programs of Choice:** Atlas Academy, International Baccalaureate (IB) Diploma Program, and STEM (Science, Technology, Engineering, and Mathematics) Academy

**Career Technology Programs:** Agriculture/Horticulture, Education & Training, Engineering, Family Consumer Science, Health Science, Marketing, Metals Technology, and Workforce Ready



**Program of Choice:** STEAM (Science, Technology, Engineering, Arts and Mathematics) Academy and AP Capstone Program

**Career Technology Programs:** Education & Training, Engineering, Family Consumer Science, Graphic Arts, Health Science, Information Technology, Marketing, and Metals Technology



**Program of Choice:** Innovation Institute (i2), International Baccalaureate (IB) Diploma Programme and International Baccalaureate (IB) Career Related Programme

**Career Technology Programs:** Audio-Video Technology, Construction, Education & Training, Graphic Arts, Health Science, Information Technology, Manufacturing, Marketing, and Workforce Ready



**Character, Competency, Rigor...For All** is the mission of Hall County Schools. With foundational philosophies of continuous improvement and leading by example, we commit to utilize all of our abilities to accomplish the task before us. Additionally, it will take our entire community, working together to fully develop our most precious resource, the students of Hall County Schools. We believe our role is to fully support local families on this most important journey. In these unprecedented and exciting times, I encourage our students and their families to fully explore all of the opportunities our high school programs provide. As always, feel free to contact us with questions or ideas for improvement.

**Will Schofield**  
Superintendent

### **Purpose of this Guide**

The purpose of this course catalog is to help you and your parents develop an understanding of the high school program and course offerings at Hall County High Schools during the upcoming school year.

It is the goal of our schools to offer a challenging academic program for every student. Society demands that young adults be well prepared academically if they are to function as successful citizens of the community. The decisions you make today will affect you for the rest of your life. You must select those courses which challenge and prepare you to live in a modern technological society.

Students who plan to attend college should select the most rigorous courses available. Doing so will place them in a position to be successful at the post-secondary level. Please examine all the requirements of potential colleges and universities of your choice. Consider taking Advanced Placement, International Baccalaureate and Dual Enrollment college classes if at all possible. These classes are most heavily weighted for G.P.A. and are highly regarded by college admissions officers. Regardless of your individual choice of college, technical training, certification, military training or immersion in the workforce, all students should develop a six-year plan that includes high school and at least two additional years of study or training. Consider your strengths, interests, goals, and aspirations as you prepare for this most important and significant part of your life.

All students are encouraged to familiarize themselves with all aspects of this course description guide. When selecting high school courses of study, we ask students, in consultation with their parents, to consider their career, academic and extra-curricular interests. Your teachers, principals, counselors, district administrators, and Board of Education are ready to assist and provide you with the guidance necessary to help you plan your secondary and post-secondary studies.

### **Using the Six-Year Plan**

All students should develop a six-year graduation plan that begins with grade eight and ends after one year of post-secondary education. The plan should take into consideration the graduation requirements, the student's career interests and post-high school plans, as well as the student's abilities and interests. We encourage students and parents to read this guide carefully and develop an appropriate plan of courses.

When creating the six-year plan, students should gather results of their most recent career interest inventories, or at least an interest inventory that has been completed in the past two years. Students should then attend advisement sessions to learn more about graduation requirements and course sequence options required for a high school diploma. Parents should also attend information sessions offered by counselors and other advisors at the school. Current teachers should be consulted for their recommendations concerning course selection and readiness for the most rigorous courses available. Finally, while high school counselors, teachers and advisors will assist with this planning, the final decisions in requesting courses are reserved for students and parents.

Every effort is made to present accurate and current information; however, Georgia law, Georgia Department of Education guidelines, local policy or other critical information may need to be added, omitted, or changed. Hall County Schools reserves the right to amend any and all information contained herein at any time deemed appropriate. Addendums will be distributed through the school counseling department.

## Hall County Schools Graduation Requirements for Students

Shown below are Georgia's High School Graduation requirements. All requirements must be met to earn a High School Diploma. A course shall count only once for satisfying any credit required for graduation. Selected course substitutions have been approved by the Georgia State Board of Education. See your counselor to determine if course substitutions are appropriate for your plan of study.

Graduation Requirements	Students Entering High School in August 2012 or Later
<b>English/ Language Arts</b>	<b>4 units</b> Must include  Literature and Composition I & Literature and Composition II
<b>Social Studies</b>	<b>3 Units</b> Must include  World History, US History, Government, and Personal Finance & Economics
<b>Mathematics</b>	<b>4 Units</b> Must include  Algebra: Concepts and Connections, Geometry: Concepts and Connections, Advanced Algebra: Concepts and Connections PLUS one additional 9-12/AP/IB/DE math course  OR  GSE Algebra I, GSE Geometry, and GSE Algebra II PLUS one additional GSE/AP/IB/DE math course OR  GSE Accelerated Algebra I/Geometry A, GSE Accelerated Geometry B/Algebra II, GSE Precalculus PLUS one additional GSE/AP/IB/DE math course
<b>Science</b>	<b>4 Units</b> Must include  Physical Science or Physics; Biology; Chemistry, Earth Systems, Environmental Science or AP/IB courses PLUS one additional Science course
<b>Health &amp; Personal Fitness</b>	<b>1 Unit</b> Must include ½ unit of each
<b>Modern Languages</b>	<b>3 Units</b> <b>(any combination)</b>  *Students planning to attend most post-secondary institutions must take two units of the same modern language.
<b>Career, Technical and Agriculture Education (CTAE)</b>	
<b>Fine Arts, CTAE, and /or Modern Languages</b>	
<b>Electives</b>	<b>4 Units</b>
<b>Total Units Required</b>	<b>23 Units</b>

NOTE: Beginning in school year 2013-2014, Georgia State Board Rule 160-5-1-.15 allows students to earn course credit in high school courses for which there is an associated Milestones End of Course Test. Students may demonstrate subject area competency and earn course credit by scoring "Distinguished Learner" on the EOC Test. This process for earning course credit is identified as "testing-out." Students may not be enrolled in or previously enrolled in the course in which the "Test-Out" is attempted. A test fee is required. Contact the school counselor to learn more about the "Test-Out" requirements.

## GRADUATION PLAN

The Six-Year Plan takes into consideration your academic abilities, career goals, interests, and plans for additional education beyond high school. The purpose of the plan is to familiarize you with graduation requirements and to get you thinking about life after high school . . . what you want to do with your future, where you want to go, and what you need to do in high school to make it happen. Each spring, you will register for classes for the next year. Your teachers will advise you about a recommended course selection and level of difficulty based on your prior academic performance. As a result, your initial plan might change with future registrations. While teachers, counselors, advisors, and administrators will make every effort to give you the best advice, ultimately, you are responsible for taking the correct courses for graduation. Make sure your parents know your plans and keep them updated on your progress toward meeting requirements for graduation. Talk to your counselor or advisor if you have any questions. The following list of required courses and course sequence may be modified to accommodate special circumstances. However, the majority of students will adhere to the course sequences listed below. Unless noted, you would take a full year (1 credit) of the designated course.

### Career Clusters/Pathways

Georgia students will choose a Career Cluster/Pathway. Under this model, you – with the help of parents, teachers and guidance counselors – will choose a Pathway in one of 16 Career Clusters, and/or in the areas of Advanced Academics, World Language, or Fine Arts. You can select your Pathway based on what you want to do after graduation and take a core set of classes and electives based on your chosen field. You have the freedom to switch Pathways or Clusters if you discover a particular area is not your passion. You can choose Pathways that lead to two-year, four-year, or technical colleges, or directly into a career of your choice.

*The Six-Year Plan Worksheet is found on the following page.*



#### Language Arts – 4 units

- Literature and Composition I\*
- Literature and Composition II\*
- Literature and Composition III/  
Literature and Composition III
- AP/IB/DE ELA courses



#### Social Studies – 3 units

- World History\*
- US History\*
- American Government (1/2 unit)\*
- Personal Finance & Economics (1/2 unit)\*



#### Mathematics – 4 units

- GSE Algebra I/Algebra: Concepts and Connections\*
- GSE Geometry/Geometry: Concepts and Connections\*
- GSE Algebra II/Advanced Algebra: Concepts and Connections\*
- GSE/9-12/AP/IB/DE math courses



#### Health and Physical Education – 1 unit

- Personal Fitness (1/2 unit)\* and
- Health (1/2 unit)\* or JROTC (3 units)



#### CTAE, Fine Arts, Modern Language – 3 units

- Any CTAE, Fine Arts or Modern Language courses may be selected

*CTAE – Career Technical & Agricultural Education*



#### Science – 4 units

- Biology\*
- Physical Science or Physics\*
- Chemistry, Earth Systems or Environmental Science
- Other Physical or Life Science Courses  
Or AP/IB/DE Courses



#### Additional Required Electives – 4 units

- Any combination of courses may be selected.



**\*Required courses for graduation**



## Frequently Asked Questions

### What is a Program of Choice?

Hall County School District currently has a variety of choice programs at the high school level.



Programs of Choice are designed to match students with clearly defined strengths, interests, abilities, and goals with specialized programming options that focus on those traits. Interested students submit applications, and the most highly qualified students are invited to participate in the Program of Choice.

- Leadership, Experience, Grit, Achievement, Character, and Youth-led acts of service (LEGACY) Program and AP Capstone at Cherokee Bluff High School
- Renaissance Academy for Creative Enterprises (RACE) and AP Capstone at Chestatee High School
- Endless Possibilities in Creativity and Collaboration (EPiCC) Academy and Navy ROTC at East Hall High School
- Science, Technology, Engineering, Arts and Math (STEAM) and AP Capstone at Flowery Branch High School
- Johnson International Scholars Academy (JISA) and International Baccalaureate (IB) Diploma Programme at Johnson High School
- Atlas, for students who are interested in developing in the areas of leadership, scholarship, and compassion; STEM, for students interested in the science, technology, engineering and math fields and the International Baccalaureate (IB) Diploma Programme are all programs of choice for advanced students at North Hall High School.
- Both the Innovation Institute (i2), a program of choice for advanced students who are curious, principled, driven, and reflective and want to engage in service-learning opportunities and the International Baccalaureate (IB) Diploma Career Related Programme are programs of choice for advanced students at West Hall High School.
- The Honors Mentorship Program (HMP) is a district-wide program for high-achieving 11<sup>th</sup> and 12<sup>th</sup> grade students who desire a challenging career internship experience
- Howard E. Ivester Early College is available to Hall County High School students accepted into Lanier Technical College, University of North Georgia, Brenau University, and/or the University of Georgia's College of Ag/Environmental Sciences
- Lanier College Career Academy (LCCA) provides specialized part-time career ready pathways, post-secondary Dual Enrollment certificate opportunities, and a full-time Specialized Career-Ready Program of Choice to students from all high schools
- Hall County Virtual Program of Choice offers a fully-virtual instructional program for students in grades 3-12
- Ivester Healthcare Scholars: Cohort of junior students interested in and gaining experiences in healthcare fields
- UGA's College of Ag and Environmental Sciences and the Terry College of Business provide programs of choice for Ivester Early College rising senior students who are interested in rigorous courses in those colleges and experiences in those fields.
- Ivester Future Educators is a program partnering with the University of North Ga's College of Education to provide a unique cohort with practicum experiences for rising juniors and seniors interested in a career in educational fields.

### What are "levels" of academic classes?

**Level 1 - Classes:** These courses are designed for students who perform at grade level. Classes are designed for students who may be college-bound or who may enter the workforce directly after high school. Students interested in attending "selective" colleges/universities should strongly consider enrolling in Level 2 or 3 courses to demonstrate the ability to achieve in courses with increased rigor.

**Level 2 - Honors/Accelerated Classes/Dual Enrollment Non-Core 1000 level courses\*:** These classes differ from Level 1 courses in at least three important ways:

- The objectives to be achieved tend to be more complex and are to be accomplished at a more rapid pace.
- In-class activities and assignments require a greater complexity of thought, a greater degree of independent inquiry, and a greater degree of sophistication in writing, research, and problem-solving skills.
- Course materials tend to be more demanding.

Dual Enrollment Non-Core 1000 level courses include courses in departments other than English, Mathematics, Science, Social Studies and Modern Language.

**Level 3 – Advanced Placement/International Baccalaureate/ Dual Enrollment Core/Dual Enrollment Non-Core courses at 2000 level or higher\*:**

The Advanced Placement (AP) curriculum is defined by The College Board and is designed to prepare students for The College Board AP exams. AP courses are college-level courses. Students who achieve set scores on AP exams may earn college credit.

There are three International Baccalaureate (IB) World Schools in Hall County Schools: Johnson High School, North Hall High School, and West Hall High School. All three IB high schools are schools of choice with a competitive application process. IB World Schools share a common philosophy – a commitment to a high quality, challenging international education. Students who achieve set scores on IB exams may earn college credit.

Dual Enrollment courses are college/university/technical courses taken at the post-secondary campus, the Ivester Early College campus, Lanier College and Career Academy campus, or online following acceptance to the post-secondary institution. Dual Enrollment core courses include

all English, Math, Science, Social Studies and Modern Language courses. Dual Enrollment Non-Core 2000 level courses include courses in departments other than English, Mathematics, Science, Social Studies and Modern Language.

(\*DE Courses must be from Georgia Student Finance Commission Approved Course Directory.)

### How can levels of academic classes affect my GPA (Grade Point Average)?

The quality point system is used to determine the weighted and unweighted GPA (traditional 4.0 scale). The weighted quality point system is used to recognize and reward the student who takes more rigorous, challenging, and demanding courses. Additional quality points are awarded to the weighted GPA for International Baccalaureate, Advanced Placement, Dual Enrollment, Honors and Accelerated courses. For each course, up to one full quality point is added to the student’s grade point average calculation and will be reflected in the weighted GPA on the student’s transcript. The weighted GPA is used to determine class rank.

The unweighted GPA (traditional 4.0 scale) reflects a calculation for which no additional quality points are included for Level 2 and/or Level 3 classes. All courses taken count equally in the unweighted GPA calculation in which Level 1 weights are applied.

#### Calculation of Course Average

The course grade is a cumulative average of all graded work completed during the course. Final exams or state-required Milestones End-Of-Course tests (EOCs) count as 20% of the course grade with other graded work accounting for 80% of the grade. Carnegie units will be awarded based upon course grades at the end of the course.

#### Conversion of Final Numeric Grade to Quality Points

Beginning in August of the 2022-23 School Year			
Final Numeric Course Grade	LEVEL 3	LEVEL 2	LEVEL 1
	AP/IB/ DE Core / DE Non-Core courses at 2000 level or higher**	Honors/ Accelerated/ DE Non-Core 1000 level courses**	All other courses
90 – 100	5.0	4.5	4.0
80 – 89	4.0	3.5	3.0
70 – 79	3.0	2.5	2.0
BELOW 70	0	0	0
<70 with earned credit*	2.0	1.5	1.0
NOTE: AP = Advanced Placement, IB = International Baccalaureate, DE = Dual Enrollment			
*Quality Points will be applied to GPA calculations when the transferring institution awards credit for numerical scores below 70.			
**DE Courses must be from GSFC Dual Enrollment Approved Course Directory.			

### What is the “Test-Out” option?

Beginning in school year 2013-2014, Georgia State Board Rule 160-5-1-.15 allows students to earn course credit in high school courses for which there is an associated Milestone End of Course Test. Students may demonstrate subject area competency and earn course credit by scoring “Distinguished Learner” on the EOC Test. This process for earning course credit is identified as “testing-out.”

Students must meet predetermined eligibility criteria to qualify for “testing-out.” Students may not be enrolled in or previously enrolled in the course in which the “Test-Out” is attempted. See the high school counselor for the complete list of criteria, related procedures and application. Each test-out attempt incurs a \$50 test fee required before testing. This fee is refundable only when the score earned on the EOCT is “Distinguished Learner” and the student accepts the course credit using the test-out option. NCAA does not accept high school credits earned by “test-out.”

### What is Dual Enrollment?

The Dual Enrollment program provides funding through Georgia Student Finance Commission (GSFC) up to 30 credit hours for Hall County High School students to take approved college-level coursework for credit towards both high school and college graduation requirements. Dual Enrollment classes are available at the college campus, Lanier College Career Academy and Howard E. Ivester Early College. Other GSFC rules may apply.

The program is offered during all terms of the school year; fall, spring and summer semesters or fall, winter, spring, and summer quarters. See your Counselor or visit <https://www.gafutures.org/hope-state-aid-programs/scholarships-grants/dual-enrollment/> for more program details and eligibility requirements.



## What programs are available at Lanier College & Career Academy (LCCA)?

### CTAE Courses and Pathways



Lanier College Career Academy is an innovative school that serves all high schools in Hall County, providing students with a passion for careers in the hospitality, culinary arts, cosmetology, marketing, agricultural mechanics, forestry/wildlife, and heating/ventilation/air conditioning/refrigeration (HVAC) industries. LCCA provides students the opportunity to learn in a real work environment, helping to manage and run one of eight businesses: Corner Cafe coffee shop, Bistro fine dining restaurant, Meeting & Events conference center, Catering @ The Oaks, Design 360 personalized promotions lab, Get Gifted gift shop, MetalWood Designs, or Reflections Salon and Spa.



Upon completion of their high school specialized career pathway at LCCA, students also have the opportunity to extend their learning beyond high school and start earning college credit through Dual Enrollment with Lanier Technical College. The campus of LCCA is a satellite campus for Lanier Technical College and currently offers several technical college certificate programs on-site in partnership with Lanier Technical College: Auto Collision Repair, Basic Marine Engine Tech, Shielded Metal Arc Welder, Criminal Justice, Design & Media Production, Diesel Electrical Systems Tech, Early Childhood Education, Esthetics, Gas Metal Arc Welder, Industrial Electrician, Prep Cook, and Salon & Spa Support. Once students graduate from high school, they may continue with Lanier Technical College at the Gainesville Campus and work further towards earning their specialized college degree/diploma.



See the school counselor to discuss specific CTAE courses and pathway options available at LCCA. Also, please see the counselor concerning Dual Enrollment certificate options at LCCA.

## What is Ivester Early College?



Hall County's Howard E. Ivester Early College (IEC) is an innovative way for high school students to earn a high school diploma while also earning college credits. Hall County Schools partners with Lanier Technical College (LTC), the University of North Georgia (UNG), Brenau University and the University of Georgia's TERRY College of Business and College of Ag/Environmental Sciences (CAES) to provide unique access to Georgia's Dual Enrollment program.



LTC, UNG, and Brenau professors teach courses on the Howard E. Ivester Early College campus while CAES courses are taught on UGA's Athens campus, and transportation is provided for all students during the school day. Unique to this program is that all students are offered learning supports that include tutoring, career guidance, and personalized planning to meet college and career goals. These supports are vital components towards IEC's 99+% student class pass rate.



Students have the opportunity to take multiple LTC/UNG/Brenau/CAES/Terry College courses per semester at the Howard E. Ivester campus in combination with classes at their high school campus, Work-Based Learning, Honors Mentorship, or main college campuses. Dual Enrollment funds cover all tuition, textbooks, and mandatory fees for each course up to 30 hours. Some courses with labs (Nurse Aide, Biology, etc.) may require that students purchase course supplies or lab fees. In order to ensure that every student has access to required technology, Hall County Schools offers a Chromebook for students to use while taking specific core academic and certificate courses at IEC. See your Counselor for program details and eligibility requirements.



See your Counselor for program details and eligibility requirements.

In 2022-23, we began a unique partnership between the University of Georgia and Ivester Early College, through the College of Agricultural and Environmental Sciences (CAES): The CAES-Ivester Rising Scholars Program (CAES-IRSP). This program is ideal for high-achieving rising senior students with academic and career interests in the Agricultural and Environmental Sciences.

In 2024-25, Ivester Early College partnered with the Terry College of Business at UGA to provide dual enrollment access to highly qualified rising seniors interested in business fields. Also, this year, IEC partnered with the University of North Ga's College of Education to provide a unique cohort, with practicum experiences, for rising juniors and seniors who are interested in a career in educational fields.

The Ivester Healthcare Scholars Program of Choice provides Dual Enrollment and practical learning experiences for advanced scholars who have demonstrated a focused interest in healthcare fields. Students will engage in rigorous academic classes, unique mentorships, research / internship opportunities, and service applications in a 2-year program. This Hall County Schools POC is made possible through our continued partnerships with Brenau University, Lanier Technical College, the University of North Georgia, and the Ivester College of Health Sciences at Brenau University.

Start preparing for the future now! Make the connection between learning and the real world.

Career Technology courses will help answer three key questions: What am I learning? Why am I learning it? How am I going to use it? Whatever your plans may be after high school, Career Technology courses and Career Pathways will give you a head start and help build a foundation for many technical and professional careers.



Begin **TODAY** planning for **TOMORROW!**

**Don't Delay! Prepare for YOUR Future Now!**

**School Legend:**

C = Chestatee, CB = Cherokee Bluff, E = East Hall  
F = Flowery Branch, J = Johnson, L = LCCA, N = North Hall,  
VP = Virtual Program of Choice, W = West Hall

To fulfill the state pathway requirement, students must complete the three courses shown in the pathway and take the Credential of Value (COV) assessment.  
Students who successfully complete the pathway and pass the COV can earn an industry credential.

" Honors Pathway Available

**AGRICULTURE, FOOD & NATURAL RESOURCES**

**Agriculture Leadership in Animal Production (N)**  
02.47100 Basic Agricultural Science  
02.42100 Animal Science & Biotechnology ^  
01.41200 Agribusiness Management and Leadership  
**Capstone Experience: WBL Internship**

**Agriculture Leadership in Horticulture (N)**  
02.47100 Basic Agricultural Science  
01.46100 General Horticulture and Plant Science ^  
01.41200 Agribusiness Management and Leadership  
**Capstone Experience: WBL Internship**

**Agriculture Mechanics & Electrical Systems (L) +**  
02.47100 Basic Agricultural Science  
01.42100 Agricultural Mechanics Technology I  
01.42600 Agricultural Electricity and Electric Controls  
**Capstone Experience: WBL Internship**

**Agriculture Mechanics/Metal Fabrication (L)**  
02.47100 Basic Agricultural Science  
01.42100 Agricultural Mechanics Technology I  
01.42400 Agricultural Metals Fabrication  
**Capstone Experience: WBL Internship**

**Agriculture Mechanics Systems (L) +**  
02.47100 Basic Agricultural Science  
01.42100 Agricultural Mechanics Technology I  
01.42200 Agricultural Mechanics Technology II  
**Capstone Experience: WBL Internship**

**Animal/Mechanical Systems (N)**  
02.47100 Basic Agricultural Science  
01.42100 Agricultural Mechanics Technology I  
01.43200 Agricultural Animal Production and Mgt  
**Capstone Experience: WBL Internship**

**Food Animal Systems (N)**  
02.47100 Basic Agricultural Science  
02.42100 Animal Science & Biotechnology ^  
01.43200 Agricultural Animal Production and Mgt  
**Capstone Experience: WBL Internship**

**Forest Mechanical Systems (L)**  
02.47100 Basic Agricultural Science  
01.42100 Agricultural Mechanics Technology I  
03.45100 Forest Science ^  
**Capstone Experience: WBL Internship**

**Forestry/Wildlife Systems (L)**  
02.47100 Basic Agricultural Science  
03.45100 Forest Science ^  
03.45300 Wildlife Management  
**Capstone Experience: WBL Internship**

**Horticulture & Animal Science (E, N)**  
02.47100 Basic Agricultural Science  
01.46100 General Horticulture and Plant Science ^  
02.42100 Animal Science/Biotechnology ^  
**Capstone Experience: WBL Internship**

**Horticulture/Mechanical Systems (N)**  
02.47100 Basic Agricultural Science  
01.46100 General Horticulture and Plant Science ^  
01.42100 Agricultural Mechanics Technology I  
**Capstone Experience: WBL Internship**

**Poultry Science (E)**  
02.47100 Basic Agricultural Science  
02.46200 Poultry Science FY26  
02.46300 Avian Science & Biotechnology FY27  
**Capstone Experience: WBL Internship**

**AGRICULTURE, FOOD & NATURAL RESOURCES**

**Veterinary Science Pathway (E, N)**  
02.47100 Basic Agricultural Science  
02.42100 Animal Science & Biotechnology ^  
02.42400 Veterinary Science  
**Capstone Experience: WBL Internship**

**ARCHITECTURE & CONSTRUCTION**

**Carpentry (C, J, W)**  
46.54500 Industry Fundamentals & Occupational Safety  
46.54600 Introduction to Construction  
46.55000 Carpentry I  
**Capstone Experience: WBL Internship**

**Electrical (C, W) +**  
46.54500 Industry Fundamentals & Occupational Safety  
46.54600 Introduction to Construction \*  
46.56000 Electrical I  
**Capstone Experience: WBL Internship**

**Heating, Vent, Air Conditioning & Refrigeration (L) +**  
46.54500 Industry Fundamentals & Occupational Safety  
47.41400 Introduction to HVACR Systems  
47.41500 Heating, Ventilation, Air Cond, & Refrigeration  
**Capstone Experience: WBL Internship**

**HVACR Electrical (L) +**  
46.54500 Industry Fundamentals & Occupational Safety  
47.41400 Introduction to HVACR Systems  
47.41600 Low Voltage Electrical  
**Capstone Experience: WBL Internship**

**Heavy Equipment Operations (E)**  
46.54500 Industry Fundamentals & Occupational Safety  
46.59000 Introduction to Heavy Equipment  
46.59100 Heavy Equipment Operations I  
**Capstone Experience: WBL Internship**

**Masonry (J)**  
46.54500 Industry Fundamentals & Occupational Safety  
46.54600 Introduction to Construction  
46.57000 Masonry I  
**Capstone Experience: WBL Internship**

**Plumbing (J)**  
46.54500 Industry Fundamentals & Occupational Safety  
46.54600 Introduction to Construction  
45.58000 Plumbing I  
**Capstone Experience: WBL Internship**

**ARTS, AV TECHNOLOGY & COMMUNICATIONS**

**Animation and Digital Media (CB)**  
48.42100 Introduction to Digital Media  
48.42200 Principles and Concepts of Animation  
48.42300 Advanced Animation, Game and app Design  
**Capstone Experience: WBL Internship**

**Audio-Video Technology/Film I (C, J, W) +**  
10.51810 Audio-Video Technology Film I  
10.51910 Audio-Video Tech Film II  
10.52010 Audio-Video Tech Film III ^  
**Capstone Experience: WBL Internship**

**Audio-Video Technology & Film II (C, J, W) +**  
10.51810 Audio-Video Technology Film I  
10.51910 Audio-Video Tech Film II  
10.51410 Broadcast Video Applications ^  
**Capstone Experience: WBL Internship**

**Graphic Communications ^ (E, F, J, W) +**  
48.56100 Introduction to Graphics and Design  
48.56200 Graphic Design and Production  
48.57000 Adv Graphic Output Processes  
**Capstone Experience: WBL Internship**

**ARTS, AV TECHNOLOGY & COMMUNICATIONS**

**Graphic Design ^ (C, E, F, J, N, W)**  
48.56100 Introduction to Graphics and Design  
48.56200 Graphic Design and Production  
48.52800 Advanced Graphic Design  
**Capstone Experience: WBL Internship**

**BUSINESS, MANAGEMENT & ADMINISTRATION**

**Business & Technology (E, J) +**  
07.44130 Intro to Business and Technology  
07.44100 Business & Technology  
07.45100 Business Communications  
**Capstone Experience: WBL Internship**

**Entrepreneurship (E)**  
07.44130 Intro to Business and Technology  
06.41500 Legal Environment of Business  
06.41610 Entrepreneurship  
**Capstone Experience: WBL Internship**

**EDUCATION & TRAINING**

**Early Childhood Education (F, J) ^**  
20.52810 Early Childhood Education I  
20.42400 Early Childhood Education II  
20.42500 Early Childhood Education III  
**Capstone Experience: WBL Internship**

**Teaching As A Profession ^ (C, CB, E, F, N, VP, W)**  
13.01100 Examining the Teaching Profession  
13.01200 Contemporary Issues in Education  
13.01300 Teaching as a Profession Practicum  
**Capstone Experience: WBL Internship**

**FINANCE**

**Financial Services (E)**  
07.44130 Introduction to Business and Technology  
07.42600 Financial Literacy  
07.43100 Banking, Investing, and Insurance  
**Capstone Experience: WBL Internship**

**GOVERNMENT & PUBLIC ADMINISTRATION**

**JROTC Naval Science (E)**  
28.02100 Cadet Field Manual  
28.02200 Introduction to NJROTC  
28.02300 Maritime History  
**Capstone Experience: WBL Internship**

**Public Management & Administration (L)**  
29.41000 Intro to Government & Public Admn ^  
29.41100 Gov Public Admin: State & Fed Issues ^  
29.41200 Gov Public Admin: Local & State Issues ^  
**Capstone Experience: WBL Internship**

**CAPSTONE EXPERIENCE FOR ALL PATHWAYS**

Work-Based Learning (WBL) internship opportunities are available in ALL career cluster areas. Please see your school's WBL Coordinator for additional information.



**SEE SYMBOL LEGEND BELOW**

- ^ Meets 4th Science requirement; approved by Board of Regents.
- Meets 4th Math or World Language requirement for high school graduation.
- Two Computer Science courses from the same pathway will satisfy two years of sequenced foreign language courses for USG Admissions.
- ^ Integrated credit can be earned upon completion of pathway.
- ^ Embedded credit earned upon completion of course.
- + Receives a fourth CTAE+ academic credit upon completion of pathway (meets graduation requirement and TCSG admissions ONLY).

**HEALTH SCIENCE**

**Biotechnology Research & Development** <sup>H</sup> (N)  
25.52100 Introduction to Healthcare Science  
25.57000 Essentials of Biotechnology <sup>^</sup>  
25.56900 Applications of Biotechnology <sup>^</sup>  
**Capstone Experience: WBL Internship**

**Diagnostics/Phlebotomy Pathway** <sup>H</sup> (F, W)  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare <sup>«</sup>  
25.57400 Diagnostics Phlebotomy  
**Capstone Experience: WBL Internship**

**Allied Health & Medicine** <sup>H</sup> (C, E, F, J, N, VP, W)  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare <sup>«</sup>  
25.43700 Allied Health & Medicine  
**Capstone Experience: WBL Internship**

**Emergency Medical Responder** <sup>H</sup> (C, F, J, N, W)  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare <sup>«</sup>  
25.45000 Emergency Medical Responder  
**Capstone Experience: WBL Internship**

**Health Informatics / Medical Office** (C, W)  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare <sup>«</sup>  
25.49700 Health Information Mgmt/Medical Office  
**Capstone Experience: WBL Internship**

**Therapeutic Services-Exercise Physiology** <sup>H</sup> (C, CB)  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare <sup>«</sup>  
25.45400 Fundamentals of Exercise Physiology  
**Capstone Experience: WBL Internship**

**Therapeutic Services-Mental Health Prof.** (CB, E, VP)  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare <sup>«</sup>  
25.47000 Mental Health Professional  
**Capstone Experience: WBL Internship**

**Patient Care** <sup>H</sup> (C, E, J)  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare <sup>«</sup>  
25.43600 Patient Care Fundamentals  
**Capstone Experience: WBL Internship**

**Therapeutic Services-Pharmacy** <sup>H</sup> (VP)  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare <sup>«</sup>  
25.45300 Pharmacy Operations & Fundamentals <sup>\*\*</sup>  
**Capstone Experience: WBL Internship**

<sup>\*\*</sup> Students can take online with VPOC.

**Therapeutic Services-Public Health** (VP)  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare <sup>«</sup>  
25.45200 Applications of Public Health <sup>\*\*</sup>  
**Capstone Experience: WBL Internship**

<sup>\*\*</sup> Students can take online with VPOC.

**Therapeutic Services-Sports Medicine** <sup>H</sup> (C, CB, N)  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare <sup>«</sup>  
25.44600 Sports Medicine <sup>^</sup>  
**Capstone Experience: WBL Internship**

**Therapeutic Services-Surgical Technology** <sup>H</sup> (CB)  
25.52100 Introduction to Healthcare Science  
25.44000 Essentials of Healthcare <sup>«</sup>  
25.44700 Surgical Technician I  
**Capstone Experience: WBL Internship**

**HOSPITALITY & TOURISM**

**Baking & Pastry** (L)  
20.53100 Introduction to Culinary Arts  
20.53610 Baking & Pastry I  
20.53710 Baking & Pastry II  
**Capstone Experience: WBL Internship**

**Culinary Arts** (L) <sup>⊠</sup>  
20.53100 Introduction to Culinary Arts  
20.53210 Culinary Arts I  
20.53310 Culinary Arts II  
**Capstone Experience: WBL Internship**

**Hospitality, Recreation & Tourism** (L, VP)  
08.47400 Marketing Principles  
08.45300 Hospitality, Recreation & Tourism Essentials <sup>H</sup>  
08.45400 Hospitality, Recreation & Tourism Management <sup>H</sup>  
**Capstone Experience: WBL Internship**

**HUMAN SERVICES**

**Nutrition and Food Science** (F, N)  
20.41610 Food, Nutrition & Wellness  
20.41400 Food for Life <sup>^</sup>  
20.41810 Food Science <sup>^</sup>  
**Capstone Experience: WBL Internship**

**Personal Care Services-Cosmetology** (L)  
12.54400 Intro to Personal Care Services  
12.41000 Cosmetology Services II  
12.41100 Cosmetology Services III  
**Capstone Experience: WBL Internship**

**INFORMATION TECHNOLOGY**

**Computer Science** <sup>H</sup> (C, F, N<sup>\*</sup>, VP, W<sup>\*</sup>)  
11.44600 Introduction to Software Technology <sup>\*</sup>  
11.47100 Computer Science Principles <sup>^</sup> ~ **OR**  
11.01900 AP Computer Science Principles <sup>^</sup> ~ <sup>\*</sup>  
11.01600 AP Computer Science A <sup>^</sup> ~  
**Capstone Experience: WBL Internship**

<sup>\*</sup> Courses taken online with VPOC to complete pathway.

**Cybersecurity** (J)  
11.44800 Introduction to Hardware Technology  
11.48100 Introduction to Cybersecurity  
11.48200 Advanced Cybersecurity  
**Capstone Experience: WBL Internship**

**Game Design** <sup>H</sup> (CB, F, VP)  
11.44600 Introduction to Software Technology  
11.47100 Computer Science Principles <sup>^</sup> ~ **OR**  
11.01900 AP Computer Science Principles <sup>^</sup> ~  
11.42900 Game Design: Animation and Simulation <sup>^</sup> ~  
**Capstone Experience: WBL Internship**

**Programming** <sup>H</sup> (CB, VP)  
11.44600 Introduction to Software Technology  
11.47100 Computer Science Principles <sup>^</sup> ~ **OR**  
11.01900 AP Computer Science Principles <sup>^</sup> ~  
11.47200 Program, Games, Apps & Society <sup>^</sup> ~  
**Capstone Experience: WBL Internship**

**Web Development** <sup>H</sup> (C)  
11.44600 Introduction to Software Technology  
11.47100 Comp Sci Principles <sup>^</sup> ~ **OR**  
11.01900 AP Comp Sci Prin <sup>^</sup> ~  
11.42500 Web Development <sup>^</sup> ~  
**Capstone Experience: WBL Internship**

**LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY**

**Law Enforcement Services/Forensic Science** (CB)  
43.45000 Intro to Law/Public Safety/Corrections/Security  
43.45100 Criminal Justice Essentials  
43.45200 Forensic Science & Criminal Investigations <sup>^</sup>  
**Capstone Experience: WBL Internship**

**LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY**

**Security & Protective Services** (CB)  
43.45000 Intro to Law/Public Safety/Corrections/Security  
43.45100 Criminal Justice Essentials  
43.45800 Security and Protective Services  
**Capstone Experience: WBL Internship**

**MANUFACTURING**

**Machine Operations** (F, N) <sup>+</sup>  
46.54500 Industry Fundamentals & Occupational Safety  
48.58100 Introduction to Metals  
48.59100 Machining Operations I  
**Capstone Experience: WBL Internship**

**Manufacturing** (E, W)  
21.44100 Foundations of Mfg & Materials Science  
21.44500 Robotics and Automated Systems  
21.44400 Production Enterprises  
**Capstone Experience: WBL Internship**

**Sheet Metal** (CB) <sup>+</sup>  
46.54500 Industry Fundamentals & Occupational Safety  
48.58100 Introduction to Metals  
48.58200 Sheet Metal I  
**Capstone Experience: WBL Internship**

**Welding** (CB, F, N) <sup>+</sup>  
46.54500 Industry Fundamentals & Occupational Safety  
48.58100 Introduction to Metals  
48.55100 Welding I  
**Capstone Experience: WBL Internship**

**MARKETING**

**Fashion Merchandising/Retail Mgmt** (L)  
08.47400 Marketing Principles  
08.42100 Fashion, Merch & Retailing Essentials  
08.42200 Advanced Fashion, Merch & Retailing  
**Capstone Experience: WBL Internship**

**Marketing & Management** (C, CB, F, N, W)  
08.47400 Marketing Principles  
08.44100 Marketing & Entrepreneurship <sup>H</sup>  
08.44200 Marketing & Management <sup>H</sup>  
**Capstone Experience: WBL Internship**

**Marketing Communications & Promotions** (L, N, VP)  
08.47400 Marketing Principles  
08.45100 Promotional and Digital Marketing  
08.45200 Integrated Marketing Communications  
**Capstone Experience: WBL Internship**

**Sports & Entertainment Marketing** (CB, N)  
08.47400 Marketing Principles  
08.47800 Intro to Sports & Entertainment Marketing  
08.48500 Advanced Sports & Entertainment Marketing  
**Capstone Experience: WBL Internship**

**SCIENCE, TECH, ENGINEERING & MATHEMATICS**

**Engineering & Technology** <sup>H</sup> (CB, F, N) <sup>+</sup>  
21.42500 Foundations of Engineering/Technology  
21.47100 Engineering Concepts  
21.47200 Engineering Applications  
**Capstone Experience: WBL Internship**

**TRANSPORTATION, DISTRIBUTION & LOGISTICS**

**General Automotive Technology** (C, E)  
47.45000 Automotive Technologies 1  
47.45100 Automotive Technologies 2  
47.45200 Automotive Technologies 3  
**Capstone Experience: WBL Internship**

**WORKFORCE READY**

**Workforce Ready** (CB, E, L, N, W)  
32.43000 Introduction to Career Competencies  
32.43100 Career Competencies  
32.43200 Advanced Career Competencies  
**Capstone Experience: WBL Internship**

**Plan ahead and complete more than one pathway  
and work to earn additional certifications!**



# High School Course Descriptions

The following list of course descriptions encompasses all courses offered in Hall County high schools. However, some courses may not have sufficient enrollment to justify instruction each school year.

\* Georgia Milestones EOC assessment required.

## ENGLISH/LANGUAGE ARTS

### Literature & Composition I

1 Unit

#### Literature & Composition I (Honors)

CIP #: 23.06160

Prerequisite: Teacher recommendation for Honors

Credit Type: L1 or L2; **Required for students enrolling in ninth grade for the first time in 2025 or later**; core or elective credit for all other students.

Description: Develops the integrated skill set that comprises the English language arts discipline to ensure that students are on track to be college and work ready. Literature & Composition I focuses on the interpretation, evaluation, construction, and design of texts across genres and modes in a variety of real-world, academic, and disciplinary contexts while sustaining and building mastery of language applications and discipline-specific practices. This course must utilize the 9-12 standards and 9th grade expectations of Georgia's K-12 English Language Arts "(ELA) Standards.

### Literature & Composition II\*

1 Unit

#### Literature & Composition II (Honors)

CIP #: 23.06170

Prerequisite: Teacher recommendation for Honors

Credit Type: L1 or L2; **Required for students enrolling in ninth grade for the first time in 2025 or later** (may substitute with AP Seminar, ELA or AP English Language/Composition); core or elective credit for all other students.

Description: Develops the integrated skill set that comprises the English language arts discipline to ensure that students are on track to be college and work ready. Literature & Composition II focuses on the interpretation, evaluation, construction, and design of texts across genres and modes in a variety of real-world, academic, and disciplinary contexts while sustaining and building mastery of language applications and discipline-specific practices. This course must utilize the 9-12 standards and 10th grade expectations of Georgia's K-12 English Language Arts (ELA) Standards.

### Literature & Composition III

1 Unit

#### Literature & Composition III (Honors)

CIP #: 23.06180

Prerequisite: Teacher recommendation for Honors

Credit Type: L1 or L2; Core or elective credit

Description: Develops the integrated skill set that comprises the English language arts discipline to ensure that students are on track to be college and workplace ready. Literature & Composition III provides a platform for the wide interpretation, evaluation, construction, and design of texts across genres and modes, with an emphasis on the application of these skills in a variety of real-world, academic, and disciplinary contexts. This course must utilize the 9-12 standards and 11th grade expectations of Georgia's K-12 English Language Arts (ELA) Standards.

### Literature & Composition IV

1 Unit

#### Literature & Composition IV (Honors)

CIP #: 23.06190

Prerequisite: Teacher recommendation for Honors

Credit Type: L1 or L2; Core or elective credit

Description: Develops and refines the integrated skill set that comprises the English language arts discipline to ensure that students are on track to be college and work ready, with an emphasis on the interpretation, analysis, evaluation, and application of real-world texts and communications across a wide variety of modes, genres, and disciplines. This course must utilize the 9-12 standards and 12th grade expectations of Georgia's K-12 English Language Arts (ELA) Standards.

**Advanced Placement (AP) English Language/Composition****1 Unit****CIP #: 23.04300**

Prerequisite: Teacher recommendation

Credit Type: L3; Core or elective credit

Description: Conforms to the College Board recommendations for the Advanced Placement Language and Composition Examination; emphasizes critical thinking, reading, and writing through the study and discussion of expository, analytical, and argumentative essays; stresses the connection between reading and writing mature prose. Enrollment in AP includes the commitment to take the AP exam.

**Beginning in the 2025-26 school year this course may be used as an equivalent substitution for Literature and Composition II.** (*Students enrolled in an accelerated course that will serve as a Literature and Composition II equivalent substitution will be required to participate in the Literature & Composition II EOC Georgia Milestones to meet federal accountability requirements.*)

**Advanced Placement (AP) Literature/Composition****1 Unit****CIP #: 23.06500**

Prerequisite: Teacher recommendation

Credit Type: L3; Core or elective credit

Description: Conforms to the College Board recommendations for the AP Literature and Composition exam; stresses modes of discourse, assumptions, underlying rhetorical strategies, connotation, metaphor, irony, syntax, and tone; emphasizes writing critical analyses of literature and includes essays in exposition and argument, poetry, drama, prose fiction, and expository literature. Enrollment in AP includes the commitment to take the AP exam.

**International Baccalaureate (IB) English A Literature, Year 1****1 Unit****International Baccalaureate (IB) English A Literature, Year 2**

CIP #: 23.06800 (Year 1)

CIP #: 23.06900 (Year 2)

Prerequisite: Approval of the school IB coordinator; courses must be taken in sequence

Credit Type: L3; Core or elective credit

Description: Introduces students to a range of literary works of different periods, genres, styles, contexts, and cultures and develops an articulate personal and critical response to literature that is expressed clearly and concisely in oral and written forms of communication. Oral and written work is held to an international standard of excellence in preparation for IB examinations.

**International Baccalaureate (IB) English B, Year 1****1 Unit****International Baccalaureate (IB) English B, Year 2**

CIP #: 23.06120 (Year 1)

CIP #: 23.06130 (Year 2)

Prerequisite: Approval of the school IB coordinator &amp; completion of at least two units of ESOL or other core English credits; courses must be taken in sequence

Credit Type: L3; Core or elective credit

Description: Designed for English Language Learners, with focus on language acquisition and development in the four primary language skills: listening, speaking, reading and writing. Students study a range of written and spoken materials related to the culture of countries where English is spoken and study literature written in or translated into English.

**Journalism I, II, III, IV****Journalism II, III, IV (Honors)****1 Unit**

CIP #: 23.03200 (I)

CIP #: 23.03300 (II)

CIP #: 23.03500 (III)

CIP #: 23.03600 (IV)

Prerequisite: Must be taken in sequence

Credit Type: L1 or L2; Elective credit only

Description: Explores journalistic writing through analysis of newspapers, yearbooks, literary magazines, and broadcast journalism publications; concentrates on purpose, influence, structure, and language use through reading, writing, and critical thinking; covers news gathering, ethics, copy writing, editing, and revising; may include typesetting, circulation, and production.

**Advanced Placement Research, ELA****1 Unit**

CIP #: 23.03700

Prerequisite: Approval of school AP Coordinator

Credit Type: L3; Core or elective credit, **AP Research is only recognized by TCSG as a core ELA requirement; it is not recognized by USG as a core ELA course option to meet admission requirements per the Required High School Curriculum (RHSC) list.**

Description: AP Research allows students to deeply explore an academic topic, problem or issue of individual interest. Students design, plan, and conduct a year-long mentored, research-based investigation to address a research question. Students further their skills acquired in AP Seminar by understanding research methods; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Course culminates in an academic thesis paper of approximately 5000 words and a presentation, performance, or exhibition with an oral defense.

**Advanced Placement Seminar, ELA****1 Unit**

CIP #: 23.03800

Prerequisite: Approval of school AP Coordinator

Credit Type: L3; Core or elective credit; **Beginning in the 2025-26 school year this course may be used as an equivalent substitution for Literature and Composition II.**

Description: AP Seminar allows students to engage in cross-curricular conversations that explore topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary, and philosophical texts, speeches, broadcasts, and personal accounts. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations. Course aims to equip students with power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

**Speech/Forensics I, II****1 Unit**

CIP #: 23.04600 (I)

CIP #: 23.04700 (II)

Prerequisite: None

Credit Type: L1; Elective credit only

Description: This course is a detailed study of forensic speaking, including but not limited to extemporaneous speaking, oration, literary interpretation, and debate. There is an emphasis on understanding various forensic speaking formats and the importance of applying reasoning, research, and delivery skills. Critical thinking is a major component of this course. This course reflects grade-level appropriate Georgia Standards of Excellence.

**Support for Literature & Composition I****1 Unit**

CIP #: 23.07500

Prerequisite: Indication of need based on universal screener. For students enrolled in Literature and Composition I.

Credit type: L1; Elective credit only

Description: Support for Literature & Composition I is designed to reinforce and develop essential literary skills that will set students up for success in Literature & Composition I. Building skills in vocabulary development, word study, and comprehension and composition a wide range of academic and real-life text modes of genres are emphasized in this course. This course may be taken as a pre-requisite or co-requisite as part of a local sequence.

**Support for Literature & Composition II****1 Unit**

CIP #: 23.07510

Prerequisite: Indication of need based on universal screener. For students enrolled in Literature and Composition II

Credit Type: L1; Elective credit only

Description: Support for Literature & Composition II builds upon previously gained essential literacy skills to provide a foundation for student success in Literature & Composition II, as well as in later core high school English language arts courses. This course provides targeted opportunities for textual interpretation, source evaluation, and the composition of more complex academic and real-life texts. This course may be taken as a pre-requisite or co-requisite as part of a local sequence.

**Communication Skills****.5 or 1 Unit**

CIP #: 23.08100

Prerequisite: Indication of need based on universal screener.

Credit Type: L1; Elective credit only

Description: This course focuses on reinforcement of the Georgia Standards of Excellence. The students receive reinforcement in the following strands: Reading Literary texts, Reading Informational texts, Writing, Speaking and Listening, and Language. The emphasis is to offer reading skills, vocabulary development, reading opportunities, writing process activities, and conventions study.

**Reading Enrichment****.5 or 1 Unit**

CIP #: 23.08200

Prerequisite: Indication of need based on universal screener.

Credit Type: L1; Elective credit only

Description: This course, an extension of the Communication Skills course, focuses on reinforcement of the Georgia Standards of Excellence. The student receives reinforcement in the following strands: Reading Literary texts, Reading Informational texts, Writing, Conventions, Speaking and Listening, and Language. The emphasis is to offer reading skills, vocabulary development, reading opportunities, writing process activities, and conventions study. The course enhances reading skills necessary to promote continual development in language arts.

**English ESOL I – VI****1 Unit**

CIP #: 23.09100 (I)

CIP #: 23.09200 (II)

CIP #: 23.09300 (III)

CIP #: 23.09400 (IV)

CIP #: 23.09500 (V)

CIP #: 23.09600 (VI)

Prerequisite: Special placement for limited English-speaking students determined through language proficiency testing

Credit Type: L1 only; Elective credit only

Description: Intensive instruction in English as a second language emphasizing listening, speaking, reading and writing skills to permit a smooth transition into content area classes; social use of the English language and exposure to American culture are also addressed.

**Communication Skills I (ELL)****1 Unit**

CIP #: 55.02100

Prerequisite: Special placement for limited English-speaking students determined through language proficiency testing

Credit Type: L1; Elective credit only

Description: This course is designed to increase English learner (EL) students' social and instructional English language proficiency in listening, speaking, reading, writing, and viewing at the word, sentence, and discourse levels. This course can be used to prepare newly arrived EL students for high school ELA courses by introducing the Georgia's 9-12 Standards for English Language Arts (SY2025-2026) domains: Literacy Practices, Foundations, Language, and Texts. The course also introduces students to four Key Language Uses (narrate, inform, explain, argue) for social and instructional purposes, Language Expectations for interpreting and expressing in English, and Language Features as resources to carry out Language Functions or common language patterns of English language. The course addresses students' language development as outlined in WIDA's Grades 9-12 Language Proficiency Level Descriptors. The suggested English language proficiency level of the EL student is WIDA's Overall Composite Proficiency Level (CPL) 1-2. This course awards elective credit.

**Communication Skills II (ELL)****1 Unit**

CIP #: 55.02200

Prerequisite: Special placement for limited English-speaking students determined through language proficiency testing

Credit Type: L1; Elective credit only

Description: This course is an expansion of Communications Skills I with the inclusion of the Big Ideas, Reader & Writer Identity, Engagement & Intention for Comprehension & Composition, Situating Text, Author's Craft, Collaboration & Presentation, Grammar Conventions, Vocabulary, Context, Structures & Style, Techniques, Research & Analysis associated with Georgia's K-12 Standards for English Language Arts (SY2024-2025). Emphasis is placed on understanding and using English to narrate, inform, explain, and argue at the word, sentence, and discourse levels in all language domains: listening, speaking, reading, writing, and viewing. This course addresses students' language development as outlined in WIDA's Grades 9-12 Language Proficiency Level Descriptors. The suggested English language proficiency level of EL students in this course is WIDA's Overall Composite Proficiency Level (CPL) 1-2. This course awards elective credit.

**Oral Communication in the Content Areas (ELL)****1 Unit**

CIP #: 55.02400

Prerequisite: Special placement for limited English-speaking students determined through language proficiency testing

Credit Type: L1; Elective credit only

Description: This course focuses on communicating effectively with a variety of audiences using academic language, which is needed to be successful in the content areas. This includes further development of critical thinking skills and organization of ideas. Continued emphasis is given on how grammar, vocabulary, listening, speaking, and writing skills play an integral part in how to effectively deliver information through oral communication.

**Reading and Listening in the Content Areas (ELL)****1 Unit**

CIP #: 55.02300

Prerequisite: Special placement for limited English-speaking students determined through language proficiency testing

Credit Type: L1; Elective credit only

Description: This course provides intensive instruction in English as a second language; focuses on the development of reading skills necessary to promote continual language acquisition; offers vocabulary practice and reinforcement of auditory comprehension with an emphasis on reading in the content areas.

**Writing in the Content Areas (ELL)****1 Unit**

CIP #: 55.02500

Prerequisite: Special placement for limited English-speaking students determined through language proficiency testing

Credit Type: L1; Elective credit only

Description: Provides intensive instruction in English as a second language, with opportunities to improve writing proficiency with an emphasis in the content areas; emphasizes writing as a process with instruction in grammar, mechanics usage, and imaginative expression.

**Academic Language of Science and Math****1 Unit**

CIP #: 55.02700

Prerequisite: Special placement for limited English-speaking students determined through language proficiency testing scoring CPL 2-3.

Credit Type: L1; Elective credit only

Description: Course focuses on teaching students with interrupted or limited formal schooling to decode the specialized vocabulary, symbols and text in science and mathematics. Reading comprehension of texts, listening and comprehending lectures, and using correct scientific and mathematical terminology when speaking and writing are integral to academic success in the mathematics and science content areas. The content addresses all five WIDA standards.

**Basic Reading/Writing I, II, III, IV****.5 or 1 Unit**

CIP #: 23.08300 (I)

CIP #: 23.08400 (II)

CIP #: 23.08500 (III)

CIP #: 23.08600 (IV)

Prerequisite: Approval of LCA/LCCA Project Search/Project Success Program Director

Credit Type: L1; Elective credit only

Description: This course provides fundamental skills development in the five strands of the Georgia Standards of Excellence (GSE): Reading Literary texts, Reading Informational texts, Writing, Speaking and Listening, and Language. The setup is a language lab setting; the class includes drill and practice opportunities in reading comprehension, vocabulary development, writing (according to the GSE literary and informational texts and writing genres associated with the students' English course), speaking, and critical thinking.

**Language Arts Work-Based Learning (WBL) Placement****.5 to 4 Units****Language Arts Work-Based Learning (WBL) Placement (Honors)**

CIP #: 23.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.



## CTAE+ ELA

*The following CTAE pathways satisfy the fourth ELA graduation requirement.*

*A student who successfully completes and passes all three courses of an identified CTAE + ELA pathway will earn a fourth ELA credit requirement for graduation.*

### **CTAE+ English Language Arts: Audio-Video Technology and Film I Pathway**

**1 Unit**

CIP #: 23.09920

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth English Language Arts credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

### **CTAE+ English Language Arts: Audio-Video Technology and Film II Pathway**

**1 Unit**

CIP#: 23.09930

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth English Language Arts credit requirement for graduation. This option is only for those students that will continue post-secondary studies at the Technical College System of Georgia.

### **CTAE+ English Language Arts: Graphic Communication Pathway**

**1 Unit**

CIP #: 23.09950

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth English Language Arts credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

### **CTAE+ English Language Arts: Business and Technology Pathway**

**1 Unit**

CIP #: 23.09960

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth English Language Arts credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

### **CTAE+ English Language Arts: Marketing Communications and Promotions Pathway**

**1 Unit**

CIP #: 23.09980

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth English Language Arts credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

**Foundations of Algebra**

**1 Unit**

CIP: 27.04810

Prerequisite: This course can be offered to students who have ***struggled significantly*** in middle school mathematics courses. Schools can use the following criteria to identify students for the course: Score at the Beginning Learner level on the 7th grade math Milestones EOG assessment **OR**; Score at the Beginning Learner level on the 8th grade math Milestones EOG assessment **OR**; Failed Algebra I and scored at the Beginning Level on the EOC assessment at the end of the course. To allow for students who need ***significant*** math support but who do not meet the above criteria, schools have the option to enroll up to an additional 3% of first-time 9th graders who did not take a high school math course in middle school. These spaces should be reserved for students, with or without prior Milestones scores, who have significant math deficiencies as identified by a district diagnostic assessment.

Credit Type: L1; core or elective credit

Description: First year high school mathematics course option for students who have completed mathematics in grades 6 - 8 yet will need substantial support to bolster success in high school mathematics. The course will provide many opportunities to revisit and expand the understanding of foundational algebra concepts, will employ diagnostic means to offer focused interventions, and will incorporate varied instructional strategies to prepare students for required high school mathematics courses. The course will emphasize both algebra and numeracy in a variety of contexts including number sense, proportional reasoning, quantitative reasoning with functions, and solving equations and inequalities. This course is recognized by TCSG only.

**Algebra: Concepts and Connections\***

**1 Unit**

**Algebra: Concepts and Connections (Honors)\***

CIP #: 27.08110

Prerequisite: This course is designed for students who have successfully completed Kindergarten through 8th grade mathematics. Teacher recommendations should be provided to move student from on-level to honors course. Georgia Milestones EOC assessment required.

Credit Type: L1 or L2; Required for students entering ninth grade in 2023-2024 or later

Description: This course is designed as the first course in a sequence of three high school courses designed to ensure career and college readiness. Students will apply their algebraic and geometric reasoning skills to make sense of problems involving algebra, geometry, bivariate data, and statistics.

**Co-Requisite Algebra Support for Algebra: Concepts and Connections**

**1 Unit**

CIP #: 27.08120

Prerequisite: Teacher recommendation

Credit Type: L1; Elective credit only

Description: This course is designed to be used as a co-requisite support course for Algebra: Concepts and Connections to support student learning in the core mathematics course. This course is awarded elective mathematics credit.

**Geometry: Concepts and Connections**

**1 Unit**

**Geometry: Concepts and Connections (Honors)**

CIP #: 27.08210

Prerequisite: GSE Algebra I or Algebra: Concepts and Connections. Teacher recommendations should be provided to move student from on-level to honors course.

Credit Type: L1 or L2; Required for students entering ninth grade in 2023-2024 or later

Description: This course is the **second** course in a sequence of three high school courses designed to ensure career and college readiness. This course is intended to enhance students' geometric, algebraic, graphical, and probabilistic reasoning skills.

**Co-Requisite Geometry Support for Geometry: Concepts and Connections**

**1 Unit**

CIP #: 27.08220

Prerequisite: GSE Algebra I or Algebra: Concepts and Connections; Teacher recommendation

Credit Type: L1; Elective credit only

Description: This course is designed to be used as a co-requisite support course for Geometry: Concepts and Connections to support student learning in the core mathematics course. This course is awarded elective mathematics credit.

**Advanced Algebra: Concepts and Connections****1 Unit****Advanced Algebra: Concepts and Connections (Honors)**

CIP #: 27.08310

Prerequisite: GSE Geometry or Geometry: Concepts and Connections. Teacher recommendations should be provided to move student from on-level to honors course.

Credit Type: L1 or L2; Required for students entering ninth grade in 2023-2024 or later

Description: This is the third course in a sequence of three high school courses designed to ensure career and college readiness. It is intended to prepare students for fourth course options relevant to their postsecondary pursuits.

**Co-Requisite Advanced Algebra Support for Advanced Algebra: Concepts and Connections****1 Unit**

CIP #: 27.08320

Prerequisite: Geometry: Concepts and Connections; Teacher recommendation

Credit Type: L1: Elective credit only

Description: This course is designed to be used as a co-requisite support course for Advanced Algebra: Concepts and Connections to support student learning in the core mathematics course. This course is awarded elective mathematics credit.

**Enhanced Advanced Algebra and AP Precalculus: Concepts and Connections****1 Unit**

CIP #: 27.09310

Prerequisite: Geometry: Concepts and Connections. Teacher recommendation.

Credit Type: L3; core or elective credit; satisfies third math requirement; may substitute for 27.08410 (Precalculus)

Description: Enhanced Advanced Algebra & AP Precalculus is a thoughtful blend of topics from Advanced Algebra: Concepts & Connections and Precalculus. This is a single credit course intended to provide students the opportunity to develop a deeper understanding of mathematical concepts that are critical to the study of advanced fourth mathematics course options, including Calculus. Enrollment in AP includes the commitment to take the AP exam.

**Precalculus****1 Unit****Precalculus (Honors)**

CIP #: 27.08410

Prerequisite: GSE Algebra II or Advanced Algebra: Concepts and Connections; Teacher recommendation; Teacher recommendations should be provided to move student from on-level to honors course.

Credit Type: L1 or L2; Core or elective credit

Description: Fourth-year math option for students who have completed Advanced Algebra (or the equivalent). The course is intended to provide students with opportunities to develop a deeper understanding of Algebraic concepts that are critical to the study of Calculus. Students will also deepen their understanding of trigonometry and its applications.

**Calculus****1 Unit****Calculus (Honors)**

CIP #: 27.07800

Prerequisite: Precalculus (or the equivalent); Teacher recommendation should be provided to move student from on-level to honors course.

Credit Type: L1 or L2; Core or elective credit

Description: A fourth mathematics course option for students who have completed Precalculus (or the equivalent). The course provides students with the opportunity to develop an understanding of the derivative and its applications as well as the integral and its applications. Throughout the course there should be a focus on notational fluency and the use of multiple representations. Topics should be analyzed in multiple ways, including verbal and written, numerical, algebraic, and graphical presentations. Instruction and assessment should include the appropriate use of technology. Concepts should be introduced and investigated, where appropriate, in the context of realistic phenomena.

**Statistical Reasoning****1 Unit**

CIP #: 27.08800

Prerequisite: GSE Algebra II or Advanced Algebra: Concepts and Connections; Teacher recommendation

Credit Type: L1; Core or elective credit

Description: This course is a fourth mathematics option in the high school course sequence. It offers students opportunities to strengthen their understanding of the statistical method of inquiry and statistical simulations. Students will formulate statistical investigative questions to be answered using data, will design and implement a plan to collect the appropriate data, will select appropriate graphical and numerical methods for data analysis, and will interpret their results to make connections with the initial question. This course may not prepare students for admission to the USG institutions with selective admissions and are not appropriate for students planning to enter into a STEM-intensive major.

**Advanced Placement (AP) Statistics**

**1 Unit**

CIP #: 27.07400

Prerequisite: A second- year course in Algebra; Teacher recommendation

Credit Type: L3; Core or elective credit

Description: Introduces the derivation of knowledge from data and data collection. Explorations are conducted through experiments, surveys, and computer simulations. Presents applications in real-life situations and shows how statistics can be misleading. AP course follows the College Board syllabus for the AP Statistics Examination. Enrollment in AP includes the commitment to take the AP exam.

**Advanced Placement (AP) Precalculus**

**1 Unit**

CIP #: 27.07410

Prerequisite: GSE Algebra II or Advanced Algebra: Concepts and Connections and Teacher recommendation

Credit Type: L3; Core or elective credit

Description: In AP Precalculus, students explore everyday situations using mathematical tools and lenses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. They will learn how to observe, explore, and build mathematical meaning from dynamic systems, an important practice for thriving in an ever-changing world. Enrollment in AP includes the commitment to take the AP exam.

**Advanced Placement (AP) Calculus AB**

**1 Unit**

CIP #: 27.07200

Prerequisite: Precalculus (or the equivalent); Teacher recommendation.

Credit Type: L3; Core or elective credit

Description: Follows the College Board syllabus for the AP Calculus AB Examination, including properties of functions and graphs, limits and continuity, differential and integral calculus. Enrollment in AP includes the commitment to take the AP exam.

**Advanced Placement (AP) Calculus BC**

**1 Unit**

CIP #: 27.07300

Prerequisite: Pre- Calculus (or the equivalent) or AP Calculus AB; Teacher recommendation

Credit Type: L3; Core or elective credit

Description: Conforms to College Board topics for the AP Calculus BC Examination; includes AP Calculus AB topics, as well as vector functions, parametric equations, conversions, parametrically defined curves, tangent lines, and sequence and series. Enrollment in AP includes the commitment to take the AP exam.

**International Baccalaureate (IB) Mathematics: Analysis and Approaches Standard Level (SL), Year 1**

**1 Unit**

**International Baccalaureate (IB) Mathematics: Analysis and Approaches Standard Level (SL), Year 2**

CIP #: 27.05310 (Year 1)

CIP #: 27.05320 (Year 2)

Prerequisite: Approval of the school IB coordinator and Advanced Algebra: Concepts and Connections or GSE Algebra II

Credit Type: L3; Core or elective credit

Description: Course intended for students who wish to pursue studies in mathematics at university or subjects that have a large mathematical content; students will develop mathematical arguments, problem solve, and explore real and abstract applications, with and without technology.

**International Baccalaureate (IB) Mathematics: Application and Interpretation Standard Level (SL), Year 1**

**1 Unit**

**International Baccalaureate (IB) Mathematics: Application and Interpretation Standard Level (SL), Year 2**

CIP #: 27.05350

CIP #: 27.05360

Prerequisite: Approval of the school IB coordinator and Advanced Algebra: Concepts and Connections or GSE Algebra II

Credit Type: L3; Core or elective credit

Description: Students will use mathematics to solve real-world problems using mathematics, harnessing the power of technology and mathematical models.

**Technical College Readiness Mathematics (TCRM)**

**1 Unit**

CIP #: 27.09000

Prerequisite: The course is designed for students who have experience difficulty in passing middle school mathematics End of Grade (EOG) assessments and have struggled significantly in the first two high school mathematics courses. To recognize the struggle of students in high school algebra, students may also qualify if they received a "Beginning Learner" or "Developing Learner" designation on the Coordinate Algebra/Algebra I or Algebra: Concepts and Connections End of Course assessment. Students must have credit for Coordinate Algebra/Algebra I or Algebra: Concepts and Connections and have credit for GSE Geometry or be concurrently enrolled in Geometry: Concepts and Connections. **This course does not satisfy the requirement for Advanced Algebra: Concepts and Connections.**

Credit Type: L1; Core or elective credit; **course meets Mathematics requirement for high school graduation.**

Description: This course is designed to meet the needs of students who have passed GSE Algebra I or Algebra: Concepts and Connections, have passed or are concurrently enrolled in Geometry: Concepts and Connections while taking this course, and intend to enroll in a technical college program. The course is aimed at students who have experienced difficulty in passing middle school mathematics End of Grade (EOG) assessments, have struggled significantly in the first two high school core mathematics courses. This course is recognized by TCSG only.

**Communication Skills in Math (ELL)**

**1 Unit**

CIP #: 55.02110

Prerequisite: Special placement for limited English-speaking students determined through language proficiency testing

Credit Type: L1; Elective credit only

Description: This course supports and enhances literacy and listening skills necessary for success in the mathematics content areas; particular emphasis is on vocabulary, speaking, listening and reading skills in mathematics.

**College Readiness Mathematics (Mathematics Capstone Course)**

**1 Unit**

CIP #: 27.08900

Prerequisite: GSE Algebra II or Advanced Algebra: Concepts and Connections; Teacher recommendation.

Credit Type: L1; Core or elective credit

Description: This course is a fourth mathematics option. It is designed to serve as a bridge for high school students into postsecondary opportunities. The course has been approved by the University System of Georgia as a fourth mathematics course beyond Advanced Algebra: Concepts and Connections. This course may not prepare students for admission to the USG institutions with selective admissions and are not appropriate for students planning to enter into a STEM-intensive major. Students will be expected to complete a mandatory capstone project where they select one of the areas listed in the standard to identify a problem and use mathematical modeling to address it.

**Advanced Financial Algebra (Formerly Math of Finance)**

**1 Unit**

CIP #: 27.08430

Prerequisite: GSE Algebra II or Advanced Algebra: Concepts and Connections. Teacher recommendation.

Credit Type: L1; Core or elective credit

Description: This course is a fourth mathematics option. It is designed for students who have successfully completed Advanced Algebra: Concepts and Connections. The course extends and deepens student understanding of algebra, statistics, and research design while introducing students to relevant financial and business applications. The course has been approved by the University System of Georgia as a fourth mathematics course beyond GSE Algebra II or Advanced Algebra: Concepts and Connections.

**CTAE+ MATHEMATICS**

*The following CTAE pathways satisfy the fourth mathematics graduation requirement.*

*A student who successfully completes and passes all three courses of an identified CTAE + Mathematics pathway will earn a fourth mathematics credit requirement for graduation.*

**CTAE+ Mathematics: Agriculture Mechanics Systems Pathway**

**1 Unit**

CIP #: 27.09330

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth mathematics credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

**CTAE+ Mathematics: Engineering and Technology Pathway** **1 Unit**

CIP #: 27.09370

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth mathematics credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

**CTAE+ Mathematics: Electrical Pathway** **1 Unit**

CIP #: 27.09220

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth mathematics credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

**CTAE+ Mathematics: Machining Operations Pathway** **1 Unit**

CIP #: 27.09230

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth mathematics credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

**CTAE+ Mathematics: Sheet Metal Pathway** **1 Unit**

CIP #: 27.09240

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth mathematics credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

**CTAE+ Mathematics: Heating, Ventilation, Air Conditioning & Refrigeration Pathway** **1 Unit**

CIP #: 27.09250

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth mathematics credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

**CTAE+ Mathematics: HVACR Electrical Pathway** **1 Unit**

CIP #: 27.09260

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth mathematics credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

**CTAE+ Mathematics: Welding Pathway** **1 Unit**

CIP #: 27.09270

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth mathematics credit requirement for graduation. **This option is only for students that will continue post-secondary studies at the Technical College System of Georgia.**

**Physical Science****1 Unit****Physical Science (Honors)**

CIP #: 40.01100

Prerequisite: Teacher recommendations for Honors

Credit Type: L1 or L2; Core or elective credit; physical science course; **students in ninth grade for the first time in 2008 or later must take Physical Science or Physics I**

Description: Promotes science process skills through study of properties of matter, atomic theory, chemical symbols, stoichiometry, periodic table, organic chemistry, energy, mechanics, waves and energy transfer, electricity and magnetism.

**Biology I\*****1 Unit****Biology I (Honors)\*****Advanced Placement (AP) Biology\***

CIP #: 26.01200

CIP #: 26.01400 (AP)

Prerequisite: Teacher recommendations for Honors; Biology I and credit for or concurrent enrollment in Chemistry required for AP

Credit Type: L1, L2 or L3; **required for students in ninth grade for the first time in 2008 or later (may substitute with AP Biology, or IB Biology, Year 1)**

Description: Introduces science process skills and laboratory safety, research, nature of biology, cellular biology, biochemistry, genetics, evolution, classification, diversity of life, human body, and ecology. AP Biology conforms to the College Board topics for the AP Biology Examination; covers biological chemistry, cells, energy transformations, molecular genetics, heredity, evolution, taxonomy, systematic, and Monera, Protista, fungi, plants, animals, and ecology.

**International Baccalaureate (IB) Biology, Year 1****1 Unit**

CIP #: 26.01800

Prerequisite: Approval of the school IB coordinator

Credit Type: L3; Core or elective credit; life science course; **may substitute for the Biology I course requirement**

Description: This course examines the four basic biological concepts: structure and function, universality versus diversity, equilibrium within systems, and evolution. In addition to the course requirements in the selected science, all students must participate in a collaborative science project where concepts and perspectives from across the scientific disciplines are shared with an emphasis on interdisciplinary cooperation and application of the processes of scientific investigation.

**International Baccalaureate (IB) Biology, Year 2****1 Unit**

CIP #: 26.01900

Prerequisite: Approval of the school IB coordinator

Credit Type: L3; Core or elective credit; life science course

Description: This course will examine the mammalian body systems, the anatomy and physiology of the plant kingdom, the reproductive processes of angiosperms, population and community ecology, and the structure and importance of ecosystems. In addition to the course requirements in the selected science, all students must participate in a collaborative science project where concepts and perspectives from across the scientific disciplines are shared, and an emphasis on interdisciplinary cooperation and application of the processes of scientific investigation are applied.

**Chemistry I****1 Unit****Chemistry I (Honors)****Advanced Placement (AP) Chemistry**

CIP #: 40.05100

CIP #: 40.05300 (AP)

Prerequisite: Teacher recommendation for Honors and AP; Chemistry I recommended for AP

Credit Type: L1, L2 or L3; Core or elective credit; physical science course; **students enrolling in ninth grade for the first time in 2008 or later must take Earth Systems, Chemistry I (or AP or IB), or Environmental Science (or AP or IB)**

Description: Introduces chemistry; covers science process skills, units of chemistry, atoms and collections of atoms, periodicity and bonding, compounds and reactions, characteristics of states of matter, acid/base chemistry, chemical dynamics and equilibrium, reference, research skills, and lab safety. AP Chemistry conforms to College Board topics for the AP Chemistry Exam; covers atomic theory and structure, chemical bonding, nuclear chemistry, gases, liquids, solids, solutions, types of reactions, stoichiometry, equilibrium, kinetics, and thermodynamics. Enrollment in AP includes the commitment to take the AP exam.

## **Earth Systems**

### **Earth Systems (Honors)**

**1 Unit**

CIP #: 40.06400

Prerequisite: None

Credit Type: L1 or L2; Core or elective credit; physical science course; **students first entering ninth grade in 2008 or later must take Earth Systems, Chemistry I (or AP or IB), or Environmental Science (or AP or IB)**

Description: Develops explanations of phenomena fundamental to the sciences of geology and physical geography, including the early history of the earth, plate tectonics, landform evolution, the Earth's geologic record, weather and climate, and the history of life on earth.

## **Environmental Science**

**1 Unit**

### **Environmental Science (Honors)**

#### **Advanced Placement (AP) Environmental Science**

CIP #: 26.06110

CIP #: 26.06200 (AP)

Prerequisite: Teacher recommendation for Honors or AP

Credit Type: L1, L2 or L3; Core or elective credit; life science course; **students enrolling in ninth grade for the first time in 2008 or later must take Chemistry I or Earth Systems or Environmental Science**

Description: Provides the student with the scientific principles, concepts, and the methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Enrollment in AP includes the commitment to take the AP exam.

## **International Baccalaureate (IB) Environmental Systems, Year 1**

**1 Unit**

### **International Baccalaureate (IB) Environmental Systems, Year 2**

CIP #: 26.06300 (Year 1)

CIP #: 26.06310 (Year 2)

Prerequisite: Approval of the school IB coordinator; Year 1 course is a prerequisite for the Year 2 course

Credit Type: L3; Core or elective credit; life science course

Description: The course provides students with a deep understanding of the environment that is essentially scientific, and that enables them to examine a wide range of environmental issues. During the course, students will study eight different topics. An important aspect of the course involved applying learning in the laboratory and/or out in the field.

## **Astronomy**

**1 Unit**

CIP #: 40.02100

Prerequisite: None

Credit Type: L1; core or elective credit; physical science course

Description: Provides student with introduction to concepts of modern astronomy, the origin and history of the Universe and formation of Earth and solar system. Students will compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. Includes description of astronomical phenomena using laws of physics; planets, stars, Milky Way and other galaxies, and black holes. Explores esoteric questions concerning origin of the universe, its evolution and fate. Requires use of sophomore-high level mathematics.

## **Forensic Science**

### **Forensic Science (Honors)**

**1 Unit**

CIP #: 40.09300

Prerequisite: None

Credit Type: L1 or L2; **Elective credit only for students enrolling in ninth grade for the first time prior to 2008; Core or elective for students first entering ninth grade in 2008 or later;** physical science course

Description: Students will explore how forensic science is used in criminal investigations, will apply the principles of forensic science to hypothetical crimes, and will use the scientific process to solve fictional crimes.

## **Human Anatomy and Physiology**

**1 Unit**

### **Human Anatomy and Physiology (Honors)**

CIP #: 26.07300

Prerequisite: Teacher recommendation for Honors

Credit Type: L1 or L2; Core or elective credit; life science course



Description: Covers science process skills and laboratory safety, body organization, chemistry of life, cells and tissues, homeostasis, skeletal system, muscular system, nervous system, endocrine system, circulatory system, respiratory system, digestive system, metabolism, urinary system, integumentary system, and reproduction system.

### **Microbiology**

**1 Unit**

#### **Microbiology (Honors)**

CIP #: 26.05100

Prerequisite: Biology recommended; teacher recommendation for honors

Credit Type: L1 or L2; Core or elective credit; life science course

Description: This course focuses on archaeobacteria, prokaryotes, eukaryotes, and viruses. Students will study historical microbiology, growth and identification of bacteria, control of microbial growth, pathogenic microbiology, food and dairy microbiology, and soil and water microbiology. Students will utilize scientific inquiry to solve problems related to disease, bioterrorism, biotechnology and ecology.

### **Zoology**

**1 Unit**

CIP #: 26.07100

Prerequisite: Biology recommended

Credit Type: L1; Core or elective credit; life science course

Description: Focus on key features of major body plans that have evolved in animals resulting in the diversity of animals evident today; anatomical and physiological characteristics of animals; animal functions that unite particular animal groups; roles in an ecosystem; interconnection of all living things; and human dependence on animal species for advances in medicine, ecosystem maintenance, and food supply.

### **Oceanography**

**1 Unit**

CIP #: 40.07100

Prerequisite: None

Credit Type: L1; Core or elective credit; physical science course

Description: Students will recognize that the ocean is a dynamic system reflecting interactions among organisms, ecosystems, chemical cycles, and physical and geological processes, on land, in air, and in the oceans. Students will investigate oceanography concepts through experience in laboratories and fieldwork using the processes of inquiry.

### **Physics I**

**1 Unit**

#### **Physics I (Honors)**

#### **Advanced Placement (AP) Physics 1**

CIP #: 40.08100

CIP #: 40.08310 (AP)

Prerequisite: Teacher recommendation for Honors; GSE Accelerated Geometry/Advanced Algebra; GSE Geometry; GSE Algebra II for AP

Credit Type: L1, L2 or L3; Core or elective credit; physical science course; **students first entering ninth grade in 2008 or later must take Physical Science or Physics I**

Description: Covers basic mechanics, kinetic theory, thermodynamics, wave mechanics, electricity, particle physics, and reference, research skills, lab safety, and process skills. AP course is algebra-based, introductory college level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Course based on six Big Ideas encompassing core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world.

#### **Advanced Placement (AP) Physics C: Mechanics**

**1 Unit**

CIP #: 40.08410

Prerequisite: Physics I; Teacher recommendation

Credit Type: L3; Core or elective credit; physical science course

Description: Conforms to College Board topics for the AP Physics C Exam; covers kinematics, Newton's Laws of Motion, work, energy, power, systems of particles, linear momentum, rotation, oscillations and gravitation, electrostatics, conductors, capacitors, dielectrics, electric circuits, magnetostatics, and electromagnetism. Enrollment in AP includes the commitment to take the AP exam.

#### **International Baccalaureate (IB) Physics, Year 1**

**1 Unit**

CIP #: 40.08500

Prerequisite: Approval of the school IB coordinator

Credit Type: L3; Core or elective credit; physical science course

Description: Introduces laws of physics, experimental skills required in physics, and social and historical aspects of physics as an evolving body of human knowledge about nature. Includes measurement, mechanics, thermal physics and properties of matter, waves, electricity and magnetism, and atomic and nuclear physics.

**International Baccalaureate (IB) Physics, Year 2**

**1 Unit**

CIP #: 40.08600

Prerequisite: Approval of the school IB coordinator & IB Physics, Year 1

Credit Type: L3; Core or elective credit; physical science course

Description: Focuses on electricity and magnetism, atomic physics, optics, and relativity. Students complete two of five options on similar topics. To meet this aim, twenty-five percent of a student's classroom time must be devoted to performing practical (lab) work that covers a range of topics and skills, including a multi-disciplinary group science project.

**Ecology**

**1 Unit**

CIP #: 26.06100

Prerequisite: Teacher recommendation

Credit Type: L1; Core or elective credit; life science course

Description: Ecology is the study of the distribution and abundance of life and interactions between and among organisms and their environment, including the impact of human activities on the natural world. It draws on elements from biology, chemistry, physics, mathematics, and the social sciences. This curriculum is lab and field based. Whenever possible careers related to ecology and relevant case studies should be emphasized.

**Communication Skills in Science (ELL)**

**1 Unit**

CIP #: 55.02120

Prerequisite: Special placement for limited English-speaking students determined through language proficiency testing

Credit Type: L1; Elective credit only

Description: This course supports and enhances literacy and listening skills necessary for success in the science content areas; particular emphasis is on vocabulary, speaking, listening and reading skills in science.

**Reading and Writing in Science (ELL)**

**1 Unit**

CIP #: 55.02600

Prerequisite: Special placement for limited English-speaking students determined through language proficiency testing

Credit Type: L1; Elective credit only

Description: This course supports and enhances reading and writing skills in science and provides students with strategies for reading and comprehending scientific texts.

**Scientific Research I (Honors)**

**.5 or 1 Unit**

CIP #: 40.09210

Prerequisite: Approval of Instructional Coordinator

Credit Type: L2; Core or elective credit; physical science course

Description: Honors Scientific Research is a project-based, research-intensive course where students analyze and experiment using the Scientific Method to produce authentic products in each student's area of interest. With support from mentors, researchers, and/or scientists, students will accelerate according to individual strengths and goals to develop research topics, follow specific methodologies, and share their results in engaging presentations. Projects will be interdisciplinary in nature, will require applications of new forms of technology mastered by the student, and will challenge students with high levels of critical thinking. All presentations must show cross-curricular and real world relevance through proper use of technology, application, and value of the product or knowledge gained from the project.

**Life Sciences Work-Based Learning (WBL) Placement**

**.5 to 4 Units**

**Life Sciences Work-Based Learning (WBL) Placement (Honors)**

CIP #: 26.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**Physical Sciences Work-Based Learning (WBL) Placement**  
**Physical Sciences Work-Based Learning (WBL) Placement (Honors)**

**.5 to 4 Units**

CIP #: 40.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**CTAE+ SCIENCE**

*The following CTAE pathways satisfy the fourth science graduation requirement.*

*A student who successfully completes and passes all three courses of an identified CTAE + Science pathway will earn a fourth science credit requirement for graduation.*

**CTAE + Science: Agriculture Mechanics and Electrical Systems Pathway**

**1 Unit**

CIP #: 40.09920

Credit Type: P; Credits earned will post as a P (pass) on a student's transcript. Core or elective credit.

Description: A student must successfully complete and pass all three courses of the CTAE pathway to earn credit for the pathway and satisfy the fourth science credit requirement for graduation. **This option is only for those students that will continue post-secondary studies at the Technical College System of Georgia.**

**SOCIAL SCIENCES**

**Advanced Placement (AP) Human Geography**

**1 Unit**

CIP #: 45.07700

Prerequisite: Teacher recommendation

Credit Type: L3; Elective credit only

Description: Introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to interpret human social organization and its environmental consequences. Enrollment in AP includes the commitment to take the AP exam.

**World History**

**1 Unit**

**World History (Honors)**

**Advanced Placement (AP) World History**

CIP #: 45.08300

CIP #: 45.08110 (AP)

Prerequisite: Teacher recommendation for Honors/AP

Credit Type: L1, L2 or L3; **Required for all students first entering ninth grade in 2008 or later** (may substitute with AP World History)

Description: Emphasizes the political, cultural, economic and social development and growth of civilizations; covers the emergence of nations through trade/communications, intellectual development, scientific/technological development, emergence of nation states, nations in conflict and the emerging interdependence of nations in the first and twenty first centuries. Enrollment in AP includes the commitment to take the AP exam.

**United States History\***

**1 Unit**

**United States History (Honors)\***

**Advanced Placement (AP) United States History\***

CIP #: 45.08100

CIP #: 45.08200 (AP)

Prerequisite: Teacher recommendation for Honors and AP

Credit Type: L1, L2 or L3; **Required for all students** (may substitute with AP U.S. History or IB History of the Americas, Year 1)

Description: Investigates the United States, its people, institutions and heritage; emphasizes political, cultural and social issues, the role of the United States as a world leader and the issues confronting the United States today. AP course includes discovery and settlement, Colonial Society, American Revolution, Constitution and the New Republic, Age of Jefferson, Nationalism, Sectionalism, Territorial Expansion, Civil War, Reconstruction, Industrialization, Progressive Era, World War I, Depression, New Deal, World War II, The Cold War. Enrollment in AP includes the commitment to take the AP exam.

**American Government/Civics****.5 Unit or 1 Unit\*****American Government/Civics (Honors)****Advanced Placement (AP) Government/Politics: United States**

CIP #: 45.05700

CIP #: 45.05200 (AP)

Prerequisite: Teacher recommendation for Honors and AP

Credit Type: L1, L2 or L3; **Required for all students** (may substitute with AP Government/Politics: United States); **\*beginning in 2022-23, students who earn 1 unit of credit for this course may also receive 1 unit of credit for Introduction to Government and Public Administration (CIP #: 29.41000) earning the same grade for both courses**

Description: Focuses on the foundation, principles and structure of the American system of government, examines the role of political parties, social factors as they relate to the role of the citizen, and analyzes the decision-making process that are a part of the system of American political behavior. This course meets the state's Citizenship requirement for graduation. AP course conforms to College Board topics for the AP exam; includes federalism, separation of powers, influences on the formulation and adoption of the Constitution, political beliefs, political parties and elections, interest groups, institutions and policy processes and civil liberties and civil rights. Enrollment in AP includes the commitment to take the AP exam.

**Advanced Placement (AP) Government/Politics: Comparative 1 Unit**

CIP #: 45.05300

Prerequisite: Teacher recommendation

Credit Type: L3; Core or elective (course does not meet American Government requirement)

Description: Introductory course using a comparative approach to examine political structures; policies; and political, economic, and social challenges of China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Understanding of comparative government and politics developed through analysis of data and text-based sources. Topics include power and authority, legitimacy and stability, democratization, internal and external forces, and methods of political analysis.

**Personal Finance and Economics****.5 Unit or 1 Unit\*****Personal Finance and Economics (Honors)****.5 Unit or 1 Unit\*****Advanced Placement (AP) Macroeconomics****1 Unit****Advanced Placement (AP) Microeconomics****1 Unit**

CIP #: 45.06100

CIP #: 45.06200 (AP Macroeconomics)

CIP #: 45.06300 (AP Microeconomics)

Prerequisite: Teacher recommendation for Honors

Credit Type: L1, L2 or L3; **Required for all students** (may substitute with AP Macro or Microeconomics, or IB Economics, Year 1); **\*beginning in 2022-23, students who earn 1 unit of credit for this course may also receive 1 unit of credit for Government Public Administration: Local and State Issues (CIP #: 29.41200) earning the same grade for both courses**

Description: In addition to the fundamentals of economic decision-making, microeconomics, macroeconomics, and international economics, students will learn personal finance skills they can apply to their own futures – including managing and balancing budgets; understanding and building credit; protecting against identity theft and consumer protections; and understanding tax forms, student loan applications, and pay stubs. Economics is the study of how individuals, businesses, and governments make decisions about the allocation of scarce resources. This course provides students with a foundation in the field of economics, with a specific focus on how students can apply that knowledge to their own personal finances. AP Macroeconomics focuses on basic economic concepts, measurement of economic performance, national income and price determination and international economics and growth; AP Microeconomics focuses on basic economic concepts, the nature and functions of product markets, factor markets and efficiency. Enrollment in AP includes the commitment to take the AP exam.

**Advanced Placement (AP) European History****1 Unit**

CIP #: 45.08400

Prerequisite: Teacher recommendation

Credit Type: L3; Elective credit

Description: Conforms to College Board topics for the AP examination; covers intellectual and cultural history, political and diplomatic history and social and economic history. Enrollment in AP includes the commitment to take the AP exam.

**Advanced Placement (AP) African American Studies****1 Unit**

CIP #: 45.08960

Prerequisite: None

Credit Type: L3; Elective credit

Description: AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary moment. Given the interdisciplinary character of African American Studies, students in the course will develop skills across multiple fields, with an emphasis on developing historical, literary, visual, and data analysis skills. This course foregrounds a study of the diversity of Black communities in the United States within the broader context of Africa and the African diaspora.

**International Baccalaureate (IB) History of the Americas, Year 1**  
**International Baccalaureate (IB) History of the Americas, Year 2**

**1 Unit**

CIP #: 45.08700 (Year 1)

CIP #: 45.08930 (Year 2)

Prerequisite: Approval of the school IB coordinator

Credit Type: L3; Year 1 – core or elective credit; Year 2 - elective credit; **May substitute for the U.S. History course requirement**

Description: Comprehensive examination of major events that have shaped the history of the western hemisphere, and a look at the individuals from the past and their struggles for basic goals such as freedom, equality, and economic opportunity; includes the importance of historical evidence and various perspectives in the western hemisphere during 1845-1945.

**International Baccalaureate (IB) Psychology, Year 1**  
**International Baccalaureate (IB) Psychology, Year 2**

**1 Unit**

CIP #: 45.01700 (Year 1)

CIP #: 45.01710 (Year 2)

Prerequisite: Approval of the school IB coordinator; courses must be taken in sequence

Credit Type: L3; Elective credit

Description: Comprehensive examination of methodology, perspectives, ethics, and cultural influences on the scientific study of behaviors and mental processes that have become the field of psychology; will study psychology through three major perspectives: Biological, Cognitive, and Learning with an emphasis on the cross-cultural similarities and differences in psychology. Assumptions of psychology addressed include motivations underlying human behavior, social interaction, language and thinking, memory and emotion.

**International Baccalaureate (IB) World Religions, Year 1**  
**International Baccalaureate (IB) World Religions, Year 2**

**1 Unit**

CIP #: 45.01110 (Year 1)

CIP #: 45.01120 (Year 2)

Prerequisite: Approval of the school IB coordinator; courses must be taken in sequence

Credit Type: L3; Elective credit

Description: A systematic, analytical yet empathetic study of the variety of beliefs and practices encountered in nine main religions of the world. The course seeks to promote an awareness of religious issues in the contemporary world by requiring the study of a diverse range of religions. The religions are studied in such a way that students acquire a sense of what it is like to belong to a particular religion and how that influences the way in which the followers of that religion understand the world, act in it, and relate and respond to others. The aims of the world religions standard level courses are to: promote an inquiring, analytical and empathetic approach to the study of religion; develop an informed understanding of the diversity of world religions; foster a respectful awareness of the significance of the beliefs and practices for the faith member; develop an understanding of how religion affects people's lives; encourage a global appreciation of the issues surrounding religious and spiritual beliefs, controversies and movements in the world today; and promote responsible and informed international citizenship.

**Current Issues**

**.5 or 1 Unit**

CIP #: 45.01200

Prerequisite: None

Credit Type: L1; Elective credit

Description: Analyzes current issues and influences that are related to these issues and examines how decisions are made concerning those issues. Integrates and reinforces social studies skills

**Psychology**  
**Advanced Placement (AP) Psychology**

**.5 or 1 Unit**

**1 Unit**

CIP #: 45.01500

CIP #: 45.01600 (AP)

Prerequisite: None; teacher recommendation for AP

Credit Type: L1 or L3; Elective credit

Description: First half investigates the principles of psychology for human behavior in relation to human development, learning/cognition, and personality. Second half investigates the principles of psychology in relation to psychological disorders, methods of therapy, social cognition and social interaction. Investigation of methodologies for study and research development. Integrates and reinforces social studies skills. AP course includes methods, approaches and the history of psychology as a science, biological bases of behavior, sensation and perception, learning, developmental psychology, personality, testing and individual differences, abnormal psychology, treatment of psychological disorders and social psychology. Enrollment in AP includes the commitment to take the AP exam.

**Sociology**

**.5 or 1 Unit**

CIP #: 45.03100

Prerequisite: None

Credit Type: L1; Elective credit

Description: First half of course investigates principles of sociology, the individual in groups, social institutions, social control and the use of research methods to examine social problems. Second half of course investigates the principles of social institutions, economy, politics, education, religion, and the current issues in sociology including population shifts, collective behavior and social change. Methodologies for study and research development for these areas will be investigated. Integrates and reinforces social studies skills.

**Individual and the Law**

**.5 or 1 Unit**

CIP #: 45.05600

Prerequisite: None

Credit Type: L1; Elective credit

Description: Analyzes the foundations and functions of the American legal system; examines types of laws, the individual's relationship to the law and major court decisions; integrates and reinforces social studies skills.

**Peer Leadership I**

**.5 or 1 Unit**

CIP #: 45.05900

Prerequisite: Teacher recommendation

Credit Type: L1; Elective credit

Description: Investigates what it means to be a leader and guides students in exercising leadership. Course provides a focus for leadership learning via student-centered experience, including guided and independent activities. Leadership opportunities offered both inside and outside the classroom setting. Concepts to be covered include goal setting, team building, communication, problem solving, motivation, and community and civic responsibility skills.

**Comparative Religions**

**.5 or 1 Unit**

CIP #: 45.01100

Prerequisite: None

Credit Type: L1; Elective credit only

Description: Compares major religions of the world; covers ethical-philosophical teachings, historical development, social and cultural impact on various societies and commonalities found in all religions. Integrates and reinforces social studies skills.

**US History in Film**

**1 Unit**

CIP: 45.08120

Prerequisite: None

Credit Type: L1; Elective credit

Description: Explores United States history through film. Course includes analysis and interpretation of events through both print and film.

**Personal Financial Literacy**

**.5 or 1 Unit**

CIP #: 45.06700

Prerequisite: None

Credit Type: L1; Elective credit

Description: Course explores income, budgeting, payment for goods and services, credit and interest rates, financial institutions, investments, insurance and risk management, taxation, consumer protection, and identity theft.

**World Area Studies****World Area Studies (Honors)****1 Unit**

CIP #: 45.09200

Prerequisite: Enrollment in Johnson High School's JISA Program

Credit Type: L1 or L2; Elective credit

Description: Examination of the how the global society impacts the individual and how the individual impacts the global society. Topics will include human rights, world poverty, ecology, migration of people, population growth, and the scarcity of resources.

**World Geography****.5 or 1 Unit**

CIP #: 45.07110

Prerequisite: None

Credit Type: L1; Elective credit

Description: Provides an introduction to both physical and cultural geography. For each major region, students learn the importance of the physical geography and its impact on the region's development. Also include the cultural aspects of each region and examination of the influence of geography on the cultural development of each region.

**Sports in United States Society****1 Unit**

CIP #: 45.01900

Prerequisite: None

Credit Type: L1; Elective credit

Description: The Sports in United States Society course examines the vital sociological role of sport in the making of United States society and culture, and vice-versa. The course analyzes the reasons for and popularity of youth, high school, collegiate, and professional sports and the interrelationship between sports and other social institutions, such as the economy, education, media, and politics. Inequalities and deviance in society that are reflected in sports are discussed, along with social progress championed through sports. Current issues and controversies in sports that are a microcosm of society are also presented.

**Anthropology****1 Unit**

CIP #: 45.02100

Prerequisite: None

Credit Type: L1; Elective credit only

Description: Investigates humans from prehistory to the present. Focuses on aspects of human development, humanity and its social adaptations, biological development and cultural adaptations. Integrates and reinforces social studies skills.

**Introduction to U.S. Intelligence and National Security Studies****1 Unit**

CIP #: 45.06000

Prerequisite: None

Credit Type: L1; Elective credit; **beginning in 2022-23, students who earn 1 unit of credit for this course may also receive 1 unit of credit for Government Public Administration: State and Federal Issues (CIP #: 29.41100) earning the same grade for both courses**

Description: Introduction to U.S. Intelligence and National Security Studies provides a basic and broad overview of the career field of Intelligence, the authorized activities of an intelligence professional, the composition of the United States Government Intelligence Community (IC), the various functions of each of the member agencies, the limits and capabilities of Intelligence and how Intelligence plays a role in the decision-making process of the government. This course is also designed to apply critical analysis to the field of U.S. Intelligence.

**Local Area Studies/Geography****.5 or 1 Unit**

CIP #: 45.07600

Prerequisite: Approval of LCA/LCCA Project Search/Project Success Program Director

Credit Type: L1; Elective credit only

Description: Examines the geographic, historic, cultural and economic development of the local community; emphasizes the role of its people and institutions and the impact of the natural features. Integrates and reinforces social studies skills.

**Local Area Studies/History**

**.5 or 1 Unit**

CIP #: 45.08600

Prerequisite: Approval of LCA/LCCA Project Search/Project Success Program Director

Credit Type: L1; Elective credit only

Description: Investigates the development of the local community, emphasizing its people, institutions and heritage. Covers the development of the changing community over time; integrates and reinforces social studies skills.

**Communication Skills in Social Studies (ELL) 1 Unit**

CIP: 55.02130

Prerequisite: Special placement for limited English speaking students determined through language proficiency testing

Credit Type: L1; Elective credit only

Description: This course supports and enhances literacy and listening skills necessary for success in the social studies content areas; particular emphasis is on vocabulary, speaking, listening and reading skills in social studies.

**Social Sciences Work-Based Learning (WBL) Placement**

**.5 or 1 Unit**

**Social Sciences Work-Based Learning (WBL) Placement (Honors)**

CIP: 45.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.



**French I, II**

**1 Unit**

**French I – V (Honors)**

CIP #: 60.01100 (I)

CIP #: 60.01200 (II)

CIP #: 60.01300 (III)

CIP #: 60.01400 (IV)

CIP #: 60.01500 (V)

Prerequisite: Courses must be taken in sequence

Credit Type: L1 or L2; Core or elective credit

Description: Presents French language in an integrated way emphasizing listening, speaking, reading, and writing; includes asking and responding to basic questions, speaking and reading within a range of carefully selected topics. Develops an understanding of French-speaking cultures. Honors level courses emphasize the acquisition of authentic language, including recognizing the nuances, idiomatic phrases and regional differences of the language; students will learn to understand the language spoken at a normal rate and increase abilities to accurately express themselves on topics both orally and in writing to an increasingly advanced level of proficiency.

**Spanish I, II**

**1 Unit**

**Spanish I – V (Honors)**

CIP #: 60.07100 (I)

CIP #: 60.07200 (II)

CIP #: 60.07300 (III)

CIP #: 60.07400 (IV)

CIP #: 60.07500 (V)

CIP #: 60.07600 (VI)

Prerequisite: Courses must be taken in sequence; Virtual format available with approval of Instructional Coordinator

Credit Type: L1 or L2; Core or elective credit; *Spanish I, II, and I – IV Honors available as E-courses*

Description: Emphasizes listening, speaking, reading, and writing. Includes how to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of Spanish-speaking cultures. Honors level courses emphasize the acquisition of authentic language which includes recognizing the nuances, idiomatic phrases and regional differences of the language. In addition, students will learn to understand the language spoken at a normal rate and will increase their abilities to accurately express themselves on a variety of topics both orally and in writing to an increasingly advanced level of proficiency.

**Advanced Placement (AP) Spanish Language and Culture**

**1 Unit**

CIP #: 60.07700

Prerequisite: Spanish I-III

Credit Type: L3; Core or elective credit

Description: Emphasizes the ability to comprehend formal and informal spoken Spanish, to acquire the vocabulary and grasp of structure to read newspapers, magazines and Hispanic literature, and to compose expository passages and to speak accurately and fluently. Enrollment in AP includes the commitment to take the AP exam.

**Advanced Placement (AP) Spanish Literature and Culture**

**1 Unit**

CIP #: 60.08110

Prerequisite: Spanish I-III

Credit Type: L3; Core or elective credit

Description: Study of required authors and selected works for the AP Exam; emphasizes the ability to understand a lecture in Spanish and discuss literary topics in Spanish, to read Hispanic literary texts in all genres and to analyze critically form and content of literary works orally and in writing using appropriate terminology. Enrollment in AP includes the commitment to take the AP exam.

**Spanish for Native Spanish Speakers I, II, III**

**1 Unit**

**Spanish for Native Spanish Speakers I, II, III (Honors)**

CIP #: 60.07900 (I)

CIP #: 60.07910 (II)

CIP #: 60.07920 (III)

Prerequisite: Courses must be taken in sequence

Credit Type: L1 or L2; Core or elective credit

Description: Designed for Heritage Language Learners of Spanish; students will develop reading, writing, speaking and listening skills, and will develop an awareness and understanding of Hispanic cultures, such as language variations, customs, and current events.

**International Baccalaureate (IB) Spanish A, Year 1**

**1 Unit**

**International Baccalaureate (IB) Spanish A, Year 2**

CIP #: 60.07810 (Year 1)

CIP #: 60.07820 (Year 2)

Prerequisite: Approval of the school IB coordinator, Spanish for Native Speakers I & II OR Spanish I-IV; must be taken in sequence

Credit Type: L3; Core or elective credit

Description: Native Speakers of Spanish will develop a critical response to Spanish literature that is expressed clearly and concisely, and held to an international standard of excellence to ensure the advanced nature of learning in preparation for IB examinations. Students experience high-level analysis and advanced composition throughout in preparation for the IB exam.

**International Baccalaureate (IB) Spanish, Year 1**

**1 Unit**

**International Baccalaureate (IB) Spanish, Year 2**

CIP #: 60.07130 (Year 1)

CIP #: 60.07160 (Year 2)

Prerequisite: Approval of the school IB coordinator & Spanish II; courses must be taken in sequence; not a first or second year course

Credit Type: L3; Core or elective credit

Description: Advanced courses designed to expand the students' ability to communicate in Spanish and discuss issues related to literature, history, social issues, politics, and current events; classes will be conducted in Spanish, and the students will have many proficiency-based opportunities to practice their skills in listening, speaking, reading and writing.

**International Baccalaureate (IB) Spanish ab initio, Year 1**

**1 Unit**

**International Baccalaureate (IB) Spanish ab initio, Year 2**

CIP #: 60.07170 (Year 1)

CIP #: 60.07180 (Year 2)

Prerequisite: Approval of the school IB coordinator; courses must be taken in sequence

Credit Type: L3; Core or elective credit

Description: Designed for IB Diploma students who have had little to no previous experience learning the Spanish language. The main objective of the courses will be to provide students with the skills that are necessary for them to be able to handle everyday situations in a Spanish-speaking environment. The course will cover the skills of speaking, listening, reading, and writing and will enable students to know how to respond appropriately and spontaneously in a wide range of different circumstances.

**German I, II**

**1 Unit**

**German I – IV (Honors)**

CIP #: 61.01100 (I)

CIP #: 61.01200 (II)

CIP #: 61.01300 (III)

CIP #: 61.01400 (IV)

Prerequisite: Courses must be taken in sequence

Credit Type: L1 or L2; Core or elective credit

Description: Emphasizes listening, speaking, reading, and writing. Includes how to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of German-speaking cultures. Honors level emphasizes the acquisition of authentic language which includes recognizing the nuances, idiomatic phrases and regional differences of the language; in addition, students will learn to accurately express themselves to an increasingly advanced level of proficiency.

**Advanced Placement (AP) German Language and Culture**

**1 Unit**

CIP #: 61.01700

Prerequisite: German I-III

Credit Type: L3; Core or elective credit

Description: Emphasizes the ability to comprehend formal and informal spoken German, to acquire the vocabulary and grasp of structure to read newspapers, magazines and German-language literature, to compose expository passages, and to speak accurately and fluently. Enrollment in AP includes the commitment to take the AP exam.

**Chinese I, II****1 Unit****Chinese I - V (Honors)**

CIP #: 62.01100 (I)

CIP #: 62.01200 (II)

CIP #: 62.01300 (III)

CIP #: 62.01400 (IV)

CIP #: 62.01500 (V)

Prerequisite: Courses must be taken in sequence

Credit Type: L1 or L2; Core or elective credit; *Chinese I, II and III available as E-course*

Description: Emphasizes listening, speaking, reading, and writing. Includes how to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of Chinese-speaking cultures. Honors level emphasizes the acquisition of authentic language which includes recognizing the nuances, idiomatic phrases and regional differences of the language; in addition, students will learn to accurately express themselves to an increasingly advanced level of proficiency.

**International Baccalaureate (IB) Chinese, Year 1****1 Unit****International Baccalaureate (IB) Chinese, Year 2**

CIP #: 62.01900 (Year 1)

CIP #: 62.01910 (Year 2)

Prerequisite: Approval of the school IB coordinator &amp; Chinese II

Credit Type: L3; Core or elective credit, not a first or second year course

Description: IB Chinese is an advanced course designed to expand the students' ability to communicate in Chinese and discuss issues related to literature, history, social issues, politics, and current events. Students exposed to these areas through a variety of texts, magazines, newspapers and current videos. Students expected to work independently and to be self-motivated and self-disciplined. Classes conducted in Chinese; students will have opportunities to practice skills in listening, speaking, reading and writing.

**International Baccalaureate (IB) Mandarin Chinese ab initio, Year 1****1 Unit****International Baccalaureate (IB) Mandarin Chinese ab initio, Year 2**

CIP #: 62.01920 (Year 1)

CIP #: 62.01930 (Year 2)

Prerequisite: Approval of the school IB coordinator; courses must be taken in sequence

Credit Type: L3; Core or elective credit

Description: Two-year course designed to introduce students to learning and using Mandarin Chinese. This course is designed for students interested in China, Chinese culture and Mandarin. Previous experience of the language is not a requirement. The courses focus on the seven daily life topics including the individual, education and work, town and services, food and drink, leisure and travel, the environment, and health and emergencies.

**Portuguese I, II, III, IV, V****1 Unit****Portuguese I - V (Honors)**

CIP #: 60.05100 (I)

CIP #: 60.05200 (II)

CIP #: 60.05300 (III)

CIP #: 60.05400 (IV)

CIP #: 60.05500 (V)

Prerequisite: Courses must be taken in sequence

Credit Type: L1; Core or elective credit

Description: Emphasizes listening, speaking, reading, and writing. Includes how to ask and respond to basic questions, to speak and read within a range of carefully selected topics and to develop an understanding of Portuguese-speaking cultures.

**Spoken Languages Work-Based Learning (WBL) Placement****.5 or 1 Unit****Spoken Languages Work-Based Learning (WBL) Placement (Honors)**

CIP #: 63.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**FINE ARTS****DANCE****Modern Dance I – IV****.5 or 1 Unit**

CIP #: 51.04100 (I)

CIP #: 51.04200 (II)

CIP #: 51.04300 (III)

CIP #: 51.04400 (IV)

Prerequisite: Courses must be taken in sequence

Credit Type: L1; Core or elective credit

Description: Introduces basic concepts and skills of modern dance technique including shape, form, line, contract and release, fall and recovery, coordination, balance, core support, clarity of movement, and weight shifts. Students explore individual expression and creativity. Stresses aesthetic perception, creative expression, and performance, with a connection to historical/cultural heritage and aesthetic analysis (e.g. traditional modern, post-modern, Afro-modern, contemporary).

**THEATRE ARTS****Theatre Arts/Fundamentals I – IV****.5 or 1 Unit**

CIP #: 52.02100 (I)

CIP #: 52.02200 (II)

CIP #: 52.02300 (III)

CIP #: 52.02400 (IV)

Prerequisite: Courses must be taken in sequence

Credit Type: L1; Core or elective credit

Description: Develops and applies performance strategies of basic vocal, physical and emotional exercises in scene study, while including improvisation and technical art forms. Year II develops and applies performance skills through basic vocal, physical and emotional exercises; includes improvisation and scene study and related technical art forms. Year II-IV provides producing and studying children's theater and literature in depth with performance opportunities. Year IV engages students in writing plays; explores the role of the playwright; students learn by researching, evaluating and synthesizing cultural and historical information to support artistic choice, and analyzing, critiquing, and constructing meanings from informal and formal theatre, film and electronic media.

**Theatre Arts/Advanced Drama I, II, III, IV****Theatre Arts/Advanced Drama I, II, III, IV (Honors)****1 Unit**

CIP #: 52.05100 (I)

CIP #: 52.05200 (II)

CIP #: 52.05230 (III)

CIP #: 52.05240 (IV)

Prerequisite: Courses must be taken in sequence

Credit Type: L1 or L2; Core or elective credit

Description: Introduces acting and theater as disciplined art forms; covers methods to observe and understand human behavior and to use these observations to create a character; includes basic techniques of stage movement and use of physical expression for communication. Enhances vocal techniques; uses historical, textual and improvisational studies.

**Theatre Arts/Musical Theater I, II, III, IV****Theatre Arts/Musical Theater I, II, III, IV (Honors)****1 Unit**

CIP #: 52.03100 (I)

CIP #: 52.03200 (II)

CIP #: 52.0330 (III)

CIP #: 52.03400 (IV)

Prerequisite: Courses must be taken in sequence

Credit Type: L1 or L2; Core or elective credit

Description: Introduces the style and characteristic elements of modern musical theater. Covers production staging, orchestration, voice and dance; offers an opportunity for team teaching through interdisciplinary collaboration with the chorus, band, art, technology, physical education and dance instructors. Focuses on voice production, character study, and choreography as related to production.

**Theatre Arts/Technical Theater I, II, III, IV**  
**Theatre Arts/Technical Theater I, II, III, IV (Honors)**

**.5 or 1 Unit**

CIP #: 52.04100 (I)

CIP #: 52.04200 (II)

CIP #: 52.04300 (III)

CIP #: 52.04400 (IV)

Prerequisite: Courses must be taken in sequence

Credit Type: L1 or L2; Core or elective credit

Description: Introduces students to the fundamentals of technical theatre: sound, lights, stage management, scenic design, costumes, etc. Students will also be members of the running crew for theatre productions.

**Lighting Design I**

**1 Unit**

CIP #: 52.04500

Prerequisite: Teacher recommendation

Credit Type: L1; Core or elective

Description: Introduces techniques of lighting design for theatre, covering script analysis, lighting instruments, color media, control consoles, conventional lighting techniques, lighting plots, equipment maintenance, and working with performers and patrons of the arts.

**Theatre Arts Literature I**

**1 Unit**

CIP #: 52.08100

Prerequisite: Teacher recommendation

Credit Type: L1; Core or elective

Description: Course analyzes and constructs meaning from theatrical experiences, dramatic experiences, and electronic media. Students develop scripts, act in a variety of situations and environments, design and execute artistic and technical elements of theatre, direct rehearsals, research cultural and historical information to support artistic choices, and examine theatre of past and present civilizations.

**International Baccalaureate (IB) Theatre, Year 1**

**1 Unit**

**International Baccalaureate (IB) Theatre, Year 2**

CIP #: 52.05300 (Year 1)

CIP #: 52.05400 (Year 2)

Prerequisite: Approval of the school IB coordinator; Year 1 course is a prerequisite for the Year 2 course

Credit Type: L3; Core or elective credit

Description: Provides understands the importance of working as individuals and members of an ensemble; students gain greater understanding of own perspectives while appreciating perspectives of diverse peoples; provides opportunity to explore different dramatic forms, develop a sense of internationalism, and acquire skills in depth and breadth to be used in various performance areas.

**International Baccalaureate (IB) Film, Year 1**

**1 Unit**

**International Baccalaureate (IB) Film, Year 2**

CIP #: 52.07300 (Year 1)

CIP #: 52.07400 (Year 2)

Prerequisite: Approval of the school IB coordinator

Credit Type: L3; Core or elective credit

Description: Through the study and analysis of film texts and exercises in film-making, course explores film history, theory and socio-economic background. Develops students' critical abilities, enabling them to appreciate multiplicity of cultural and historical perspectives in film. Professional and technical skills are developed to allow students to express themselves creatively in film.

**Theatre Management**

**1 Unit**

CIP: 52.09100

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Course focuses on analysis of a variety of media, directing rehearsals, researching cultural and historical information, integrating art forms to create theatre, examining roles as a reflection of past and present civilizations, exploring and critiquing theatre business, and engaging as an audience member.

**Dramatic Writing (Film, Television, and Theatre I)****1 Unit**

CIP #: 52.09200

Prerequisite: None

Credit Type: L1; Core or elective; **beginning in the 2018-19 school year, students who earn 1 unit of credit for this course may also receive 1 unit of credit for Advanced Composition (23.03400) earning the same grade for both courses**

Description: Applies skills to culminate in creating and developing dramatic writing for theatrical media with special emphasis on film and television. Includes development of “writerly stance” by reading, viewing, and analyzing texts and visual media from a writer’s point of view, with focus on understanding the construction process and including the application of conventions of standard English grammar and usage.

Note: This course meets fourth English Language Arts core requirement.

**Theatre Arts Work-Based Learning (WBL) Placement****.5 to 4 Units****Theatre Arts Work-Based Learning (WBL) Placement (Honors)**

CIP #: 52.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**MUSIC****Music Appreciation I, II****.5 or 1 Unit**

CIP #: 53.014

CIP #: 53.015

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Introduces production and performance; covers terminology and idioms, elements of music, perceptive listening and attitudes and appreciation; stresses the ability to become a literate consumer and the ability to speak and write about music.

**Music Theory & Composition****1 Unit****Advanced Placement (AP) Music Theory**

CIP #: 53.02100 (Beginning)

CIP #: 53.02200 (Intermediate)

CIP #: 53.02270 (Advanced)

CIP #: 53.02300 (AP)

Prerequisite: None

Credit Type: L1 or L3; Core or elective credit

Description: Introduces fundamentals of organized sound and rules of Western music composition; opportunity to create original works. AP covers terminology and notational skills, writing skills, visual analysis, aural skills, and advanced levels of understanding. Enrollment in AP includes the commitment to take the AP exam.

**Beginning Band I, II****.5 or 1 Unit**

CIP #: 53.03610

CIP #: 53.03620

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1; Core or elective credit

Description: Opportunities to develop performance skills on wind or percussion instrument; emphasizes performance and production, analysis, historical and cultural influences, improvisation and appreciation of music. Concepts and demands found in Grade1 level literature.

**Intermediate Band I – IV****.5 or 1 Unit**

CIP #: 53.03710 (I)

CIP #: 53.03720 (II)

CIP #: 53.03730 (III)

CIP #: 53.03740 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1; Core or elective credit

Description: Provides opportunities to increase performance skills and precision on a wind or percussion instrument; includes analysis and theoretical studies, historical and cultural contributions, creative aspects of music, and strengthening reading skills. Concepts and demands found in Grades 2 and 3 level literature.

**Intermediate Instrumental Ensemble I – IV**

**1 Unit**

CIP #: 53.07510 (I)

CIP #: 53.07520 (II)

CIP #: 53.07530 (III)

CIP #: 53.07540 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1; Core or elective credit

Description: Provides opportunities to increase performance skills and precision on a wind or percussion instrument; includes analysis and theoretical studies, historical and cultural contributions, creative aspects of music, and strengthening reading skills. Concepts and demands found in Grades 2 and 3 level literature.

**Intermediate Jazz I – IV**

**1 Unit**

CIP #: 53.06510 (I)

CIP #: 53.06520 (II)

CIP #: 53.06530 (III)

CIP #: 53.06540 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1; Core or elective credit

Description: Offers opportunities for intermediate-level performers to increase performance skills and knowledge on instruments or voice in a jazz idiom; includes performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music (especially improvisation and composition) and appreciation of music. Emphasizes jazz as an indigenous American art form and a major component of our cultural heritage. Concepts and demands found in Grades 2 and 3 level literature.

**Advanced Band I – IV**

**.5 or 1 Unit**

**Advanced Band III, IV (Honors)**

CIP #: 53.03810 (I)

CIP #: 53.03820 (II)

CIP #: 53.03830 (III)

CIP #: 53.03840 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence; teacher recommendation required for Honors

Credit Type: L1 or L2; Core or elective credit

Description: For the advanced-level performer to increase, develop and refine performance skills and precision; covers performance and production, analysis and theoretical studies, aspects of music and appreciation of music at advanced levels of understanding; stresses self-paced progress in an increasing breadth of repertoire, individual learning strategies and ensemble experiences. Concepts and demands found in Grades 4 and 5 level literature.

**Advanced Instrumental Ensemble I – IV**

**1 Unit**

**Advanced Instrumental Ensemble III, IV (Honors)**

CIP #: 53.07610 (I)

CIP #: 53.07620 (II)

CIP #: 53.07630 (III)

CIP #: 53.07640 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1 or L2; Core or elective credit

Description: For the advanced-level performer to increase, develop and refine performance skills and precision; covers performance and production, analysis and theoretical studies, aspects of music and appreciation of music at advanced levels of understanding; stresses self-paced progress in an increasing breadth of repertoire, individual learning strategies and ensemble experiences. Concepts and demands found in Grades 4 and 5 level literature.

**Advanced Jazz I – IV****1 Unit**

CIP #: 53.06610 (I)

CIP #: 53.06620 (II)

CIP #: 53.06630 (III)

CIP #: 53.06640 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1 or L2; Core or elective credit

Description: Offers opportunities for advanced-level performers to increase performance skills & knowledge on instruments or voice in a jazz idiom; includes performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music (especially improvisation and composition) and appreciation of music. Emphasizes jazz as an indigenous American art form and a major component of our cultural heritage. Concepts and demands found in Grades 4 and 5 level literature.

**Mastery Band I – IV****1 Unit****Mastery Band I – IV (Honors)**

CIP #: 53.03910 (I)

CIP #: 53.03920 (II)

CIP #: 53.03930 (III)

CIP #: 53.03940 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1 or L2 Core or elective credit

Description: For the advanced-level performer to increase, develop and refine performance skills and precision; covers performance and production, analysis and theoretical studies, aspects of music and appreciation of music at advanced levels of understanding; stresses self-paced progress in an increasing breadth of repertoire, individual learning strategies and ensemble experiences. Concepts and demands found in Grade 6 level literature.

**Beginning Music Technology****1 Unit**

CIP #: 53.02210

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Students learn how to use digital tools and resources to create, present, respond, and connect to music as an art form and/or industry.

**Beginning Chorus I – IV****.5 or 1 Unit**

CIP #: 54.02110 (I)

CIP #: 54.02120 (II)

CIP #: 54.02130 (III)

CIP #: 54.02170 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1; Core or elective credit

Description: Provides opportunities to develop performance skills and knowledge in ensemble singing; may include choral literature from any style period; covers analysis and theoretical studies, historical and cultural influences, and creative aspects of music. Concepts and demands found in Class C-D choral literature.

**Intermediate Choral Ensemble I – IV****.5 or 1 Unit****Intermediate Choral Ensemble I – IV (Honors)**

CIP #: 53.07210 (I)

CIP #: 53.07220 (II)

CIP #: 53.07230 (III)

CIP #: 53.07240 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence Credit Type:

L1; Core or elective credit

Description: Provides opportunities to increase intermediate-level performance skills and knowledge in ensemble choral singing; covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music; stresses individual progress and group experiences; offers smaller ensemble experiences. Concepts and demands found in Class B – C literature.



**Intermediate Chorus I – IV****.5 or 1 Unit**

CIP #: 54.02210 (I)  
CIP #: 54.02220 (II)  
CIP #: 54.02230 (III)  
CIP #: 54.02270 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1; Core or elective credit

Description: Provides opportunities to increase intermediate-level performance skills and knowledge in choral singing; covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music; stresses individual progress and group experiences; offers larger choral singing experiences. Concepts and demands found in Class B – C literature.

**Advanced Choral Ensemble I – IV****.5 or 1 Unit****Advanced Choral Ensemble I – IV (Honors)**

CIP #: 53.07310 (I)  
CIP #: 53.07320 (II)  
CIP #: 53.07330 (III)  
CIP #: 53.07340 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1 or L2; Core or elective credit

Description: Provides opportunities for advanced-level performers to increase performance skills and knowledge in ensemble choral singing; includes madrigal, notes, quartet and solo literature of all style periods; covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Concepts and demands found in Class A – B literature.

**Advanced Chorus I – IV****.5 or 1 Unit**

CIP #: 54.02310 (I)  
CIP #: 54.02320 (II)  
CIP #: 54.02330 (III)  
CIP #: 54.02340 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1 or L2; Core or elective credit

Description: Provides opportunities for advanced-level performers to increase performance skills and knowledge in choral singing; covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Concepts and demands found in Class A – B literature.

**Mastery Mixed Chorus I – IV****1 Unit****Mastery Mixed Chorus I – IV (Honors)**

CIP #: 54.02350 (I)  
CIP #: 54.02360 (II)  
CIP #: 54.02370 (III)  
CIP #: 54.02380 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1 or L2; Core or elective credit

Description: For the advanced-level performer to increase, develop and refine performance skills and precision; covers performance and production, analysis and theoretical studies, aspects of music and appreciation of music at advanced levels of understanding; stresses self-paced progress in an increasing breadth of repertoire, individual learning strategies and ensemble experiences. Concepts and demands found in Class A literature.

**Beginning Guitar I - IV****1 Unit**

CIP #: 53.08410 (I)  
CIP #: 54.08420 (II)  
CIP #: 54.08430 (III)  
CIP #: 54.08440 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1; Core or elective credit

Description: This course is designed to be a beginning guitar course in which students perform, respond, create, and connect to music through the guitar.

**Beginning Piano I - IV**

**1 Unit**

CIP #: 53.09410 (I)

CIP #: 53.09420 (II)

CIP #: 53.09430 (III)

CIP #: 53.09440 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: Credit Type: L1; Core or elective credit

Description: Introduces basic piano keyboard techniques. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Provides an individualized setting.

**Intermediate Piano I - IV**

**1 Unit**

CIP #: 53.09510 (I)

CIP #: 53.09520 (II)

CIP #: 53.09530 (III)

CIP #: 53.09540 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: Credit Type: L1; Core or elective credit

Description: Offers opportunities for intermediate-level performers to increase performance skills and knowledge in keyboard techniques. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Provides an individualized setting.

**Advanced Piano Techniques I - IV**

**1 Unit**

**Advanced Piano Techniques I – IV (Honors)**

CIP #: 53.09610 (I)

CIP #: 53.09620 (II)

CIP #: 53.09630 (III)

CIP #: 53.09640 (IV)

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: Credit Type: L1; Core or elective credit

Description: Offers opportunities for Advanced-level performers to increase performance skills and knowledge in keyboard techniques. Covers performance and production, analysis and theoretical studies, historical and cultural contributions and influences, creative aspects of music and appreciation of music. Provides an individualized setting.

**International Baccalaureate (IB) Music, Year 1**

**1 Unit**

**International Baccalaureate (IB) Music, Year 2**

CIP #: 53.02900 (Year 1)

CIP #: 53.02910 (Year 2)

Prerequisite: Approval of the school IB coordinator & one music credit; courses must be taken in sequence

Credit Type: L3; Core or elective credit

Description: IB music introduces the high school music student to college level music classes. The classes are performance based; however, the focus of performance narrows to that of solo literature and the area of study expands to include music theory, analysis through listening, composition, and musical investigation.

**Music Work-Based Learning (WBL) Placement**

**.5 to 4 Units**

**Music Work-Based Learning (WBL) Placement (Honors)**

CIP #: 53.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

## VISUAL ARTS

### Visual Arts Comprehensive I – V

.5 or 1 Unit

#### Visual Arts Comprehensive III, IV, V (Honors)

CIP #: 50.02110 (I)

CIP #: 50.02120 (II)

CIP #: 50.02130 (III)

CIP #: 50.02400(IV)

CIP #: 50.02600 (V)

Prerequisite: Visual Arts Comprehensive I; Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1 or L2; Core or elective credit

Description: Introduces art history, art criticism, aesthetic judgment and studio production; emphasizes the ability to use elements and principles of design through a variety of media, processes and visual resources; explores master artworks for historical and cultural significance. Year II emphasizes knowledge and application of design elements. Explores different two-and three-dimensional art media and processes. Year III provides practice in applying design elements and principles of design; stresses idea development through production and creativity and through the study of master artists. Year IV provides opportunities for in-depth application of design elements and principles of design in two-and three-dimensional art media and processes.

### Ceramics & Pottery I – IV

1 Unit

CIP #: 50.04110 (I)

CIP #: 50.04120 (II)

CIP #: 50.04130 (III)

CIP #: 50.04140 (IV)

Prerequisite: Visual Arts Comprehensive I; Courses must be taken in sequence

Credit Type: L1; Core or elective credit

Description: Introduces clay design by using various techniques of construction and decoration; emphasizes hand building and other forming techniques, surface decoration and glaze applications. Year II provides design techniques through hand building or throwing on the potter's wheel; introduces formulation of basic glazes and kiln firing; stresses evaluation of clay forms through art criticism. Year III presents ceramic/pottery forms in historical context; explores ideas and questions about purposes and functions of ceramic forms, past and present. Year IV emphasizes form and surface treatments using tools, glazes, resists and multiple clay bodies.

### Applied Design I

1 Unit

CIP #: 50.04310

Prerequisite: Visual Arts Comprehensive I; Courses must be taken in sequence

Credit Type: L1; Core or elective credit

Description: Emphasizes design elements and principles in the production of applied design art products and/or designs such as architecture, advertisements, graphic designs, environmental designs, and product designs. Stresses proper use of equipment and vocabulary and technical terms. Investigates the computer and its influence on and role in creating contemporary designs. Includes a cultural and historical study of master design works of different periods and styles.

### Drawing I, II

1 Unit

CIP #: 50.03110 (I)

CIP #: 50.03120 (II)

Prerequisite: Visual Arts Comprehensive I; Courses must be taken in sequence

Credit Type: L1; Core or elective credit

Description: Explores a variety of drawing techniques and media; emphasizes basic drawing skills and critical analysis for responding to drawings of different historical styles and period; examines solutions to drawing problems.

### Drawing & Painting I, II

1 Unit

CIP #: 50.03130 (I)

CIP #: 50.03140 (II)

Prerequisite: Visual Arts Comprehensive I; Courses must be taken in sequence

Credit Type: L1; Core or elective credit

Description: Explores techniques and a range of drawing and painting media; stresses critical analysis of master paintings and drawings of different styles and historical periods; emphasizes problem-solving techniques to achieve desired results in personal work.

**Painting I****1 Unit**

CIP #: 50.03210

Prerequisite: Visual Arts Comprehensive I

Credit Type: L1; Core or elective credit

Description: Explores a variety of techniques and wide range of painting media. Emphasizes developing basic painting and critical analysis skills for responding to master paintings. Examines solutions to painting problems through the study of color theory and composition. Emphasizes the concept and development of personal style. Covers Western and non-Western cultures.

**Visual Arts/Sculpture I, II, III****1 Unit**

CIP #: 50.06110

CIP #: 50.06120

CIP #: 50.06130

Prerequisite: Visual Arts Comprehensive I

Credit Type: L1; Core or elective credit

Description: Introduces the design and production of relief sculpture and sculpture-in-the round. Emphasizes the historical origins and functions of sculpture in Western and non-Western cultures. Includes additive, subtractive, and modeling methods. Explores traditional and nontraditional materials for sculpted works and the work of both historical and contemporary sculptural artists.

**Printmaking I****1 Unit**

CIP #: 50.05110

Prerequisite: Visual Arts Comprehensive I

Credit Type: L1; Core or elective credit

Description: Introduces a variety of printmaking techniques using processes such as relief printing (monoprint, collograph, block), intaglio processes (etching, engraving) and serigraphy (silkscreen films, stencils, block-out). Investigates the historical development of printmaking in Western and non-Western cultures. Emphasizes design elements and principles and introduces art criticism approaches applied to fine art prints.

**Photography I – IV****1 Unit**

CIP #: 50.07110 (I)

CIP #: 50.07120 (II)

CIP #: 50.07130 (III)

CIP #: 50.07140 (IV)

Prerequisite: Visual Arts Comprehensive I; Courses must be taken in sequence

Credit Type: L1; Core or elective credit

Description: Covers the historical development of photography and photographic design and its cultural influences. Emphasizes the basics of exposing and processing photographs; introduces 35mm photography. Stresses appropriate processing techniques and safe uses of photographic materials and equipment, as well as personal expression of ideas and depth of exploration in selected photo techniques; explores photography and photographers for historical and critical appraisal.

**Visual Arts/Advanced Placement (AP) Studio: Drawing****1 Unit**

CIP #: 50.08110

Prerequisite: Visual Arts Comprehensive I; Teacher recommendation

Credit Type: L3; Core or elective credit

Description: Provides experiences using different drawing media and approaches; designed for the student interested in the practical experiences of art. Enrollment in AP includes the commitment to take the AP exam.

**Advanced Placement (AP) Studio Art: 2-D Design Portfolio****1 Unit**

CIP #: 50.08130

Prerequisite: Visual Arts Comprehensive I; Teacher recommendation

Credit Type: L3; Core or elective credit

Description: Addresses a broad interpretation of two-dimensional design issues, including how to use the elements of design, including line, shape, illusion of space, illusion of motion, pattern and texture, and value and color. The principles of design help guide artists in making decisions about how to organize the elements on a picture plane in order to communicate content. These principles include unity/variety, balance/emphasis/rhythm, and proportional /scale. Enrollment in AP includes the commitment to take the AP exam.

**Advanced Placement (AP) Studio Art: 3-D Design Portfolio****1 Unit**

CIP #: 50.08140

Prerequisite: Visual Arts Comprehensive I; Teacher recommendation

Credit Type: L3; Core or elective credit

Description: Addresses a broad interpretation of sculptural issues in depth and space, including mass, volume, form, plane, light, and texture. Such elements and concepts can be articulated through additive, subtractive, and/or fabrication processes. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio, including traditional sculpture, architectural models, apparel, ceramics, fiber arts, or metalwork. Enrollment in AP includes the commitment to take the AP exam.

**Advanced Placement (AP) Art History****1 Unit**

CIP #: 50.09210

Prerequisite: Visual Arts Comprehensive I; Teacher recommendation

Credit Type: L3; Core or elective credit

Description: Explores the nature of art, art making, and responses to art. By investigating specific course content of 250 works of art characterized by diverse artistic traditions from prehistory to the present, course fosters in-depth, holistic understanding of the history of art from a global perspective.

**International Baccalaureate (IB) Visual Arts, Year 1****1 Unit****International Baccalaureate (IB) Visual Arts, Year 2**

CIP #: 50.04400 (Year 1)

CIP #: 50.04500 (Year 2)

Prerequisite: Visual Arts Comprehensive I; Courses must be taken in sequence; Approval of the school IB coordinator

Credit Type: L3; Core or elective credit

Description: Study of the process, production, and analysis of visual arts in a holistic and individualistic manner; develops aesthetic, artistic and cultural knowledge of visual arts through the creative process of art production; students will be required to develop and express aesthetic judgments about works of art, understand the context within which the works were created, and investigate painting, sculpture, design, printmaking, photography and other related areas.

**Visual Arts Work-Based Learning (WBL) Placement****.5 to 4 Units****Visual Arts Work-Based Learning (WBL) Placement (Honors)**

CIP #: 50.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**PROFESSIONAL/CAREER PREPARATION****Mentorship I – IV (Honors)****.5 or 1 Unit**

CIP #: 70.01100 (I)

CIP #: 70.01200 (II)

CIP #: 70.01300 (III)

CIP #: 70.01400 (IV)

Prerequisite: Students must be in 11<sup>th</sup> or 12<sup>th</sup> grade and must apply (and be selected) to participate

Credit Type: L2; Elective credit

Description: Designed to meet the needs of academically able and highly motivated students, learning objectives are developed jointly by the student, community mentor, gifted program personnel and, as needed, department faculty and central office curriculum staff; the mentorship experience is designed to extend academic knowledge and skills in an area of interest in ways that are advanced well beyond the objectives typically taught at the high school level; a student contract is developed to include the specific learning goals and objectives, a plan for achieving the objectives, a proposal for a final project or product, a plan for professional presentation of the product, and the criteria by which the product will be evaluated.

**Directed Study I – IV (Honors)****1 Unit**

CIP #: 70.03100 (I)

CIP #: 70.03200 (II)

CIP #: 70.03300 (III)

CIP #: 70.03400 (IV)

Prerequisite: Approval of school's Gifted Coordinator

Credit Type: L2; Elective credit

Description: Allows gifted or other high-achieving students to learn academic content and skills at an advanced level; individualized learning objectives are developed jointly by the student, gifted program personnel, and high school faculty. The student develops a contract to include learning goals and objectives, a plan for achieving the objectives, and criteria by which the student's performance will be evaluated.

**Community Service Learning I – IV****1 Unit**

CIP #: 70.04100 (I)

CIP #: 70.04200 (II)

CIP #: 70.04300 (III)

CIP #: 70.04400 (IV)

Prerequisite: Recommendation of IEP team

Credit Type: L1; Elective credit

Description: This is a community-based class designed to meet the learning needs of students. The emphasis of these courses is on occupational preparedness, functional academics, daily living, communication, and personal-social skills.

**Library Science/Grades 9 - 12****1 Unit**

CIP #: 80.01000

Prerequisite: None

Credit Type: L1; Elective credit

Description: Introduction to the classification, location and use of media center resources and the utilization of instructional equipment. Library science and the information literacy skills are taught through media activities.

**HEALTH AND PHYSICAL EDUCATION****Health****.5 Unit**

CIP #: 17.01100

Prerequisite: None

Credit Type: L1; **Required for all students;** *available as E-course*

Description: Explores the mental, physical, and social aspects of life and how each contributes to total health and well-being; emphasizes safety, nutrition, mental health, substance abuse prevention, disease prevention, environmental health, family life education, consumer health, health careers and community health.

**Personal Fitness****.5 Unit****Advanced Personal Fitness**

CIP #: 36.05100 (Personal Fitness)

CIP #: 36.06100 (Advanced Personal Fitness)

Prerequisite: None

Credit Type: L1; **Required for all students;** *available as E-course*

Description: Focuses on developing a lifetime fitness program based on a personal fitness assessment and stresses strength, muscular endurance, flexibility, body composition and cardiovascular endurance. Includes fitness principles, nutrition, fad diets, weight control, stress management, adherence strategies and consumer information; promotes self-awareness and responsibility for fitness.

**Weight Training****.5 or 1 Unit****Weight Training (Advanced)**

CIP #: 36.05400

CIP #: 36.06400

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1; Elective credit only

Description: Introduces weight training; emphasizes strength development training and proper lifting techniques; includes fitness concepts for developing healthy lifetime habits. Advanced course increases strength and cardiovascular fitness through an individualized weight training program, emphasizing self-management and adherence strategies.

**Body Sculpting**

**.5 or 1 Unit**

**Body Sculpting (Advanced)**

CIP #: 36.05600

CIP #: 36.06600

Prerequisite: Courses must be taken in sequence

Credit Type: L1; Elective credit only

Description: Provides methods to redefine body shape through specific exercises. Covers weight training, conditioning exercises and proper nutrition to improve muscle tone, muscle definition, posture, bodily proportions, overall condition of the body and increase energy levels. Based on the American College of Medicine guidelines for fitness and conditioning programs.

**Physical Conditioning**

**.5 or 1 Unit**

**Physical Conditioning (Advanced)**

CIP #: 36.05200

CIP #: 36.06200

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1; Elective credit only

Description: Enhances flexibility, muscular strength and endurance, cardiovascular endurance and body composition. Includes fitness concepts for the development of healthy lifetime habits. Advanced course enhances cardiovascular endurance, flexibility, muscular strength and endurance and body composition; emphasizes self-management and adherence strategies.

**Exercise and Weight Control**

**.5 or 1 Unit**

**Exercise and Weight Control (Advanced)**

CIP #: 36.05500

CIP #: 36.06500

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1; Elective credit only

Description: Provides safe, effective and physiologically sound ways to manage weight and alter body composition and metabolism; includes consumer information on products, programs and fitness concepts for developing healthy lifetime habits. The advanced course provides self-management and adherence strategies to continue weight control through a safe and effective exercise program.

**Recreational Games (Introductory) .5 or 1 Unit**

**Recreational Games (Intermediate)**

**Recreational Games (Advanced)**

CIP #: 36.02700

CIP #: 36.03700

CIP #: 36.04700

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit T: L1; Elective credit only

Description: Introduces recreational games suitable for lifetime leisure activities, emphasizing the rules of each game and the skills necessary to play. Recreational games includes, but may not be limited to, volleyball, ultimate Frisbee, and kickball. Intermediate and Advanced courses enhance skills in Introductory course.

**Team Sports (Introductory)**

**.5 or 1 Unit**

**Team Sports (Intermediate)**

**Team Sports (Advanced)**

CIP #: 36.02100

CIP #: 36.03100

CIP #: 36.04100

Prerequisite: Courses must be taken in sequence; full unit must be earned before enrolling for the next course in the sequence

Credit Type: L1; Elective credit only

Description: Introduces fundamental skills, strategies, and rules associated with team sports including, but not limited to, football, basketball, and soccer; intermediate class emphasizes rules of each game and skills needed to play; advanced class provides opportunities to officiate.



Students are encouraged to pursue a pathway of career interest by completing a sequence of three or four courses in a specific area. Upon completion of the pathway, students will take an end-of-pathway assessment and could possibly earn a national industry certification, or a national/state occupational certification of their technical skill attainment.

AGRICULTURE, FOOD & NATURAL RESOURCES

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

**Agriculture Leadership in Animal Production (N)**

- Basic Agricultural Science
- Animal Science & Biotechnology
- Agribusiness Management & Leadership

**Agriculture Mechanics & Electrical Systems (L) +**

- Basic Agricultural Science
- Agricultural Mechanics Technology I
- Agriculture Electricity & Electric Controls

**Agriculture Mechanics Systems (L) +**

- Basic Agricultural Science
- Agricultural Mechanics Technology I
- Agricultural Mechanics Technology II

**Food Animal Systems (N)**

- Basic Agricultural Science
- Animal Science & Biotechnology
- Agricultural Animal Production & Management

**Forestry/Wildlife Systems (L)**

- Basic Agricultural Science
- Forest Science
- Wildlife Management

**Horticulture/Mechanical Systems (N)**

- Basic Agricultural Science
- General Horticulture and Plant Science
- Agricultural Mechanics Technology I

**Veterinary Science Pathway (E, N)**

- Basic Agricultural Science
- Animal Science & Biotechnology
- Veterinary Science

*Note: The third course of many pathways are rotated every other year.*

+ Receives a fourth CTAE+ academic credit upon completion of pathway (meets graduation requirement and TCSG admissions ONLY).

**Agriculture Leadership in Horticulture (N)**

- Basic Agricultural Science
- General Horticulture and Plant Science
- Agribusiness Management and Leadership

**Agriculture Mechanics/Metal Fabrication (L)**

- Basic Agricultural Science
- Agricultural Mechanics Technology I
- Agricultural Metals Fabrication

**Animal/Mechanical Systems (N)**

- Basic Agricultural Science
- Agricultural Mechanics Technology 1
- Agricultural Animal Production & Management

**Forest Mechanical Systems (L)**

- Basic Agricultural Science
- Agricultural Mechanics Technology I
- Forest Science

**Horticulture and Animal Science (E, N)**

- Basic Agricultural Science
- General Horticulture and Plant Science
- Animal Science and Biotechnology

**Poultry Science Pathway (E)**

- Basic Agricultural Science
- Poultry Science
- Avian Science & Biotechnology

**Basic Agricultural Science**

CIP #: 02.47100

Prerequisite: None

Credit Type: L1; Core or elective credit

**1 Unit**

Description: Introduces the major areas of scientific agricultural production and research; presents introductory skills, problem solving lessons, and knowledge in agricultural science and agri-related technologies. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.



**General Horticulture & Plant Science** **1 Unit**  
CIP #: 01.46100  
Prerequisite: Basic Agricultural Science recommended  
Credit Type: L1; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2008 and later and is recognized by the Board of Regents as such.**

Description: Introduces the major concepts of plant and horticulture science. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership program and activities.

**Animal Science & Biotechnology** **1 Unit**  
CIP #: 02.42100  
Prerequisite: Basic Agricultural Science recommended  
Credit Type: L1; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2008 and later and is recognized by the Board of Regents as such.**

Description: Introduces the scientific principles that underlie the breeding and husbandry of agricultural animals, and the production, processing, and distribution of agricultural animal products.

**Veterinary Science** **1 Unit**  
CIP #: 02.42400  
Prerequisite: Basic Agricultural Science recommended  
Credit Type: L1; Core or elective credit

Description: Covers the basics of animal care. Topics covered include disease, parasites, feeding, shelter, grooming, and general animal care.

**Agricultural Mechanics Technology I – II** **1 Unit**  
CIP #: 01.42100  
CIP #: 01.42200  
Prerequisite: Basic Agricultural Science recommended  
Credit Type: L1; Core or elective credit

Description: Introduces selected major areas of agricultural mechanics technology including small engine maintenance and repair, metal fabrication, concrete construction, building construction, plumbing, electrical wiring, maintenance of agricultural machinery, tractors, equipment, and soil and water conservation. Learning activities include skill development and problem-solving. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

**Agricultural Metals Fabrication** **1 Unit**  
CIP #: 01.42400  
Prerequisite: Basic Agricultural Science and Agricultural Mechanics Technology I recommended  
Credit Type: L1; Core or elective credit

Description: Designed to provide students with a more in-depth study of agricultural metal fabrication. Students interested in agricultural mechanics will have the opportunity to explore the many career possibilities in the field of agricultural metal fabrication. Additionally, hands-on-laboratory activities enhance the classroom learning experience and provide students with the skills needed to participate in Supervised Agricultural Experience Programs and FFA Career Development Events. *Course available only at Lanier College Career Academy (LCCA).*

**Agribusiness Management and Leadership** **1 Unit**  
CIP #: 01.41200  
Prerequisite: Basic Agricultural Science recommended  
Credit Type: L1; Core or elective credit

Description: Provides a foundation in the application of principles and practices of agribusiness management and leadership. Students will build a knowledge base of the industry as they study agribusiness types, business management, financial analysis, communications, agricultural law, leadership and teamwork, ethics, and agricultural economics.

**Agricultural Animal Production & Management** **1 Unit**  
CIP #: 01.43200  
Prerequisite: Basic Agricultural Science recommended  
Credit Type: L1; Core or elective credit

Description: Provides instruction in establishing and managing agricultural animal enterprises; includes breeding, feeding, caring for and marketing beef and dairy cattle, horses, swine, sheep, and poultry.

**Agriculture Electricity and Electric Controls**

**1 Unit**

CIP #: 01.42600

Prerequisite: Basic Agricultural Science recommended

Credit Type: L1; Core or elective credit

Description: Designed to provide students with introductory level experiences in selected major areas of agricultural mechanics technology associated with the design and installation of electric motor and non-motor load electrical circuits designed for use in agricultural structures, and agricultural industry applications. Topics covered include electrical terms and theory, branch and feeder circuit design and installation, service entrance equipment selection and installation, electric motors and motor controllers, switching devices including thermostats, proximity sensors, float switches, clock timers, relays, and similar devices. *Course available only at Lanier College Career Academy (LCCA).*

**Forest Science**

**1 Unit**

CIP #: 03.45100

Prerequisite: Basic Agricultural Science recommended

Credit Type: L1; Core or elective credit

Description: Introduces students to the principles of wildlife management and conservation and to opportunities for further education and careers in the field of wildlife biology. Course includes instruction in the history of wildlife management, ecological concepts, habitat assessment, population dynamics, predator-prey relationships, game and fish laws and regulations, hunter safety, etc. **Course meets fourth science requirement for students entering ninth grade in 2008 and later and is recognized by the Board of Regents as such.** *Course available only at Lanier College Career Academy (LCCA).*

**Wildlife Management**

**1 Unit**

CIP #: 03.45300

Prerequisite: Basic Agricultural Science recommended

Credit Type: L1; Core or elective credit

Description: Provides entry-level skills for employment in the forest industry and for further study. The course covers establishing forests by natural and artificial means, maintaining and surveying forests, identifying and protecting trees, practicing silviculture, measuring trees and land, mapping, preparing for timber sales and harvest, employing multiple-use resource management, keeping records, and figuring taxes. *Course available only at Lanier College Career Academy (LCCA).*

**Poultry Science**

**1 Unit**

CIP #: 02.46200

Prerequisite: Basic Agricultural Science recommended

Credit Type: L1; Core or elective credit

Description: Introduces students to the terminology and knowledge of modern poultry science and the commercial poultry industry, including anatomy and physiology, reproduction, genetics, nutrition, conventional and alternative housing/production methods, broiler-breeders, broilers, and commercial egg layers, health, processing, marketing, and more.

**Avian Science & Biotechnology**

**1 Unit**

CIP #: 02.46300

Prerequisite: Basic Agricultural Science recommended

Credit Type: L1; Core or elective credit

Description: Course investigates avian biotechnology and research while exploring avian anatomy physiology, embryonic development, health, and nutrition.

**Agriculture Work-Based Learning (WBL) Placement**

**.5 to 4 Units**

**Agriculture Work-Based Learning (WBL) Placement (Honors)**

CIP #: 01.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**Agriscience Work-Based Learning (WBL) Placement****.5 to 4 Units****Agriculture, Science & Technology Work-Based Learning (WBL) Placement (Honors)**

CIP #: 02.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**Natural Resources Work-Based Learning (WBL) Placement****.5 to 4 Units****Agriculture, Science & Technology Work-Based Learning (WBL) Placement (Honors)**

CIP #: 03.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**ARCHITECTURE & CONSTRUCTION**

Careers in designing, planning, managing, building and maintaining the built environment.

**Carpentry Pathway (C, J, W)**

- Industry Fund & Occupational Safety
- Introduction to Construction
- Carpentry I

**Electrical Pathway (C, W) +**

- Industry Fund & Occupational Safety
- Introduction to Construction
- Electrical I

**Heating, Vent, Air Conditioning & Refrigeration (L) +**

- Industry Fund & Occupational Safety
- Introduction to HVACR Systems
- Heating, Ventilation, Air Cond, & Refrigeration

**HVACR Electrical Pathway (L) +**

- Industry Fund & Occupational Safety
- Introduction to HVACR Systems
- Low Voltage Electrical

**Heavy Equipment Pathway (E)**

- Industry Fund & Occupational Safety
- Introduction to Heavy Equipment
- Heavy Equipment Operations I

**Masonry Pathway (J)**

- Industry Fund & Occupational Safety
- Introduction to Construction
- Masonry I

**Plumbing Pathway (J)**

- Industry Fund & Occupational Safety
- Introduction to Construction
- Plumbing I

+ Receives a fourth CTAE+ academic credit upon completion of pathway (meets graduation requirement and TCSG admissions ONLY).

**Industry Fundamentals & Occupational Safety****1 Unit**

CIP #: 46.54500

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Develops basic knowledge to function safely on or around a construction site and in the industry in general and is the foundational course that prepares students for a pursuit of any career in the fields of Carpentry, Plumbing, Electrical, Masonry, Machining, or Welding. Course includes: basic content of OSHA standards, construction math, hand and power tools used in the field, general blueprints and basics of rigging safety.

**Introduction to Construction****1 Unit**

CIP #: 46.54600

Prerequisite: Industry Fundamentals and Occupational Safety

Credit Type: L1; Core or elective credit

Description: Students will build on their knowledge and skills developed in Occupational Safety and will be introduced to the history and traditions of the carpentry, masonry, plumbing and electrical craft trades. Course will also include knowledge of the care and safe use of hand and power tools and the differentiation between blueprints as related to each individual craft area.

**Carpentry I****1 Unit**

CIP #: 46.55000

Prerequisite: Introduction to Construction

Credit Type: L1; Core or elective credit

Description: Provides an overview of the building materials used in the carpentry craft. It teaches techniques for reading and using blueprints and specifications especially as related to the carpentry craft. Includes specific knowledge and skills in site layout floor and wall framing systems. Also includes the basic industry terminology for a carpentry craftsman.

**Construction Internship****1 Unit**

CIP #: 46.54700

Prerequisite: Approval of Trades In Training Instructor

Credit Type: L1; Core or elective credit

Description: This course provides work-based learning experience on a job site. Students work under the supervision of an assigned company mentor who is an accomplished craft journeyman. Students have the opportunity to practice finished work and develop problem solving skills. Students practice adaptability to job equipment and technology and exhibit progressive productivity and acceptable job performance. *Trades In Training students only.*

**Electrical I****1 Unit**

CIP #: 46.56000

Prerequisite: Introduction to Construction

Credit Type: L1; Core or elective credit

Description: Builds on the concepts of electrical safety introduced in Occupational Safety; provides knowledge of the hardware and systems used by an electrical and the basic skills to install them. Also provides the knowledge and skills of: electrical systems, including series, parallel, and series-parallel circuits; the National Electrical Code; and conduit bending and installation.

**Introduction to Heavy Equipment****1 Unit**

CIP #: 46.59000

Prerequisite: Industry Fundamentals &amp; Occupational Safety

Credit Type: L1; Core or elective credit

Description: Introduces students to the history and traditions of the impact heavy equipment has had on construction and infrastructure projects.

**Heavy Equipment Operations I****1 Unit**

CIP #: 46.59100

Prerequisite: Industry Fundamentals &amp; Occupational Safety

Credit Type: L1; Core or elective credit

Description: Students will focus and build on the concepts related to earthmoving, as well as, reading and using blueprints and specifications related to grading and grade calculations.

**Masonry I****1 Unit**

CIP #: 46.57000

Prerequisite: Introduction to Construction

Credit Type: L1; Core or elective credit

Description: Provides students with a solid foundation in masonry skills and knowledge and is the third step in gaining a Level One Industry Certification in Masonry.

**Plumbing I****1 Unit**

CIP #: 46.58000

Prerequisite: Introduction to Construction

Credit Type: L1; Core or elective credit

Description: Provides the basic knowledge needed to apply safety concepts and practices related to the plumbing trade; includes use of plumbing tools and materials, application of plumbing codes, skills needed to handle, estimate and store materials, and interpreting architectural and construction working drawings.

**Introduction to HVACR Systems****1 Unit**

CIP #: 47.41400

Prerequisite: Industry Fundamentals and Occupational Safety

Credit Type: L1; Core or elective credit

Description: Students will be introduced to two-construction craft areas. The goal of the course is to introduce students to the basic building blocks of the HVACR and Low Voltage Electrical craft trades. Students will explore how the crafts affect the mechanical systems in a building and will learn and apply knowledge of the electrical, electronic, and mechanical components related to each trade. In addition, students will be introduced to, and develop skills to differentiate between tools used in each individual craft area. *Course available only at Lanier College Career Academy (LCCA).*

**Heating, Ventilation, Air-Conditioning Refrigeration****1 Unit**

CIP #: 47.41500

Prerequisite: Introduction to HVACR Systems

Credit Type: L1; Core or elective credit

Description: This course is preceded by Introduction to HVACR Systems and provides students with a solid foundation in HVACR skills and knowledge involved with conditioning air within a given space. Students will acquire knowledge of the hardware and systems used by an HVACR technician and basic installation skills. In addition, students will obtain general knowledge of refrigeration and heating processes, including electronic circuitry, and will learn about the integration between electrical and HVACR fields. The course will provide students with an understanding of joining and piping practices in HVACR systems, as well as an introduction to the skills and knowledge of conduit bending and installation. *Course available only at Lanier College Career Academy (LCCA).*

**Low Voltage Electrical****1 Unit**

CIP #: 47.416

Prerequisite: Introduction to HVACR Systems

Credit Type: L1; Core or elective credit

Description: Provides students with a solid foundation in electrical skills and knowledge and the integration with the HVACR systems. Students will learn about installation of hardware and systems used by an HVACR technician/electrician and acquire general knowledge of electrical systems, including series, parallel, and series-parallel circuits. *Course available only at Lanier College Career Academy (LCCA).*

**Construction Technology Work-Based Learning (WBL) Placement****.5 to 4 Units****Construction Technology Work-Based Learning (WBL) Placement (Honors)**

CIP #: 46.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**HVAC/Transportation Work-Based Learning (WBL) Placement .5 to 4 Units****HVAC/Transportation Work-Based Learning (WBL) Placement (Honors)**

CIP #: 47.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

## ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism and entertainment services.

### **Animation and Digital Media (CB)**

- Introduction to Digital Media
- Principles and Concepts of Animation
- Advanced Animation, Game and APP Design

### **Audio-Video Technology & Film II (C, J, W) +**

- Audio-Video Technology Film I
- Audio-Video Technology Film II
- Broadcast Video Applications <sup>H</sup>

### **Graphic Design Pathway <sup>H</sup> (C, E, F, J, N, W)**

- Introduction to Graphics and Design
- Graphic Design and Production
- Advanced Graphic Design

### **Audio-Video Technology & Film I (C, J, W) +**

- Audio-Video Technology Film I
- Audio-Video Technology Film II
- Audio-Video Technology Film III <sup>H</sup>

### **Graphic Communication Pathway <sup>H</sup> (E, F, J, W) +**

- Introduction to Graphics and Design
- Graphic Design and Production
- Advanced Graphic Output Processes

+ Receives a fourth CTAE+ academic credit upon completion of pathway (meets graduation requirement and TCSG admissions ONLY).

### **Audio-Video Technology Film I**

CIP #: 10.51810

Prerequisite: None

Credit Type: L1; Core or elective credit

**1 Unit**

Description: The foundational course in the Audio & Video Technology & Film Pathway which helps prepares students for employment or entry into a postsecondary education program in the audio and video technology career field. Topics covered include: terminology, safety, basic equipment, script writing, production teams, production and programming, lighting, recording and editing, studio production, and professional ethics.

### **Audio-Video Technology and Film II**

CIP #: 10.51910

Prerequisite: Audio-Video Technology Film I

Credit Type: L1; Core or elective credit

**1 Unit**

Description: 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.

### **Audio-Video Technology and Film III**

#### **Audio-Video Technology and Film III (Honors)**

CIP #: 10.52010

Prerequisite: Audio-Video Technology and Film II

Credit Type: L1; Core or elective credit

**1 Unit**

Description: This one-credit transition course is designed to facilitate student-led projects under the guidance of the instructor. Students work cooperatively and independently in all phases of production.

### **Broadcast Video Applications**

#### **Broadcast Video Applications (Honors)**

CIP #: 10.51410

Prerequisite: Audio-Video Technology Film II

Credit Type: L1; Core or elective credit

**1 Unit**

Description: Designed to facilitate student-led projects under the guidance of the instructor, as well as provide opportunities for students to master skills necessary to gain entry level employment or to pursue a post-secondary degree or certificate. Students work cooperatively and independently in all phases of production. Topics include advanced camera techniques, audio production, scriptwriting, producing, directing, editing, employability skills, and development of a digital portfolio to include resume', references, and production samples.

**Introduction to Graphics and Design** **1 Unit**  
**Introduction to Graphics and Design (Honors)**  
CIP #: 48.56100  
Prerequisite: None; Teacher recommendation for honors  
Credit Type: L1 or L2; Core or elective credit

Description: Introduces students to graphic communications; includes an introduction to a graphic arts career field, digital file preparation, press operations, measurement, safety & first aid, and math for printing.

**Graphic Design and Production** **1 Unit**  
**Graphic Design and Production (Honors)**  
CIP #: 48.56200  
Prerequisite: Introduction to Graphics and Design; Teacher recommendation for honors  
Credit Type: L1 or L2; Core or elective credit

Description: Focuses on the procedures commonly used in the graphic communication and design industries. Experience in creative problem solving and the practical implementation of solutions across multiple areas of graphic communications will be gained.

**Advanced Graphic Output Processes** **1 Unit**  
**Advanced Graphic Output Processes (Honors)**  
CIP #: 48.57000  
Prerequisite: Graphic Design and Production  
Credit Type: L1 or L2; Core or elective credit

Description: Learn to manage the output and completion process as a whole including customer relations management, printing, finishing, and binding.

**Advanced Graphic Design** **1 Unit**  
**Advanced Graphic Design (Honors)**  
CIP #: 48.528  
Prerequisite: Graphic Design and Production  
Credit Type: L1 or L2; Core or elective credit

Description: Continue to explore the principles of design and layout procedures as they relate to graphic design. Focuses on electronic systems and software programs used in graphic design, page composition, image conversion, and digital printing.

**Introduction to Digital Media** **1 Unit**  
CIP #: 48.42100  
Prerequisite: None  
Credit Type: L1; Core or elective credit

Description: Students in the Introduction of Digital Media course will learn the basic components of 2-D and 3D animation development from storyboarding elements to fundamental software capabilities. The course serves as an introduction to the animation history, keyboarding shortcuts, project filing, and career awareness. Instruction in this course focuses on storyboard creation, the physics and anatomy of motion, technology of animation, properties and use of color, cameras and lighting, fundamentals of modeling and animating, creating a portfolio and file management. This course provides a structure for digital literacy as well as development of technical knowledge and intellectual skills for analytical thinking; in addition, students will work productively and responsibly in individual and collaborative settings.

**Principles and Concepts of Animation** **1 Unit**  
CIP #: 48.42200  
Prerequisite: Introduction to Digital Media  
Credit Type: L1; Core or elective credit

Description: Students will continue to develop and implement aesthetics of color selection, storyboarding in 2-D digital animation, and develop animatic creations from 2-D to 3-D. Students will learn interface tools, the use of drawing tools, animating the camera, importing images from web sources and files, working with sound and lip syncing, understanding paths and motion design, and frame by frame animation creation relative to sequence planning and pacing. Course will allow students to explore more advanced aspects of character animation including subtle character gesture and advanced action timing with emphasis on personal observation. The course will allow students to develop an understanding of basic sound considerations such as lip syncing, voice-overs, and the synchronization of sound with the visual product. It will also allow students to build on previously learned storyboarding skills, develop scripts, determine character motivations, consider setting and motion variables, and learn other unique traits of animation through integrated activities.

**Advanced Animation: Game and APP Design****1 Unit**

CIP #: 48.42300

Prerequisite: Principles and Concepts of Animation

Credit Type: L1; Core or elective credit

Description: Students will continue working in 2-D and 3-D environments by importing 3-D models while working in 3-D space morphing, and inverse kinematics. While learning the basics of Game and APP design, the students will acquire knowledge of human and animal animations, apply the aesthetic and technical aspects of animation of characters, and analyze the physics and physicalization of action, weight, and timing. The course advances students' knowledge of sound integration into animated products; by focusing on skills that include lip-syncing, voice overs, and synchronization. Portfolio development will include animation reels and other products. Students will learn the processes of post-production and will work both independently and in small production teams to manage the production pipeline for a 3-D project. In the final phases of the project completion, students will work collaboratively to meet deadlines and will be expected to produce an animated final project that reflects competency with editing, rendering, updating reel, and self-promotional support items.

**Arts, A/V Technology & Communications Work-Based Learning (WBL) Placement****.5 to 4 Units****Arts, A/V Technology & Communications Work-Based Learning (WBL) Placement (Honors)**

CIP #: 10.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**Precision Production Occupations Work-Based Learning (WBL) Placement****.5 to 4 Units****Precision Production Occupations Work-Based Learning (WBL) Placement (Honors)**

CIP #: 48.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**BUSINESS, MANAGEMENT & ADMINISTRATION**

Careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

**Business & Technology Pathway (E, J) +**

- Introduction to Business & Technology
- Business and Technology
- Business Communications

**Entrepreneurship Pathway (E)**

- Introduction to Business & Technology
- Legal Environment of Business
- Entrepreneurship

+ Receives a fourth CTAE+ academic credit upon completion of pathway (meets graduation requirement and TCSG admissions ONLY).

**Introduction to Business & Technology****1 Unit**

CIP #: 07.4413

Prerequisite: None

Credit Type: L1 or L2; Core or elective credit

Description: 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. Students should be prepared to earn an industry recognized credential: Microsoft Office Specialist for Word Core Certification.

**Business and Technology****1 Unit**

CIP #: 07.44100

Prerequisite: Introduction to Business &amp; Technology

Credit Type: L1; Core or elective credit



Description: Provides students with opportunities to enhance their knowledge and skills to be an asset to the collaborative, global and innovative business world of today and tomorrow. Mastery use of spreadsheets, publishing industry appropriate documents, and the ability to apply leadership skills to make informed business decisions will be a highlight of the course.

**Business Communications**

**1 Unit**

CIP #: 07.45100

Prerequisite: Intro to Business & Technology recommended

Credit Type: L1; Core or elective credit

Description: The digital presence and impact of written and visual communication in a technological society will be addressed. Students will create, edit, and publish professional-appearing business documents with clear and concise communication. Creative design, persuasive personal and professional communications will be applied through research, evaluation, validation, written, and oral communication. Leadership development and teamwork skills will be stressed as students work independently and collaboratively. Presentation skills will be developed and modeled for students master presentation software in this course.

**Legal Environment of Business**

**1 Unit**

CIP #: 06.4150

Prerequisite: None

Credit Type: L1 or L2; Core or elective credit

Description: Concentrates on the legal aspects of business ownership and management. Legal issues will include contracts, sales, consumer law, agency and employment law, personal and real property, risk management, environmental law, and government effects on business. The impact of ethics on business operations and international business principles will also be studied.

**Entrepreneurship**

**1 Unit**

CIP #: 06.416

Prerequisite: Intro to Business & Technology; and/or teacher recommendation

Credit Type: L1 or L2; Core or elective credit

Description: How do you turn an idea into a business? Course focuses on recognizing a business opportunity, starting a business, operating and maintaining a business. Students will be exposed to the development of critical thinking, problem solving, and innovation as they will be a business owner or individuals working in a competitive job market in the future. Integration of accounting, finance, marketing, business management, legal and economic environments will be developed throughout projects.

**Business Management Work-Based Learning (WBL) Placement**

**.5 to 4 Units**

**Business Management Work-Based Learning (WBL) Placement (Honors)**

CIP #: 06.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**Business Computer Science Work-Based Learning (WBL) Placement**

**.5 to 4 Units**

**Business Computer Science Work-Based Learning (WBL) Placement (Honors)**

CIP #: 07.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

## EDUCATION & TRAINING

Planning, managing and providing education and training services, and related learning support services such as administration, teaching/training, administrative support, and professional support services.

### **Early Childhood Care & Education Pathway\* (F, J)**

- Early Childhood Education I
- Early Childhood Education II
- Early Childhood Education III

### **Teaching As A Profession Pathway<sup>H</sup> (C, CB, E, F, N, VP, W)**

- Examining the Teaching Profession
- Contemporary Issues in Education
- Teaching as a Profession Practicum

*\* Beginning in school year 2017-18, students will earn one unit of credit in Food for Life with successful completion of all three courses in the Early Childhood Care & Education Pathway. All three courses must be completed while enrolled in the Hall County School District. A grade of "P" (Pass) will be awarded.*

### **Examining the Teaching Profession**

**1 Unit**

#### **Examining the Teaching Profession (Honors)**

CIP #: 13.011

Prerequisite: Must be in grades 10-12

Credit Type: L2; Elective credit; course may be blocked for two periods in a semester

Description: Foundational course under the Teaching as a Profession pathway and prepares students for future positions in the field of education. Students study, apply, and practice the use of current technologies, effective teaching and learning strategies, the creation of an effective learning environment, the creation of instructional opportunities for diverse learners and students with special needs, and plan instruction based on knowledge of subject matter, students, community, and curriculum performance standards.

### **Contemporary Issues in Education**

**1 Unit**

#### **Contemporary Issues in Education (Honors)**

CIP #: 13.012

Prerequisite: Examining the Teaching Profession

Credit Type: L2; Elective credit; course may be blocked for two periods in a semester

Description: Engages the candidate in observations, interactions, and analyses of critical and contemporary educational issues. The candidate will investigate issues influencing the social and political contexts of educational settings in Georgia and the United States and actively examine the teaching profession from multiple vantage points both within and outside of the school.

### **Teaching as a Profession Practicum**

**1 Unit**

#### **Teaching as a Profession Practicum (Honors)**

CIP #: 13.01300

Prerequisite: Examining the Teaching Profession or approval of WBL Coordinator

Credit Type: L2; Elective credit; course may be blocked for two periods in a semester

Description: Field experience under the direct supervision of a certified mentor teacher; stresses observing, analyzing, & classifying activities of the mentor teacher; plan & teach a lesson(s), understand and practice confidentiality as it pertains to the teaching profession, maintain the safety of the students & practice professionalism and ethical behavior. Candidate intern will develop a portfolio.

### **Early Childhood Education I**

**1 Unit**

CIP #: 20.5281

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: The foundational course in the Early Childhood pathway and addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children.

### **Early Childhood Education II**

**1 Unit**

CIP #: 20.42400

Prerequisite: Early Childhood Education I

Credit Type: L1; Core or elective credit

Description: Provides a history of education, licensing and accreditation requirements, and foundations of basic observation practices and applications. Early childhood care, education, and development issues are also addressed and include health, safety, and nutrition education; certification in CPR/First Aid/Fire Safety; information about child abuse and neglect; symptoms and prevention of major childhood illnesses and diseases; and prevention and control of communicable illnesses.

**Early Childhood Education III****1 Unit**

CIP #: 20.42500

Prerequisite: Early Childhood Education II

Credit Type: L1; Core or elective credit

Description: The course provides in-depth study of early brain development and its implications for early learning, appropriate technology integration, and developmentally appropriate parenting and child guidance trends. Also addressed are collaborative parent/teacher/child relationships and guidance, child directed play, the changing dynamics of family culture and diversity, the causes and effects of stress on young children, and infant nutrition.

**Education & Training Work-Based Learning (WBL) Placement****.5 to 4 Units****Education & Training Work-Based Learning (WBL) Placement (Honors)**

CIP #: 13.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**Early Childhood/Culinary Work-Based Learning (WBL) Placement****.5 to 4 Units****Early Childhood/Culinary Work-Based Learning (WBL) Placement (Honors)**

CIP #: 20.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**FINANCE**

Planning and related services for financial and investment planning, banking, insurance, and business financial management.

**Financial Services Pathway (E)**

- Introduction to Business & Technology
- Financial Literacy
- Banking, Investing, and Insurance

**Introduction to Business & Technology****1 Unit**

CIP #: 07.4413

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: 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. Students should be prepared to earn an industry recognized credential: Microsoft Office Specialist for Word Core Certification.

**Financial Literacy****.5 or 1 Unit**

CIP #: 07.42600

Prerequisite: Introduction to Business &amp; Technology recommended

Credit Type: L1; Core or elective credit

Description: Understand the importance of the financial world, including planning and managing money wisely. Areas of study: 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.

**Banking, Investing, and Insurance****.5 or 1 Unit**

CIP #: 07.431

Prerequisite: Introduction to Business &amp; Technology

Credit Type: L1; Core or elective credit

Description: Explore the financial world as students dive into the main areas of financial services, including banking, investing, and insurance. Basics of banking and credit include a brief history of money and banking, negotiable instruments, creation of credit, and the function of banks.

**Business Computer Science Work-Based Learning (WBL) Placement****.5 to 4 Units****Business Computer Science Work-Based Learning (WBL) Placement (Honors)**

CIP #: 07.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**GOVERNMENT AND PUBLIC ADMINISTRATION**

Planning and executing government functions at the local, state and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations.

**JROTC Naval Science Pathway (E)**

- Cadet Field Manual
- Introduction to NJROTC
- Maritime History

**Public Management and Administration Pathway (L)**

- Introduction to Government and Public Administration
- Government Public Administration: State and Federal Issues
- Government Public Administration: Local and State Issues

**Introduction to Government and Public Administration****1 Unit****Introduction to Government and Public Administration (Honors)**

CIP #: 29.41000

Prerequisite: None

Credit Type: L1 or L2; Core or elective credit; **beginning in 2022-23, students who earn 1 unit of credit for this course may also receive 1 unit of credit for American Government/Civics, CIP #: 45.05700 earning the same grade for both courses**

Description: Foundational course for the Public Management and Administration Pathway and introduces students to the introductory knowledge and technical skills of working in public service and serving the general public in a government or public administration career. Topics will include identifying personal strengths and weaknesses and include oral and written communication skills, critical thinking for problem solving, developing leadership and teamwork skills, employability skills, and technical skills for this career cluster.

**Government Public Administration: State and Federal Issues****1 Unit****Government Public Administration: State and Federal Issues (Honors)**

CIP #: 29.41100

Prerequisite: None

Credit Type: L1 or L2; Core or elective credit; **beginning in 2022-23, students who earn 1 unit of credit for this course may also receive 1 unit of credit for Introduction to U.S. Intelligence and National Security Studies, CIP #: 45.06000 earning the same grade for both courses**

Description: This course will look at the roles of the state and federal governments, state agencies, and public administrations to support and sustain services and resources. Topics will include the role of government in providing services for the U.S. population; the impact the U.S. will have on other nations and in turn their impact on the United States. The professional traits required of those working in this field to be prepared for safety, health, environmental, as well as creating publicity materials, public relations and working with media.

**Government Public Administration: Local and State Issues****1 Unit****Government Public Administration: Local and State Issues (Honors)**

CIP #: 29.41200

Prerequisite: None

Credit Type: L1 or L2; Core or elective credit; **beginning in 2022-23, students who earn 1 unit of credit for this course may also receive 1 unit of credit for Personal Finance and Economics, CIP #: 45.06100 earning the same grade for both courses**

Description: This course applies the skills needed in government and public administration professions, including the application of leadership and teamwork within the classroom. Topics may include working within budgets, negotiation/communication with co-workers, developing proposals, making oral presentations and appropriate responses to workplace situations based on legal and ethical considerations. Students will complete an independent research project that applies to a government and public administration career. Students will be required to make a written and oral presentation at the end of the course summarizing their research project and submit an updated career portfolio.

**Naval Science**

**1 Unit**

- CIP #: 28.02100 (Cadet Field Manual)
- CIP #: 28.02200 (Introduction to NJROTC)
- CIP #: 28.02300 (Maritime History)
- CIP #: 28.02400 (Nautical Science)
- CIP #: 28.02500 (Naval Knowledge)
- CIP #: 28.02600 (Naval Orientation & Skills)
- CIP #: 28.02700 (Naval Leadership & Ethics)
- CIP #: 28.02800 (Effective Communications)

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Cadet Field Manual combines information about military drill & ceremonies, uniform regulations, physical fitness, survival, leadership, & communications, and helps the student understand the mission, goals, and opportunities for the program. Introduction to NJROTC focuses on the understanding of our nation, our values, traditions, heritage, respect for our laws, and becoming responsible citizens. Maritime History further develops the traits of citizenship & leadership in students; introduces cadets to the maritime history of the world & the United States from the American Revolution through the present time. Nautical Science introduces the various nautical sciences. Naval Knowledge expounds upon the virtues of the United States citizenship with knowledge of the world's waterways through the viewpoint of National power & International law. Naval Orientation & Skills furthers the foundation in citizenship and leadership and provides application in Naval & Ship Organization. Naval Leadership & Ethics take a more in-depth look at how to maximize leadership abilities. Effective Communications focuses on the most important skills that a good leader must develop in order to be successful.

**Public Management and Administration (WBL) Placement**

**.5 to 4 Units**

**Public Management and Administration Work-Based Learning (WBL) Placement (Honors)**

CIP #: 29.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**JROTC (WBL) Placement**

**.5 to 4 Units**

**JROTC Work-Based Learning (WBL) Placement (Honors)**

CIP #: 28.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

## HEALTH SCIENCE

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

### **Biotechnology Research & Development<sup>H</sup> (N)**

- Introduction to Healthcare Science
- Essentials of Biotechnology
- Applications of Biotechnology

### **Therapeutic Serv-Allied Health & Medicine<sup>H</sup> (C, E, F, J, N, VP, W)**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Allied Health & Medicine

### **Therapeutic Services-Exercise Physiology<sup>H</sup> (C, CB)**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Fundamentals of Exercise Physiology

### **Therapeutic Services-Health Informatics/Medical Office (C, W)**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Health Information Management/Medical Office

### **Therapeutic Services-Pharmacy<sup>H</sup> (VP)**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Pharmacy Operations & Fundamentals

### **Therapeutic Services-Sports Medicine<sup>H</sup> (C, CB, N)**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Sports Medicine

### **Diagnostics/Phlebotomy<sup>H</sup> (F, W)**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Diagnostics/Phlebotomy

### **Therapeutic Serv-Emergency Med Responder<sup>H</sup> (C, F, J, N, W)**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Emergency Medical Responder

### **Therapeutic Serv-Mental Health Professional (CB, E, VP)**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Patient Care Fundamentals

### **Therapeutic Services-Patient Care (C, E, J)**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Patient Care Fundamentals

### **Therapeutic Services-Public Health (VP)**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Applications of Public Health

### **Therapeutic Services-Surgical Technology<sup>H</sup> (CB)**

- Introduction to Healthcare Science
- Essentials of Healthcare
- Surgical Technician I

*Note: The third course of many pathways are rotated every other year.*

### **Introduction to Healthcare Science**

#### **Introduction to Healthcare Science (Honors)**

CIP #: 25.521

Prerequisite: None

Credit Type: L1 or L2; Core or elective credit

**1 Unit**

Description: The foundational course for all Health Science pathways. 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, basic life support and first aid.

### **Essentials of Healthcare**

#### **Essentials of Healthcare (Honors)**

CIP #: 25.44000

Prerequisite: Introduction to Healthcare Science

Credit Type: L1 or L2; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2008 and later and is recognized by the Board of Regents as such; beginning in 2015, students who earn 1 unit of credit for this course will also receive 1 unit of credit for Human Anatomy and Physiology, CIP #: 26.07300 earning the same grade for both courses**

**1 Unit**

Description: Anatomy and Physiology is a vital part of most healthcare post-secondary education programs. The Essentials of Healthcare 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.

**Patient Care Fundamentals****1 Unit**

CIP #: 25.43600

Prerequisite: Introduction to Healthcare Science &amp; Essentials of Healthcare

Credit Type: L1; Core or elective credit

Description: Designed to provide students interested in the careers that involve patient care with entry level skills most commonly associated with the career Nursing Assistant.

**Emergency Medical Responder****1 Unit****Emergency Medical Responder (Honors)**

CIP #: 25.45000

Prerequisite: Introduction to Healthcare Science

Credit Type: L1; Core or elective credit

Description: Prepares the student to provide initial stabilizing care to the sick or injured prior to the arrival of Emergency Medical Services Professionals (EMS), and to assist EMS personnel in transporting patients for definitive care at an appropriate hospital/facility. Major areas of instruction include Introductory Medical Terminology and Anatomy & Physiology; Responder Safety; Incident Command; Blood-borne Pathogen Training; Basic Physical Assessment; and Treatment of Trauma and Medical Emergencies; Cardiopulmonary Resuscitation and the use of Automatic External Defibrillators (AEDs).

**Allied Health and Medicine****1 Unit****Allied Health and Medicine (Honors)**

CIP #: 25.43700

Prerequisite: Essentials of Healthcare

Credit Type: L1 or L2; Core or elective credit

Description: This course is designed to offer students (preferably upper classmen - juniors or seniors) the opportunity to become effective and efficient multi-skilled healthcare providers as they develop a working knowledge of various allied health opportunities.

**Mental Health Professional 1 Unit**

CIP #: 25.47000

Prerequisite: Introduction to Healthcare Science

Credit Type: L1; Core or elective credit.

Description: The course is focused on emotional, mental, and behavioral health and wellness. While learning about diverse mental health needs, students will gain knowledge about techniques used in recognizing, preventing, supporting, and treating various behavioral and mental health disorders.

**Sports Medicine****1 Unit****Sports Medicine (Honors)**

CIP #: 25.44600

Prerequisite: Introduction to Healthcare Science

Credit Type: L1 or L2; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2008 and later and is recognized by the Board of Regents as such**

Description: 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. The concepts of anatomy and physiology, assessment, preventative and rehabilitative care are introduced.

**Pharmacy Operations & Fundamentals****1 Unit****Pharmacy Operations & Fundamentals (Honors)**

CIP #: 25.45300

Prerequisite: Introduction to Healthcare Science

Credit Type: L1; Core or elective credit

Description: The course is an introduction to pharmacy technology professions, employment opportunities, and basic pre-pharmacy technician skills which may be utilized in either clinical or community settings such as retail, home health care, and ambulatory care pharmacies.

**Fundamentals of Exercise Physiology** **1 Unit**  
**Fundamentals of Exercise Physiology (Honors)**  
CIP #: 25.45400  
Prerequisite: Introduction to Healthcare Science  
Credit Type: L1; Core or elective credit

Description: Course is appropriate for students wishing to pursue a career in personal training or for those who desire an introduction in the field of exercise physiology and will enable students to perform fitness assessments, according to current guidelines, and to use data to develop exercise and training routines, fitness plans, and nutritional programs to fit the needs of clients. The concepts of human kinesiology will be evaluated and fundamental skills of goal setting, record keeping, and instruction techniques will be covered in the course.

**Essentials of Biotechnology** **1 Unit**  
**Essentials of Biotechnology (Honors)**  
CIP #: 25.570  
Prerequisite: None  
Credit Type: L1 or L2; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2008 and later and is recognized by the Board of Regents as such**

Description: Introduces students to the broad understanding of the fundamentals of biotechnology and the impact on society. The knowledge and skills in this course provides a basic overview of current trends and careers in biotechnology, with an emphasis on basic laboratory skills, along with the business, regulatory, and ethical aspects of biotechnology.

**Applications of Biotechnology** **1 Unit**  
**Applications of Biotechnology (Honors)**  
CIP #: 25.569  
Prerequisite: None  
Credit Type: L1 or L2; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2008 and later and is recognized by the Board of Regents as such**

Description: Course further introduces students to the fundamentals of biotechnology. Included in this course are additional applications and techniques in biotechnology that expand and increase the student's comprehension of how biotechnology utilizes living systems to create products and enhance lives. In addition, laboratory applications learned in this course form the pivotal component distinguishing science theory from application in bioscience, like that of engineering and mathematics. Bioscience and the application of laboratory technique to the manipulation of living systems is a cornerstone of pharmaceutical, medical device, forensic science, environmental science, agriculture, alternative fuel, and green chemistry.

**Diagnostics Phlebotomy** **1 Unit**  
**Diagnostics Phlebotomy (Honors)**  
CIP #: 25.57400  
Prerequisite: Introduction to Healthcare Science; Essentials of Healthcare  
Credit Type: L1; Core or elective credit

Description: Course is designed to help students become prepared for the phlebotomy technician certification exam, upon completion of all required components. Topics covered in this course include employability skills, careers, terminology and equipment, safety and compliance, quality assurance, site-specific anatomy, patient preparation for venipuncture, performing of venipuncture, and special processing and transport. During this course, simulated venipuncture may be performed.

**Surgical Technician** **1 Unit**  
**Surgical Technician (Honors)**  
CIP #: 25.44700  
Prerequisite: Introduction to Healthcare Science; Essentials of Healthcare  
Credit Type: L1; Core or elective credit

Description: Provide fundamental surgical technician skills and knowledge to include the knowledge, skills, and attitudes necessary to succeed in the Surgical Technology profession; including safety, infection control, pharmacology, surgical equipment, perioperative procedures, instruments, and sterilization. Students will have the opportunity to explore careers in the operating room and the education required at each level.

**Applications of Public Health** **1 Unit**  
CIP #: 25.452  
Prerequisite: Introduction to Healthcare Science  
Credit Type: L1; Core or elective credit



Description: The standards for the Public and Community Health pathway apply to occupations or functions involved primarily in environmental health, community health and health education, epidemiology, disaster management, and geriatrics. The standards specify the knowledge and skills needed by professionals pursuing careers in this pathway. Sample occupations associated with this pathway are Community Health Worker, Community Health Worker, Epidemiologist, Health Educator, Advocate, and Environmentalist.

**Health Information Management/Medical Office**

**1 Unit**

CIP #: 25.49700

Prerequisite: Introduction to Healthcare Science & Essentials of Healthcare

Credit Type: L1; Core or elective credit

Description: Designed to orient the student to health information management and working in a medical office. Topics include introducing students to skills and knowledge utilized in a medical office, the structure of healthcare in the United States, healthcare providers, and the structure and function of professional organizations.

**Health Science Technology Work-Based Learning (WBL) Placement**

**.5 to 4 Units**

**Health Science Technology Work-Based Learning (WBL) Placement (Honors)**

CIP #: 25.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**HOSPITALITY AND TOURISM**

Preparing individuals for employment in career pathways that relate to families and human needs such as restaurant and food/beverage services, lodging, travel and tourism, recreation, amusement and attractions.

**Baking & Pastry (L)**

- Introduction to Culinary Arts
- Baking & Pastry I
- Baking & Pastry II

**Culinary Arts Pathway\* (L)**

- Introduction to Culinary Arts
- Culinary Arts I
- Culinary Arts II

**Hospitality, Recreation & Tourism Pathway (L, VP)**

- Marketing Principles
- Hospitality, Recreation & Tourism Essentials <sup>H</sup>
- Hospitality, Recreation/Tourism Management <sup>H</sup>

*\* Beginning in school year 2017-18, students will earn one unit of credit in Food Science with successful completion of all three courses in the Culinary Arts Pathway. All three courses must be completed while enrolled in the Hall County School District. A grade of "P" (Pass) will be awarded.*

**Marketing Principles**

**1 Unit**

CIP #: 08.47400

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: The foundational course for Marketing pathways and addresses all the ways in which marketing satisfies consumer and business needs and wants for products and services. Students develop a basic understanding of Employability, Foundational and Business Administration skills, Economics, Entrepreneurship, Financial Analysis, Human Resources Management, Information Management, Marketing, Operations, Professional Development, Strategic Management, and Global Marketing strategies.

**Hospitality, Recreation & Tourism Essentials**

**1 Unit**

**Hospitality, Recreation & Tourism Essentials (Honors)**

CIP #: 08.45300

Prerequisite: None; Honors requires recommendation of Hospitality teacher

Credit Type: L1; Core or elective credit

Description: Focuses on the basics of marketing and business in relation to the hospitality, recreation, and tourism industry in the U.S. and abroad. Students will study destination geography, world economies, and historical timelines related to major segments of the hospitality industry and will determine how the lodging industry uses marketing to achieve goals. The vital roles of group, convention and meeting planning, human relations, communications and ethics will be discussed along with the recreation industry segment. *Course available only at Lanier College Career Academy (LCCA).*

**Hospitality, Recreation & Tourism Management**

**1 Unit**

**Hospitality, Recreation & Tourism Management (Honors)**

CIP #: 08.45400

Prerequisite: Hospitality, Recreation & Tourism Essentials; Honors requires recommendation of Hospitality teacher

Credit Type: L1 or L2; Core or elective credit

Description: Analyze operations, control systems, management structures, service levels, cost effective operations and related technology in the hospitality industry. Demonstrate skills in handling legal and liability issues and human resources functions and develop an innate understanding that exemplary customer service skills define success in the industry. *Course available only at Lanier College Career Academy (LCCA).*

**Marketing Research (Marketing Applications in Hospitality or Advertising)**

**1 Unit**

CIP #: 08.480

Prerequisite: Marketing Principles or approval of instructor; Honors requires recommendation of Hospitality/Advertising teacher

Credit Type: L1 or L2; Core or elective credit

Description: Students will gain an understanding of marketing research and the important role it plays in the field of hospitality or advertising. By using primary and secondary research, the students will learn the value of knowing the customer, be able to identify a viable target market, and then create and execute a marketing plan stemming from the research. Students will learn to examine collection methods, control groups, and other important aspects of conducting research within the context of the hospitality or advertising industry. Student research, experimentation, and results will be applied to the running of a business. *Course available only at Lanier College Career Academy (LCCA).*

**Hospitality Practicum**

**.5 or 1 Unit**

CIP #: 08.7XXX0X3

Prerequisite: Application process required

Credit Type: L1; Core or elective credit

Description: Introduces students to the hospitality industry through hands-on rotations in business settings related to the hotel, food, tourism, travel, and recreation industries. Exposes students to general business and marketing responsibilities needed for success in the hospitality industry. Students will work with community and business leaders from around the state in real business situations in the Meetings & Events conference facility, Get Gifted specialty retail store, and the Sales & Marketing Department of The Oaks. *Course available only at Lanier College Career Academy (LCCA).*

**Marketing, Sales & Service Work-Based Learning (WBL) Placement**

**.5 to 4 Units**

**Marketing, Sales & Service Work-Based Learning (WBL) Placement (Honors)**

CIP #: 08.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**Introduction to Culinary Arts**

**1 Unit**

CIP #: 20.53100

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Introduces fundamental food preparation terms, concepts, and methods where laboratory practices parallel class work. Fundamental techniques, skills, and terminology are covered with an emphasis on basic kitchen and dining room safety, sanitation, equipment maintenance and operation procedures. Course also provides an overview of the professionalism in the industry and career opportunities leading to a career pathway in Culinary Arts. *Course available only at Lanier College Career Academy (LCCA). Students will be expected to follow dress protocol for culinary lab participation.*

**Culinary Arts I****1 Unit**

CIP #: 20.53210

Prerequisite: Introduction to Culinary Arts + ServSafe Handler Certification

Credit Type: L1; Core or elective credit

Description: Building from techniques and skills learned in Introduction to Culinary Arts, this fundamentals course begins to involve in-depth knowledge and hands on skill master of Culinary Arts. *Course available only at Lanier College Career Academy (LCCA). Students will be expected to follow dress protocol for culinary lab participation.*

**Culinary Arts II****1 Unit**

CIP #: 20.53310

Prerequisite: Culinary Arts I

Credit Type: L1; Core or elective credit

Description: Course build on techniques and skills learned in Culinary Arts I with strong importance given to refining hands on production of the classic fundamentals in the commercial kitchen. *Course available only at Lanier College Career Academy (LCCA). Students will be expected to follow dress protocol for culinary lab participation.*

**Baking & Pastry I****1 Unit**

CIP #: 20.53610

Prerequisite: Intro to Culinary Arts

Credit Type: L1; Core or elective credit

Description: Course will provide an in-depth study of baking and pastry arts. Areas of study include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and methods used in creating breads, pastries, cookies, and other desserts. *Course available only at Lanier College Career Academy (LCCA). Students will be expected to follow dress protocol for culinary lab participation.*

**Baking & Pastry II****1 Unit**

CIP #: 20.53710

Prerequisite: Baking I

Credit Type: L1; Core or elective credit

Description: This advanced and rigorous course is designed for the student who is continuing in the Baking and Pastry Pathway and wish to continue their education at the postsecondary level or enter the food-service industry. Strong importance is given to refining hands-on production of the classic fundamentals in the commercial kitchen. *Course available only at Lanier College Career Academy (LCCA). Students will be expected to follow dress protocol for culinary lab participation.*

**Culinary Practicum****.5 or 1 Unit**

CIP #: 20.7XXX0X3

Prerequisite: Completion of the Culinary Arts Pathway courses

Credit Type: L1; Core or elective credit

Description: Introduces students to the culinary industry through hands-on rotations in business settings. Exposes students to general responsibilities needed for success in the culinary industry and continues to build on techniques and skills needed in the commercial kitchen. *Course available only at Lanier College Career Academy (LCCA). Students will be expected to follow dress protocol for culinary lab participation.*

**Culinary/Early Childhood Work-Based Learning (WBL) Placement****.5 to 4 Units****Culinary/Early Childhood Work-Based Learning (WBL) Placement (Honors)**

CIP #: 20.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

## HUMAN SERVICES

Preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.

### Food & Nutrition Pathway (F, N)

- Food, Nutrition & Wellness
- Food for Life
- Food Science

### Personal Care Services-Cosmetology (L)

- Intro to Personal Care Services
- Cosmetology Services II
- Cosmetology Services III

### Introduction to Personal Care Services

CIP #: 12.544

Prerequisite: None

Credit Type: L1; Core or elective credit

**1 Unit**

Description: Introduces both fundamental theory and practices of the personal care professions including nail technicians, estheticians, barbers, and cosmetologists. Emphasis will be placed on professional practices and safety. Areas addressed in this course include: state rules and regulations, professional image, bacteriology, decontamination and infection control, chemistry fundamentals, safety, Hazardous Duty Standards Act compliance, and anatomy and physiology. Students will experience basic hands on skills in each area to help them determine the pathway they are most interested in pursuing. *Course available only at Lanier College Career Academy (LCCA).*

### Cosmetology Services II

CIP #: 12.41000

Prerequisite: Introduction to Personal Care Services; courses must be taken in sequence

Credit Type: L1; Core or elective credit

**1 Unit**

Description: Designed to enhance the understanding of anatomy of the skin and hair relating to the Cosmetology Industry. Students will master shampooing, permanent waving, haircutting, basic skin care, and make-up application while maintaining safety and sanitation in the workplace set forth by OSHA standards. *Course available only at Lanier College Career Academy (LCCA).*

### Cosmetology Services III

CIP #: 12.41100

Prerequisite: Cosmetology Services II; courses must be taken in sequence

Credit Type: L1; Core or elective credit

**1 Unit**

Description: Course will cover haircutting, hair color, and relaxers. Both theory and practical work will be implemented for students to have basic entry level skills in the field of cosmetology. Safety and infection control will be applied throughout this course. Professional work ethics, communication skills, critical thinking skills, soft skills and professional image will be utilized during this course. *Course available only at Lanier College Career Academy (LCCA).*

### Cosmetology Services IV

CIP #: 12.41200

Prerequisite: Cosmetology Services III

Credit Type: L1; Core or elective credit

**1 Unit**

Description: Designed to increase knowledge and skills in cosmetology competencies including, advanced hair color techniques, color correction, haircutting, hairstyling, facials, waxing, lash and brow tint and nail services. *Course available only at Lanier College Career Academy (LCCA).*

### Cosmetology Internship I

CIP #: 12.55100

Prerequisite: Cosmetology Services III

Credit Type: L1; Core or elective credit

**1 Unit**

Description: Provides experiences necessary for the development of skills required to become a cosmetologist. Topics include: chemical texturing, hair color and bleaching, skin, scalp, and hair treatments, styling, haircutting, manicuring and pedicuring. *Course available only at Lanier College Career Academy (LCCA).*

**Cosmetology Internship II****1 Unit**

CIP #: 12.55200

Prerequisite: Cosmetology Services III

Credit Type: L1; Core or elective credit

Description: Provides additional experiences necessary for the development of skill levels required to become a cosmetologist. Topics include: chemical texturing, hair color and bleaching, skin, scalp, and hair treatments, styling, haircutting, manicuring and pedicuring. *Course available only at Lanier College Career Academy (LCCA).*

**Personal Services Work-Based Learning (WBL) Placement****.5 to 4 Units****Personal Services Work-Based Learning (WBL) Placement (Honors)**

CIP #: 12.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**Food, Nutrition & Wellness****1 Unit**

CIP #: 20.41610

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: The foundational course in the Nutrition & Food Science pathway with the focus of the course centered on healthy food and lifestyle choices. Students will investigate the interrelationship of food, nutrition and wellness to promote good health.

**Food for Life****1 Unit**

CIP #: 20.41400

Prerequisite: Food, Nutrition &amp; Wellness Recommended

Credit Type: L1; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2008 and later and is recognized by the Board of Regents as such. Beginning in school year 2017-18, students will earn one unit of credit in Food for Life with successful completion of all three courses in the Early Childhood Care & Education pathway. All three Early Childhood Education pathway courses must have been completed while enrolled in the Hall County School District. A grade of "P" (Pass) will be awarded.**

Description: Addresses the variation in nutritional needs at specific stages of the human life cycle: lactation, infancy, childhood, adolescence, and adulthood including elderly. 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.

**Food Science****1 Unit**

CIP #: 20.41810

Prerequisite: Food, Nutrition &amp; Wellness

Credit Type: L1; Core or elective credit; **course satisfies the fourth science requirement for students entering ninth grade in 2008 and later, and is recognized by the Board of Regents as such. Beginning in school year 2017-18, students will earn one unit of credit in Food Science with successful completion of all three courses in the Culinary Arts pathway. All three Culinary Arts pathway courses must have been completed while enrolled in the Hall County School District. A grade of "P" (Pass) will be awarded.**

Description: Evaluate the effects of processing, preparation, and storage on the quality, safety, wholesomeness, and nutritive value of foods in an applied context, exposing students to the wonders of the scientific world.

**Early Childhood/Culinary Work-Based Learning (WBL) Placement****.5 to 4 Units****Early Childhood/Culinary Work-Based Learning (WBL) Placement (Honors)**

CIP #: 20.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

## INFORMATION TECHNOLOGY

Building linkages in Information Technology occupations for entry level, technical, and professional careers related to the design, development, support and management of hardware, software, multimedia and systems integration services.

### **Computer Science Path <sup>H</sup> (C, F, N, VP, W)\***

- Intro to Digital Technology **OR** Intro to Software Technology
- Computer Science Principles **OR** AP Computer Science Prin
- AP Computer Science A

\* *Some coursework may be taken virtually.*

### **Game Design Pathway <sup>H</sup> (CB, F, VP)**

- Intro to Digital Technology **OR** Intro to Software Technology
- Computer Science Principles **OR** AP Computer Science Prin
- Game Design: Animation and Simulation

### **Web & Digital Design Pathway**

- Intro to Digital Technology **OR** Intro to Software Technology
- Digital Design
- Web Design

*Note: The third course of many pathways are rotated every other year.*

### **Cybersecurity Pathway (J)**

- Intro to Digital Technology **OR** Intro to Hardware Technology
- Introduction to Cybersecurity
- Advanced Cybersecurity

### **Programming Pathway <sup>H</sup> (CB, VP)**

- Intro to Digital Technology **OR** Intro to Software Technology
- Computer Science Principles **OR** AP Computer Science Prin
- Programming, Games, Apps and Society

### **Web Development <sup>H</sup> (C)**

- Intro to Digital Technology **OR** Intro to Software Technology
- Computer Science Principles **OR** AP Computer Science Prin
- Web Development

### **Introduction to Software Technology**

**1 Unit**

#### **Introduction to Software Technology (Honors)**

CIP #: 11.446

Prerequisite: None

Credit Type: L1 or L2; Core or elective credit

Description: 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.

### **Introduction to Hardware Technology**

**1 Unit**

#### **Introduction to Hardware Technology (Honors)**

CIP #: 11.448

Prerequisite: None

Credit Type: L1 or L2; Core or elective credit

Description: Foundational course for Cybersecurity pathway. Designed for high school students to understand, communicate, and adapt to a digital world as it impacts their personal lives, society, and the business world. Exposure to foundational knowledge in hardware, IT support, networks, and cybersecurity are all taught in a computer lab with hands-on activities and project-focused tasks. Students will not only understand the concepts but apply their knowledge to situations and defend their actions/decisions/choices through the knowledge and skills acquired in this course.

### **Digital Design**

**1 Unit**

CIP #: 11.45100

Prerequisite: Introduction to Digital Technology

Credit Type: L1; Core or elective credit

Description: Using web design as the platform for product design and presentation, students will create and learn digital media applications using elements of text, graphics, animation, sound, video and digital imaging for various format. Emphasis will be placed on effective use of tools for interactive multimedia production including storyboarding, visual development, project management, digital citizenship, and web processes. Students will create and design web sites that incorporate digital media elements to enhance content of web site.

### **Web Design**

**1 Unit**

CIP #: 11.45200

Prerequisite: Digital Design

Credit Type: L1; Core or elective credit

Description: Work with web page layout and graphical elements to create a professional looking web site. Various forms of technologies will be used to expose students to resources, software, and applications of web design. Professional communication skills and practices, problem-solving, ethical and legal issues, and the impact of effective presentation skills are enhanced in this course to prepare students to be college and career ready.

### **Computer Science Principles**

**1 Unit**

#### **Computer Science Principles (Honors)**

CIP #: 11.471

Prerequisite: Introduction to Digital Technology; teacher recommendation

Credit Type: L1 or L2; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2015 and later and is recognized by the Board of Regents as such. Course also meets fourth mathematics or world language requirement for high school graduation; two computer science courses from the same pathway will satisfy two years of sequenced foreign language courses for USG admissions.**

Description: Engage your creativity, demonstrate and build your problem solving ability all while connecting the relevance of computer science to the society! Focuses on building a solid understanding and foundation in computer science and emphasizes the content, practices, thinking and skills central to the discipline of computer science.

### **AP Computer Science Principles**

**1 Unit**

CIP #: 11.019

Prerequisite: Teacher recommendation

Credit Type: L3; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2015 and later and is recognized by the Board of Regents as such. Course also meets fourth mathematics or world language requirement for high school graduation; two computer science courses from the same pathway will satisfy two years of sequenced foreign language courses for USG admissions.**

Description: Engage your creativity, demonstrate and build your problem solving ability all while connecting the relevance of computer science to the society! Focuses on building a solid understanding and foundation in computer science and emphasizes the content, practices, thinking and skills central to the discipline of computer science.

### **Programming, Games, Apps, Society**

#### **Programming, Games, Apps and Society (Honors)**

**1 Unit**

CIP# 11.47200

Prerequisite: Computer Science Principles

Credit Type: L1 or L2; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2015 and later and is recognized by the Board of Regents as such. Course also meets fourth mathematics or world language requirement for high school graduation; two computer science courses from the same pathway will satisfy two years of sequenced foreign language courses for USG admissions.**

Description: Course is designed for 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.

### **Game Design: Animation and Simulation**

**1 Unit**

#### **Game Design: Animation and Simulation (Honors)**

CIP #: 11.42900

Prerequisite: Computer Science Principles

Credit Type: L1 or L2; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2015 and later and is recognized by the Board of Regents as such. Course also meets fourth mathematics or world language requirement for high school graduation; two computer science courses from the same pathway will satisfy two years of sequenced foreign language courses for USG admissions.**

Description: 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.

**Advanced Placement Computer Science A****1 Unit**

CIP #: 11.01600

Prerequisite: Approval by instructor

Credit Type: L3; Core or elective credit; **course satisfies the fourth science requirement for students entering ninth grade in 2015 and later and is recognized by the Board of Regents as such. Course also meets fourth mathematics or world language requirement for high school graduation; two computer science courses from the same pathway will satisfy two years of sequenced foreign language courses for USG admissions.**

Description: Conforms to the College Board syllabus for the Advanced Placement Computer Science Examination. Covers programming methodology, features of programming languages, fundamental data structures, algorithms, and computer systems. Students taking this course must take the AP exam.

**Web Development****1 Unit****Web Development (Honors)**

CIP #: 11.42500

Prerequisite: Introduction to Digital Technology

Credit Type: L1 or L2; Core or elective credit; **course meets fourth science requirement for students entering ninth grade in 2015 and later and is recognized by the Board of Regents as such. Course also meets fourth mathematics or world language requirement for high school graduation; two computer science courses from the same pathway will satisfy two years of sequenced foreign language courses for USG admissions.**

Description: This course, with Hypertext Markup Language (HTML) and Cascading Style Sheet (CSS) as its foundation, will teach students to develop and design responsive web sites through coding, testing, debugging and implementation of web-based services. This course will also allow students to learn about content management systems, client side languages, server side languages, and database concepts. The course is designed to give students foundational knowledge of "front-end" and "back-end" development to address the presentation and data access layers of web site development.

**Introduction to Cybersecurity****1 Unit**

CIP #: 11.48100

Prerequisite: None

Credit Type: L1 or L2; Core or elective credit

Description: 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.

**Advanced Cybersecurity****1 Unit**

CIP #: 11.482

Prerequisite: None

Credit Type: L1 or L2; Core or elective credit

Description: Designed to provide students the advanced concepts and terminology of cybersecurity. The course explores the field of cybersecurity with updated content including new innovations in technology and methodologies. It builds on existing concepts introduced in Introduction to Cybersecurity and expands into malware threats, cryptography, organizational security, and wireless technologies.

**Information Technology Work-Based Learning (WBL) Placement****.5 to 4 Units****Information Technology Work-Based Learning (WBL) Placement (Honors)**

CIP #: 11.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.



Prepares students with basic knowledge and skills for careers in the public safety and protective services.

**Law Enforcement/Forensic Science Pathway (CB)**

- Introduction to Law, Public Safety
- Criminal Justice Essentials
- Forensic Science and Criminal Investigations

**Security & Protective Services (CB)**

- Introduction to Law, Public Safety
- Criminal Justice Essentials
- Security and Protective Services

**Introduction to Law, Public Safety, Corrections and Security**

**1 Unit**

CIP #: 43.45000

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Examines the basic concepts of law related to citizens' rights and the responsibilities; instruction in critical skill areas including: communicating with diverse groups, conflict resolution, ethics, CERT (Citizens Emergency Response Training, or similar program), basic firefighting, report writing, terrorism, civil and criminal law. Career planning and employability skills will be emphasized.

**Criminal Justice Essentials**

**1 Unit**

CIP #: 43.45100

Prerequisite: Introduction to Law, Public Safety, Corrections and Security

Credit Type: L1; Core or elective credit

Description: 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.

**Forensic Science and Criminal Investigations**

**1 Unit**

CIP #: 43.45200

Prerequisite: Introduction to Law, Public Safety, Corrections and Security

Credit Type: L1; Core or elective credit; **course satisfies the fourth science requirement for students entering ninth grade in 2016 and later and is recognized by the Board of Regents as such.**

Description: Designed to contextualize scientific principles within the career studies of students interested in criminal justice. Students will study the forensic application of principles of chemistry, biology, physics and other disciplines. Students will utilize chromatography, electrophoresis, microscopic observation, and other scientific techniques in their studies. Students will also learn some investigative techniques and crime scene investigation skills through the lens of the scientific method.

**Security & Protective Services**

**1 Unit**

CIP #: 43.45800

Prerequisite: Introduction to Law, Public Safety, Corrections and Security

Credit Type: L1; Core or elective credit

Description: Provides an analysis of the various careers in Security and Protective Services, including the history, procedures and objectives. Topics include: history and evolution of private security and private security services; regulatory and organizational guidelines; the impact of federal, state and local laws on security and protective services; public relations; strategies; supervision and management; intelligence analysis; and staffing.

**Essentials of Fire & Emergency Services**

**1 Unit**

CIP #: 43.46000

Prerequisite: Introduction to Law, Public Safety, Corrections and Security

Credit Type: L1; Core or elective credit

Description: Addresses the essential components needed for fire and emergency services. Students will explore career options, interagency communications, medical services, and basic firefighting standards.

**Law, Public Safety & Security Work-Based Learning (WBL) Placement**  
**Law, Public Safety & Security Work-Based Learning (WBL) Placement (Honors)**

**.5 to 4 Units**

CIP #: 43.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**MANUFACTURING**

Prepares students to plan, manage, and perform the processing of materials into intermediate or final products and maintenance for manufacturing/process engineering.

**Machining Operations Pathway (F, N) +**

- Industry Fund & Occupational Safety
- Introduction to Metals
- Machining Operations I

**Manufacturing Pathway (E, W)**

- Foundations of Manufacturing & Materials Science
- Robotics and Automated Systems
- Production Enterprises

**Sheet Metal Pathway (CB) +**

- Intro to Digital Technology **OR** Intro to Software Technology
- Introduction to Metals
- Sheet Metal I

**Welding Pathway (CB, F, N) +**

- Industry Fund & Occupational Safety
- Introduction to Metals
- Welding I

+ Receives a fourth CTAE+ academic credit upon completion of pathway (meets graduation requirement and TCSG admissions ONLY).

**Industry Fundamentals & Occupational Safety**

**1 Unit**

CIP #: 46.54500

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Develops basic knowledge to function safely on or around a construction site and in the industry in general and is the foundational course that prepares students for a pursuit of any career in the fields of Carpentry, Plumbing, Electrical, Masonry, Machining, or Welding. Course includes: basic content of OSHA standards, construction math, hand and power tools used in the field, general blueprints and basics of rigging safety.

**Introduction to Metals**

**1 Unit**

CIP #: 48.58100

Prerequisite: Industry Fundamentals & Occupational Safety

Credit Type: L1; Core or elective credit

Description: Designed to familiarize students with fundamentals of various metal occupations for the purpose of preparing them to select either welding, sheet metal, or machining for more highly specialized training in subsequent courses.

**Machining Operations I**

**1 Unit**

CIP #: 48.59000

Prerequisite: Introduction to Metals

Credit Type: L1; Core or elective credit

Description: Acquaints the students with the history of the machining trade, equipment used in the trade, attributes of successful machinists, industry credentialing, and career opportunities. Course topics include safety, applied mathematics, measuring instruments, blueprint reading, and metallurgy. Practical experience will be gained in the proper use and maintenance of hand tools, the pedestal grinder, the drill press, and band saws.

**Welding I**

**1 Unit**

CIP #: 48.55100

Prerequisite: Introduction to Metals

Credit Type: L1; Core or elective credit

Description: Basic knowledge of equipment in oxyfuel and shielded metal arc welding (SMAW). In oxy-fuel area, students will create accurate cuts and perform washing and gouging procedures; critique their work pieces by welding codes, identifying imperfections, common test methods, and evaluate setups to determine proper setup of work and equipment. In SMAW, learn and model proper safety and learn to make judgment calls in selection of electrodes and metal preparation to create beads and fillet welds using various rods.

**Sheet Metal I**

**1 Unit**

CIP #: 48.58200

Prerequisite: Introduction to Metals

Credit Type: L1; Core or elective credit

Description: Allows students to master basic sheet metal techniques. Course includes the development of skills in basic trade math. Students will identify, rate, select, and use steel and other metals to develop and fabricate basic sheet metal projects. The course includes basic parallel line development and skills using fasteners, hangers, and other support systems.

**Foundations of Manufacturing and Materials Science**

**1 Unit**

CIP #: 21.44100

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Course provides students with opportunities to become familiar with related careers and develop fundamental technological literacy as they learn about the history, systems, and processes of manufacturing. In addition, the course will provide an overview of the safe use of tools and equipment used in the industry.

**Robotics and Automated Systems**

**1 Unit**

CIP #: 21.44500

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Upon completing this course, students will be able to apply their knowledge of computer aided design (CAD), computer numerical control (CNC), robotics, computer assisted manufacturing (CAM), programmable logic controllers, automated guided vehicles (AGV), and computer integrated manufacturing (CIM).

**Production Enterprises**

**1 Unit**

CIP #: 21.44400

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Purpose of this course is to give students on understanding of how to design and implement a production system. Students learn how businesses engage in the production of products beginning with pre-production activities and continuing through post-production activities. Additionally, students will learn about the historical and societal impact of production. Students will also develop an understanding of careers available in manufacturing and the skills and education required for those careers.

**Science, Technology, Engineering & Mathematics Work-Based Learning (WBL) Placement**

**.5 to 4 Units**

**Science, Technology, Engineering & Mathematics Work-Based Learning (WBL) Placement (Honors)**

CIP #: 21.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**Precision Production Occupations Work-Based Learning (WBL) Placement**

**.5 to 4 Units**

**Precision Production Occupations Work-Based Learning (WBL) Placement (Honors)**

CIP #: 48.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

## MARKETING, SALES & SERVICE

Planning, managing, and performing marketing activities to reach organizational objectives such as brand management, professional sales, merchandising, marketing communications and market research.

### **Fashion Merchandising/Retail Management (L)**

- Marketing Principles
- Fashion Merc & Retailing Essentials
- Adv Fashion, Merchandising & Retailing

### **Marketing & Management Pathway (C, CB, F, N, W)**

- Marketing Principles
- Marketing & Entrepreneurship <sup>H</sup>
- Marketing Management <sup>H</sup>

### **Marketing Comm & Promotion Pathway (L, N, VP) +**

- Marketing Principles
- Promotional and Digital Marketing
- Integrated Marketing Communications

### **Sports & Entertainment Marketing Pathway (CB, N)**

- Marketing Principles
- Introduction to Sports & Entertainment Marketing
- Advanced Sports & Entertainment Marketing <sup>H</sup>

+ Receives a fourth CTAE+ academic credit upon completion of pathway (meets graduation requirement and TCSG admissions ONLY).

### **Marketing Principles**

**1 Unit**

CIP #: 08.474

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Description: The foundational course for Marketing pathways and addresses all the ways in which marketing satisfies consumer and business needs and wants for products and services. Students develop a basic understanding of Employability, Foundational and Business Administration skills, Economics, Entrepreneurship, Financial Analysis, Human Resources Management, Information Management, Marketing, Operations, Professional Development, Strategic Management, and Global Marketing strategies.

### **Fashion, Merchandising and Retailing Essentials**

**1 Unit**

CIP #: 08.42100

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Introduces students to the retail industry including the fundamentals of fashion marketing, key marketing concepts essential to every business, types of businesses involved in the industry, and an array of career opportunities. Students will develop skills in such areas as fashion economics, marketing segmentation and target marketing, product selection and buying, and inventory. *Course available only at Lanier College Career Academy (LCCA).*

### **Advanced Fashion, Merchandising and Retailing Essentials**

**1 Unit**

CIP #: 08.42200

Prerequisite: Fashion, Merchandising and Retailing Essentials

Credit Type: L1; Core or elective credit

Description: Focuses on the application of knowledge and the performance of key skills required in a retail environment. Students will develop skills necessary for managing the following elements: pricing, visual merchandising, advertising, special promotions, professional sales, and customer service. *Course available only at Lanier College Career Academy (LCCA).*

### **Marketing & Entrepreneurship**

**1 Unit**

#### **Marketing & Entrepreneurship (Honors)**

CIP #: 08.44100

Prerequisite: Marketing Principles

Credit Type: L1; Core or elective credit

Description: Begins an in-depth and detailed study of marketing while also focusing on management with specific emphasis on small business ownership. Builds on the theories learned in Marketing Principles by providing practical application scenarios which test these theories. In addition, focuses on the role of the supervisor and examines the qualities needed to be successful.

### **Marketing Management**

**1 Unit**

#### **Marketing Management (Honors)**

CIP #: 08.44200

Prerequisite: Marketing Principles

Credit Type: L1; Core or elective credit

Description: Students assume a managerial perspective by applying economic principles in marketing, analyzing operation's needs, examining channel management and financial alternatives, managing marketing information, pricing products and services, developing product/service planning strategies, promoting products and services, purchasing, and professional sales. Includes global marketing where students analyze marketing strategies employed in the United States versus those employed in other countries.

### **Promotional and Digital Marketing**

**1 Unit**

CIP #: 08.45100

Prerequisite: None; courses may be taken concurrently

Credit Type: L1; Core or elective credit

Description: This course focuses on the performance of key responsibilities required in a retail environment. Students develop skills in pricing, visual merchandising, advertising, special promotions, professional sales, and customer service.

### **Integrated Marketing Communications**

**1 Unit**

CIP #: 08.45200

Prerequisite: None; courses may be taken concurrently

Credit Type: L1; Core or elective credit

Description: Focuses on the communication aspects of the business in relation to customer/consumer relationships. Students develop knowledge and skills in advertising, direct marketing, public relations, sales promotions, and digital marketing communications. Students learn how communications affects budget considerations, marketing information decision-making and all future business opportunities.

### **Marketing Research [Marketing Applications in Hospitality or Advertising]**

**1 Unit**

#### **Marketing Research [Marketing Applications in Hospitality or Advertising] (Honors)**

CIP #: 08.480

Prerequisite: Marketing Principles or approval of instructor; Honors requires recommendation of Hospitality/Advertising teacher

Credit Type: L1 or L2; Core or elective credit

Description: Students will gain an understanding of marketing research and the important role it plays in the field of hospitality or advertising. By using primary and secondary research, the students will learn the value of knowing the customer, be able to identify a viable target market, and then create and execute a marketing plan stemming from the research. Students will learn to examine collection methods, control groups, and other important aspects of conducting research within the context of the hospitality or advertising industry. Student research, experimentation, and results will be applied to the running of a business. *Course available only at Lanier College Career Academy (LCCA).*

### **Design, Marketing/Business Management Practicum**

**1 Unit**

CIP #: 08.7XXX0X3

Prerequisite: Application process required

Credit Type: L1; Core or elective credit; courses are designed as yearlong courses

Description: If you have successfully completed a marketing, business, graphic design, or visual arts class, this course is for you! Students will work together in the Design 360 Promotions Lab, Get Gifted or Corner Cafe at LCCA to operate a small business on a daily basis. Students will work with real customers in the design, management, and production of printed t-shirts, embroidery, banners, and many other promotional items or work in Get Gifted and Corner Café performing specific tasks. Students will be challenged and empowered to manage and grow the Design 360, Get Gifted or Corner Café business, while developing important workplace skills as they learn outside of a traditional classroom. Each student will hold variety of "jobs" within the business including graphic design, new product development, business management, production and operations, marketing, customer service, and finance; *course available only at Lanier College Career Academy (LCCA).*

### **Introduction to Sports & Entertainment Marketing**

**1 Unit**

CIP #: 08.47800

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Focuses on the major segments of the Sports and Entertainment Industry and the social and economic impact it has on the local, state, national, and global economies. The products and services offered to consumers and the impact of marketing on these products and services are examined. Units include: 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.

**Advanced Sports & Entertainment Marketing** **1 Unit**  
**Advanced Sports & Entertainment Marketing (Honors)**  
CIP #: 08.48500  
Prerequisite: Introduction to Sports & Entertainment Marketing  
Credit Type: L1; Core or elective credit

Description: Focuses on developing managerial and analytical skills and deepening knowledge in sports/entertainment marketing. Topical units include: Marketing-Information Management, Selling, Publicity/Public Relations, Sales Promotion, Management of Promotion, Product Mix, Pricing, Positioning, and Marketing Planning.

**Marketing, Sales & Service Work-Based Learning (WBL) Placement** **.5 to 4 Units**  
**Marketing, Sales & Service Work-Based Learning (WBL) Placement (Honors)**  
CIP #: 08.7XXXXXX  
Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course  
Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

## SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

### **Engineering and Technology Pathway <sup>#</sup> (CB, F, N) +**

- Foundations of Engineering/Technology
- Engineering Concepts
- Engineering Applications

+ Receives a fourth CTAE+ academic credit upon completion of pathway (meets graduation requirement and TCSG admissions ONLY).

**Foundations of Engineering and Technology** **1 Unit**  
**Foundations of Engineering and Technology (Honors)**  
CIP #: 21.42500  
Prerequisite: STEM/STEAM Academy acceptance and/or instructor approval  
Credit Type: L1 or L2; Core or elective credit

Description: This STEM driven course provides an overview of engineering and technology including the different methods used in the engineering design process developing fundamental technology and engineering literacy. Students will demonstrate the skills and knowledge they have learned through various project-based activities while using an engineering design process to successfully master the “E” in STEM.

**Engineering Concepts** **1 Unit**  
**Engineering Concepts (Honors)**  
CIP #: 21.47100  
Prerequisite: Foundations of Engineering and Technology  
Credit Type: L1 or L2; Core or elective credit

Description: This STEM driven course introduces students to the fundamental principles of engineering. Students learn about areas of specialization within engineering and engineering design, and apply engineering tools and procedures as they complete hands-on instructional activities.

**Engineering Applications** **1 Unit**  
**Engineering Applications (Honors)**  
CIP #: 21.47200  
Prerequisite: Foundations of Engineering and Technology  
Credit Type: L1 or L2; Core or elective credit

Description: This STEM driven course provides students with the opportunity to apply engineering design as they develop a solution for a technological problem. Students use applications of mathematics and science to predict the success of an engineered solution and complete hands-on activities with tools, materials, and processes as they develop a working drawings and prototypes.

**Research, Design, and Project Management (Honors)****1 Unit**

CIP#: 21.46100

Prerequisite: Completion of the Engineering Pathway (3 courses) is required.

Credit Type: L2; Core or elective credit

Description: 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. Course only offered at Flowery Branch High.

**Science, Technology, Engineering & Mathematics Work-Based Learning (WBL) Placement****.5 or 1 Unit****Science, Technology, Engineering & Mathematics Work-Based Learning (WBL) Placement (Honors)**

CIP #: 21.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**Precision Production Occupations Work-Based Learning (WBL) Placement****.5 to 4 Units****Precision Production Occupations Work-Based Learning (WBL) Placement (Honors)**

CIP #: 48.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; &amp; concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**TRANSPORTATION, DISTRIBUTION & LOGISTICS**

The planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

**General Automotive Technology (C, E)**

- Automotive Technologies 1
- Automotive Technologies 2
- Automotive Technologies 3

**Automotive Technologies 1****1 Unit**

CIP# 47.45000

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Designed as the foundational course for the General Automotive Technology pathway. Students in this course will learn the basic skills needed to gain employment as an entry-level automotive technician. Students will be exposed to courses in automotive preventative maintenance, brakes, steering and suspension, electrical systems, engine repair, engine performance, automatic transmission, manual transmission and differential & automotive HVAC. The hours completed in this course are aligned with ASE standards and are a base for the entry-level technician.

**Automotive Technologies 2****1 Unit**

CIP # 47.45100

Prerequisite: Automotive Technologies 1

Credit: L1; Core or elective credit

Description: Designed as the second course for the General Automotive Technology Pathway. Students in this course will learn the basic skills needed to gain employment as an entry-level automotive technician. Students will be exposed to courses in automotive preventative maintenance, brakes, steering and suspension, electrical systems, engine repair, engine performance, automatic transmission, manual transmission and differential & automotive HVAC. The hours completed in this course are aligned with ASE standards and are a base for the entry-level technician.

**Automotive Technologies 3**

**1 Unit**

CIP # 47.45200

Prerequisite: Automotive Technologies 2

Credit: L1; Core or elective credit

Description: Designed as the third course for the General Automotive Technology Pathway. Students in this course will learn the basic skills needed to gain employment as an entry-level automotive technician. Students will be exposed to courses in automotive preventative maintenance, brakes, steering and suspension, electrical systems, engine repair, engine performance, automatic transmission, manual transmission and differential & automotive HVAC. The hours completed in this course are aligned with ASE standards and are a base for the entry-level technician.

**HVAC/Transportation Work-Based Learning (WBL) Placement**

**.5 to 4 Units**

**HVAC/Transportation Work-Based Learning (WBL) Placement (Honors)**

CIP #: 47.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

**CAREER EXPLORATION**

**Workforce Ready (CB, E, L, N, W)**

- Introduction to Career Competencies
- Career Competencies
- Advanced Career Competencies

**Jobs for Georgia Graduates Work Ethics I**

**1 Unit**

CIP #: 32.04100

Prerequisite: Approval of JGG Coordinator

Credit Type: L1; Elective credit only

Description: A specialized program for targeted youth, the classroom instruction includes life skills, training, remediation, career exploration, decision making and goal setting. During the summer months, summer school and special activities are planned for each student. *Course available only at Johnson High School (JHS).*

**Jobs for Georgia Graduates Work Ethics II**

**1 Unit**

CIP #: 32.04200

Prerequisite: Approval of JGG Coordinator

Credit Type: L1; Elective credit only

Description: A specialized program for targeted youth, the classroom instruction includes detailed career planning, self-awareness, team building, remediation, job shadowing and career selection. *Course available only at Johnson High School (JHS).*

**Jobs for Georgia Graduates Work Ethics III**

**1 Unit**

CIP #: 32.04300

Prerequisite: Approval of JGG Coordinator

Credit Type: L1; Elective credit only

Description: A specialized program for targeted youth, the classroom instruction includes job attainment skills, money management, values clarification, remediation, and social development. *Course available only at Johnson High School (JHS).*



**Jobs for Georgia Graduates Work Ethics IV****1 Unit**

CIP #: 32.04400

Prerequisite: Approval of JGG Coordinator

Credit Type: L1; Elective credit only

Description: A specialized program for targeted youth, the classroom instruction includes workplace competencies, job survival training, resume writing, communication skills, economic empowerment and remediation. *Course available only at Johnson High School (JHS).*

**Introduction to Career Competencies****1 Unit**

CIP #: 32.43000

Prerequisite: None

Credit Type: L1; Core or elective credit

Description: Students acquire employability skills that ease their transition to the workforce. Specific skills within the course provide additional opportunities for students to sharpen academic and employability skills, financial literacy, multiple forms of communication strategies, mastery of technology and specific-related tools, workplace safety, and self-advocacy approaches.

**Career Competencies****1 Unit**

CIP #: 32.43100

Prerequisite: Introduction to Career Competencies

Credit Type: L1; Core or elective credit

Description: Students acquire employability skills that ease their transition to the workforce. Specific skills within the course provide additional opportunities for students to sharpen academic and employability skills, financial literacy, multiple forms of communication strategies, mastery of technology and specific-related tools, workplace safety, and self-advocacy approaches.

**Advanced Career Competencies****1 Unit**

CIP #: 32.43200

Prerequisite: Introduction to Career Competencies

Credit Type: L1; Core or elective credit

Description: Students will use various opportunities and settings to demonstrate knowledge and application of employability skills acquired in prior courses. Specific skills within the course provide additional opportunities for students to sharpen academic and employability skills, financial literacy, multiple forms of communication strategies, leadership skills, mastery of technology and specific-related tools, workplace safety, and self-advocacy approaches. Students will have heavy exposure to workplace and community experiences, complete and present career portfolios, complete a community/school service project, hone leadership skills, and earn business and industry recognized credentials.

**Workforce Ready Work-Based Learning (WBL) Placement****.5 to 4 Units****Workforce Ready Work-Based Learning (WBL) Placement (Honors)**

CIP #: 32.7XXXXXX

Prerequisite: Approval by Work-based Learning Coordinator; teacher recommendations; age 16 or older; on track for graduation; able to provide own transportation; & concurrently enrolled in a related course or previously taken a related course

Credit Type: L1 or L2; Core or elective credit

Description: Develop transferable employability skills and awareness of workplace culture; mastery of a set of predetermined learning objectives identified with a training plan between the employer and student; understanding of the workplace and self-awareness of related career interests; identification of specific work tasks that will develop workplace competency, soft skills and portfolio development.

## PERSONAL, INTERPERSONAL, & SOCIAL SKILLS

### **IB Personal and Professional Skills, Year 1**

**.5 or 1 Unit**

### **IB Personal and Professional Skills, Year 2**

CIP #: 35.08800 (Year 1)

CIP #: 35.08900 (Year 2)

Prerequisite: Approval of IBCP Coordinator

Credit Type: L3; Core or elective credit

Description: The IB Approaches to Learning course emphasizes thinking, intercultural understanding, communication, and personal development. The course is designed to introduce students to life skills and to help students operate in a variety of contexts, including communities, technologies, environments, and ultimately the workplace. The approaches to learning course aims to develop personal qualities and values as exemplified in the IB learner profile.

### **SAT Preparation**

**.5 or 1 Unit**

CIP #: 35.06600

Prerequisite: None

Credit Type: L1; Elective credit only

Description: Introduces methods to improve SAT testing. SAT content and test taking strategies are emphasized.

### **Tools for College Success I**

**.5 or 1 Unit**

CIP #: 35.06700

Prerequisite:

Credit Type: L1; Elective credit

Description: Focuses on strategies to improve success at the post-secondary level including note taking, test-taking strategies, problem solving, time management, decision making, goal setting, organizational skills and study habits. Test preparation for post-secondary admissions emphasized. Guidance and advisement provided to support seamless transition to post-secondary setting.

### **High School Transition IV**

**.5 or 1 Unit**

CIP #: 35.06800

Prerequisite: Approval of the school Instructional Coordinator

Credit Type: L1; Elective credit

Description: Focuses on strategies to improve success at the secondary level including note taking, test taking, time management, problem solving, decision making, active listening, goal setting, organizational skills, study habits, learning styles and learning strategies. Reading and writing with a focus on higher order thinking will also be emphasized along with the development of self-advocacy skills that support a successful secondary career.

### **International Baccalaureate (IB) Theory of Knowledge (TOK)**

**.5 or 1 Unit**

CIP #: 35.07100 (Year 1)

CIP #: 35.07200 (Year 2)

Prerequisite: Approval of the school IB Coordinator

Credit Type: L3; Core or elective credit

Description: TOK is a required interdisciplinary study within the IB curriculum. Students engage in critical reflection and analysis as they explore relationships and philosophical perspectives across multiple disciplines to stimulate reflection on the knowledge and the experience of students both in and outside the classroom. The course challenges students to question the basis of knowledge, to be aware of subjective and ideological biases, and to develop a personal mode of thought based on analysis of evidence and expressed in rational arguments. A group oral presentation and an essay written on prescribed topics form TOK's assessment research projects and an oral play analysis.

### **Advanced Placement Seminar**

**1 Unit**

CIP #: 35.09000

Prerequisite: Approval of school AP Coordinator

Credit Type: L3; Elective credit

Description: AP Seminar is a foundational course that aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. Using an inquiry framework of questioning, understanding, evaluating, synthesizing, and transforming, students analyze a variety of texts, speeches, artistic expressions, and personal accounts. Students complete a team project and presentation; a research-based essay, and a written AP exam.

**Advanced Placement Research****1 Unit**

CIP #: 35.09100

Prerequisite: Approval of school AP Coordinator

Credit Type: L3; Elective credit

Description: AP Research allows students to deeply explore an academic topic, problem or issue of individual interest. Students design, plan, and conduct a year-long mentored, research-based investigation to address a research question. Students further their skills acquired in AP Seminar by understanding research methods; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Course culminates in an academic thesis paper of approximately 5000 words and a presentation, performance, or exhibition with an oral defense.

**Peer Facilitation I – IV****.5 or 1 Unit**

CIP #: 35.04100 (I)

CIP #: 35.04200 (II)

CIP #: 35.04300 (III)

CIP #: 35.04400 (IV)

Prerequisite: None

Credit Type: L1; Elective credit only

Description: Introduces peer facilitation through a focus on goal setting and self-determination.

**Social Skills I – IV****1 Unit**

CIP #: 35.05100 (I)

CIP #: 35.05200 (II)

CIP #: 35.05300 (III)

CIP #: 35.05400 (IV)

Prerequisite: Courses must be taken in sequence

Credit Type: L1; Elective credit only

Description: Course addresses social-emotional needs of students including peer relations, problem-solving and conflict resolution. Methods introduced to improve decision-making, problem solving, and interpersonal skills. Emphasizes rule compliance and social-emotional competence; identifying personal strengths and weaknesses, communication skills and adjusting to new expectations.

**Study Skills I – IV****.5 or 1 Unit**

CIP #: 35.061 (I)

CIP #: 35.062 (II)

CIP #: 35.063 (III)

CIP #: 35.064 (IV)

Prerequisite: Courses must be taken in sequence

Credit Type: L1; Elective credit only

Description: Methods to improve note taking, test taking, time-management, problem solving, decision-making, active-listening, goal-setting, and organizational skills. Study Skills I stresses study habits, learning styles and learning strategies to make a smooth transition from middle school to high school. Study Skills II emphasizes applying skills in content specific areas and improving reading and writing skills. Study Skills III emphasizes preparation for the high school exit exam; stresses higher-order thinking and test taking skills. Study Skills I-IV emphasizes goal-setting and self-advocacy skills for successful transition to a post-secondary setting.



## Planning Guide Index

English/Language Arts.....	12
Mathematics .....	18
Science .....	23
Social Sciences .....	27
Modern Languages .....	33
Fine Arts .....	36
Dance .....	36
Theatre Arts .....	36
Music.....	38
Visual Arts .....	43
Professional/Career Preparation .....	45
Health/Physical Education .....	46
Career/Technology .....	48
Agriculture, Food & Natural Resources .....	48
Architecture & Construction.....	51
Arts, A/V Technology & Communications .....	54
Business, Management & Administration .....	56
Education & Training.....	58
Finance.....	59
Government & Public Administration.....	60
Health Science.....	62
Hospitality & Tourism .....	65
Human Services.....	68
Information Technology.....	70
Law, Public Safety & Security.....	73
Manufacturing .....	74
Marketing, Sales & Service .....	75
Science, Technology, Engineering & Mathematics.....	78
Transportation, Distribution & Logistics.....	79
Career Exploration .....	80
Personal, Interpersonal, & Social Skills.....	82

**Don't Delay – Start Planning for Your Future TODAY!**



INVESTOR CAREER READY CERTIFICATES  
**DUAL**  
**ENROLLMENT**  
AT LANIER COLLEGE & CAREER ACADEMY

## CERTIFICATE PROGRAMS

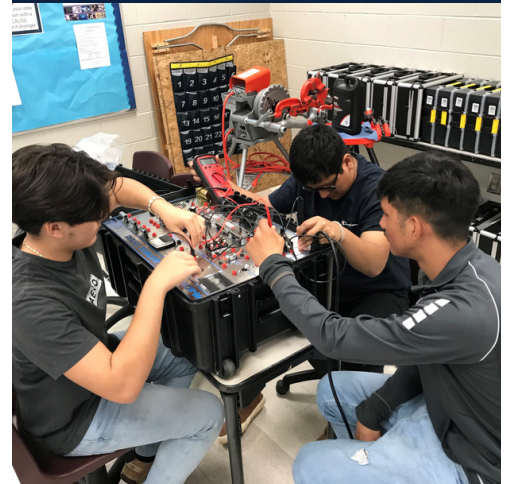
- Automotive Collision Repair Asst I
- Basic Marine Engine Technician
- Basic Shielded Metal Arc Welder
- Criminal Justice
- Design & Media Production
- Diesel Electrical Systems Technician
- Early Childhood Care & Education Basics
- Esthetics
- Gas Metal Arc Welder
- Industrial Electrician
- Prep Cook
- Salon & Spa Support

Certificate programs are offered in partnership with Lanier Technical College.

## REQUIREMENTS

- HS GPA 2.0
- OR
- ACT  
English 13  
Math 17  
Reading 14
- ACCUPLACER  
Reading 224  
Writing 236  
Arithmetic 229
- PSAT  
Reading 22  
Writing 23  
Math 20
- SAT  
Reading 24  
Writing 25  
Math 22

## CONTACT



For questions about requirements, the application process, or certificate programs offered, contact Lisa McDowell, Hall County College & Career Coordinator, at [lisa.mcdowell@hallco.org](mailto:lisa.mcdowell@hallco.org).

[lcca.hallco.org/dual-enrollment](http://lcca.hallco.org/dual-enrollment)

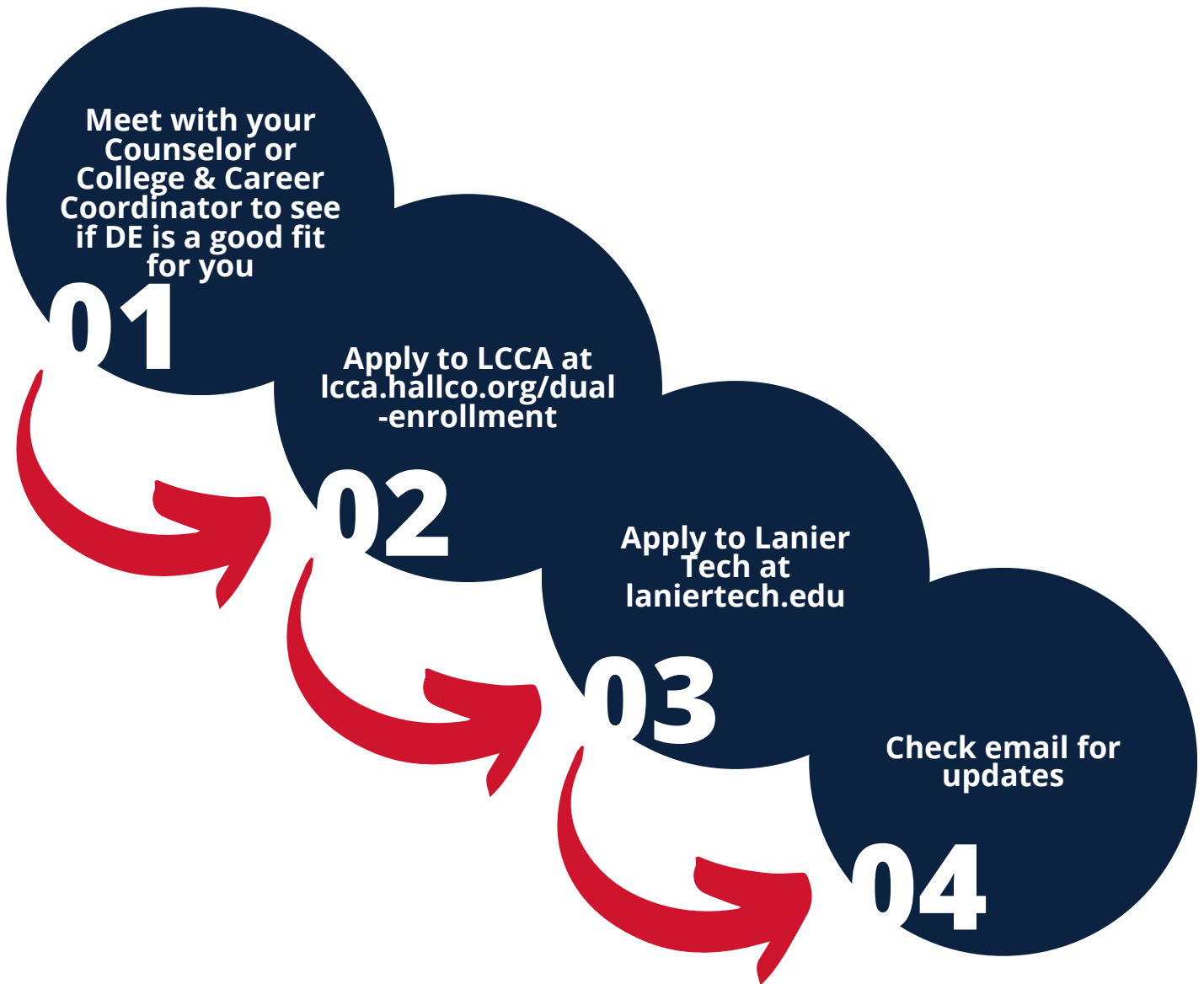
**LCCA IS A SITE LOCATION OF LANIER  
TECHNICAL COLLEGE.**



For more information about on campus program offerings, visit [laniertech.edu](http://laniertech.edu).

# INTERESTED IN DUAL ENROLLMENT?

## FOLLOW THESE STEPS!



Questions?  
Email [lisa.mcdowell@hallco.org](mailto:lisa.mcdowell@hallco.org)  
or call 678-283-2877

# HALL COUNTY SCHOOLS *High School Planning Guide*

COURSES | PROGRAMS | PATHWAYS

*Character, Competency, Rigor... For All*



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## Cherokee Bluff High School

6603 Spout Springs Road  
Flowery Branch, GA 30542  
Phone: 770-967-0080  
Fax: 770-967-0086  
Website: [cbhs.hallco.org](http://cbhs.hallco.org)

## Chestatee High School

3005 Sardis Road  
Gainesville, GA 30506  
Phone: 770-532-1162  
Fax: 770-532-2202  
Website: [chs.hallco.org](http://chs.hallco.org)

## East Hall High School

3534 East Hall Road  
Gainesville, GA 30507  
Phone: 770-536-9921  
Fax: 770-535-1184  
Website: [ehhs.hallco.org](http://ehhs.hallco.org)

## Flowery Branch High School

4450 Hog Mountain Road  
Flowery Branch, GA 30542  
Phone: 770-967-8000  
Fax: 770-967-1218  
Website: [fbhs.hallco.org](http://fbhs.hallco.org)

## Johnson High School

3305 Poplar Springs Road  
Gainesville, GA 30507  
Phone: 770-536-2394  
Fax: 770-531-3046  
Website: [jhs.hallco.org](http://jhs.hallco.org)

## Lanier College Career Academy

2719 Tumbling Creek Road  
Gainesville, GA 30504  
Phone: 770-532-3161  
Fax: 770-532-3156  
Website: [lcca.hallco.org](http://lcca.hallco.org)

## North Hall High School

4885 Mt. Vernon Road  
Gainesville, GA 30506  
Phone: 770-983-7331  
Fax: 770-983-7941  
Website: [nhhs.hallco.org](http://nhhs.hallco.org)

## West Hall High School

5500 McEver Road  
Oakwood, GA 30566  
Phone: 770-967-9826  
Fax: 770-967-4864  
Website: [whhs.hallco.org](http://whhs.hallco.org)

**The Hall County School District is committed to...  
developing LIFE READY GRADUATES!**