Preparing students for success after high school is an inherent component of the Douglas County School System’s vision. Whether students plan to enter the workforce immediately or attend college after high school graduation, careful consideration of high school course options can impact their futures. To better prepare students for the demands of the 21st century economy and for post-secondary education, the Douglas County School System has provided this planning guide for use by students and their parents.

Use this planning guide for the next four years to set career goals and plan for the world of future work. Go over the information in the guide together and begin to have discussions concerning post high school plans and how you can reach the goals that you set. Bring this guide with you to each annual advisement appointment at your high school and share with your advisor as you all work together to map out the next year’s schedule of courses. Finally, mark your choices in the guide as you go through high school and as your career decisions possibly change and evolve.

This planning guide shows the clear connection between class work and future success, pointing out the relevance of academic learning in the classroom. It also provides information on a variety of occupations that differ in the scope of education and training required to obtain future employment.
WHAT ARE CAREER PATHWAYS?

Career Pathways are state-approved career enhancement programs defined as a coherent, articulated sequence of rigorous academic and career-related courses starting in the ninth grade and leading to an associate degree, and/or an industry-recognized certificate or licensure, and/or a baccalaureate degree and beyond.

Career, Technical, and Agricultural Education (CTAE) provides students with the opportunity to select at least three sequenced courses in a career pathway.

CTAE CONCENTRATOR: A concentrator is defined as a student who takes at least three CTAE courses in a specific program area during their high school career.

PATHWAY COMPLETER: A pathway completer is a concentrator who completes the requirements for CTAE pathway concentrators.

Selection of a pathway is based on self-awareness and the investigation of occupations plus related educational levels aligned with the pathway. Most high-demand, high-skilled, high-wage occupations in all concentrations still require education beyond high school.

Implementation of career pathways is a collaborative effort between the Douglas County School System, the Georgia Department of Education, the Technical College System of Georgia and the University System of Georgia.

OVERVIEW OF CAREER CLUSTERS/PATHWAYS

- Georgia’s 17 Career Clusters/Pathways provide a structure for organizing and delivering quality Career, Technical and Agricultural Education (CTAE) programs.

- Modeled after the National Career Clusters configuration utilized by most of the United States, Georgia’s 17 Career Clusters/Pathways Model represents approximately 96 career pathways to help students navigate their way to greater success in college and career.

- As an organizing tool for curriculum design and instruction, the 17 Career Clusters provide essential knowledge and skills for the students’ career pathways.

- This model functions as a:
  - Useful guide in developing programs of study that bridge secondary and postsecondary curriculum
  - Indicator of a range of career options for students’ graduation plans of study
  - Method of allowing students to discover their interests and passions, empowering them to choose the educational pathway that may lead to success in high school, college and career

- The 17 Career Clusters/Pathways encompass both secondary and postsecondary education and will strengthen and improve student transition from secondary to postsecondary education.
An Advanced Academic Pathway may be followed in any of these four content areas: ELA (English/Language Arts), mathematics, science or social studies. A student has completed an Advanced Academic Pathway in ELA, mathematics, science, or social studies when the criteria described below have been met.

EXPLANATION OF TERMS

CTAE Pathway
A series of 3 or 4 specified courses in a CTAE-approved pathway.

Advanced Academic Pathway
An Advanced Academic Pathway may be followed in any of these four content areas: ELA, mathematics, science or social studies. A student has completed an Advanced Academic Pathway in ELA, mathematics, science, or social studies when the criteria described in A (page 5) have been met.

Fine Arts Pathway
A Fine Arts Pathway may be followed in any of these five areas of study: visual arts, theater, dance, music, or journalism. A student has completed a Fine Arts Pathway when three courses, from those identified in the five accompanying attachments (B-Visual Arts, C-Theater, D-Dance, E-Music, F-Journalism), have been successfully completed in any one of the five areas.

World Language Pathway
A World Language Pathway may be followed in any of the world language areas included in the state list of approved courses. A student has completed a World Language Pathway when the criteria described have been met.
ADDITIONAL CAREER PATHWAYS

ADVANCED ACADEMIC PATHWAY IN ELA (ENGLISH/LANGUAGE ARTS) CRITERIA:

1. Student graduated, thereby completing 4 required credits in ELA, AND

2. Student’s course history in ELA (23 course codes) includes at least one AP* Course Code (23.043; 23.053; 23.065) or one IB* Course Code (23.06800; 23.06900; 23.06110; 23.06120; 23.06130) or one post secondary enrollment code in 23 that fulfills a core graduation requirement in ELA, AND

3. Student earned credits in two sequential courses in one world language.

ADVANCED ACADEMIC PATHWAY IN MATHEMATICS CRITERIA:

1. Student graduated, thereby completing 4 required credits in Mathematics, AND

2. Student's course history in Mathematics (27 course codes) includes at least one AP* Course Code (27.072; 27.073; 27.074) or one IB* Course Code (27.06120; 27.06130; 27.05220; 27.05240) or one post secondary enrollment code in 27 that fulfills a core graduation requirement in Mathematics, AND

3. Student earned credits in two sequential courses in one World Language.

ADVANCED ACADEMIC PATHWAY IN SCIENCE CRITERIA:

1. Student graduated, thereby completing 4 required credits in Science, AND

2. Student's course history in science (26 course codes and 40 course codes) includes at least one AP* Course Code (26.014; 26.062; 40.053; 40.083; 40.0841; 40.0842) or one IB* Course Code (26.01800; 26.01900; 26.06300; 40.08500; 40.08600) or one post secondary enrollment code in 26 or 40 that fulfills a core graduation requirement in Science, AND

3. Student earned credits in two sequential courses in one World Language.

ADVANCED ACADEMIC PATHWAY IN SOCIAL STUDIES CRITERIA:

1. Student graduated, thereby completing 3 required credits in Social Studies, AND

2. Student's course history in social studies (45 course codes) includes at least one AP* Course Code (45.016; 45.052; 45.053; 45.062 45.063; 45.077; 45.0811; 45.082; 45.084) or one IB* Course Code (45.01310; 45.01320; 45.01700; 45.017100; 45.06500; 45.06600; 45.07800; 45.07900; 45.08700; 45.08800; 45.08900) or one post secondary enrollment code in 45 that fulfills a core graduation requirement in Social Studies, AND

3. Student earned credits in two sequential courses in one World Language.

WORLD LANGUAGE PATHWAY GUIDELINES AND PATHWAY CRITERIA:

1. Student graduated, AND

2. Student’s course history in one world language in high school includes 3 distinct high school Course Codes OR includes at least 2 distinct Course Codes plus a third code reflecting an AP* course, where AP courses are offered (60.017, French; 60.077, Spanish; 60.078, Spanish Lit; 61.017, German; 61.047, Latin; 62.0196, Chinese; 63.039, Japanese); or a third code reflecting an IB* course, where courses are offered (French, 60.01120, 60.01130; Spanish, 60.07130, 60.07160; German, 61.01120, 61.01130; Latin, 61.04120, 61.04130; Chinese, 62.01900, 62.01910; Japanese, 62.03920, 62.03930; Arabic, 63.10700, 63.01800;) or one post secondary enrollment course code in the same World Language reflecting a third course at the college level.

* AP, IB and Dual Enrollment courses must have earned credit
Throughout this book, a school key system is used to indicate which programs, classes, and clubs are offered at each school. If the ▶️ is replaced with a ⚙️ this indicates the class is Industry Certified. See page 21 for additional information on Industry Certification.

### Alexander High School
- Companion Animal pathway
- Forestry/Wildlife System pathway
- Horticulture/Plant Science pathway

### Chapel Hill High School
- Audio Visual Career Buildings and Community Hero
- Audio/Video Technology and Film pathway

### Douglas County High School
- College & Career Institute

### Lithia Springs High School

### New Manchester High School

### College & Career Institute
## BUSINESS MANAGEMENT AND ADMINISTRATION

Careers with common knowledge and skills related to the preparation of students with computer skills for future college and career plans. Cluster skills mastered include planning, organizing, directing, and evaluating as well as owning and operating a successful business.

<table>
<thead>
<tr>
<th>Business and Technology Career Buildings and Community Hero</th>
<th>26</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business and Technology pathway</td>
<td>27</td>
</tr>
<tr>
<td>Entrepreneurship Career Buildings and Community Hero</td>
<td>28</td>
</tr>
<tr>
<td>Entrepreneurship pathway</td>
<td>29</td>
</tr>
<tr>
<td>Human Resources Management pathway</td>
<td>30</td>
</tr>
</tbody>
</table>

## EDUCATION & TRAINING

Careers with common knowledge and skills related to planning, managing, and providing education and training services as well as related learning support services.

<table>
<thead>
<tr>
<th>Education Career Buildings and Community Hero</th>
<th>31</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early Childhood Care and Education pathway</td>
<td>32</td>
</tr>
<tr>
<td>Teaching as a Profession pathway</td>
<td>33</td>
</tr>
</tbody>
</table>

## FINANCE

Careers with common knowledge and skills related money management, including planning, investing, and spending. Students gain career development skills for the finance world with opportunities that expand beyond basic business skills into financial literacy, banking, investing, insurance, and risk management.

<table>
<thead>
<tr>
<th>Business and Finance Career Buildings and Community Hero</th>
<th>34</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Accounting pathway</td>
<td>35</td>
</tr>
<tr>
<td>Business Accounting pathway</td>
<td>36</td>
</tr>
<tr>
<td>Financial Services pathway</td>
<td>37</td>
</tr>
<tr>
<td>Financial Technology (FINTECH) pathway</td>
<td>38</td>
</tr>
</tbody>
</table>

## GOVERNMENT AND PUBLIC ADMINISTRATION

Careers with common knowledge and skills related to planning and performing of government management and administrative functions at local, state, and federal levels. Careers are available in national security, foreign service, revenue, and regulations.

<table>
<thead>
<tr>
<th>Military Career Buildings and Community Hero</th>
<th>39</th>
</tr>
</thead>
<tbody>
<tr>
<td>JROTC - Army pathway</td>
<td>40</td>
</tr>
<tr>
<td>JROTC - Marines pathway</td>
<td>41</td>
</tr>
<tr>
<td>JROTC - Navy pathway</td>
<td>42</td>
</tr>
</tbody>
</table>
## SCHOOL KEY SYSTEM
Throughout this book, a school key system is used to indicate which programs, classes, and clubs are offered at each school. If the ● is replaced with ■ this indicates the class is Industry Certified. See page 21 for additional information on Industry Certification.

- Alexander High School
- Lithia Springs High School
- Chapel Hill High School
- New Manchester High School
- Douglas County High School
- College & Career Institute

## TABLE OF CONTENTS

### HEALTH SCIENCE
Careers with common knowledge and skills related to planning, managing, and providing services in therapeutics, diagnostics, health informatics, support areas, and biotechnology research and development.

<table>
<thead>
<tr>
<th>Health Science Career Buildings and Community Hero</th>
<th>43</th>
</tr>
</thead>
<tbody>
<tr>
<td>Therapeutic Services - Allied Health and Medicine pathway</td>
<td>44</td>
</tr>
<tr>
<td>Therapeutic Services - Emergency Medical Responder pathway</td>
<td>45</td>
</tr>
<tr>
<td>Therapeutic Services - Emergency Medical Technician pathway</td>
<td>46</td>
</tr>
<tr>
<td>Diagnostic Services - Phlebotomy pathway</td>
<td>47</td>
</tr>
<tr>
<td>Therapeutic Services - Sports Medicine pathway</td>
<td>48</td>
</tr>
</tbody>
</table>

### HOSPITALITY AND TOURISM
Careers with common knowledge and skills related to the management, marketing, and operations of restaurants, and other food services, lodging, attractions, recreation events, and travel related services.

<table>
<thead>
<tr>
<th>Sports and Entertainment Career Buildings and Community Hero</th>
<th>49</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sports and Entertainment Marketing pathway</td>
<td>50</td>
</tr>
<tr>
<td>Hospitality Career Buildings and Community Hero</td>
<td>51</td>
</tr>
<tr>
<td>Hospitality, Recreation and Tourism pathway</td>
<td>52</td>
</tr>
</tbody>
</table>

### HUMAN SERVICES
Careers with common knowledge and skills related to family and human needs such as nutrition and food science, counseling and mental health services, family and community services, personal care, and consumer services.

<table>
<thead>
<tr>
<th>Food and Nutrition Career Buildings and Community Hero</th>
<th>53</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nutrition and Food Services pathway</td>
<td>54</td>
</tr>
<tr>
<td>Personal Care Services - Cosmetology pathway</td>
<td>55</td>
</tr>
</tbody>
</table>

### INFORMATION TECHNOLOGY
Careers with common knowledge and skills related to the preparation for careers that create, use, modify, and engage technology skills. Graphics, multimedia animation, web design, game and application development, networking, and computer repair are all possibilities.

<table>
<thead>
<tr>
<th>Web and Digital Design Career Buildings and Community Hero</th>
<th>56</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web and Digital Design pathway</td>
<td>57</td>
</tr>
<tr>
<td>Computer Science pathway</td>
<td>58</td>
</tr>
<tr>
<td>Cybersecurity pathway</td>
<td>59</td>
</tr>
<tr>
<td>Game Design pathway</td>
<td>60</td>
</tr>
<tr>
<td>Programming pathway</td>
<td>61</td>
</tr>
</tbody>
</table>
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- College & Career Institute

### TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Careers with common knowledge and skills related to employment in emergency and fire services, legal services, protective services, and homeland security.</td>
<td></td>
</tr>
<tr>
<td>Law Enforcement Career Buildings and Community Hero</td>
<td>62</td>
</tr>
<tr>
<td>Law Enforcement Services pathway</td>
<td>63</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MARKETING</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Careers with common knowledge and skills related to the process of anticipating, managing, and satisfying consumers’ demand for products, services, and ideas. The Marketing career cluster generates the strategy that underlies advertising and promotional techniques, business communication, and business development.</td>
<td></td>
</tr>
<tr>
<td>Marketing Career Buildings and Community Hero</td>
<td>64</td>
</tr>
<tr>
<td>Marketing and Management pathway</td>
<td>65</td>
</tr>
<tr>
<td>Marketing Communications and Promotions pathway</td>
<td>66</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Careers with common knowledge and skills related to planning, managing, and providing scientific research and professional and technical services.</td>
<td></td>
</tr>
<tr>
<td>Engineering Career Buildings and Community Hero</td>
<td>67</td>
</tr>
<tr>
<td>Engineering and Technology pathway</td>
<td>68</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TRANSPORTATION, DISTRIBUTION &amp; LOGISTICS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Careers with common knowledge and skills related to planning, managing, and moving people, materials, and goods by road, pipeline, air, rail, and water, and also includes other related professional and technical support services.</td>
<td></td>
</tr>
<tr>
<td>Automobile Maintenance Light Repair pathway</td>
<td>69</td>
</tr>
<tr>
<td>Collision Repair pathway</td>
<td>70</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WORKFORCE READY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Employability skills are transferrable skills and key personal attributes which are highly valued by employers and essential for effective performance in the workplace.</td>
<td></td>
</tr>
<tr>
<td>Workforce Ready pathway</td>
<td>71</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPECIALTIES</th>
<th>72-80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual Enrollment</td>
<td>72-75</td>
</tr>
<tr>
<td>Douglas County College and Career Institute (CCI)</td>
<td>76-78</td>
</tr>
<tr>
<td>Work-Based Learning/Youth Apprenticeship</td>
<td>79-80</td>
</tr>
</tbody>
</table>
# Table of Contents

## Career and Technical Student Organizations

<table>
<thead>
<tr>
<th>Organization</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECA (Distributive Education Clubs of America)</td>
<td>82</td>
</tr>
<tr>
<td>FBLA (Future Business Leaders of America)</td>
<td>82</td>
</tr>
<tr>
<td>FCCLA (Family, Career, &amp; Community Leaders of America)</td>
<td>82</td>
</tr>
<tr>
<td>FFA (Future Farmers of America)</td>
<td>83</td>
</tr>
<tr>
<td>FIRST Robotics</td>
<td>83</td>
</tr>
<tr>
<td>HOSA (Future Health Professionals)</td>
<td>83</td>
</tr>
<tr>
<td>SkillsUSA (Champions at Work)</td>
<td>83</td>
</tr>
<tr>
<td>TSA (Technology Student Association)</td>
<td>83</td>
</tr>
</tbody>
</table>

## Academic and Honors, AP Classes

<table>
<thead>
<tr>
<th>Subject</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>84-87</td>
</tr>
<tr>
<td>Mathematics</td>
<td>88-90</td>
</tr>
<tr>
<td>Science</td>
<td>91-93</td>
</tr>
<tr>
<td>Social Studies</td>
<td>94-965</td>
</tr>
</tbody>
</table>

## Electives

<table>
<thead>
<tr>
<th>Subject</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>World Language</td>
<td>97-100</td>
</tr>
<tr>
<td>Physical Education</td>
<td>101-103</td>
</tr>
<tr>
<td>Fine Arts (all high schools except NMHS)</td>
<td>104-1109</td>
</tr>
</tbody>
</table>

## NMHS Magnet Fame Fine Arts Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVID</td>
<td>118</td>
</tr>
<tr>
<td>DCCHS International Baccalaureate Diploma Program</td>
<td>119-125</td>
</tr>
<tr>
<td>LSHS STEM Magnet Program</td>
<td>126-129</td>
</tr>
</tbody>
</table>

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DISCLAIMER: The information contained within this book is as accurate as possible at the time of publication. Classes offered at each high school can change due to scheduling and allotment conflicts.

This Career Pathways Planner is provided by the US DOE Carl Perkins Grant.
## Georgia’s Careers to 2028

The careers in this chart have it all!

### Skills and Abilities
- Advanced skills required
- Moderate skills required

### Work Activities
- Frequently found
- Occasionally found

HOT jobs have faster than state annual average job growth, above the state annual average wage, and have at least 400 annual openings.

<table>
<thead>
<tr>
<th>Doctoral or Professional Degree</th>
<th>Bachelor’s Degree</th>
<th>Master’s Degree</th>
<th>Work Activities</th>
<th>Occupational Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Specialties Teachers, Postbac</td>
<td>Accountants &amp; Auditors</td>
<td>Education Administrators, Elem &amp; Sec</td>
<td>Business Operations Specialists, All Other</td>
<td>$113,900</td>
</tr>
<tr>
<td>Pharmacists</td>
<td>Administrative Services Managers</td>
<td>Educational, Guidance, School, &amp; Voc Counselors</td>
<td>Civil Engineers</td>
<td>$113,200</td>
</tr>
<tr>
<td>Physical Therapists</td>
<td>Architectural &amp; Engineering Managers</td>
<td>Healthcare Social Workers</td>
<td>Clinical Lab Technologists &amp; Technicians</td>
<td>$82,300</td>
</tr>
<tr>
<td>Physicians &amp; Surgeons, All Other</td>
<td>Business Operations Specialists, All Other</td>
<td>Instructional Coordinators</td>
<td>Computer &amp; Information Systems Managers</td>
<td>$294,200</td>
</tr>
<tr>
<td>Master’s Degree</td>
<td>Nurse Practitioners</td>
<td>Physician Assistants</td>
<td>Computer Occupations, All Other</td>
<td>$91,200</td>
</tr>
<tr>
<td>Bachelor’s Degree</td>
<td>Elementary School Teachers, Excl Spec Ed</td>
<td>Engineers, All Other</td>
<td>Elementary School Teachers, Excl Spec Ed</td>
<td>$53,900</td>
</tr>
<tr>
<td>Financial Analysts</td>
<td>Financial Analysts</td>
<td>Engineers, All Other</td>
<td>Financial Analysts</td>
<td>$71,100</td>
</tr>
<tr>
<td>Financial Specialists, All Other</td>
<td>General &amp; Operations Managers</td>
<td>Human Resources Managers</td>
<td>Human Resources Specialists</td>
<td>$77,400</td>
</tr>
<tr>
<td>General &amp; Operations Managers</td>
<td>Industrial Engineers</td>
<td>Industrial Production Managers</td>
<td>Industrial Production Managers</td>
<td>$48,000</td>
</tr>
<tr>
<td>Human Resources Managers</td>
<td>Industrial Engineers</td>
<td>Kindergarten Teachers, Excl Spec Ed</td>
<td>Loan Officers</td>
<td>$136,200</td>
</tr>
<tr>
<td>Human Resources Specialists</td>
<td>Industrial Engineers</td>
<td>Loan Officers</td>
<td>Logistics</td>
<td>$86,000</td>
</tr>
<tr>
<td>Industrial Engineers</td>
<td>Kindergarten Teachers, Excl Spec Ed</td>
<td>Loan Officers</td>
<td>Management Analysts</td>
<td>$58,800</td>
</tr>
<tr>
<td>Industrial Production Managers</td>
<td>Loan Officers</td>
<td>Logistics</td>
<td>Market Research Analysts &amp; Marketing Spec</td>
<td>$89,300</td>
</tr>
<tr>
<td>Kindergarten Teachers, Excl Spec Ed</td>
<td>Loan Officers</td>
<td>Logistics</td>
<td>Market Research Analysts &amp; Marketing Spec</td>
<td>$19,700</td>
</tr>
<tr>
<td>Loan Officers</td>
<td>Logistics</td>
<td>Management Analysts</td>
<td>Management Analysts</td>
<td>$120,000</td>
</tr>
<tr>
<td>Logistics</td>
<td>Management Analysts</td>
<td>Market Research Analysts &amp; Marketing Spec</td>
<td>$57,100</td>
<td>570</td>
</tr>
<tr>
<td>Management Analysts</td>
<td>Market Research Analysts &amp; Marketing Spec</td>
<td>$82,200</td>
<td>2,450</td>
<td></td>
</tr>
<tr>
<td>Market Research Analysts &amp; Marketing Spec</td>
<td>Market Research Analysts &amp; Marketing Spec</td>
<td>$98,600</td>
<td>680</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Market Research Analysts &amp; Marketing Spec</td>
<td>$138,200</td>
<td>2,040</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Notes
- Fast job growth
- Above average wages
- At least 400 expected annual job openings

# Georgia’s Careers to 2028

The careers in this chart have it all!

<table>
<thead>
<tr>
<th>Skills and Abilities</th>
<th>Work Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>• advanced skills required</td>
<td>• frequently found</td>
</tr>
<tr>
<td>• moderate skills required</td>
<td>• occasionally found</td>
</tr>
</tbody>
</table>

**HOT** jobs have faster than state annual average job growth, above the state annual average wage, and have at least 400 annual openings.

<table>
<thead>
<tr>
<th>Bachelor’s degree continued</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketing Managers</td>
</tr>
<tr>
<td>Mechanical Engineers</td>
</tr>
<tr>
<td>Medical &amp; Health Services Managers</td>
</tr>
<tr>
<td>Meeting, Convention, &amp; Event Planners</td>
</tr>
<tr>
<td>Middle School Teachers, Except Special Education</td>
</tr>
<tr>
<td>Personal Financial Advisors</td>
</tr>
<tr>
<td>Producers &amp; Directors</td>
</tr>
<tr>
<td>Public Relations Specialists</td>
</tr>
<tr>
<td>Registered Nurses</td>
</tr>
<tr>
<td>Sales Managers</td>
</tr>
<tr>
<td>Secondary School Teachers, Except Special Education</td>
</tr>
<tr>
<td>Securities, Commodities, &amp; Financial Services Sales Agents</td>
</tr>
<tr>
<td>Social &amp; Community Service Managers</td>
</tr>
<tr>
<td>Software Developers, Applications</td>
</tr>
<tr>
<td>Training &amp; Development Specialists</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Associate’s degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Network Support Specialists</td>
</tr>
<tr>
<td>Dental Hygienists</td>
</tr>
<tr>
<td>Paralegals &amp; Legal Assistants</td>
</tr>
<tr>
<td>Physical Therapist Assistants</td>
</tr>
<tr>
<td>Radiologic Technologists</td>
</tr>
<tr>
<td>Respiratory Therapists</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Post-secondary non-degree award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telecom Equip Installers &amp; Repairers, Except Line Installers</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Some college, no degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer User Support Specialists</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High school diploma or equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food Service Managers</td>
</tr>
<tr>
<td>Industrial Machinery Mechanics</td>
</tr>
<tr>
<td>Insurance Sales Agents</td>
</tr>
<tr>
<td>Plumbers, Pipefitters, &amp; Steamfitters</td>
</tr>
<tr>
<td>Production, Planning, &amp; Expediting Clerks</td>
</tr>
<tr>
<td>Sales Reps, Services, All Other</td>
</tr>
<tr>
<td>Sales Reps, Wholesale &amp; Mfg, Except Technical &amp; Scientific Products</td>
</tr>
<tr>
<td>Supervisors of Transportation &amp; Material Moving, Except Aircraft Cargo</td>
</tr>
</tbody>
</table>

**Note:** This workforce product was funded by a grant awarded by the U.S. Department of Labor’s Employment and Training Administration. The product was created by the Georgia Department of Labor and does not necessarily reflect the official position of the U.S. Department of Labor. This product is copyrighted by the institution that created it. Internal use by an organization and/or personal use by an individual for non-commercial purposes is permissible. All other uses require the prior authorization of the copyright owner.

For more information, please contact Workforce Statistics & Economic Research at (404) 232-3875 • Fax (404) 232-3888 Email: Workforce_Info@gdol.ga.gov
# GEORGIA’S STEM Careers to 2028

Science | Technology | Engineering | Mathematics

## Knowledge
Understanding of principles and facts of subject matter
- **full knowledge required**
- **some knowledge required**

## Education
Typical education needed to enter an occupation

<table>
<thead>
<tr>
<th>Jobs have faster than state annual average job growth, above the state annual average wage, and have at least 400 annual openings.</th>
</tr>
</thead>
</table>

## Life and Physical Science, Engineering, Mathematics, and Information Technology Occupations

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Knowledge</th>
<th>Education</th>
<th>Occupational Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineers</td>
<td></td>
<td></td>
<td>$108,900 210</td>
</tr>
<tr>
<td>Biological Science Teachers, Postsec</td>
<td></td>
<td></td>
<td>$92,400 90</td>
</tr>
<tr>
<td>Civil Engineers</td>
<td></td>
<td></td>
<td>$77,400 860</td>
</tr>
<tr>
<td>Computer &amp; Information Systems Managers</td>
<td></td>
<td></td>
<td>$136,300 1,310</td>
</tr>
<tr>
<td>Computer Network Architects</td>
<td></td>
<td></td>
<td>$109,000 410</td>
</tr>
<tr>
<td>Computer Network Support Specialists</td>
<td></td>
<td></td>
<td>$67,600 650</td>
</tr>
<tr>
<td>Computer Occupations, All Other</td>
<td></td>
<td></td>
<td>$86,000 1,930</td>
</tr>
<tr>
<td>Computer Systems Analysts</td>
<td></td>
<td></td>
<td>$86,900 1,570</td>
</tr>
<tr>
<td>Computer User Support Specialists</td>
<td></td>
<td></td>
<td>$50,600 2,200</td>
</tr>
<tr>
<td>Database Administrators</td>
<td></td>
<td></td>
<td>$87,800 380</td>
</tr>
<tr>
<td>Electrical &amp; Electronics Engineering Techs</td>
<td></td>
<td></td>
<td>$63,100 360</td>
</tr>
<tr>
<td>Electrical Engineers</td>
<td></td>
<td></td>
<td>$83,800 350</td>
</tr>
<tr>
<td>Electronics Engineers, Ex Computer</td>
<td></td>
<td></td>
<td>$91,400 400</td>
</tr>
<tr>
<td>Engineers, All Other</td>
<td></td>
<td></td>
<td>$89,300 400</td>
</tr>
<tr>
<td>Industrial Engineers</td>
<td></td>
<td></td>
<td>$82,200 680</td>
</tr>
<tr>
<td>Information Security Analysts</td>
<td></td>
<td></td>
<td>$80,100 330</td>
</tr>
<tr>
<td>Life, Physical, &amp; Social Science Technicians, All Other</td>
<td></td>
<td></td>
<td>$50,300 290</td>
</tr>
<tr>
<td>Mechanical Engineers</td>
<td></td>
<td></td>
<td>$81,000 400</td>
</tr>
<tr>
<td>Medical Scientists, Ex Epidemiologists</td>
<td></td>
<td></td>
<td>$72,300 180</td>
</tr>
<tr>
<td>Network &amp; Computer Systems Administrators</td>
<td></td>
<td></td>
<td>$82,900 770</td>
</tr>
<tr>
<td>Operations Research Analysts</td>
<td></td>
<td></td>
<td>$66,200 330</td>
</tr>
<tr>
<td>Sales Engineers</td>
<td></td>
<td></td>
<td>$94,400 270</td>
</tr>
<tr>
<td>Sales Reps, Wholesale &amp; Mfg, Tech &amp; Scientific Products</td>
<td></td>
<td></td>
<td>$72,600 1,050</td>
</tr>
<tr>
<td>Software Developers, Applications</td>
<td></td>
<td></td>
<td>$100,400 2,980</td>
</tr>
<tr>
<td>Software Developers, Systems Software</td>
<td></td>
<td></td>
<td>$100,300 1,040</td>
</tr>
<tr>
<td>Statisticians</td>
<td></td>
<td></td>
<td>$88,500 130</td>
</tr>
<tr>
<td>Web Developers</td>
<td></td>
<td></td>
<td>$76,400 340</td>
</tr>
</tbody>
</table>

## Health Occupations

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Knowledge</th>
<th>Education</th>
<th>Occupational Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental Hygienists</td>
<td></td>
<td></td>
<td>$62,600 590</td>
</tr>
<tr>
<td>Diagnostic Medical Sonographers</td>
<td></td>
<td></td>
<td>$59,100 210</td>
</tr>
<tr>
<td>Dietitians &amp; Nutritionists</td>
<td></td>
<td></td>
<td>$52,000 200</td>
</tr>
<tr>
<td>Emergency Medical Techs &amp; Paramedics</td>
<td></td>
<td></td>
<td>$32,400 1,020</td>
</tr>
<tr>
<td>Health Specialists Teachers, Postsec</td>
<td></td>
<td></td>
<td>$113,900 710</td>
</tr>
<tr>
<td>Health Technologists &amp; Technicians, All Other</td>
<td></td>
<td></td>
<td>$44,800 330</td>
</tr>
</tbody>
</table>

---


Georgia Department of Labor, Workforce Statistics & Economic Research

Equal Opportunity Employer/Program • Auxiliary Aids and Services Available upon Request to Individuals with Disabilities
# GEORGIA’S STEM Careers to 2028

## Science | Technology | Engineering | Mathematics

<table>
<thead>
<tr>
<th>Knowledge</th>
<th>Education</th>
<th>Occupational Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understanding of principles and facts of subject matter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Full knowledge required</td>
<td>- Some knowledge required</td>
<td></td>
</tr>
</tbody>
</table>

### Jobs: 2023-2024

<table>
<thead>
<tr>
<th>2023-2024 DCSS CAREER PLANNER</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Digital twain drive</td>
<td>- S.M. to S.T.</td>
</tr>
<tr>
<td>- Graphic arts</td>
<td>- Information technology</td>
</tr>
<tr>
<td>- Internet</td>
<td>- Multimedia</td>
</tr>
<tr>
<td>- Photography</td>
<td>- Programming</td>
</tr>
<tr>
<td>- Printing</td>
<td>- Technology</td>
</tr>
<tr>
<td>- Software</td>
<td>- Visual arts</td>
</tr>
</tbody>
</table>

### Education

- Typical education needed to enter an occupation

### Jobs:

- Jobs that are faster than state annual average job growths, above the state annual average wage, and have at least 400 annual openings.

#### Health Occupations Continued

<table>
<thead>
<tr>
<th>Internists, General</th>
<th>License Practical &amp; Licensed Vocational Nurses</th>
<th>Medical &amp; Health Services Managers</th>
<th>Med Records &amp; Health Information Techs</th>
<th>Nurse Practitioners</th>
<th>Nurse Instructors &amp; Teachers, Postsec</th>
<th>Occupational Therapists</th>
<th>Ophthalmic Medical Technicians</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Architecture Occupations

<table>
<thead>
<tr>
<th>Architects, Exc Landscape &amp; Naval</th>
<th>Architectural &amp; Civil Drafters</th>
<th>Architectural &amp; Engineering Managers</th>
<th>Landscape Architects</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Social Science Occupations

<table>
<thead>
<tr>
<th>Clinical, Counseling, &amp; School Psychologists</th>
<th>Economics Teachers, Postsec</th>
<th>Political Science Teachers, Postsec</th>
<th>Psychology Teachers, Postsec</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Other Occupations

<table>
<thead>
<tr>
<th>Social Science Research Assistants</th>
<th>Social Scientists &amp; Related Workers, All Other</th>
<th>Urban &amp; Regional Planners</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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For more information, contact Workforce Statistics & Economic Research (WS&R) at (404) 232-3875 or at workforce_info@gdol.ga.gov
Navigating the Journey from 8th grade to High School

Who should attend high school registration?
All eighth grade STUDENTS and their PARENTS should attend registration at their designated high school.
If the parent is unable to attend, another (adult) family member/designee should attend with the student.

How do I know where to go for high school registration?
A student’s high school placement is based on the address (and associated residency information) on file at the middle school or acceptance in a specific high school program.
Current DCSS high school programs are:
Alexander High School AP Capstone
Chapel Hill High School AP Magnet
Douglas County High School IB
Lithia Springs High School STEM
New Manchester High School FAME
College and Career Institute (CCI) Located at West Georgia Technical College

What is the purpose of attending high school registration?
Both the parent and the student will have an opportunity to gain information and have questions answered regarding course recommendations from the middle school.

What do I need to do to prepare for high school registration?
Download the Career Planner from the Douglas County School System website (www.douglas.k12.ga.us), save, and review the Career Planner prior to attending high school registration.

How do I prepare for a successful transition before school starts in August?
Attend the Freshman Expo on Thursday, March 23, 2023 (usually about 6-8 pm).
Check your high school website for updates during the month of July.
Check your mail for any information your high school may send during the summer.
Attend any Freshman Orientation activities before school starts.

How are courses chosen for students?
Academic and Elective courses can be taken at your high school, the CCI (College and Career Institute), college or technical school.

Academic Courses include English, Math, Science, and Social Studies. Course recommendations will be made by middle school teachers based on each student’s current class performance, last year’s standardized test scores and any high school rubric/minimum requirements. World Language is an academic elective. Students who have successfully completed World Language in DCSS in 7th and 8th grades have the opportunity to take French II or Spanish II in 9th grade.

Elective Courses are similar to middle school connection classes which include Physical Education and Fine Arts.

CCI (Douglas County College and Career Institute) Classes taken at the CCI, college or technical school require a separate application process. Parents and students must work with the high school counselor to facilitate the process for any courses taken. Applications are available from your middle school counselor.
# INFORMATION FOR STUDENTS ENTERING HIGH SCHOOL

## 23 TOTAL NUMBER OF CREDITS REQUIRED FOR GRADUATION

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 credits</td>
</tr>
<tr>
<td>- 1 credit 9th Grade Literature</td>
<td></td>
</tr>
<tr>
<td>- 1 credit American Literature</td>
<td></td>
</tr>
<tr>
<td>- 2 additional Literature classes</td>
<td></td>
</tr>
<tr>
<td>Math</td>
<td>4 credits</td>
</tr>
<tr>
<td>- 1 credit Algebra</td>
<td></td>
</tr>
<tr>
<td>- 1 credit Geometry</td>
<td></td>
</tr>
<tr>
<td>- 1 credit Algebra II</td>
<td></td>
</tr>
<tr>
<td>- 1 additional Math credit</td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td>4 credits</td>
</tr>
<tr>
<td>- 1 credit Biology</td>
<td></td>
</tr>
<tr>
<td>- 1 credit Physical Science or Physics</td>
<td></td>
</tr>
<tr>
<td>- 1 credit Chemistry, Earth Systems, Environmental Science, or AP</td>
<td></td>
</tr>
<tr>
<td>- 1 Additional Science credit</td>
<td></td>
</tr>
<tr>
<td>Social Studies</td>
<td>4 credits</td>
</tr>
<tr>
<td>- 1 credit American Government</td>
<td></td>
</tr>
<tr>
<td>- 1 credit World History</td>
<td></td>
</tr>
<tr>
<td>- 1 credit United States History</td>
<td></td>
</tr>
<tr>
<td>- 1 credit Economics</td>
<td></td>
</tr>
<tr>
<td>CTAE, World Language or Fine Arts</td>
<td>3 credits</td>
</tr>
<tr>
<td>Health</td>
<td>.5 credit</td>
</tr>
<tr>
<td>Personal Fitness</td>
<td>.5 credit</td>
</tr>
<tr>
<td>Electives</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

* Board of Regents requires 2 years of the same World Language for ALL 4 year colleges and universities.

## PROMOTION REQUIREMENTS

<table>
<thead>
<tr>
<th>Grade Level</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th to 10th Grade</td>
<td>5 credits</td>
</tr>
<tr>
<td>10th to 11th Grade</td>
<td>11 credits</td>
</tr>
<tr>
<td>11th to 12th Grade</td>
<td>18 credits</td>
</tr>
</tbody>
</table>

## END-OF-COURSE 20% of grade

- Algebra I
- American Literature
- Biology
- US History

## HONORS/AP REQUIREMENTS

- Teacher Recommendation
- Signed Student/Parent Agreement
- Recommended Lexile of at least 1250

## BOARD SCHOLAR

- 2 units from the same World Language
- 1 extra core class from Math, Science, Social Studies, English, or World Language
- 3.5 cumulative GPA; No F’s
SEALS FOR DIPLOMAS

- **Fine Arts Seal** Complete 3 fine arts credits; 2 in the same area.
- **CTAE Cord** Complete CTAE pathway and pass End of Pathway Exam.
- **CTAE Diploma Seals** Complete a series of accomplishments as outlined and engage in activities, courses, and experiences that foster career readiness.
- **World Language Seal** Complete 3 units in the same World Language in high school.
- **Academic Seal** Complete 3 of any of the following: AP courses, college core Dual Enrollment courses, or technical college Dual Enrollment certification programs.
- **International Skills Diploma Seal** Coursework: 8 credits of courses with International focus 7 can be from World Languages (minimum 3 credits World Languages or ESOL). Community Service (20 hours) involving a global/cross cultural focus. Extracurricular activities and experience with global themes or context (minimum 4). Capstone Presentation on Knowledge gained in courses and activities listed above (Possible Format: performance, presentation, video, journal reading).
- **International Baccalaureate** Complete the two year IB program and graduate in good standing as an IB diploma candidate.
- **STEM Seal** Complete the requirements of the STEM program and graduate in good standing as a STEM diploma candidate.
- **Georgia’s New Seal of Biliteracy** The Seal of Biliteracy will be available for graduating high school students starting in 2016-17. On May 3, 2016, HB 879 was signed into law establishing Georgia’s Seal of Biliteracy. All Georgia public school students are eligible to attain the Seal based on evidence of achieving the required level of language proficiency in English plus one or more other languages during their high school years, be that language a native language, a heritage language, or a language learned in school or another setting.

The requirements are:

1. Completion of all English language arts requirements for graduation with an overall grade point average of 3.0 or above in those classes; and

2. Proficiency in one or more languages other than English, demonstrated by passing a foreign language advanced placement examination with a score of 4 or higher or an International Baccalaureate examination with a score of 5 or higher. For languages in which an Advanced Placement examination is not available, the Department of Education may provide a listing of equivalent summative examinations that local school systems may use in place of such an Advanced Placement examination.

PARTICIPATION IN GRADUATION CEREMONY

Complete all ‘GRADUATION COURSE REQUIREMENTS’ Please note that Georgia no longer requires passing an assessment in order to earn a diploma.

**HOPE** Academic rigor requirement has been added for more info, see HOPE Program section www.GAfutures.org

- **College Prep**
  - HOPE GPA; 3.0 in ALL core classes (E, M, Sc, SS, FL)
  - Covers 90% previous year’s tuition

- **Zell Miller Scholar Program**
  - HOPE GPA; 3.7 in ALL core classes (E, M, Sc, SS, FL)
  - 26 ACT or 1200 SAT (critical reading & math only)

**GEORGIA’S HOPE GRANT** (a separate program from the HOPE Scholarship) is available to Georgia residents who are working towards a certificate or diploma (continuing education programs are not eligible) at an eligible college or university in Georgia.

**NONTRADITIONAL PROGRAMS**

**Success Centers**
- Performance Learning Center (PLC)

**IMPORTANT WEB SITES**

- **College Board** www.collegeboard.com
- **ACT** www.act.org
- **Georgia Futures** www.GAfutures.org

**SCHOLARSHIPS AND GRANTS**

While in high school, you should be deciding on what you will do after graduating. If continuing your education is your plan, part of that plan will be how you’re going to pay for it. There are several scholarship and grant options available for you. Ask your counselor what your best options are. This should include HOPE and DCEF (Douglas County Education Foundation). DCEF manages several local scholarships offered to Douglas County School System graduating seniors. These local scholarships are based on financial need, GPA, participation in extracurricular activities, school organizations, and community service. Over $126,000 has been awarded through DCEF since 1993. Visit DCEF’s website dcef.dcssga.org for additional details including scholarships offered, qualifications and deadlines.

Douglas County
EDUCATION FOUNDATION
www.DCEF.DCSSGA.org
The following courses are typically considered Career, Technical, Agricultural Education (CTAE) Courses. The State Department of Education along with the University System of Georgia have determined that these courses may also be used to fulfill certain graduation and college admission requirements. If you have any questions, please talk with your student's high school counselor.

<table>
<thead>
<tr>
<th>COURSE NAME</th>
<th>Counts as 4th Science for Graduation</th>
<th>Counts as 4th Science to a 4 yr. College</th>
<th>Counts as 4th Math for Graduation</th>
<th>World Language Credit for Graduation Electives ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Science/Technology/Biotechnology</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Essentials of Healthcare</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food for Life</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food Science</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forest Science</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Horticulture and Plant Science</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Resources Management</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plant Science and Biotechnology</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sports Medicine</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Advanced Placement Computer Science</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Advanced Placement Computer Science Principles</td>
<td>X</td>
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</tr>
<tr>
<td>* Computer Science Principles</td>
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</tr>
<tr>
<td>* Embedded Computing</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
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<tr>
<td>* Game Design: Animation and Simulation</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>* International Baccalaureate Computer Science, Year One</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>* International Baccalaureate Computer Science, Year Two</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>* Programming, Games, Apps and Society</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>* Web Development</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tr>
</tbody>
</table>

* Two computer science sequenced courses will satisfy the two year foreign language requirement for graduation electives but may not be accepted for foreign language credit by the colleges and universities.

The following ARE approved by the Board of Regents as a fourth science.

- AP Physics 1 and AP Physics 2
- AP Physics C: Mechanics and AP Physics C: Electricity and Magnetism
- Biology I, Biology II and Advanced Placement Biology
- Forensic Science and Criminal Investigations (Law, Public Safety, Corrections and Security Pathway)
- International Baccalaureate Biology, Year One and Year Two (DCHS only)
- International Baccalaureate Chemistry, Year One and Year Two (DCHS only)
- International Baccalaureate Design Technology (DCHS only)

The following are a fourth science but NOT approved by the Board of Regents.

- Aviation Meteorology
- Biotechnology (AG-BT)
- Digital Electronics
- Scientific Research I or Scientific Research II

Certain CTAE courses have been identified by the State Department of Education as courses in which the standards of specific academic courses are also embedded. Since mastery of the standards in the CTAE course would also indicate mastery of the standards in the academic course, satisfactory completion of the CTAE courses will also earn credit for the student in the academic course. In short, the student earns two credits for one CTAE course. The following courses are included in this provision at this time:

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Essentials of Healthcare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Credits on your transcript</td>
<td>Essentials of Healthcare and Anatomy for a total of two credits</td>
</tr>
</tbody>
</table>
CTAE INDUSTRY CERTIFICATION
When a program becomes industry certified, it receives a “Stamp of Excellence”, which represents the apex of program quality. Only those programs that have successfully undergone rigorous reviews by leaders from business and industry are recognized with this distinction.

This formal process strengthens all program components, including:
- Classrooms and labs which are equipped with state-of-the-art equipment and technology
- CTAE and academic performance standards that are aligned to national standards
- In-depth, project-based instruction in all curriculum areas
- Appropriate and varied Career Related Education (CRE) instruction, including school-based enterprises and entrepreneurial ventures
- Career and Technical Student Organizations (CTSOs) which offer co-curricular competitive events on the local, state and national level and provide leadership development skills for personal and professional growth; and
- Business, industry and community involvement in all aspects of the program

Industry certified programs not only offer outstanding opportunities to students who receive instruction through such programs but they also offer positive benefits for schools as well as employers.

NONTRADITIONAL OCCUPATIONS
Nontraditional careers are those occupations or fields of work for which individuals from one gender comprise less than 25% of the individuals employed. Students are encouraged to enroll in courses that fit their career goals regardless of the gender make-up in the classroom. Some examples of nontraditional careers are:
- Nursing for males
- Drafting for females
- Cosmetology for males
- Automotive for females

CAREER PLANNING RESOURCES

www.GAfutures.org
GAfutures is an internet site to help students with high school, college and career planning, financial aid, and applying for college.

www.careeronestop.org
CareerOneStop, sponsored by the U.S. Department of Labor, provides opportunities for visitors to identify interests, explore careers, and find education options.

www.bls.gov/oco/
The Occupational Outlook Handbook is a nationally recognized source of career information. It describes what workers do on the job, working conditions, the training and education needed, earnings, and expected job prospects. The handbook covers a wide range of occupations.

www.Myplan.com
MyPlan.com is a career database which allows visitors to search, browse, or query through over 900 different careers, read career profiles, job descriptions, and educational requirements, and explore career outlooks.

YouScience.com
YouScience was created to help answer some of life’s biggest questions: “Why am I learning this?” and “What do I want to be when I grow up?” The innovative aptitude and career discovery tool and industry-recognized certifications have revolutionized the way students, educators, and employers view talent and possibility.
High School Career Pathways
2023-2024 OPTIONS

ALEXANDER HIGH SCHOOL
4950 Highway 20 W, Douglasville, GA 30135
770-651-6000
AHS.DCSSGA.org

Advanced Accounting
Allied Health & Medicine
Automobile Maintenance Light Repair
Business Accounting
Collision Repair
Companion Animals
Computer Science
Engineering & Technology
Financial Services
Forestry/Wildlife Systems
Horticulture/Plant Science
JROTC - Army
Law Enforcement
Marketing & Management
Nutrition & Food Science
Programming
Sports & Entertainment Marketing
Teaching as a Profession
Web & Digital Design

CHAPEL HILL HIGH SCHOOL
1811 Chapel Hill Road, Douglasville, GA 30135
770-651-6100
CHS.DCSSGA.org

Advanced Placement Magnet Program

DOUGLAS COUNTY HIGH SCHOOL
4950 Highway 20 W, Douglasville, GA 30135
770-651-6500
DCS.DCSSGA.org

Allied Health & Medicine
Computer Science
Early Childhood Care & Education
Emergency Medical Technician
Entrepreneurship
Hospitality, Recreation & Tourism
Human Resources Management
JROTC - Army
Marketing & Management
Nutrition & Food Services
Programming
Sports Medicine
Web & Digital Design

LITHIA SPRINGS HIGH SCHOOL
3230 East County Line Road, Lithia Springs, GA 30122
770-651-6700
LSHS.DCSSGA.org

Computer Science
Cybersecurity
Early Childhood Care & Education
Emergency Medical Responder
Emergency Medical Technician
Engineering & Technology
Entrepreneurship
Human Resources Management
JROTC - Marietta
Nutrition & Food Science
Sports & Entertainment Marketing
Sports Medicine
Web & Digital Design

NEW MANCHESTER HIGH SCHOOL
4950 Highway 20 W, Douglasville, GA 30135
770-651-2700
NMHS.DCSSGA.org

Allied Health & Medicine
Audio/Video Technology and Film
Automotive
Cosmetology
Criminal Justice
Cyber Security
Culinary Arts
Dental Assisting
Early Childhood Education
Financial Tech
Game Development
Marketing & Management
Nutrition & Food Science
Nurse Aide
Pharmacy
Welding

DOUGLAS COUNTY COLLEGE & CAREER INSTITUTE
Douglasville, GA 30135
770-947-7690
CCI.DCSSGA.org

Managing & Marketing
Public Relations & Communications
Web Design

DISCLAIMER: The information contained herein is as accurate as possible at the time of publication. Pathways offered at each high school can change due to scheduling and allotment conflicts.

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Companion animals are a large part of the animal care industry. Veterinary staff care for the well-being of animals by performing routine tasks under the supervision of veterinarians, scientists, and veterinary technologists and technicians. Animal care and service workers feed, water, groom, bathe, and exercise pets and other nonfarm animals.

Veterinary medicine has advanced considerably, and many of the veterinary services offered today are comparable to health care for humans, including cancer treatments and kidney transplants.

**Pathway Concentration Courses**
- Basic Agriculture Science
- Animal Science and Biotechnology
- Small Animal Care

**Recommended Courses**
- Biology
- Business Management
- Computer Applications
- Economics
- Environmental Science

**Post-Secondary Degrees, Diplomas, and Certificates**

**Technical Colleges**
- Associates in Science

**Colleges/Universities**
- Bachelor of Science, Agricultural Business
- Bachelor of Science, Agricultural Education
- Bachelor of Science, Animal Science
- Master and PHD in all areas

**Career and Technical Student Organizations**

**Top Career Choices**

**Nonfarm Animal Caretakers**
- High School Diploma
- $19,100 annual salary
- 160 annual average openings in Georgia

**Veterinarians**
- Professional Degree
- $76,600 annual salary
- 10 annual average openings in Georgia

**Veterinary Assistants**
- High School Diploma
- $21,700 annual salary

**Additional Career Choices**
- Agricultural Animals
- Agricultural Inspectors
- Agriculture Teachers
- Animal Breeders
- Animal Care and Service Workers
- Animal Scientists
- Biological Technicians
- Nonfarm Animal Caretakers
- Ranch Managers
- Veterinarians
- Veterinary Assistants
- Veterinary Technicians
Those working in the forestry and natural resources field conserve and manage our forest and natural resources. Those working in this field regularly work with landowners, loggers, forestry technicians and aides, farmers, ranchers, government officials, special interest groups, and the general public. Anyone interested in this field should enjoy working outdoors. The federal, state, and local governments employ many forestry and natural resources workers.

Pathway Concentration Courses
- Basic Agriculture
- Forest Science
- Wildlife Management

Recommended Courses
- Forestry Technology
- Natural Resources
- Wildlife Technology
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
An associate's or bachelor's degree in forestry is the minimum education recommended for a professional career in forestry. Forestry and natural resources technicians usually receive their training through a combination of community colleges and on-the-job training. Many states require licensure of professional foresters.

Career and Technical Student Organizations
- FFA

Top Career Choices
Jobs in Georgia will be available for qualified foresters at a slower than average rate; however, nationally the market will be seeking almost 2000 foresters between 2010-2020. Employment of conservation scientists is expected to increase 5 percent from 2010 to 2020, slower than the average for all occupations.

Additional Career Choices
- Aquacultural Managers
- Biological Science Postsecondary
- Conservation Scientists
- Fish and Game Officers
- Fish and Game Wardens
- Fisheries Manager
- Forest and Conservation Technicians
- Forest Manager
- Forest Worker
- Foresters
- Log Graders and Scalers
- Logger
- Logging Equipment Operators
- Natural Sciences Managers
- Park Naturalists
- Park Manager
- Range Managers
- Soil and Water Conservationists
- Teachers
- Wildlife Manager
- Zoologist and Wildlife Biologists
This course is designed as an introduction for the Horticulture/Plant Science Pathway Program of Study. The course introduces the major concepts of plant and horticulture science. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Pathway Concentration Courses
- Basic Agricultural Science
- General Horticulture and Plant Science
- Nursery and Landscape

Recommended Courses
- Biology
- Business Management
- Computer Applications
- Economics
- Environmental Science
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Associates in Science
Colleges/Universities
- Bachelor of Science, Agricultural Business
- Bachelor of Science, Agricultural Education
- Bachelor of Science, Plant Science
- Master and PhD in all areas

Career and Technical Student Organizations
- FFA

Top Career Choices

Interior-Scape Designers
- $65,000-$70,000 annual salary
- B.S. Degree or higher

Landscape Designers
- $42,000-$75,000 annual salary
- No degree required. B.S. recommended

Garden Center Owner/Operator
- Salaries vary based on scope of business
- No degree required.

Golf Course Manager/Athletic Field Manager
- $64,000-$84,000 annual salary
- Bachelors Degree

Additional Career Choices
- Chemical, Equipment, Plants or Seed Sales
- Commercial Landscape Designers
- Cooperative Extension Agent
- Farmer
- Fruit and Orchard Production
- Garden Writers
- Greenhouse
- Horticulture Teacher
- Irrigation System Design and Installation
- Landscape and Nursery
- Marketing for Gardens or Green Industry
- Orchard and Vegetable Farm
- Organic Vegetable Production
- Park Design and Maintenance
- Production Marketing
- Public and Private Garden Curators
- Public Gardens
- Public Relations
- Research Scientist or Plant Breeding
- Sod Production and Sales
- Wetland Reclamation
- Zoo or City Government Horticulturist
2023-2024 DCSS CAREER PLANNER

AUDIO VISUAL

ENTRY LEVEL CAREERS
- Production Assistant
- Editing Assistant
- Grip
- Electrician
- Set Construction
- Craft Services
- Extra
- Hair Assistant
- Makeup Assistant
- 2nd Assistant Camera

TECHNICAL CAREERS
- Screen Writer
- Production Coordinator
- 1st Assistant Editor
- 1st Assistant Director
- 2nd Assistant Director
- 2nd 2nd Director
- Camera op
- 1st Assistant Camera
- Script Supervisor
- Audio and Foley

PROFESSIONAL CAREERS
- Director
- Producer
- News Director
- Studio Manager
- Key Grip
- Gaffer
- Casting Director
- Armourer
- Prop Master
- Set Designer
- Editor

NMHS Spotlights JACOB BYERS

Freelance Videographer
JakeDuhShnake Visuals

Job Description
Direct, edit, and DP music videos around Atlanta. When working with clients, he takes an idea from treatment to online distribution. Collaborated with the likes of Duwop Kaine and T-Pain, for a combined 1.3 million views on YouTube.

High School
New Manchester High School
Pathway Completed for Broadcast Video and Film

First Job
Sales Lead at Best Buy
Pathway Concentration Courses
- Audio and Video Technology and Film I
- Audio and Video Technology and Film II
- Audio and Video Technology and Film III

Recommended Courses
- Introduction to Business and Technology
- Business Communications
- Digital Design
- Intro to Animation and 3D Design
- Marketing Principles
- Photography
- Visual Arts
- Work-Based Learning
- World Language
- Yearbook/Journalism

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Technical Studies
- Telecommunications Arts
Colleges/Universities
- Broadcast Design
- Journalism and Broadcasting
- Mass Communications
- Mass Media/Arts
- Public Relations
- Video/Digital

Career and Technical Student Organizations
- DECA
- FBLA
- SkillsUSA

Audio and Video Technology and Film is a class that teaches all aspects of video production from pre-production, production, and post-production, including theory and practical application. Students will have the opportunity to participate in various types of broadcast/video production from events and commercials to mini-movies and documentaries.

Top Career Choices
Audio and Video Equipment Technician
- Long-Term On-the-Job Training needed
- $40,498 annual salary
- 80 annual average openings in Georgia

Broadcast News Analyst
- Bachelor Degree needed
- $57,845 annual salary
- 20 annual average openings in Georgia

Broadcast Technician
- Associate Degree needed
- $35,443 annual salary
- 50 annual average openings in Georgia

Film/Video Editor and Camera Operators
- Bachelor Degree needed
- $58,210 annual salary
- 13% Growth Annually in Georgia

Additional Career Choices
- Audio-Video Operator
- Broadcast Field Supervisor
- Broadcast Technician
- Camera Operator
- Chief Engineer
- Control Room Technician
- Director
- Non-Linear Video Editor
- Radio and TV Announcer
- Reporter
- Sound Technician
- Station Manager
- Transmission Engineer
BUSINESS AND TECHNOLOGY PATHWAY

Pathway Concentration Courses
- Introduction to Business and Technology
- Business and Technology
- Business Communications

Recommended Courses
- Any business and computer science course
- Marketing Principles
- Work-Based Learning
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Administrative Support Assistant
- Business Administrative Assistant
- Business Administrative Technology
- Certification in Microsoft Applications (MOAC)
- Data Entry Clerk
- General Office Assistant
- Microsoft Excel Application User
- Microsoft Office Application Professional
- Microsoft Word Application Professional

Colleges/Universities
- Business
- Business Administration
- International Business

Career and Technical Student Organizations
- DECA
- FBLA
- SkillsUSA

Pathway of social, ethical, and human issues related to business and technology. Courses will provide an introduction to computer technology, decision making, productivity, communications, and problem-solving skills. Areas of instruction include integration of word processing, spreadsheet, database, and presentation software as well as the use of emerging technologies.

INDUSTRY CREDENTIAL
Microsoft Office Specialist Certification in Power Point

Top Career Choices
Administrative Services Manager
Bachelor Degree needed
$68,016 annual salary
420 annual average openings in Georgia

Executive Secretary and Administrative Assistant
Moderate On-the-Job Training needed
$37,378 annual salary
1,620 annual average openings in Georgia

Legal Secretary
Post-Secondary Vocational Award needed
$36,338 annual salary
270 annual average openings in Georgia

Medical Transcriptionist
Post-Secondary Vocational Award needed
$30,514 annual salary
130 annual average openings in Georgia

Additional Career Choices
Administrative Assistant
Communications Equipment Operator
Computer Operator
Court Reporter
Customer Service Assistant
Data Entry Specialist
Dispatcher
Executive Assistant
Human Resource Specialist
Information Assistant
Office Manager
Payroll Specialist
Receptionist
Shipping and Receiving Personnel
Word Processors
ENTREPRENEURSHIP

LSHS Spotlights DAVID TUCKER

**Pharmacist and Owner of Wyatt’s Pharmacy and Medical Equipment**

**Job Description:**
As a pharmacist, I make sure patients get the right medication at the right doses. Not only do we fill prescriptions, but we verify for accuracy in dosage, check for drug and health condition interactions, and counsel patients on their medicine and often times their health conditions. We also assist in helping patients choose the correct over the counter medications as well as helping them get the medical equipment and maternity supplies they need.
Pathway Concentration Courses
- Introduction to Business and Technology
- Legal Environment of Business
- Entrepreneurship

Recommended Courses
- Any business and technology course
- Marketing Principles
- Work-Based Learning
- World Language
- Yearbook/Journalism

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Business Office Technology
- Entrepreneurship
- Management and Supervisory Development
- Office Administration

Colleges/Universities
- Business
- Business Administration

Career and Technical Student Organizations
- DECA
- FBLA
- SkillsUSA

Entreprenuers, innovators, and small businesses play a key role in Georgia’s economy. Business professionals may be managers, owners, accountants, economists, administrators, or analysts. These individuals must possess excellent communication skills and be able to establish working relationships with many different people.

Top Career Choices

Advertising and Promotion Manager
- Bachelor Degree needed
- $76,898 annual salary
- 60 annual average openings in Georgia

Chief Executive Officer
- Bachelor Degree plus work experience needed
- $155,168 annual salary
- 850 annual average openings in Georgia

Employment, Recruitment, and Placement Specialist
- Bachelor Degree needed
- $50,877 annual salary
- 440 annual average openings in Georgia

Social and Community Service Manager
- Bachelor Degree needed
- $59,904 annual salary
- 100 annual average openings in Georgia

Training and Development Manager
- Bachelor Degree needed
- $79,498 annual salary
- 60 annual average openings in Georgia

Additional Career Choices
- Appraiser and Assessor of Real Estate
- Accountant and Auditor
- Administrator
- Bank Teller
- Business Educator
- Chief Executive Officer
- Claims Adjuster and Examiner
- Computer Support Specialist
- Computer Systems Analyst
- Cost Estimator
- Database Administrator
- Entrepreneur
- Financial Analyst and Manager
- Investigator
- Network Analyst
- Paralegal and Legal Assistant
- Personal Financial Advisor
- Sales Manager
- Tax Preparer
BUSINESS MANAGEMENT AND ADMINISTRATION

HUMAN RESOURCES MANAGEMENT PATHWAY

Students will analyze the primary functions of human resources management which include recruitment, selection, training, development, compensation, and evaluation. The pathway is designed to equip students with operational knowledge of hiring, managing, and terminating employees. Throughout the third course, students will be introduced to the Human Resource Management role by following the life cycle of an employee from organizational entry to exit. Upon mastery of the standards in this pathway, students should be prepared to pass an End of Pathway assessment in this career area.

Pathway Concentration Courses
- Introduction to Business and Technology
- Legal Environment of Business
- Human Resources Principles

Recommended Courses
Prerequisites: Introduction to Business and Legal Environment of Business
- Economics
- Entrepreneurship
- Human Resource Principles
- Intro to Business and Technology and Legal Environment of Business as Prerequisite
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
Business Management degree at most colleges and universities
- Certificate program
- Associate degree
- Bachelor’s degree
- Master’s degree
- Doctoral degree

Career and Technical Student Organizations
- FBLA

Top Career Choices
Training and Development Specialist
- Bachelor Degree needed
- $55,900 annual salary
- 400 annual average openings in Georgia

Human Resources Managers
- Bachelor Degree needed
- $101,300 annual salary
- 90 annual average openings in Georgia

Labor Relations Specialists
- Some College, no degree required
- $54,900 annual salary
- 400 annual average openings in Georgia

Additional Career Choices
- Compensation and Benefits Manager
- Employee Training Specialist
- Human Resources Assistant
- Human Resources Manager
- Human Resources Specialist
- Job Analysis Specialist
- Training and Development Manager

INDUSTRY CREDENTIAL
- PRH (Professional in HR)
- SPHR (Senior Professional in HR)
- GPHR (Global Professional in HR)

2023-2024 DCSS CAREER PLANNER

30
Educational services is the second largest industry which includes a variety of institutions that offer academic education or career and technical instruction. This includes elementary, middle and secondary schools, universities, colleges, professional schools, community or junior colleges and career and technical institutes. The overall demand for educational services will increase as a growing emphasis on improving education. Retirements will create large numbers of job openings.

Pathway Concentration Courses
- Early Childhood Education I
- Early Childhood Education II
- Early Childhood Education III
- Early Childhood Education Practicum (not offered at AHS)

Recommended Courses
- Any education course
- Psychology
- Work-Based Learning
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
- Georgia Highlands College - Douglasville Campus
  www.highlands.edu/areas-of-study/teacher-education-program
- West Georgia Technical College
  www.westgatech.edu/academics/ECCE/index.htm
- State University of West Georgia
  www.westga.edu/academics/education/
- Mercer University - Douglasville Campus
  https://education.mercer.edu/academic-programs/

Career and Technical Student Organizations
- FCCLA

Top Career Choices
- Elementary School Teacher
  Bachelor Degree needed
  $46,888 annual salary
  2,590 annual average openings in Georgia
- Kindergarten Teacher
  Bachelor Degree needed
  $45,969 annual salary
  330 annual average openings in Georgia
- Preschool Teacher
  Post-Secondary Vocational Training needed
  $24,419 annual salary
  500 annual average openings in Georgia
- Special Education Teacher Preschool, Kindergarten or Elementary
  Bachelor Degree needed
  $46,358 annual salary
  450 annual average openings in Georgia

Additional Career Choices
- After-School Program Supervisor
- Child Care Administrator
- Child Care Director and Owner
- Child Care Supervisor
- Child Life Specialist
- Education Administrator
- Educational and Teacher Aide
- High School Early Childhood Ed. Teacher
- Recreation Attendant
- University Instructor and Professor
Educational services is the second largest industry which includes a variety of institutions that offer academic education or career and technical instruction. This includes child care through colleges and universities. The overall demand for educational services will increase as a growing emphasis on improving education. Retirements will create large numbers of job openings.

Pathway Concentration Courses
- Examining the Teaching Profession
- Contemporary Issues in Education
- Teaching as a Profession Practicum

Recommended Courses
- Any education course
- Human Growth and Development
- Psychology
- Work-Based Learning
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
- Georgia Highlands College - Douglasville Campus
  www.highlands.edu/areas-of-study/teacher-education-program
- West Georgia Technical College
  www.westgatech.edu/academics/ECCE/index.htm
- State University of West Georgia
  www.westga.edu/academics/education/
- Mercer University - Douglasville Campus
  https://education.mercer.edu/academic-programs/

Career and Technical Student Organizations
- FCCLA

Top Career Choices
Elementary School Teacher
- Bachelor Degree needed
- $46,888 annual salary
- 2,590 annual average openings in Georgia

Kindergarten Teacher
- Bachelor Degree needed
- $45,969 annual salary
- 330 annual average openings in Georgia

Preschool Teacher
- Post-Secondary Vocational Training needed
- $24,419 annual salary
- 500 annual average openings in Georgia

Special Education Teacher Preschool, Kindergarten or Elementary
- Bachelor Degree needed
- $46,358 annual salary
- 450 annual average openings in Georgia

Additional Career Choices
- After-School Program Supervisor
- Child Care Administrator
- Child Care Director and Owner
- Child Care Supervisor
- Child Life Specialist
- Education Administrator
- Educational and Teacher Aide
- High School Early Childhood Ed. Teacher
- Recreation Attendant
- University Instructor and Professor
**ENTRY LEVEL CAREERS**
- Customer Service Rep
- Secretary
- Data Entry Clerk
- Administrative Assistant
- Bank Teller
- Accounting Clerk
- Mail Clerk
- Human Resources Assistant
- Branding Assistant
- Sales Representative

**TECHNICAL CAREERS**
- Customer Service Associate
- Assistant Store Manager
- Bank Teller
- Administrative Assistant
- Data Analyst
- Executive Assistant
- Real Estate Agent
- Bookkeeper
- Paralegal
- Insurance Agent

**PROFESSIONAL CAREERS**
- Accountant
- Financial Analyst
- Actuary
- Entrepreneur
- CEO
- Sales Manager
- CPA
- CFO
- Stock Broker
- Lawyer

**BUSINESS & FINANCE**

**AHS Spotlights CHAD DAVIS**

**Securities and Derivatives Analyst at Citi**

**Job Description**
Chad oversees $1.3 billion in assets for both domestic and international clients. He has worked on projects including paperless conversion, site relocates, and rewriting flow charts and procedures. He also works closely with internal technology partners on coding programs and automating processes.

**High School**
Alexander High School and FBLA officer.

**Career Training and College**
Valdosta State University - B.B.A. Economics University of Florida - Master of Urban and Regional Planning
These courses are designed to provide students with knowledge that can be applied in secondary education, the workplace, and in their personal lives. During times of financial crisis it is imperative that students learn the importance of sound financial decision-making.

Pathway Concentration Courses
- Introduction to Business and Technology
- Accounting I
- Accounting II

Recommended Courses
- Any business and computer science course
- Marketing Principles
- Work-Based Learning
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Accounting
- Banking and Finance
- Business Administration Technology
- Business Logistics
- Business Studies

Colleges/Universities
- Accounting
- Actuarial Sciences
- Business Administration
- Economics
- Finance

Career and Technical Student Organizations
- DECA
- FBLA
- SkillsUSA

Top Career Choices
Accountants and Auditors
- Bachelor Degree needed
- $54,330 annual salary
- 1,090 annual average openings in Georgia

Actuary
- Bachelor Degree needed
- $84,822 annual salary
- 30 annual average openings in Georgia

Financial Analyst
- Bachelor Degree needed
- $80,787 annual salary
- 210 annual average openings in Georgia

Securities/Commodities Sales
- Bachelor Degree needed
- $81,536 annual salary
- 100 annual average openings in Georgia

Additional Career Choices
- Bank Teller and Manager
- Cash Manager
- Chief Financial Officer
- Controller
- Corporate Finance Professional
- Credit Analyst
- Financial Counselor
- Financial Manager
- Insurance Agent and Broker
- Insurance Manager
- Investment Banker
- Loan Officer
- Personal Financial Advisor
- Personal Wealth Manager
- Real Estate Agents and Broker
- Stock Broker
Pathway Concentration Courses
- Introduction to Business and Technology
- Financial Literacy
- Principles of Accounting I

Recommended Courses
- Any business and computer science course
- Marketing Principles
- Work-Based Learning
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Accounting
- Medical Administrative Assistant
- Office Accounting Specialist

Colleges/Universities
- Accounting
- Business Education
- Business Management
- Economics
- Finance
- Marketing and Real Estate

Career and Technical Student Organizations
- DECA
- FBLA
- SkillsUSA

Top Career Choices
Accountants and Auditors
- Bachelor Degree needed
- $54,330 annual salary
- 1,090 annual average openings in Georgia

Bookkeeping/Accounting/Auditing Clerks
- Moderate-Term On-the-Job Training needed
- $29,619 annual salary
- 1,480 annual average openings in Georgia

Budget Analysts
- Bachelor Degree needed
- $58,698 annual salary
- 30 annual average openings in Georgia

Tax Examiner, Collector and Revenue Agent
- Bachelor Degree needed
- $43,909 annual salary
- 70 annual average openings in Georgia

Additional Career Choices
- Auditing Clerk
- Auditor
- Bookkeeper
- Budget Analyst
- Certified Public Accountant
- Corporate Accountant
- Entrepreneur
- FBI Agent
- Financial Advisor
- Financial Analyst
- Forensic Accountant
- Government Accountant
- Income Tax Professional
- Managerial Accountant
- Non-Profit Accountant
- Teacher

Strong growth in accounting jobs throughout the next decade is expected to occur due to the increased growth in the number of new businesses and stricter accounting and auditing regulations.
FINANCIAL SERVICES PATHWAY

Pathway Concentration Courses
- Introduction to Business and Technology
- Financial Literacy
- Banking, Investing and Insurance

Recommended Courses
- Accounting 1 and 2
- Business Foundation and Business Management
- Financial Management
- Marketing 1 and 2
- Personal Financial Literacy
- Personal and Business Law 1 and 2
- Web Design
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges, Colleges/Universities
- Financial Planning
- Business Administration-Financial Analysis
- Accounting
- Consumer and Family Financial Services
- Disaster Relief Insurance Claim Adjuster

Career and Technical Student Organizations
- DECA
- FBLA

Top Career Choices
Auditor
- Bachelor Degree needed
- $73,910 annual salary

Insurance Sales Agent
- 1-2 years Post-Secondary training needed
- $62,790 annual salary

Claims Adjuster
- Post-Secondary training plus on-the-job training needed
- $63,220 annual salary

Accountant
- Bachelor Degree needed
- $73,910 annual salary

Additional Career Choices
- Business Teacher
- Financial Project Specialist
- Financial Planner
- Research
- Sales and Service

This Pathway uses project based instruction to introduce students to the basics of the banking system, bank operating procedures, negotiable instruments, and the deposit and credit functions of banks. Methods used for measuring the financial performance of banks are analyzed. Current issues and future trends in banking are examined. Students explore the major functions of bank employees by completing a flow-of-work simulation. Students formulate business and individual investment decisions by comparing and contrasting a variety of investment options.
The FinTech pathway contains three courses modeled on those in the University System of Georgia (USG) degree program. The courses will be offered for dual high-school and college credit. Students may also take the remaining two required FinTech courses and core academic courses through dual enrollment, making it possible for a student to graduate high school with the USG associates degree program completed.

Pathway Concentration Courses
- Introduction to Financial Technology
- Financial Technologies and Services
- Coding for FinTech

Recommended Courses
- Introduction to Business and Technology
- Introduction to Digital Technology
- Financial Literacy
- Principles of Accounting I
- Computer Science Principles or AP Computer Science Principles
- Digital Design
- Embedded Computing

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges, Colleges/Universities
- Associates of Science
- Bachelor of Business
- Associates of Science in Financial Technology
- Bachelor of Business Administration in Logistics and Supply Chain Management
- Nexus degree in Supply Chain Management in Financial Technology

Career and Technical Student Organizations
- FBLA

Top Career Choices
- Account Manager ($62,832)
- Analytics Specialist ($33,000 - $60,000)
- Art Director ($76,758)
- Business Development Manager ($68,474)
- Business Systems Analyst ($148,766)
- Customer Service Rep ($35,510)
- Data Scientist ($118,327)
- Database Administrator ($86,818)
- Email Marketing Specialist ($52,927)
- Product Manager ($94,144)
- Senior NET Developer ($162,861)
- Software Engineer/Developer ($86,043)
- Salesforce Administrator ($88,344)

In partnership with Georgia Highlands College, Middle Georgia State University, and the Georgia Fintech Academy, CCI will offer a new dual enrollment pathway called Financial Technology (FinTech). This exciting opportunity capitalizes on Georgia’s role as an emerging leader in handling digital financial transactions in the financial services, commercial and investment banking, digital investing, financial advising, and insurance markets. In fact, seventy percent of all financial transactions worldwide pass through Georgia, and there is an immediate need for skilled employees, with around 5,000 new jobs per year being generated over the next 3 years.
ENTRY LEVEL CAREERS
- Auto Mechanic
- Police Officer
- Firefighter
- Supply Management
- Truck Driver
- Custodial Services
- Administrative Assistant
- Data Systems Operator
- Cook
- Armourer

TECHNICAL CAREERS
- Air Traffic Controller
- Russian Linguist
- Arabic Interpreter
- Paralegal
- Jet Engine Mechanic
- Weather Specialist
- Instructor/Teacher
- Drone Pilot
- Communications
- Electrician

PROFESSIONAL CAREERS
- Military Lawyer
- Jet Pilot
- Battalion Commander (CEO)
- Intelligence Officer (FBI)
- Combat Engineer
- Satellite Communications
- Counterintelligence Officer
- Cargo Pilot (FedEx)
- Weather Officer (Meteorologist)
- Substance Abuse Officer (Drug Counselor)

MILITARY

AHS Spotlights EVAN GORDON

I joined the JROTC program in the spring of 2008 and was instantly entranced by the atmosphere of discipline and the feeling of camaraderie I felt with my fellow cadets. A path of success was laid out, with one of my greatest accomplishments being taking home the Raiders state trophy in 2011. In 2012 I enlisted in the Army as a parachute infantryman serving in a specialized reconnaissance unit known as the LRS, attached to 10th Special Forces group and 7th Marine Raiders. I completed three tours overseas in locations including Korea, Germany, and the various regions of the Middle East. After this, I volunteered to become a Black Hat at the Air Assault School which ended my time in the Army. Desiring to continue a life of service, I decided to pursue a college education that would lead me to become a physician. Wishing to aim high, I applied and was accepted into Yale University. Currently I study Neuroscience and am preparing to apply to John Hopkins...
The program’s focus is reflected in its mission statement, “To Motivate Young People to be Better Citizens.” It prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. Army JROTC is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation.

Pathway Concentration Courses
- JROTC/ARMY I
- JROTC/ARMY II
- JROTC/ARMY III
- JROTC/ARMY IV
- JROTC/ARMY V
- JROTC/ARMY VI
- JROTC/ARMY VII
- JROTC/ARMY VIII

Recommended Courses
- Any CTAE course
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
- ROTC (Scholarships available to qualified students)
- Academy Nominations
- Armed Forces (Advanced Placement Enlistment Opportunities) Army, Air Force, Marines, Navy, Coast Guard
- Active Reserve and National Guard options available

Career and Technical Student Organizations
- Academic Team
- Color Guard
- Drill Team
- Leadership Team
- Raiders
- Rifle Team

Top Career Choices
Students enrolled in JROTC programs may find high-demand, high-wage, and high-skilled occupations in the public sector at www.occsupplydemand.org or if they plan on a career in the military they will find “Military Occupations” listed on GAfutures.org under the Career Planning Tab.

Additional Career Choices
- Air Traffic Controller
- Aircraft Repairer
- Animal Care Specialist
- Broadcast Specialist
- Cavalry Scout
- Chaplain
- Computer and Detection Repairer
- Construction Equipment Repairer
- Criminal Investigation Special Agent
- Dental Specialist
- Equipment Repairer
- Finance Officer
- Health Care Specialist
- Human Resource Specialist
- Information Technology Specialist
- Intelligence Analyst
- Interpreter and Translator
- Medical Laboratory Specialist
- Military Police Officer
- Missile Fire Control Operator
- Missile Fire Control Maintainer
- Multi Media Illustrator
- Signal Intelligence Analyst
- Special Forces
- Technical Engineer
- Transportation Management Coordinator
- Visual Information Equipment Operator
The program’s focus is reflected in its mission statement, “To Motivate Young People to be Better Citizens.” It prepares high school students for responsible leadership roles while making them aware of their rights, responsibilities, and privileges as American citizens. Marine JROTC is a stimulus for promoting graduation from high school, and it provides instruction and rewarding opportunities that will benefit the student, community, and nation.

Pathway Concentration Courses
- JROTC/Leadership Ed I
- JROTC/Leadership Ed II
- JROTC/Leadership Ed III
- JROTC/Leadership Ed IV

Recommended Courses
- Any CTAE course
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
- ROTC (Scholarships available to qualified students)
- Academy Nominations
- Armed Forces (Advanced Placement Enlistment Opportunities) Army, Air Force, Marines, Navy, Coast Guard
- Active Reserve and National Guard options available

Career and Technical Student Organizations
- Academic Team
- Color Guard
- Drill Team
- Raiders
- Rifle Team

Top Career Choices
Students enrolled in JROTC programs may find high-demand, high-wage, and high-skilled occupations in the public sector at www.occsupplydemand.org or if they plan on a career in the military they will find “Military Occupations” listed on GAfutures.org under the Career Planning Tab.

Additional Career Choices
- Administration
- Air Traffic Controller
- Aviation Ordinance
- Broadcast Specialist
- Computer
- Construction Equipment Repairer
- Criminal Investigation
- Engineering
- Equipment Repair
- Finance
- Flight Crew
- Human Resource
- Information Technology
- Intelligence
- Lawyer
- Military Police
- Missile Fire Control Operator
- Multi Media Illustrator
- Music
- Naval Aviation (Pilot)
- Photographer
- Supply Logistic
- Transportation Management
The NJROTC curriculum emphasizes citizenship and leadership development, as well as maritime heritage, the significance of sea power, and naval topics such as the fundamentals of naval operations, seamanship, navigation and meteorology. Classroom instruction is complimented throughout the year with community service projects, drill competition, field meets, flights, visits to naval activities, marksmanship training, and other military training.

Pathway Concentration Courses
- NJROTC I - Introduction to NJROTC/Cadet Field Manual
- NJROTC II - Maritime History/Nautical Science
- NJROTC III - Naval Knowledge/Naval Skills
- NJROTC IV - Naval Leadership/Global Awareness

Recommended Courses
- Any CTAE Course
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
- ROTC (Scholarships available to qualified students)
- Academy Nominations
- Armed Forces (Advanced Placement Enlistment Opportunities) Army, Air Force, Marines, Navy, Coast Guard
- Active Reserve and National Guard options available

Career and Technical Student Organizations
- Academic Team
- Athletic Team
- Drill Team
- Orienteering Team
- Rifle Team
- NJROTC Club
- Cyber Patriot Team

Top Career Choices
Students enrolled in JROTC programs may find high-demand, high-wage, and high-skilled occupations in the public sector at www.occsupplydemand.org or if they plan on a career in the military they will find “Military Occupations” listed on GAfutures.org under the Career Planning Tab.

Additional Career Choices
- Art and Photography
- Aviation
- Business Management
- Computer
- Construction and Building
- Education
- Electronics
- Emergency, Fire and Rescue
- Energy and Power
- Engineering
- Finance and Accounting
- Human Resource
- Information Technology
- Intelligence and Communication
- Law Enforcement and Security
- Legal
- Mechanical and Industrial
- Medical and Dental
- Music
- News and Media
- Office and Administrative Support
- Purchasing and Supply
- Religion
- Science
- Special Operations
- Telecommunications
- Transportation
TECHNICAL CAREERS
- Pharmacy Technician
- X-Ray Technician
- Coroner
- Licensed Practical Nurse
- Massage Therapist
- CNA
- Dental Assistant
- OR Assistant
- Ultrasound Technician
- Vet Technician

ENTRY LEVEL CAREERS
- Vet Technician
- Medical Records and Billing
- CNA
- Medical Assistant
- Patient Care Technician
- Phlebotomist
- Lifeguard
- Physical Therapy Technician
- EMT
- Home Health Aide

PROFESSIONAL CAREERS
- Registered Nurse
- Dentist
- Physician's Assistant
- Paramedic
- Urologist
- Chiropractor
- Veterinarian
- Pharmacist
- Medical Doctor
- Orthodontist

HEALTH SCIENCE

DCHS Spotlights DR. HOLLY KAPELLA, PT, DPT

Physical Therapist

Job Description: Evaluate and diagnose patients with problems that impact body movement, treat musculoskeletal, cardiopulmonary, neurological, lymphatic, and skin impairments. Treatment includes exercises and other modalities helping patients improve physical function and return to their daily activities by reducing pain, strengthening muscles, and retraining the body to work more effectively.

High School: Douglas County High School
Career/Training and College: Doctorate in Physical Therapy, Bachelor's of Science in Exercise and Sport Science, Certified in Dry Needling
First Job: Acute Care Physical Therapist
**Pathway Concentration Courses**
- Introduction to Healthcare Science
- Essentials of Healthcare (counts as 4th Science)
- Allied Health and Medicine

**Recommended Courses**
- Psychology
- Work-Based Learning
- World Language

**Post-Secondary Degrees, Diplomas, and Certificates**

**Technical Colleges**
- Clinical Lab Technology
- Dental Assisting or Hygiene
- Medical Assisting
- Nurse Aid
- Pharmacy Technology
- Practical Nursing
- Radiologic Technology
- Registered Nursing
- Surgical Technology

**Colleges/Universities**
- Dentist
- Nurse Practitioner
- Pharmacist
- Physical Therapist
- Physician
- Registered Nurse
- Surgeon

**Career and Technical Student Organizations**
- HOSA

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**Employment is projected to increase 18% through 2026 - more than in any other industry.** The healthcare industry offers jobs in a variety of establishments: hospitals, nursing and residential care facilities, physicians, dental, and other health practitioners offices, home health care services, outpatient care centers, ambulatory health care services and medical and diagnostic laboratories.

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**Top Career Choices**

**Dental Hygienist**
- Associate Degree needed
- $55,390 annual salary
- 280 annual average openings in Georgia

**Medical and Clinical Laboratory Technician**
- Associate Degree needed
- $30,846 annual salary
- 250 annual average openings in Georgia

**Pediatrician**
- First Professional needed
- $139,298 annual salary
- 70 annual average openings in Georgia

**Physical Therapist**
- Master Degree needed
- $65,042 annual salary
- 120 annual average openings in Georgia

**Surgical Technologist**
- Post-Secondary Vocational Training needed
- $32,157 annual salary
- 140 annual average openings in Georgia

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**Additional Career Choices**

- Athletic Trainer
- Audiologist
- Clinical Laboratory Technician
- Dental Hygienist
- EMT
- Medical Doctor
- Medical Laboratory Technician
- Occupational Therapist
- Orthopedic Technologist
- Paramedic
- Physical Therapist
- Radiologic Technologist
- Respiratory Therapist
- Surgical Technologist
- Veterinarian
The U.S. Bureau of Labor Statistics (BLS) predicts that employment of emergency medical technicians (EMTs) and paramedics will grow 7% between 2018 and 2028, which is faster than the average for all U.S. occupations (www.bls.gov). A growing aging population is expected to increase the likelihood of medical emergencies, thus increasing the need for EMTs and paramedics. Plus, emergency rooms are frequently overcrowded, which increases the amount of time that EMTs and paramedics must spend with each patient. This is also likely to increase the number of job positions.

Pathway Concentration Courses
- Introduction to Healthcare Science
- Essentials of Healthcare Science
- Emergency Medical Responder

Recommended Courses
- Human Anatomy/Physiology
- Physics
- Psychology
- Work-Based Learning
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Fire Science
- Firefighter EMT

Colleges/Universities
- See www.GAfutures.org for additional information.

Career and Technical Student Organizations
- HOSA
The U.S. Bureau of Labor Statistics (BLS) predicts that employment of emergency medical technicians (EMTs) and paramedics will grow 7% between 2018 and 2028, which is faster than the average for all U.S. occupations (www.bls.gov). A growing aging population is expected to increase the likelihood of medical emergencies, thus increasing the need for EMTs and paramedics. Plus, emergency rooms are frequently overcrowded, which increases the amount of time that EMTs and paramedics must spend with each patient. This is also likely to increase the number of job positions.

**Pathway Concentration Courses**
- Introduction to Healthcare Science
- Essentials of Healthcare (counts as 4th science)
- Emergency Medical Technician

**Post-Secondary Degrees, Diplomas, and Certificates**
Required state licensure from the Georgia Department of Public Health Office of Emergency Medical Services (dph.georgia.gov/EMS)

Required national certification from the National Registry of Emergency Medical Technicians (www.nremt.org)

**Top Career Choices**
Average annual salary for paramedics and EMTs was about $37,760 in May 2018. During the same month, the highest-paying states were Washington (average $67,600), the District of Columbia (average $57,270) and Hawaii (average $54,370), while the top-paying employers were state governments, with an average of $61,580.

**Additional Career Choices**
- Air Ambulances
- Clinics
- Colleges and Universities
- Critical Care Transport Units
- Fire Departments
- Hospital Ambulance Services
- Hospital Emergency Departments
- Law Enforcement Agencies
- Physician Practices
- Public and Private Ambulance Services
- Surgery Centers
**Pathway Concentration Courses**
- Introduction to Healthcare Science
- Essentials of Healthcare
- Diagnostics Phlebotomy

**Recommended Courses**
- Any Business and Computer Science Course
- Any Science Elective
- Any World Language
- Work-Based Learning

**Post-Secondary Degrees, Diplomas, and Certificates**
Training programs are often available at community colleges/technical schools coupled with clinical experience. Students must pass a certification exam

**Career and Technical Student Organizations**
- HOSA

**Top Career Choices**

**Phlebotomists**
- Bachelor Degree needed
- $46,891 annual salary
- 230 annual average openings in Georgia

**Cardiovascular Technologist and Technicians**
- Associate's Degree
- $51,600 annual salary

**Medical Lab Assistants**
- Associate's Degree
- $36,500 annual salary

**Skills**
- Good eye/ hand coordination, pleasant bedside manner, attention to detail
- Growth rate projected to be 27%, much faster than the average.

**Additional Career Choices**
- Information Nurse Specialists
- Medical Lab Assistants
- Nuclear Techs
- Patient Service Techs (PST)
- Physicians
- Phlebotomists
- Phlebotomy Supervisors
- Radiologic Technologists
- Registered Nurses
- Respiratory Technicians
- Other Related Health Science Occupations

*Phlebotomist draws blood for testing, verifies the patient’s identity, and enters patient information into a database. Persons going into phlebotomy must be comfortable with blood, needles, and test tubes. Work location typically is a hospital, lab, or blood bank setting.*
This pathway is devoted to musculoskeletal disorders that alter the functional ability of the patient. Employment in this pathway is available for persons interested in pursuing careers in the Sports Medicine/Rehabilitative Services industry. Careers in this industry focus on improvement of ability to perform life tasks through the combined use of physical training (exercise, movement, and modification of activities), medications, adaptive equipment, orthotics (braces), and prosthesis devices. Careers in rehabilitation focus on helping people return to independence and self-reliance.

**Pathway Concentration Courses**
- Introduction to Healthcare Science
- Essentials of Healthcare
- Sports Medicine

**Recommended Courses**
- Human Anatomy/Physiology
- Internships
- Physics
- Psychology
- Work-Based Learning
- World Language

**Post-Secondary Degrees, Diplomas, and Certificates**

**Technical Colleges**
- Dental Hygiene
- Orthopedic Technology
- Physical Therapist Assistant
- Radiologic Technology
- Surgical Technology

**Colleges/Universities**
- Doctor
- Dentist
- Nurse Practitioner
- Physical Therapist
- Registered Nurse
- Surgeon

**Career and Technical Student Organizations**
- HOSA

**Top Career Choices**

**Athletic Trainer**
- Bachelor Degree needed
- $35,917 annual salary
- 20 annual average openings in Georgia

**Occupational Therapist Aide**
- Short-Term On-the-Job Training needed
- $20,259 annual salary
- 10 annual average openings in Georgia

**Orthotist and Prosthetist**
- Bachelor Degree needed
- $35,464 annual salary
- 10 annual average openings in Georgia

**Physical Therapist**
- Doctorate Degree needed
- $65,042 annual salary
- 120 annual average openings in Georgia

**Physical Therapist Assistant**
- Associate Degree needed
- $40,830 annual salary
- 90 annual average openings in Georgia

**Additional Career Choices**
- Chiropractor
- Doctor of Osteopathic Medicine
- Doctor of Podiatric Medicine
- Massage Therapist
- Occupational Therapist
- Orthopedic Doctor
- Physical Therapy Assistant
- Physician’s Assistant
- Radiologist
- Radiologist Technician
SPORTS and ENTERTAINMENT MARKETING

LSHS Spotlights JEREMIAH CLARK

Sales Ops Manager, Analytics at Pinterest

Job Description

He runs analytics on the ads at Pinterest and helps expand ads into new international markets.

High School

Lithia Springs High School

College or University

The University of Georgia

Additional Career Training

Intermediate Python for Data Science

First Job

Product Analyst, Sales Effectiveness Operations at LinkedIn
**Pathway Concentration Courses**
- Marketing Principles
- Introduction to Sports and Entertainment Marketing
- Advanced Sports and Entertainment Marketing

**Recommended Courses**
- Advanced Marketing
- Any business and computer science course
- Entrepreneurship
- Work-Based Learning
- World Language

**Post-Secondary Degrees, Diplomas, and Certificates**

**Technical Colleges**
- Business Administration
- Executive Coaching
- Expert Sales Management
- Project Management
- Visual Merchandising

**Colleges/Universities**
- Accounting
- Advertising
- Bridal Consultant
- Business Economics
- Communication
- Graphic Arts
- Hospitality Administration
- Management
- Marketing
- Professional Sales
- Sport Management
- Travel/Tourism

**Career and Technical Student Organizations**
- DECA
- FBLA

**Entertainment related to film and TV, music, gaming, digital media, and sports marketing are huge in Georgia. In addition to basic knowledge and skills in management and entrepreneurship, students will apply their knowledge and skills in order to master the industry’s terminology, market arenas and venues, obtain sponsorships, maintain solid media relations, coordinate and manage campaigns and events, etc. This pathway culminates with an opportunity for students to take the MBA Research “A*S*K Marketing Concepts” end of pathway assessment or the NOCTI “Marketing Education Manager Trainee” end of pathway assessment.**

**Top Career Choices**

**Marketing Manager**
- Bachelor Degree needed
- $94,307 annual salary
- 310 annual average openings in Georgia

**Marketing Research Analyst**
- Bachelor Degree needed
- $61,464 annual salary
- 210 annual average openings in Georgia

**Public Relations Specialist**
- Bachelor Degree needed
- $48,672 annual salary
- 120 annual average openings in Georgia

**Recreation Worker**
- Short-Term On-the-Job-Training needed
- $21,570 annual salary
- 260 annual average openings in Georgia

**Additional Career Choices**
- Advertising Account Executive
- Agent
- Brand Manager
- Cashier
- Communications Specialist
- Customer Service Representative
- Demonstrator and Product Promoter
- Entertainment Marketer
- Entrepreneur
- Fashion Retailer
- Market Research Analyst
- Marketing Specialist
- Media Buyer
- Product Development Management
- Public Relations Specialist
- Purchaser
- Retail Buyer
- Retail Salesperson
- Sales
- Sales Representative
- Sign Maker
- Sports Marketer
- Website Designer
- Web Developer
- Webmaster
**Pathway Concentration Courses**
- Marketing Principles
- Hospitality, Recreation, and Tourism Essentials
- Hospitality, Recreation, and Tourism Management

**Recommended Courses**
- Any business or computer course
- Work-Based Learning
- World Language

**Post-Secondary Degrees, Diplomas, and Certificates**
- Communications
- Culinary Arts
- Hospitality Management
- International Tourism
- Marketing Management
- Meetings & Event Planning
- Sports Marketing

**Career and Technical Student Organizations**
- DECA
- FBLA
- FCCLA

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Georgia represents the 8th largest tourism economy in the country and the 2nd largest industry in Georgia. The Hospitality, Recreation and Tourism Industry consists of the following Lodging, Hotels and Resorts; Conventions, Meetings, Trade Shows and Events; Restaurants and Food Service; Recreation, Attractions, Sporting Events and Parks and Travel, including Air, Rail, Auto and Coach. Since the industry is primarily a service-oriented industry, workers will need good communication skills, and they will have to understand the importance of meeting the needs of individuals.

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**Top Career Choices**

- **Meeting, Convention, Events Planners**
  - High School and on the job training
  - $47,350 per year
  - 10% increase expected

- **Hotel and Lodging Managers**
  - Bachelor Degree needed
  - $51,840 per year

- **Restaurant Manager**
  - High School and on the job training
  - $50,820 per year

- **Travel Agent**
  - High School and on the job training
  - $36,460 per year

- **Public Relations**
  - Bachelors degree
  - $58,020 per year

**Additional Career Choices**
- Activities Director
- Brand Manager
- Catering Manager
- Communications Specialist
- Country Club Marketing and Management
- Cruise Director
- Customer Account Representative
- Economic Development Specialist
- Entertainment Marketer
- Entrepreneur
- Event Manager
- Golf Course Marketing and Management
- Hotel Management
- Insurance Agent
- International Tourism Management
- Parks and Recreation Management
- Real Estate Agent
- Recreation and Amusements Marketer
- Restaurant Management
- Sales Representative
- Social Media Marketer
- Sports and Entertainment Marketer
- Sports Marketing Management
- Tour Guide
- Tourism Director
- Travel Agent
- Travel Blogger and Video
- Travel Planner
- Wedding Planner
PROFESSIONAL CAREERS
- FACS Teacher
- Dietitian
- Hotel Manager
- Restaurant Manager
- Extension Agent
- Food Scientist
- Flavor Chemist
- Marketing
- Food Labeling Specialist
- Public Health Inspector

TECHNICAL CAREERS
- Licensed Practical Nurse
- Nutritionist
- Dental Assistant
- Medical Assistant
- Preschool Assistant Teacher
- Viticulturist
- Life Coach
- Chef
- Personal Trainer
- Sports Trainer
- Quality Controller

ENTRY LEVEL CAREERS
- Grocery Store Clerk
- Deli Clerk
- Bakery Assistant
- Food Prep Worker
- Vitamin Store Owner
- Servers (Restaurant)
- Communications Officer
- Consulting Dietitian
- Dietetic Technician
- E-Commerce Clerks
- Courtesy Clerks
- Paraprofessional (School)

FOOD & NUTRITION
NMHS Spotlight: MARK BLOSSOMGAME

Server
- Job Description: Greet and welcome every guest and ensure my tables have everything they need. I am committed to keeping my area and stations clean while providing a safe dining and workspace.

High School: New Manchester High School
College or University: None
ServSafe Food Handler
Pathway Concentration Courses
- Food, Nutrition, and Wellness
- Food for Life (counts as 4th Science)
- Food Science (counts as 4th Science)

Recommended Courses
- Any business and computer science course
- Any science elective
- Early Childhood Education I
- Work-Based Learning
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Culinary Arts
- Food and Beverage Management
- Food Production Assistant, Worker, or Apprentice
- Hotel/Restaurant/Tourism Management

Colleges/Universities
- Dietetics/Dietician
- FACS Education
- Food, Nutrition and Wellness Studies
- Food Science and Technology
- See www.GAfutures.org for additional information.

Employment in this field is expected to grow faster than average through 2014 as a result of the increasing emphasis on disease prevention through improved dietary habits. A growing and aging population will increase the demand for meals and nutritional counseling agencies in hospitals, residential care facilities, schools, prisons, community health programs, and home health care.

Top Career Choices

Chef and Head Cook
- Work experience needed
- $31,304 annual salary
- 110 annual average openings in Georgia

Dietician/Nutritionist
- Bachelor Degree needed
- $42,619 annual salary
- 80 annual average openings in Georgia

Food Scientist and Technologist
- Bachelor Degree needed
- $55,869 annual salary
- 10 annual average openings in Georgia

Food Services Manager
- Work experience needed
- $46,384 annual salary
- 400 annual average openings in Georgia

Health Education
- Master Degree needed
- $53,290 annual salary
- 90 annual average openings in Georgia

Additional Career Choices
- Agricultural Engineer
- Biochemist
- Chemical Technician
- Consumer Representative
- Dietetic Technician
- Family and Consumer Science Teacher
- Flavorist
- Food Inspector
- Food Service Manager
- Geriatric Food Designer
- Health Educator
- Health Inspector
- Microbiologist
- Product Evaluation Scientist
- Research and Development Specialist
- Sensory Scientist
- Teacher Educator
- Technical Writer
- Toxicologist

Career and Technical Student Organizations
- FCCLA
- SkillsUSA
Pathway Concentration Courses
- Introduction to Personal Care Services
- Cosmetology Services II
- Cosmetology Services III

Recommended Courses
- Advanced Cosmetology Services
- Chemistry
- Cosmetology Services - Core IV
- Internship I, II, III, IV, V
- Licensure and Employment Opportunities
- Science and Art of Makeup
- Science of Advanced Skincare
- Science of Cosmetology
- World Language

Top Career Choices
Salary ranges from $15,530 to $42,460 per year. In order to obtain a license in cosmetology, nail technology, or skin care in the state of Georgia, students must complete the requirements listed below. Please contact the Georgia State Board of Cosmetology for more information.

Requirements:
- COSMETOLOGIST: 1500 Hours, Apprenticeship 3000 Hours
- HAIR DESIGN: 1325 Hours, Apprenticeship 2650
- ESTHETICIAN: 1000 Hours, Apprenticeship 2000 Hours
- NAIL TECHNICIAN: 525 Hours, Apprenticeship 1050 Hours

Additional Career Choices
- Barber Stylist
- Chemical Texture Specialist
- Color Specialist Chemist
- Cosmetologist
- Cutting Specialist
- Editorial Specialist
- Esthetician
- Hair Color Specialist
- Hairstylist
- Make-up Artist
- Master Cosmetologist
- Nail Technicians
- Permanent Wave Technician
- Platform Artist
- Receptionist
- Salon Owner
- Shampoo Tech
- Wig Stylist

This pathway is formulated for students who desire to become licensed cosmetologists. All participating students are required by the Georgia State Board of Cosmetology to obtain a total of 1500 unit hours to be eligible for both the written and practical state test. Students benefit from the program because it allows the student the opportunity to obtain at least half of the required state board hours.
WEB & DIGITAL DESIGN

AHS Spotlights RAVEN ELLIS

A graduate of Alexander High School, I am currently a full-time college student at Georgia State University with a major in Film & Media and a minor in Entertainment Media Management. So far, I am in my junior year of college and have learned a lot about film history and techniques. In the upcoming semester, I have been selected to attend the Georgia Film Academy Program which is held at Pinewood Studios. This is where movies like Marvel’s Avengers Endgame, Ant-Man, Spiderman, and so much more have been filmed. In the past, I have shot and edited two music videos for aspiring artists. I have also made a promotional video for a professional speaker. I intend to graduate in the Spring of 2023. After graduating, I plan to work more in the film industry and hope to start my own film and photography company.
This pathway instructs students on the basics of designing a web page and leads to advanced web design and 3D animation. Web design can be found in every area of business and industry, as well as in individuals’ personal life. Students will have the opportunity to learn skills that will help them create web pages, gaming and other digital media features.

Pathway Concentration Courses
- Introduction to Software Technology
- Digital Design
- Web Design

Recommended Courses
- Any business and computer science course
- Broadcast/Video Production
- Introduction to Graphics and Design
- Marketing Principles
- World Language
- Yearbook/Journalism

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Computer Animation and Multimedia
- Computer Simulation
- Digital Media
- Internet Specialist - Web Site Design
- Printing and Graphics Technology
- Web Site Designer

Colleges/Universities
- Animation
- Computational Media
- Computer Science
- Graphic Designer

Career and Technical Student Organizations
- DECA
- FBLA
- SkillsUSA

Top Career Choices
- Computer Specialist
  - Associate Degree needed
  - $55,640 annual salary
  - 80 annual average openings in Georgia
- Graphic Designer
  - Bachelor Degree needed
  - $44,034 annual salary
  - 160 annual average openings in Georgia
- Multi-Media Artist and Animator
  - Bachelor Degree needed
  - $44,554 annual salary
  - 40 annual average openings in Georgia

Additional Career Choices
- Computer Service Technician
- Database Developer
- Graphic Designer
- Help Desk Support
- Illustrator
- Internet Specialist
- Multimedia Developer
- Network Analyst
- Network Engineer
- Programmer
- Project Manager
- Software Trainer
- Video Game Developer
- Web Developer
- Webmaster
- Website Designer
Careers in Computer Science lead individuals to create, modify, and test codes—all while inventing and designing new approaches to computing technology and finding innovative uses for existing technology. Career area focus requires solving complex problems in computing for business, medicine, science, and other fields.

**Pathway Concentration Courses**
- Introduction to Software Technology
- Computer Science Principles or AP Computer Science Principles (counts as 4th Science or 4th Math)
- AP Computer Science (counts as 4th Science or 4th Math)

**Recommended Courses**
- Any Advanced Math Course
- Any Business and Computer Science Course
- Entrepreneurship
- World Language

**Post-Secondary Degrees, Diplomas, and Certificates**

**Technical Colleges**
- Computer Engineering Technology
- Electromechanical Engineering Technology
- Telecommunications Engineering Technology
- Industrial Engineering Technology
- Electrical and Computer Engineering Technology
- Computer Engineering Technology
- Computer System Design Specialist
- Network Design Technology Specialist
- Network Specialist

**Colleges/Universities**
- Computer Systems Engineering
- BA with a Major in Applied Computer Science
- BS with a Major in Computer Science
- BS with a Major in Computer Game Design and Development

**Top Career Choices**
Employment of computer programmers is expected to increase 12 percent from 2010 to 2020, about as fast as the average for all occupations.

**Computer Programmers**
- Bachelor Degree needed
- $75,400 annual salary
- 230 annual average openings in Georgia

**Computer System Analysts**
- Bachelor Degree needed
- $73,800 annual salary
- 810 annual average openings in Georgia

**Software Developers, Application**
- Bachelor Degree needed
- $86,300 annual salary
- 340 annual average openings in Georgia

**Additional Career Choices**
- Computer Hardware Engineers
- Computer Info Systems Managers
- Computer Network Architects
- Computer Programmers
- Computer System Analysts
- Database Administrators
- Information Security Analysts
- Network Computer Systems Administrators
- Software Engineers
- Video Game Designers
The increased use of computers has created a high demand for specialists to provide advice to users, as well as for day-to-day administration, maintenance, and support of computer systems and networks. This pathway is designed to introduce students to the field of cybersecurity while examining best practices related to the management of security, ethics, trust, internal/external threats, cryptography, and wireless technologies. Computer-related jobs are generally high paying, and those working in the profession require a foundational knowledge of problem solving and logical thinking.

**Pathway Concentration Courses**
- Introduction to Software Technology
- Introduction to Cybersecurity
- Advanced Cybersecurity

**Recommended Courses**
- Any Advanced Math Course
- Any Business and Computer Science Course
- Any Engineering Course
- World Language

**Post-Secondary Degrees, Diplomas, and Certificates**
- Technical Colleges
  - Cybersecurity
  - Cyber Crime Specialist
  - Computer Support Specialist
- Colleges/Universities
  - Computer Support Specialist
  - Computer Science
  - Management Information Systems

**Career and Technical Student Organizations**
- FBLA
- TSA

**Top Career Choices**
- **Computer and Information Systems Managers**
  - Bachelor Degree needed
  - $134,679 annual salary
  - 333 annual average openings in Georgia
- **Computer Support Specialist**
  - Some College/No Degree Required
  - $44,700 annual salary
  - 830 annual average openings in Georgia
- **Network and Computer System Administrators**
  - Bachelor Degree needed
  - $83,734 annual salary
  - 246 annual average openings in Georgia

**Additional Career Choices**
- Administrative Support Workers Network
- Computer and Info Systems Managers
- Computer System Administrators
- Computer Network Support Specialist
- Computer Operators
- Computer User Support Specialist
- First-Line Supervisors of Office
Students completing this pathway will gain an understanding of the fundamental principles used at every stage of the game creation process. After establishing foundational knowledge, game genres and modes of play are explored in terms of the psychology of incentives, motivation to play, and social networking. Virtual characters and non-player characters are reviewed from concept drawing to 2D and 3D art, rigging, and animation. Level design, storytelling, and animation are added to develop a virtual world around the characters. Students taking this pathway are strongly encouraged to add an internship to their curriculum which will give them real world experience and an understanding of how the computer game industry works. Employment of game designers is expected to increase 8 percent from 2016 – 2026, about as fast as the average for all occupations, resulting in 6,200 jobs available nationwide.

Pathway Concentration Courses
- Intro to Software Technology
- Computer Science Principles or AP Computer Science Principles
- Game Design: Animation and Simulation

Recommended Courses
- Any Art Course
- Any Computer Science Course
- Any Mathematics Course
- Any Physics Course
- Student Internship

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Game Development
- Computer Information Systems
- Computer Programming
- Design and Media Production Technology
Colleges/Universities
- Computer Engineering
- Computer Science
- Management Information Systems

Career and Technical Student Organizations
- DECA
- FBLA
- SkillsUSA

Top Career Choices
Computer Game Designer
Bachelor Degree Required
$63,970 annual salary

Multimedia Artists and Animators
Bachelor Degree needed
$70,530 annual salary

Computer and Information Systems Managers
Bachelor Degree Required
$134,679 annual salary
333 annual average openings in Georgia

Additional Career Choices
Audio Engineer
Computer Programmer
Software Developer
Technology Support Specialist
Video Game Tester
The Programming pathway gives many opportunities to strengthen problem solving skills and provides needed skills in all disciplines.

Pathway Concentration Courses
- Introduction to Software Technology
- Computer Science Principles or AP Computer Science Principles
- Programming, Games, Apps, and Society

Recommended Courses
- Any business and computer science course
- Broadcast/Video Production
- Introduction to Engineering Drawing and Design
- Introduction to Graphics and Design
- Work-Based Learning
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Business Information Systems
- Computer Forensics
- Computer Information Systems
- Computer Programming
- Computer Software Engineering
- Computer Science
- Information Science
- Information Technology
- Mathematics

Colleges/Universities
- See www.GAfutures.org for additional information.

Career and Technical Student Organizations
- FBLA
- SkillsUSA

Top Career Choices

Computer Programmers
- Bachelor Degree needed
- $73,674 annual salary
- 330 annual average openings in Georgia

Computer Software Engineers
- Bachelor Degree needed
- $77,022 annual salary
- 730 annual average openings in Georgia

Computer System Analysts
- Bachelor Degree needed
- $74,443 annual salary
- 890 annual average openings in Georgia

Computing and Information Systems Managers
- Bachelor Degree plus experience needed
- $101,400 annual salary
- 530 annual average openings in Georgia

Additional Career Choices
- Actuaries
- Computer Scientist
- Computer Software Engineer
- Computer Systems Analyst
- Database Administrator
- Mathematician
This pathway is designed to provide students with career-focused educational opportunities in various public safety fields. Each course has elements which cover tactics, methods, and skills utilized in law enforcement and other public safety organizations. Students have opportunity to be involved with the Douglas County Sheriff’s Office Explorer Program.

Pathway Concentration Courses
- Introduction to Law, Public Safety, Corrections, and Security
- Criminal Justice Essentials
- Criminal Investigations

Recommended Courses
- Accounting
- Anatomy
- Any health care science course
- Forensics Science Elective
- Introduction to Business and Technology
- Legal Environment of Business
- Wildlife Management
- Work-Based Learning
- World Language

Program Completers Currently in Law Enforcement at
- Douglas County Sheriff’s Office
- Douglasville Police Department
- Georgia State Patrol
- Cherokee County Sheriff’s Office
- MARTA Police Department

Post-Secondary Degrees, Diplomas, and Certificates
- Technical Colleges
  - Criminal Justice Technology
  - Law Enforcement Technician
- Colleges/Universities
  - Criminal Justice
  - Criminology
  - Pre-law

Career and Technical Student Organizations
- SkillsUSA

Top Career Choices

Intership Opportunities
- Douglas County District Attorney’s Office

Corrections Officer
- Moderate-Term On-the-Job Training needed
- $27,498 annual salary
- 470 annual average openings in Georgia

Forensic Science Technician
- Associate Degree needed
- $35,818 annual salary
- 20 annual average openings in Georgia

Lawyer
- First Professional Degree needed
- $115,960 annual salary
- 460 annual average openings in Georgia

Police and Sheriff's Patrol Officer
- Long-Term On-the-Job Training needed
- $35,402 annual salary
- 910 annual average openings in Georgia

Additional Career Choices
- Attorney
- Bailiff
- Border Patrol
- Correctional Officer/Jailer
- Crime Scene Investigator
- Detective
- Dispatcher or Communications Officer
- Forest Ranger or Game Warden
- Judge
- Paralegal
- Parole Officer
- Police Officer
- Private Detective and Investigator
- Private Security Guard
- Probation Officer
- Sheriff's Deputy
- Special Agent
- State Trooper
**ENTRY LEVEL CAREERS**
- Sales Associate
- Public Relations Assistant
- Brand Ambassador
- Social Media Influencer
- Customer Relations Rep
- Social Media Assistant
- Marketing Assistant
- Retail Sales
- Call Center Coordinator
- Research Data Collector

**TECHNICAL CAREERS**
- Assistant Sales Manager
- Graphic Designer
- Digital Marketing Coordinator
- Marketing Research Assistant
- Assistant Buyer
- Assistant Manager
- Assistant Account Executive
- Retail Store Manager
- Visual Merchandising Coordinator
- Event Planner

**PROFESSIONAL CAREERS**
- Social Media Director
- Buyer
- Brand Manager
- Director of Public Relations
- Chief Marketing Officer
- Chief Executive Officer
- Professional Sales Director
- Creative Director
- Marketing Research Analyst
- Chief Financial Officer

**MARKETING**

**NMHS Spotlights JAQUALLA SHARPLEY**

**Entrepreneur**
**Community Manager**
for Toyota

**Job Description**
As a community manager, we pinpoint successful marketing strategies to launch social campaigns. On a daily basis, we are actively engaging on social media being the voice of Team Toyota, a sponsored collective of Olympic, Paralympic, and NASCAR athletes while tracking analytics for future engagement.

**High School**
Now Manchester High School

**College or University**
B.A. in Communications and Entertainment Media Management plus training in marketing strategies, PR techniques, and Digital Communications.

**First Job**
Best Buy
Students develop knowledge and skills in the foundational areas of marketing (economics, human relations and business basics) and the functional areas of marketing (product and service planning, marketing-information management, purchasing and pricing, selling and promotion, risk management, financing and distribution/logistics, as well as international marketing, management and entrepreneurship.

**Pathway Concentration Courses**
- Marketing Principles
- Marketing and Entrepreneurship
- Marketing Management

**Recommended Courses**
- Any business and computer science course
- Sports and Entertainment Marketing
- Work-Based Learning
- World Language

**Post-Secondary Degrees, Diplomas, and Certificates**
- Technical Colleges
  - Business Administration
  - Entrepreneurship
  - Expert Sales Management
  - Fashion Design and Marketing
  - Retail and Merchandising
- Colleges/Universities
  - Accounting
  - Advertising
  - Business Economics
  - Communication
  - Graphic Arts
  - Hospitality Administration
  - International Business
  - Management
  - Marketing
  - Professional Sales
  - Real Estate
  - Risk Management and Insurance

**Career and Technical Student Organizations**
- DECA
- FBLA

**Top Career Choices**

- **Chief Executive Officer**
  - Base annual salary $80,253-$253,036
  - National average annual salary $187,000

- **Global Marketing Manager**
  - Base annual salary $59,963-$144,916
  - National average annual salary $103,000

- **Content Marketing Director**
  - Base annual salary $54,506-$145,269
  - National average annual salary $92,000

- **Creative Director**
  - Base annual salary $44,426-$152,383
  - National average annual salary $85,000

**Additional Career Choices**
- Advertising Director
- Digital Marketing
- E-Commerce Marketing Director
- Finance Manager
- International Marketing Executive
- Public Relations Manager
- Sales Director
- Social Media Director
- Sports and Entertainment Agent
- Real-Estate Agent
- Retail Salesperson
- Telemarketer
Keen competition should be expected in these highly coveted jobs. Those working in the marketing communications and promotion field coordinate market research, market strategies, sales, advertising, promotion, pricing, product development and public relations activities. Job opportunities available in this field include advertising managers, account executives, creative directors, media directors, promotions managers, marketing managers, product development managers, market research managers, public relations managers and sales managers. These jobs are found in almost every industry, and the number of jobs available is expected to increase faster than average through 2020. College graduates with related experience, a high level of creativity and strong communication skills will have the best job opportunities. Technology is changing the way we communicate and promote goods and services with potential customers. As a result, the more computer related skills one can accumulate, the better his/her employment opportunities in this industry.

### Top Career Choices

#### Advertising and Promotions Manager
- Bachelor Degree needed
- $102,602 annual salary
- 71 annual average openings in Georgia

#### Public Relations Specialists
- Bachelor Degree needed
- $57,399 annual salary
- 112 annual average openings in Georgia

#### Market Research Analysts
- Bachelor Degree needed
- $66,503 annual salary
- 519 annual average openings in Georgia

### Additional Career Choices

- Advertising and Promotion Managers Search
- Business Teachers/Post-Secondary
- Green Marketers
- Marketing Managers
- Marketing Strategists
- Public Relations Specialists Advertising
- Sales Agents
- Sales Managers
- Sales Representatives

### Pathway Concentration Courses

- Marketing Principles
- Marketing and Entrepreneurship
- Marketing Management

### Recommended Courses

- Any business and computer science course
- Sports and Entertainment Marketing
- Work-Based Learning
- World Language

### Post-Secondary Degrees, Diplomas, and Certificates

#### Technical Colleges

- Business Administration
- Entrepreneurship
- Expert Sales Management
- Fashion Design and Marketing
- Retail and Merchandising

#### Colleges/Universities

- Accounting
- Advertising
- Business Economics
- Communication
- Graphic Arts
- Hospitality Administration
- International Business
- Management
- Marketing
- Professional Sales
- Real Estate
- Risk Management and Insurance

### Career and Technical Student Organizations

- DECA
- FBLA
ENTRY LEVEL CAREERS
- Machine Operators
- Drafting Technician
- Warehouse Manager

TECHNICAL CAREERS
- Machine Parts Design Technician
- Drafting & Drawing Engineer
- Quality Technician
- Machine Maintenance Technician
- Production Technician

PROFESSIONAL CAREERS
- Structural Engineer
- Design Engineer
- System Engineer
- Robotic Engineer
- Quality Manager
- Sales Engineer
- Project Manager
- Logistics Engineer
- Project Engineer
- System Integration Engineer
- Maintenance Engineer

ENGINEERING

LSHS Spotlights AUSTIN PETTIT

Electrical Engineering Intern
Georgia Tech Research Institute

Job Description: Perform electronics testing, simulations, and verification procedures on RF analog and digital circuits. Perform several programming tasks such as designing graphical user interfaces to evaluate microcontroller firmware and designing a software application to collect, process, and present data from high-voltage power monitors. Complete many administrative and documentation activities on manuals and technical documents.

High School: Lithia Springs High School
College or University: Kennesaw State University
First Job: Electrical Engineering Intern, Aerospace, Transportation, and Advanced Systems Lab at Georgia Tech Research Institute
The major focus of the IED course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB-learning challenges students to continually hone their interpersonal skills, creative abilities, and understanding of the design process. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.

Pathway Concentration Courses
- Foundations of Engineering and Technology
- Engineering Concepts
- Engineering Applications

Recommended Courses
- Algebra/Geometry
- Chemistry
- Environmental Science
- Physics
- Trigonometry
- World Language

Post-Secondary Degrees, Diplomas, and Certificates

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<td>Automotive</td>
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<th>Colleges Degrees</th>
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</tbody>
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Career and Technical Student Organizations
- FIRST Robotics
- Georgia Gravity Games
- SkillsUSA

Top Career Choices
- Biomedical $62,010 yearly
- Chemical $67,808 yearly
- Civil $58,763 yearly
- Computer $72,030 yearly
- Electrical $67,550 yearly
- Environmental $59,133 yearly
- Geological/Mining $60,327 yearly
- Hardware/Software $70,477 yearly
- Materials $68,358 yearly
- Mechanical $64,695 yearly

Additional Career Choices
- Aerospace
- Applications
- CAD Drafting
- Civil Engineer
- Cost Engineer
- Designer
- Industrial
- Machinist
- Manufacturing
- Network
- Nuclear
- Project
- Quality Control Inspector
- Systems
Pathway Concentration Courses
- Automotive Technology I
- Automotive Technology II
- Automotive Technology III

Recommended Courses
- Advanced Algebra/Trigonometry
- Engine Performance Concepts
- Entrepreneurship
- Heating Ventilation and Air Conditioning Concepts
- Introduction to Business and Technology
- Mathematics of Finance
- Physics
- Preventative Maintenance Inspection
- Work-Based Learning
- World Language

Post-Secondary Degrees, Diplomas, and Certificates
Technical Colleges
- Automotive Technology/Technician
- Welding
- ASE

Colleges/Universities
- Education
- Business Management
- Automotive Engineering

Career and Technical Student Organizations
- SkillsUSA

The auto mechanics of the past were self-taught, learning from local auto shops or dealerships. Employers are now hiring employees with good people skills and backgrounds in electronics, computers and communications, along with math and problem-solving skills. This program will teach “head skills” and “hand skills” to prepare the student for the world of automotive technology careers and to meet the needs of prospective employers.
The auto mechanics of the past were self-taught, learning from local auto shops or dealerships. Employers are now hiring employees with good people skills and backgrounds in electronics, computers and communications, along with math and problem-solving skills. This program will teach “head skills” and “hand skills” to prepare the student for the world of automotive technology careers and to meet the needs of prospective employers.

**Pathway Concentration Courses**
- Introduction to Collision Repair
- Painting and Refinishing I
- Painting and Refinishing II

**Recommended Courses**
- Advanced Algebra/Trigonometry
- IBT
- Computer Applications
- Engine Performance Concepts
- Marketing
- World Language
- Heating Ventilation and Air Conditioning Concepts
- Money Management
- Physics
- Preventative Maintenance Inspection
- Work-Based Learning

**Top Career Choices**

**Automotive Body and Related Repairers**
- Diploma, Industry Credential needed
- $49,637 annual salary
- 145 annual average openings in Georgia

**Automotive Master Mechanics**
- Postsecondary Credentials needed
- $38,189 annual salary
- 894 annual average openings in Georgia

**Automotive Specialty Technicians**
- Postsecondary Credentials needed
- $38,139 annual salary
- 894 annual average openings in Georgia

**Additional Career Choices**
- Automotive Glass
- Automotive Installers and Repairers
- Automotive Master Mechanics
- Automotive Specialty Technicians
- Automotive Technician

See www.GAFutures.org for additional information
WORKFORCE READY employability skills are transferrable skills and key personal attributes which are highly valued by employers and essential for effective performance in the workplace. Unlike professional or technical skills, these employability skills are generic in nature, rather than job-specific, and are common to all work roles and workplaces across all industry types. Employability skills are also often referred to as employment skills, soft skills, work-readiness skills or foundational skills. They often improve your performance, minimize errors and promote collaboration with your coworkers, enabling you to perform your role more effectively. Employers have high regard for employability skills because they are much harder to teach than job-specific skills. Some employable qualities come naturally, while others can be acquired through education, work or daily practice.

WORKFORCE READY is designed to provide you with heavy exposure to all aspects of workplace readiness and employability skills development through:

- Integration of course content into hands-on class activities as applications of the concepts; not to be treated as a unit or separate body of knowledge
- Project-based learning
- Frequent interaction with business & industry; community as subject matter experts, guest speakers, visits/tours, virtual industry tours, job shadowing, internships, work-based learning placements, and jobs.
- Earned credentials of value at the completion of course 3.

PATHWAY COURSES
Introduction to Career Competencies
Career Competencies
Advanced Career Competencies

CAREER CHOICES
All Careers

VALUE ADDED CREDENTIAL
The student, teacher, and parent may choose any “value added” credential(s) that will support student access post-secondary and/or employment:

- Employment
- ServSafe
- OSHA-10
- Microsoft Office Specialist
- CPR-First Aid
- ACCUPLACER/SAT/ACT program ready scores
- Any identified Technical Certificate of Credit
- Driver’s License or State ID card
- Certified Maintenance Employee (Goodwill)
- Certified Guest Service Professional (Goodwill)
- Customer Service and Sales Certification

Employability skills are transferrable skills and key personal attributes which are highly valued by employers and essential for effective performance in the workplace. Unlike professional or technical skills, these employability skills are generic in nature, rather than job-specific, and are common to all work roles and workplaces across all industry types. Employability skills are also often referred to as employment skills, soft skills, work-readiness skills or foundational skills. They often improve your performance, minimize errors and promote collaboration with your coworkers, enabling you to perform your role more effectively. Employers have high regard for employability skills because they are much harder to teach than job-specific skills. Some employable qualities come naturally, while others can be acquired through education, work or daily practice.
All students who wish to participate in Dual Enrollment must have an advisement conference with the school counselor EACH SEMESTER (fall, spring, and/or summer). The law requires the advisement session is to take place with the high school counselor, parent and student. It is the responsibility of the school counselor to abide by DCSS board policy and to discuss applicable information from the following topics with the student and parent/guardian in a Dual Enrollment conference.

DUAL ENROLLMENT FUNDING PROGRAM ELIGIBILITY, EFFECTIVE, SUMMER TERM 2020 (FY 2021).


Student Eligibility

- A student must be enrolled in and physically attending a participating eligible public or private high school in Georgia or an eligible participating home study program in Georgia.
- A student must be approved, by the participating high school or home study program at which he or she is enrolled, to participate in dual enrollment.
- Prior to participating in Dual Enrollment, as part of the application process, the student and student’s parent/guardian must complete the Student Participation Agreement (SPA).
- A student must have completed the admission process and been accepted and approved by the participating postsecondary institution.
- All postsecondary coursework must be completed prior to high school graduation or home study completion in order to receive Dual Enrollment credit and funding.

Grade Level Eligibility

11th & 12th Graders

- Eligible students may take any approved Dual Enrollment courses listed on the Course Directory, at an eligible participating postsecondary institution (USG, TCSG or private).

10th Graders

- Eligible students may enroll in approved Career, Technical and Agricultural Education (CTAE) courses listed on the Course Directory at a participating TCSG institution only.
- Eligible students who have a minimum SAT score of 1200 or minimum ACT composite score of 26 in a single national test administration, may enroll in any approved courses listed on the Course Directory at a TCSG, USG or private eligible participating postsecondary institution.

Note: GSFC must have the required test score(s) on file prior to the student completing the Dual Enrollment funding Application and the high school or home study approving courses.
DUAL ENROLLMENT

9th Graders
- Students in the 9th grade are not eligible to participate in the Dual Enrollment funding Program.

Public High School Students pursuing High School Graduation with Option B
- Public high school students, designated by their high school, pursuing High School Graduation Option B (SB2) as of Spring term 2020, may enroll in any approved Dual Enrollment courses at a TCSG, USG or private eligible participating postsecondary institution.
- Public high school students, designated by their high school, as pursuing High School Graduation Option B (SB2) starting Summer term 2020 or after are subject to the Funding Cap.

Course Retake & Withdrawals
- A student may not receive funding to repeat or retake a course.
- A student is no longer eligible to continue to receive program funding after withdrawing from Dual Enrollment course(s) two (2) times.

Funding Cap Eligibility
- The Dual Enrollment Funding Cap is 30 semester or 45 quarter hours.
- The Funding Cap is a hard cap based on hours paid by the Dual Enrollment funding program for terms of enrollment (as invoiced by the postsecondary institutions).
- The Funding Cap does not include dual credit coursework attempted and paid by other sources.
- The Dual Enrollment Funding Cap is 30 semester or 45 quarter hours for students who received Dual Enrollment funding for 18 semester or 27 quarter or less hours, through Spring term 2020.
- The Dual Enrollment Funding Cap for students who received Dual Enrollment funding for 19 semester or 29 quarter or more hours, through Spring term 2020, is extended for an additional 12 semester hours or 18 quarter hours of funding.
- Public high school students, designated by their high school, as pursuing High School Graduation Option B (SB2) starting Summer term 2020 or after are subject to the Funding Cap.
- Public high school students designated by their high school, as pursuing High School Graduation Option B (SB2) as of Spring term 2020, may continue to complete their pathway while participating in the Dual Enrollment funding program and are not subject to the Funding Cap.

- Dual Enrollment funding per term is a maximum of 15 semester or 12 quarter hours and a maximum of three semesters or four quarters per award year based on approved enrollment and available Funding Cap hours.

Upon reaching the 30 semester or 45 quarter hours program Funding Cap, a student may qualify for HOPE Grant Bridge and HOPE Career Grant funding or may choose to self-pay.

AWARD AMOUNTS
Funding and Award Amounts

Funding Cap
- The Dual Enrollment Funding Cap is 30 semester or 45 quarter hours.
- The Funding Cap is a hard cap based on hours paid by the Dual Enrollment funding program for terms of enrollment (as invoiced by the postsecondary institutions).
- The Funding Cap does not include dual credit coursework attempted and paid by other sources.

New Dual Enrollment funding Program Participants
- All first-time students effective Summer term 2020 and beyond are subject to the Dual Enrollment Program.

Previous Dual Enrollment funding Program Participants
- Students who received Dual Enrollment funding for 18 semester or 28 quarter or less hours, through Spring term 2020, are subject to the Funding Cap. For Summer Term 2020 and later, these students may receive funding for the remaining hours up to the Dual Enrollment Funding Cap of 30 semester or 45 quarter hours.
- Students who received Dual Enrollment funding for 19 semester or 29 quarter or more hours through Spring term 2020, Funding Cap is extended for an additional 12 semester hours or 18 quarter hours of funding.

Public High School Students Pursuing High School Graduation with Option B
- Public high school students deciding to pursue High School Graduation Option B (SB2) beginning Summer term 2020 or after have the Funding Cap.
- Public high school students designated by their high school, as pursuing High School Graduation Option B (SB2) as of Spring term 2020, may continue to complete their pathway while participating in the Dual Enrollment funding program and are not subject to the Funding Cap.
DUAL ENROLLMENT

Reaching the Funding Cap

• Once a Dual Enrollment student reaches the Funding Cap, a student may:
  • Self-Pay for college courses
    • The college may charge the student tuition, fees and books based on credit hours of enrollment not covered by Dual Enrollment funding.
  • If the student is enrolled in an eligible Career Grant certificate or diploma program at a TCSG institution, may qualify for HOPE and Career Grant Bridge funding.
    • HOPE Grant assist with the tuition. Student may have some tuition, fee and book costs. Check with the institution.
  • Upon reaching the Funding Cap, the Eligible Postsecondary Institution may charge Tuition and a prorated portion of the Mandatory Fees and book costs, based on credit hours not covered by Dual Enrollment funding.

Dual Enrollment funding is available up to the student’s high school graduation or home study completion date or the Funding Cap, whichever occurs first.

Public High School Students pursuing Graduation Option B

• If the student is enrolled in an eligible certificate or diploma program at a TCSG institution, may qualify for HOPE and Career Grant Bridge funding (depending upon the specific program of enrollment).
  • HOPE Grant assist with the tuition. Student may have some tuition, fee and book costs. Check with the institution.

Other Options

• Students choosing to enroll in course not on the Dual Enrollment Directory or not eligible for a course on the Directory due to grade level requirements may self-pay
  • The college may charge the student tuition, fees and books based on credit hours of enrollment as other students would be charged.

Award Amounts

Please review the Dual Enrollment Award Amounts to determine your award amount and contact your college’s financial aid office for details.

The specific Dual Enrollment award amount will vary based on the postsecondary institution and the number of credit hours in which a student is enrolled in approved Dual Enrollment courses.

Dual Enrollment Funding Awards

• The approved award rates to be paid for Tuition, Mandatory Fees and Book costs are annually published and subject to change each year.
  • The award is available for the per term maximum of 15 semester or 12 quarter hours and a maximum of three semesters or four quarters per award year depending upon the student’s eligibility.
  • Postsecondary institutions must waive all mandatory and non-course related fees and cannot charge eligible high school students participating in the Dual Enrollment program additional tuition, mandatory fees or book costs for courses approved for Dual Enrollment funding.
  • Institutions must provide required textbooks at no cost to participating students for courses approved for Dual Enrollment funding. If the course textbook and/or course homework delivery method is provided online or online materials are used in lieu of a physical textbook, the institution must provide the access code at no cost to the student for courses approved for Dual Enrollment funding.

Student Responsibility

• The postsecondary institution may charge a Dual Enrollment recipient a fine for a lost or damaged book which was loaned to the student, up to $75 or the cost of the book minus the book allowance, whichever is less.
  • If the student chooses to enroll in courses not covered by Dual Enrollment funding, the postsecondary institution may change the student for tuition, books and fees as other students are charged.
  • Upon reaching the Funding Cap, the Eligible Postsecondary Institution may charge Tuition and a prorated portion of the Mandatory Fees and book costs, based on credit hours not covered by Dual Enrollment funding.

DUAL ENROLLMENT FUNDING PROGRAM

Funding Cap and Option B (SB2)
https://www.gafutures.org/media/188194/funding-cap-option-b-sb2-1-pager.pdf

High School Graduation Option B (SB2) is available to Georgia public high school students (O.C.G.A. 20-2-149.2). Per HB 444 of 2020, high school students designated as pursuing a high school diploma by High School Graduation Option B (SB2) as of Spring term 2020, and received Dual Enrollment funding as an Option B (SB2) student, may continue in the Dual Enrollment funding program, while enrolled in approved courses selected from the Dual Enrollment Course Directory, and are not subject to the Funding Cap.
Effective Summer term 2020 and later, all new public high school students pursuing High School Graduation Option B (SB2) are subject to the 30 semester or 45 quarter hour Dual Enrollment Funding Cap.

Once new Option B students have reached the Funding Cap, they may qualify for the HOPE Grant and Career Grant if attending a HOPE Grant participating eligible TCSG or USG institution (list on the back) and enrolled in a HOPE Grant technical diploma or certificate program. These students must complete the Dual Enrollment application and the postsecondary institution must determine eligibility. HOPE Grant Hours do count in HOPE Combined Paid Hours, thereby affecting HOPE Scholarship hours after high school graduation. For more information visit GAfutures.org.

O.C.G.A 20-2-149.2

(a) A local board of education may award a high school diploma to a student enrolled in coursework pursuant to Code Section 20-2-161.3 who:

(1) Completes rigorous coursework at a postsecondary institution which meets the requirements in paragraph (7) of Code Section 20-3-519;

(2) Has completed at least the following state required ninth and tenth grade level high school courses: two English courses, two mathematics courses, two science courses, two social studies courses, and one health and physical education course; and any state required tests associated with any such courses;

(3) Receives a score of admission acceptable on the readiness assessment required by the postsecondary institution; and

(4) Completes: (i) an associate degree program; (ii) a technical college diploma program and all postsecondary academic education and technical education and training prerequisites for any state, national, or industry occupational certifications or licenses required to work in the field; or (iii) at least two technical college certificate of credit programs in one specific career pathway and all postsecondary academic education and technical education and training prerequisites for any state, national, or industry occupational certifications or licenses required to work in the field as determined by the Technical College System of Georgia.

(b) The State Board of Education, in consultation with the State Board of the Technical College System of Georgia and the Board of Regents of the University System of Georgia, shall establish rules and regulations to implement the provisions of this Code section.

(d) A student who meets the requirements of subsection (a) of this Code section shall be deemed to have met all graduation requirements of the State Board of Education and shall not be subject to any assessments otherwise required for purposes of graduation.

HOPE GRANT ELIGIBLE INSTITUTIONS FY 2021

TCSG - Technical Colleges
- USG – Colleges & Universities
  - Albany Technical College
  - Athens Technical College
  - Atlanta Technical College
  - Augusta Technical College
  - Central Georgia Technical College
  - Chattahoochee Technical College
  - Coastal Pines Technical College
  - Columbus Technical College
  - Georgia Northwestern Technical College
  - Georgia Piedmont Technical College
  - Gwinnett Technical College
  - Lanier Technical College
  - North Georgia Technical College
  - Oconee Fall Line Technical College
  - Ogeechee Technical College
  - Savannah Technical College
  - South Georgia Technical College
  - Southeastern Technical College
  - Southern Crescent Technical College
  - Southern Regional Technical College
  - West Georgia Technical College
  - Wiregrass Georgia Technical College

USG – Colleges & Universities
- Atlanta Metropolitan State College
- Columbus State University
- Dalton State College
- Middle Georgia State University
The Douglas County College and Career Institute (CCI) is a collaboration between the Douglas County School System, West Georgia Technical College (WGTC), and the Douglas County Chamber of Commerce to provide opportunities for students to receive both high school and college credit through Dual Enrollment. Students also gain technical skills that increase job prospects whether headed directly into the job market or on to college. The CCI building is located on the West Georgia Technical College campus in Douglas County.
HIGH SCHOOL COURSES 9-12

AUDIO/VIDEO TECHNOLOGY AND FILM
Topics covered include history of mass media, terminology, safety, basic equipment, script writing, production teams, production and programming, set production, lighting, recording and editing, studio production, and professional ethics. SkillsUSA an organization that provides leadership training and/or for reinforces specific career and technical skills.

MARKETING AND MANAGEMENT PATHWAY
The goal of this pathway is to provide students with knowledge and skills in the foundational areas of marketing that include economics, human relations and business basics. Student will also be provided knowledge and skills in the functional areas of marketing which are product and service planning, marketing-information management, purchasing and pricing, selling and promotion, risk management, financing and distribution/logistics, as well as international marketing, management and entrepreneurship.

WHAT IS DUAL ENROLLMENT?
Dual Enrollment programs are operated in a partnership between WGTC and secondary school systems. Students must first meet the requirements of their local school system to establish eligibility for participation in any program with WGTC. If eligible, students must meet college entrance requirements and, upon successful completion of required coursework, will receive both high school and college credit.

ENROLLMENT STEPS
Step 1 Please see your counselor at your base high school for an application packet
Step 2 Complete and return the packet to your base high school.
Step 3 Wait for an acceptance letter by mail or email.

STEPS TO COMPLETE FUNDING APPLICATION
This MUST be completed EVERY semester of attendance while still in high school.
Step 1 Sign in to GAFutures.org or create account.
Step 2 Click on “Dual Enrollment” under What’s New box on right hand side of page.
Step 3 Scroll down page and click on “Dual Enrollment online application” under Application Procedures.
Step 4 Click “Add New Application”.
Step 5 Fill in ALL Blanks.
Name, birthdate, address, phone, email
Select High school you attend and click > to add High school
Select West Georgia Technical College and click > to add college
Step 6 Click in check box to certify that all of the information is correct.
Step 7 Click Submit at bottom of page.

ENROLLMENT STEPS FOR GEORGIA HIGHLANDS
- Please meet with your counselor at your base high school
## Dual Enrollment and Certificates Offered

<table>
<thead>
<tr>
<th>Program</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Automotive</strong></td>
<td>2 semesters earn Automotive Chassis Technician Specialist and Automotive Electrical/Electronic Systems Technician</td>
</tr>
<tr>
<td><strong>Cosmetology</strong></td>
<td>1 semester earn Shampoo Technician Certificate, continue to work toward Cosmetology diploma</td>
</tr>
<tr>
<td><strong>Criminal Justice</strong></td>
<td>2 semesters earn Criminal Justice Fundamentals, Crime Scene Fundamentals</td>
</tr>
<tr>
<td><strong>Culinary Arts</strong></td>
<td>2 semesters earn Food Production Worker, Prep Cook</td>
</tr>
<tr>
<td><strong>Cyber Security</strong></td>
<td>2 semesters earn Cyber Crime Specialist certificate</td>
</tr>
<tr>
<td><strong>Dental Assisting</strong></td>
<td>3 semesters earn Basic Dental Assisting, Advanced Dental Assisting <strong>Age Requirement</strong></td>
</tr>
<tr>
<td><strong>Early Childhood Education</strong></td>
<td>2 semesters earn Early Childhood Care and Education Basics, Child Development Specialist</td>
</tr>
<tr>
<td><strong>Financial Technology</strong></td>
<td>1 semester FinTech certificate (Georgia Highlands)</td>
</tr>
<tr>
<td><strong>Game Development</strong></td>
<td>2 semesters earn Animation and Game Design Specialist (AAG1) Certificate</td>
</tr>
<tr>
<td><strong>Nurse Aide</strong></td>
<td>1 semester earn Nurse Aide certificate after successful completion of CNA exam <strong>Age requirement</strong></td>
</tr>
<tr>
<td><strong>Pharmacy</strong></td>
<td>3 semesters earn Pharmacy Assistant <strong>Age requirement</strong></td>
</tr>
<tr>
<td><strong>Welding</strong></td>
<td>2 semesters earn Basic Shielded Metal Arc Welder, Advanced Shielded Metal Arc Welder</td>
</tr>
</tbody>
</table>
**WORK-BASED LEARNING**

The Work-Based Learning (WBL) program is designed to provide experiences and activities that support a school to career transition. This simply means that students are allowed to work off campus in the business community in order to learn more about a chosen career. Once a student has met all requirements for WBL, the WBL Coordinator will determine the correct WBL placement for the student. The students will earn one unit of credit for each completed WBL course.

WBL is available through the following programs:

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Arts, Audio-Video Technology and Communications
- Business Management and Administration
- Education and Training
- Finance
- Government and Public Administration
- Health Science
- Hospitality and Tourism
- Human Services
- Information Technology
- Law, Public Safety, Corrections and Security
- Manufacturing
- Marketing
- Science, Technology, Engineering and Mathematics
- Transportation, Distribution and Logistics

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<table>
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<th>Specialties</th>
<th>Work-Based Learning</th>
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<td>WBL is available through the following programs: Agriculture, Food and Natural Resources, Architecture and Construction, Arts, Audio-Video Technology and Communications, Business Management and Administration, Education and Training, Finance, Government and Public Administration, Health Science, Hospitality and Tourism, Human Services, Information Technology, Law, Public Safety, Corrections and Security, Manufacturing, Marketing, Science, Technology, Engineering and Mathematics, Transportation, Distribution and Logistics</td>
</tr>
</tbody>
</table>
WORK-BASED LEARNING

REQUIREMENTS FOR WBL
- Students who are enrolled in college or career pathway course work can apply for the Work-Based Learning Program.
- Students must be in grades 11 or 12
- Students must be at least 16 years old
- Students must have good attendance, discipline, and teacher recommendations
- Students must have a 2.0 GPA or higher
- The structured work experience must be a job or unpaid internship matching the career goal and course work of the pathway.

EMPLOYABILITY SKILL DEVELOPMENT (ESD)
- Paid entry level work
- Limited to one year
- May or may not be linked to a specific pathway
- Students must complete two courses in the same pathway before participating in WBL/YAP

INTERNSHIP
- Can be paid or unpaid work experience
- Directly related to a student’s career pathway
- Can occur in the school or the work place
- Must have earned 2 credits in a college and career pathway

COOPERATIVE EDUCATION (CO-OP)
- Paid work experience
- Directly related to student’s career pathway
- Students must complete two courses in the same pathway before participating in WBL/YAP

YOUTH APPRENTICESHIP (YAP)
- Work in a highly technical, highly skilled position
- Work in chosen career area
- Student must have post-secondary education plans in chosen career area (earning a degree, licensing, or certification depending on career requirement)

CAREER AND TECHNICAL STUDENT ORGANIZATIONS
- DECA
- FBLA
- FCCLA
- FFA
- FIRST Robotics
- HOSA
- SkillsUSA

VISIT US ON SOCIAL MEDIA
- Instagram dcswbl
- Twitter @dcswbl
COMMITMENT
To create among members, educators and business and industry an adherence and appreciation for all Career, Technical, and Agricultural Education Programs

CONVICTION
To develop patriotism through knowledge of our nation’s heritage and practice of democracy

EDUCATION
To create enthusiasm and empower students to become lifelong learners

INTEGRITY
To deal honestly and fairly with one another

LEADERSHIP
To develop leadership abilities through participation in educational, professional, community and social activities

PROFESSIONALISM
To promote high standards in career ethics, workmanship, scholarship, and safety

RECOGNITION
Appreciation of the value of achievement

SERVICE
To cultivate a desire to contribute to the benefit and welfare of others

TEAMWORK
To enhance the ability of students to plan together, organize and carry out worthy activities and projects through the use of the democratic process

CTSO CORE VALUES
Career and Technical Student Organizations (CTSO) are designed to build character and develop leadership abilities of high school students. CTSO’s promote active community involvement, providing service to others, and participation in competitive events with other high school students across the state. Involvement in CTSO’s provide valuable life lessons and educational experiences to prepare students for success in today’s society.

VISIT US ON SOCIAL MEDIA

DECA Instagram
- Alexander High School@ahsdeca_
- Chapel Hill High School@chhsdeca
- Douglas County High School@dchs.deca
- Lithia Springs High School@lhs.deca

FCCLA Instagram
- Chapel Hill High School@chhsfccla
- Douglas County High School@dchs_fccla

CTSO Twitter
- Chapel Hill High School@chhdeca

FBLA Twitter
- Douglas County High School@dchs_deca

FCCLA Twitter
- Chapel Hill High School@chhsfccla
**DECA**

Distributive Education Clubs of America

DECA prepares emerging leaders and entrepreneurs for careers in marketing, finance, hospitality and management in high schools and colleges around the globe. DECA currently operates in the over 4,000 high schools in many different countries including Mexico, Germany, Puerto Rico, and Canada. DECA is a co-curricular student organization in which students gain leadership and communication skills. DECA members are given opportunities to participate in: community service, competitions, and conferences at the local, state, and national level, post-secondary school exploration, job-shadowing, hosting and participating in events, and real-world industry visits. DECA gives students the chance to work with real business partners and can open the door for future employment opportunities. As an organization, DECA holds an annual Fall Leadership Conference that sharpens the skills and techniques of the attendees. At the annual state conference, students are also allowed to compete in a range of areas including Sports and Entertainment Marketing, Apparel and Accessories, Automotive, Restaurant Management, Accounting and many more. There is over $300,000 of scholarship money from DECA's corporate sponsors available to its members.

www.gadeca.org
www.deca.org

**FBLA**

Future Business Leaders of America

Georgia FBLA is a nonprofit student organization committed to preparing today's students for success in business leadership. With over 50 years of experience, Georgia FBLA is the premiere organization for student leaders.

Georgia FBLA is an affiliate of Future Business Leaders of America-Phi Beta Lambda, Inc., the largest student business organization in the world with more than 250,000 members. Georgia is also the largest FBLA chapter in the nation with over 20,000 members.

FBLA is an important partner in the success of school-to-work programs, business education curriculums, and student leadership development. FBLA is recognized by the U.S. Department of Education and Labor as an integral part of a co-curricular approach to business and leadership education.

The FBLA mission is to bring business and education together in a positive working relationship through innovative leadership and career development programs. We bring our mission to life through the application of our motto: Service, Education, and Progress.

**FCCLA**

Family, Career, and Community Leaders of America

FCCLA is a national student organization that helps young men and women become leaders and address important personal, family, work, and social issues through family and consumer sciences education. Through cooperative and competitive programs, FCCLA members develop skills for life including character development, creative and critical thinking, interpersonal communication, practical knowledge, and career preparation. Participation in national programs and co-curricular chapter activities enables FCCLA members to learn cooperation, take responsibility, develop leadership, and give service.
FFA
An Association of Agricultural Students

FFA represents the relevancy to the core areas offering students opportunities that change lives and prepares students for premier leadership, personal growth, and career success. Founded in 1928, the FFA organization represents a large diversity of over 300 careers in the food, fiber, and natural resources industry. FFA is an integral part of a school system. FFA uses agricultural education to create real-world success. Agriculture teachers become advisors to local FFA chapters, which students join. More than 7,000 FFA chapters are currently in existence; their programs are managed on a local, state, and national level. Each chapter’s Program of Activities is designed with the needs of the students in mind. Activities vary greatly from school to school but are based in a well-integrated curriculum. Chapter activities and FFA programs concentrate on three areas of our mission: premier leadership, personal growth, and career success. The FFA motto gives members twelve short words to live by as they experience the opportunities in the organization. Learning to Do, Doing to Learn, Earning to Live, Living to Serve.

FIRST Robotics
For Inspiration and Recognition of Science and Technology

FIRST was founded in 1989 to inspire young people’s interest and participation in science and technology. Based in Manchester, NH, the 501(c)(3) not-for-profit public charity designs accessible, innovative programs that motivate young people to pursue education and career opportunities in science, technology, engineering, and math, while building self-confidence, knowledge, and life skills. FIRST is More Than Robots. FIRST participation is proven to encourage students to pursue education and careers in STEM-related fields, inspire them to become leaders and innovators, and enhance their 21st century work-life skills.

HOSA
Future Health Professionals

Serving future health professionals since 1976, HOSA was created with the idea of providing students opportunities to develop as a leader and a future employee. HOSA creates driven, determined student leaders that are excited about healthcare and all that HOSA has to offer. Above all, HOSA is a tool vital to the success of students, teachers, and health professionals. HOSA is 100% healthcare and connects all hubs of the healthcare field. Through its network of state and local chapters, HOSA provides powerful instructional tools, recognition, leadership, networking, scholarships, and connections to the healthcare industry to thousands of members across the United States.

SkillsUSA
Champions at Work

SkillsUSA is a partnership of students, teachers, and industry representatives working together to ensure America has a skilled work force. It helps each student excel. SkillsUSA serves teachers and high school students who are preparing for careers in trade, technical, and skilled service occupation, including health occupations. More than 300,000 students and instructors join SkillsUSA annually, organized into more than 17,000 sections and 54 state and territorial associations. SkillsUSA has served more than 9.9 million members since its founding. SkillsUSA is an applied method of instruction for preparing America’s high performance workers enrolled in public career and technical programs. It provides quality educational experiences for students in leadership, teamwork, citizenship, and character development. It builds and reinforces self-confidence, work attitudes, and communications skill. It emphasizes total quality at work: high ethical standard, superior work skill, life-long education, and pride in the dignity of work. SkillsUSA also promotes understanding of the free-enterprise system and involvement in community service.

TSA
Technology Student Association

The mission of the Technology Student Association is learning to lead in a technical world. TSA enhances personal development, leadership, and career opportunities in STEM, whereby members apply and integrate these concepts through intracurricular activities, competitions, and related programs.
AP and Honors courses provide students with more academic rigor, opportunity for enrichment, and opportunity to work toward the AP test in English. Basic requirements for Honors and AP courses include a higher reading level, willingness and ability to accept more academic rigor, self-discipline and motivation, and a desire to prepare for college. Students who wish to take honors and AP English courses should see their current teacher for a recommendation.

### 9TH GRADE LITERATURE AND COMPOSITION

**Grade 9**

**Prerequisite** 8th Grade English

Integrates writing, grammar and usage, literature, speaking, listening, and critical thinking skills. Presents the writing process: planning, drafting, revising, editing and proofing; the study of form in personal narratives, descriptions, and expository papers. Includes reading a variety of multicultural literature: short stories, novels, tales, poetry, drama and nonfiction. Emphasizes oral and written response to literature, distinguishing characteristics of various genres, literary elements, and vocabulary study.

**School Key System**

- Alexander High School
- Chapel Hill High School
- Douglas County High School
- Lithia Springs High School
- New Manchester High School
- College & Career Institute

<table>
<thead>
<tr>
<th>When class can be taken</th>
<th>Class name</th>
<th>Prerequisite</th>
<th>Class description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade 9, 10, 11</td>
<td>AP LANGUAGE COMPOSITION</td>
<td>Test Scores</td>
<td>Provides fundamental skills development in all areas of English/Language Arts.</td>
</tr>
</tbody>
</table>

### 9TH GRADE REP - BASIC READING AND WRITING I (READING ENRICHMENT 180)

**Grade 9**

**Prerequisite** EOG Test Scores

Provides fundamental skills development in all areas of English/Language Arts in a language lab setting which includes, drill and practice opportunities in writing, organizing, speaking, reading, and critical thinking.
ENGLISH

10TH GRADE LITERATURE AND COMPOSITION
Prerequisite 9th Grade Literature and Composition
Includes literary selections from multiple genres to improve reading comprehension and a strong ability to analyze various genres of writing. Stresses organization and development of logical, analytical thinking. Includes grammar, mechanics, usage, research skills, and activities designed to enhance problem solving, critical analysis, and listening abilities. Presents the writing process, with a focus on argumentative writing and research skills.

HONORS 10TH GRADE LITERATURE AND COMPOSITION
Prerequisite Honors 9th Grade Literature and Composition, Teacher Recommendation or Parent Waiver
Includes literary selections from multiple genres to improve reading comprehension and a strong ability to analyze various genres of writing. Stresses organization and development of logical, analytical thinking. Includes grammar, mechanics, usage, research skills, and activities designed to enhance problem solving, critical analysis, and listening abilities. Summer reading assignments are mandatory, and outside reading is required throughout the course.

AMERICAN LITERATURE AND COMPOSITION
Prerequisite 9th Grade Literature and Composition, 10th Grade Literature and Composition, EOC Required
Offers opportunities to improve reading, writing, speaking, listening, and critical thinking skills through the study of American literature. Includes a variety of literary genres and multicultural writers in a chronological or thematic pattern. Emphasizes developing control in expository writing (thesis support), moving toward precision in personal narrative, descriptive, and persuasive writing. Refines research skills. Integrates grammar, mechanics, and usage into the writing process.

HONORS AMERICAN LITERATURE AND COMPOSITION
Prerequisite Honors 9th and 10th Grade Literature, Teacher Recommendation or Parent Waiver
Offers opportunities to improve reading, writing, speaking, listening, and critical thinking skills through the study of American literature. Includes a variety of literary genres and multicultural writers in a chronological or thematic pattern. Emphasizes developing control in expository writing (thesis support), moving toward precision in personal narrative, descriptive, and persuasive writing. Refines research skills. Integrates grammar, mechanics, and usage into the writing process. Summer reading assignments are mandatory, and outside reading is required throughout the course.

AP LANGUAGE AND COMPOSITION
Grade 11
Prerequisite Honors 10th Grade Literature, or Honors American Literature, Teacher Recommendation or Parent Waiver
This college-level class is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. Through their writing and reading in this course, students should become aware of the interactions among a writer’s purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effective writing. Summer reading assignments are mandatory, and outside reading is required throughout the course.

12TH GRADE BRITISH LITERATURE AND COMPOSITION
Grade 12
Prerequisite 9th Grade Literature and Composition, 10th Grade Literature and Composition and American Literature
Offers opportunities to improve reading, writing, speaking, listening, and critical thinking skills through the study of literary selections from British/English writers organized chronologically or thematically. Emphasizes developing control in expository writing (thesis support), moving toward precision in personal narrative, descriptive, and persuasive writing. Refines research skills. Integrates grammar, mechanics, and usage into the writing process.

AP LITERATURE AND COMPOSITION
Grade 12
Prerequisite 11th Grade American Literature, AP Language and Composition, Teacher Recommendation, or Parent Waiver
This course conforms to the College Board recommendations for the AP Literature and Composition Examination. It covers the study and practice of writing and the study of literature. It emphasizes writing critical analysis of literature and includes essays in exposition and argument, poetry, drama, prose fiction, and expository literature.
AP CAPSTONE SEMINAR
Grade 10, 11
A foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world 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; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate with accuracy and precision in order to craft and communicate evidence-based arguments.

AP RESEARCH PROJECT
Grade 11, 12
The College Board’s Advanced Placement Program is collaborating to offer the AP Capstone Program and Credential, designed to support high school students in developing skills increasingly valued by Colleges. The AP Capstone Research Project is an independent mentored project culminating in a 4,500- to 5,000-word academic paper. It enables students to develop practical skills in research methodology and in managing a sustained piece of academic work. Students are evaluated on their ability to design, plan and manage a research project; collect and analyze information; evaluate and make reasoned judgments; and communicate their findings and conclusions.

YEARBOOK/JOURNALISM
Grade 10, 11, 12
Prerequisite Application, Teacher Recommendation and Approval, Willingness to Learn Desktop Publishing, Satisfactory Grades in All English Courses
Yearbook journalism is an English elective class that produces the school’s yearbook. Students must be able to attend events and activities before and after school. Counts for elective English credit.

MULTICULTURAL LITERATURE
Grade 10, 11, 12
Prerequisite 9th Grade Literature and Composition
Multicultural Literature focuses on works by and about people of diverse ethnic backgrounds (African, African-American, Native American, Asian, Hispanic/Latin). It stresses exploring themes of linguistic and cultural diversity and developing critical thinking skills through class discussion and oral and written presentations. Counts for elective English credit. Some colleges may not recognize this course for 12th grade English credit.

FILM STUDY
Grade 11, 12
An introduction to the concepts and techniques of film analysis and criticism. This course is divided into genres and focuses on using film as literature to study various cultures through visual and narrative means and critically analyze the filmmaking process, as well as other forms of visual media. An exploration of theme, tone, and author’s purpose are also strongly emphasized. Film Study focuses on the relationship between literature and the efficacy of aesthetic theory as a mode of viewing and interpretation. We will explore these issues in relation to specific works of film and literature.

WRITER’S WORKSHOP
Grade 11, 12
This course offers opportunities for students to explore different writing genres: narrative, argument, and expository modes of discourse. The students will study a variety of writers and their writer’s style in the modes of discourse studied in the course. The students will have opportunities to improve writing proficiency through a complete study of the components of solid writing: organization, fluency, style, diction, grammar and usage, imaginative expressions, and details. The course allows students to utilize the writing process to write independently to improve their ability to communicate effectively in writing. This course reflects grade-level appropriate Georgia Standards of Excellence.

MYTHOLOGY
Grade 10, 11, 12
Prerequisite 9th Grade Literature and Composition
This course is designed to enrich student knowledge of classical mythology and explore how the myths of ancient civilizations affect literature today. Students study the creation myths from different cultures: Classical Greek and Roman Mythology, British Mythology, Norwegian Mythology, Native American Mythology, Pacific Mythology, Middle Eastern (Arabian) Mythology, African Mythology, and Oriental Mythology. Students learn to compare and contrast myths and discuss common elements in myths, interpret meaning in myths, and examine cultural and historical context in which they were written. Elements of modern myths are examined, and the relation of myth to other literature is a major component of the course. Counts for elective English credit.
NEWSPAPER JOURNALISM
Grade 10, 11, 12
Prerequisite 9th Grade Literature and Composition
Journalism introduces students to the exciting world of the print and digital media. Law, ethics, and the history of journalism will complement the major units of study: reporting, writing, editing, advertising and design. This course is designed to enable students to learn the art of reporting, writing, and presenting the news. Counts for elective English credit.

ORAL/WRITTEN COMMUNICATION (DEBATE)
Grade 9, 10, 11, 12
This course is designed to develop skills in argumentation, competitive speech, logic, research, providing and taking positions, and filing evidence/research for use in public and personal communication. It further helps students carefully examine a topic for discussion, noting all sides before reaching a conclusion or decision and introduces traditional debate. This course receive academic elective credit.

DRAMATIC WRITING
Grade 12
Prerequisite 9th and 10th Grade Literature and Composition and American Literature and Composition, or Teacher Recommendation and Approval
Integrates skills culminating in creating and developing multiple pieces of dramatic writing for theatrical media with a special emphasis on film and television. Includes development of the writer’s stance by reading and analyzing various genres of texts in addition to viewing and analyzing visual media from a writer’s point of view. Focuses on understanding, mastering, and applying: the construction process, research skills, critical thinking skills, and conventions of Standard English grammar and usage. Outside reading is required throughout the course. Counts as an English credit.

WOMEN IN LITERATURE
Grade 9, 10, 11, 12
Women in Literature focuses on works composed by women of diverse ethnic backgrounds and stresses exploring themes of linguistic and cultural diversity. This course is designed to develop critical thinking skills through class discussions, literary analysis, and oral presentation. Counts as an elective English credit.

SPEECH/FORENSICS I
Grade 9, 10, 11, 12
This course is a detailed study of forensic speaking including extemporaneous speaking, oration, interpretation of literature, 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.

SPEECH/FORENSICS II
Grade 9, 10, 11, 12
This course is an extension of Speech/Forensic I. The course provides a review of the skills covered in the first course. The emphasis for this course is classical and contemporary theory. The students will understand the philosophical basis of argumentative theory.

SPEECH/FORENSICS III
Grade 9, 10, 11, 12
This course is designed for intensive training in directed research. Students will research various sources including, but not limited to, computer networks, legal journals, and government documents. Students will become aware of the complexity of social issues and public policy. Through this understanding, students will be able to formulate sound arguments and understand counterarguments. Speaking skills will be honed through practice and performance.

SPEECH/FORENSICS IV
Grade 9, 10, 11, 12
This course is designed to provide students ample opportunities to improve their ability to present a persuasive position through speech. Persuasive speaking skills are refined by researching, effective presentation, and compelling articulation of persuasive ideas. The student will understand and appreciate the importance of public speaking, clear writing, sound debate, advertising, mass media, politics, and law. The key component will be to understand the role of advocacy in society.
Georgia Mathematics focuses on actively engaging the student in the development of mathematical understanding by working independently and cooperatively to solve problems, estimating and computing efficiently, using appropriate tools, concrete models and a variety of representations, and conducting investigations and recording findings. There is a shift toward applying mathematical concepts and skills in the context of authentic problems and student understanding of concepts rather than merely following a sequence of procedures. In mathematics classrooms, students will learn to think critically in a mathematical way with an understanding that there are many different solution pathways and sometimes more than one right answer in applied mathematics. Mathematics is the economy of information. The central idea of all mathematics is to discover how knowing some things leads, via reasoning, to knowing more—without having to commit the information to memory as a separate fact. It is the reasoned, logical connections that make mathematics manageable. The implementation of the Georgia Standards of Excellence in Mathematics places the expected emphasis on sense-making, problem solving, reasoning, modeling, representation, connections, and communication.

GSE FOUNDATIONS OF ALGEBRA

Foundations of Algebra is a 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 is aimed at students who have reported low standardized test performance in prior grades and/or have demonstrated significant difficulties in previous mathematics classes.

Foundations of Algebra 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.

Instruction and assessment include the appropriate use of manipulatives and technology. Mathematics concepts are represented in multiple ways, such as concrete/pictorial, verbal/written, numeric/data-based, graphical, and symbolic. Concepts are introduced and used, where appropriate, in the context of realistic experiences.
GSE ALGEBRA I (AHS, CHHS, LSHS AND NMHS OFFERS HONORS)

Algebra I is the first course in a sequence of three required high school courses designed to ensure career and college readiness. The course represents a discrete study of algebra with correlated statistics applications.

The standards in the three-course high school sequence specify the mathematics that all students should study in order to be college and career ready. Additional mathematics content is provided in fourth credit courses and advanced courses including pre-calculus, calculus, advanced statistics, discrete mathematics, and mathematics of finance courses. High school course content standards are listed by conceptual categories including Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability. Conceptual categories portray a coherent view of high school mathematics content. A student’s work with functions, for example, crosses a number of traditional course boundaries, potentially up through and including calculus. Standards for Mathematical Practice provide the foundation for instruction and assessment.

GSE ALGEBRA II (ALL SCHOOLS OFFERS HONORS)

Algebra II is the culminating course in a sequence of three high school courses designed to ensure career and college readiness. It is designed to prepare students for fourth course options relevant to their career pursuits.

The standards in the three-course high school sequence specify the mathematics that all students should study in order to be college and career ready. Additional mathematics content is provided in fourth credit courses and advanced courses including pre-calculus, calculus, advanced statistics, discrete mathematics, and mathematics of finance courses. High school course content standards are listed by conceptual categories including Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability. Conceptual categories portray a coherent view of high school mathematics content. A student’s work with functions, for example, crosses a number of traditional course boundaries, potentially up through and including calculus. Standards for Mathematical Practice provide the foundation for instruction and assessment.

GSE GEOMETRY (ALL SCHOOLS OFFERS HONORS)

Geometry is the second course in a sequence of three required high school courses designed to ensure career and college readiness. The course represents a discrete study of geometry with correlated statistics applications.

The standards in the three-course high school sequence specify the mathematics that all students should study in order to be college and career ready. Additional mathematics content is provided in fourth credit courses and advanced courses including pre-calculus, calculus, advanced statistics, discrete mathematics, and mathematics of finance courses. High school course content standards are listed by conceptual categories including Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability. Conceptual categories portray a coherent view of high school mathematics content. A student’s work with functions, for example, crosses a number of traditional course boundaries, potentially up through and including calculus. Standards for Mathematical Practice provide the foundation for instruction and assessment.

GSE PRE-CALCULUS (AHS, CHHS, DCHS, NMHS OFFERS HONORS)

Pre-Calculus is a fourth mathematics course designed to prepare students for calculus and other college level mathematics courses.

High school course content standards are listed by conceptual categories including Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability. Conceptual categories portray a coherent view of high school mathematics content. A student’s work with functions, for example, crosses a number of traditional course boundaries, potentially up through and including calculus. Standards for Mathematical Practice provide the foundation for instruction and assessment.

AP PRE-CALCULUS

AP Precalculus prepares students for other college level mathematics and science courses. The framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. Students study each function type through their graphical, numerical, verbal, and analytical representations and their applications in a variety of contexts. Furthermore, students apply their understanding of functions by constructing and validating appropriate function models for scenarios, sets of conditions, and data sets, thereby gaining a deeper understanding of the nature and behavior of each function type.
GSE ACCELERATED PRE-CALCULUS

Accelerated Pre-Calculus is the third in a sequence of mathematics courses designed to ensure that students are prepared to take higher-level mathematics courses during their high school career, including Advanced Placement Calculus AB, and Advanced Placement Statistics.

The standards in the three-course high school sequence specify the mathematics that all students should study in order to be college and career ready. Additional mathematics content is provided in fourth credit courses and advanced courses including, calculus, advanced statistics, discrete mathematics, and mathematics of finance courses. High school course content standards are listed by conceptual categories including Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability. Conceptual categories portray a coherent view of high school mathematics content. A student's work with functions, for example, crosses a number of traditional course boundaries, potentially up through and including calculus. Standards for Mathematical Practice provide the foundation for instruction and assessment.

AP CALCULUS

Grade 12
Prerequisite Accelerated Pre-Calculus or Pre-Calculus or Parent Waiver

This course follows the College Board syllabus for the AP Calculus AB Examination. The content includes properties of functions and graphs, limits and continuity, differential calculus, and integral calculus.

ADVANCED MATH DECISION MAKING

Prerequisite Algebra II, Advanced Algebra, Accelerated Geometry B/Algebra II or Accelerated Analytic Geometry B/Advanced Algebra

This is a course designed to follow the completion of Algebra II, Advanced Algebra, Accelerated Geometry B/Algebra II or Accelerated Analytic Geometry B/Advanced Algebra. The course will give students further experiences with statistical information and summaries, methods of designing and conducting statistical studies, an opportunity to analyze various voting processes, modeling of data, basic financial decisions, and use network models for making informed decisions.

AP STATISTICS

Grade 12
Prerequisite Accelerated Pre-Calculus or Pre-Calculus or Teacher Recommendation

This course conforms to the College Board recommendation for the AP Statistics. The course enables students to apply statistical methods in problem solving using data collected through experimentation, computer simulations, and various sources; provides opportunities to model statistical methods, derive probabilities, and make inferences; presents applications of statistics in real-life situations; and shows how misleading statistics could be better presented.

COLLEGE READINESS MATHEMATICS

This is a fourth course option for students who have completed Algebra I and Algebra II, but are still struggling with high school mathematics standards essential for success in first year post-secondary mathematics courses required for non-STEM majors. The course is designed to serve as a bridge for high school students who will enroll in non-STEM post-secondary study and will serve to meet the high school fourth course graduation requirement.

The course will revisit and expand the understanding of content standards introduced in earlier mathematics courses and will emphasize numeracy, algebra and functions, geometry, and statistics in a variety of contexts. Instruction and assessment should include the appropriate use of manipulative and technology. Mathematics concepts are be represented in multiple ways, such as concrete/pictorial, verbal/written, numeric/data-based, graphical, and symbolic. Concepts are introduced and used, where appropriate, in the context of realistic experiences. The Standards for Mathematical Practice will provide the foundation for instruction and assessment.

ADVANCED FINANCIAL ALGEBRA

Advanced Financial Algebra is a fourth-year mathematics course option 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. Students will create, apply, and interpret a wide variety of algebraic function-models to aid in real-world decision making. Statistical research and analysis will be used to determine the efficacy of model applications and further assist in exploring scenarios with financial implications. Financial contexts for these mathematical concepts will include business operations and optimization, tax considerations, insurance and risk management, banking services, budget creation, loan and credit analysis, investment strategies and retirement plans, stock market performance, real estate fundamentals, and automobile ownership.
**SCIENCE**

**AP BIOLOGY I**
Grade 11, 12
Prerequisite: Honors Program, Biology, Chemistry, Parent Waiver, Teacher Recommendation

AP Biology aims to help students gain a conceptual framework for modern biology and an appreciation of science as a process. The three main areas of focus are: molecules and cells, heredity and evolution, organisms and populations. Primary focus will be on developing an understanding of concepts rather than on memorizing terms and technical details.

**HONORS PHYSICAL SCIENCE**
Grade 10
Prerequisite: Honors Program, Parent Waiver

This course includes matter and energy concepts with emphasis on higher-order thinking skills. While many of the objectives for this course are similar to Physical Science, these objectives are differentiated to allow for more interdisciplinary topics and greater amounts of independent study and research.

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**SCHOOL KEY SYSTEM**

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<tr>
<th>School Name</th>
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<tbody>
<tr>
<td>Alexander High School</td>
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<td>Chapel Hill High School</td>
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<td>Douglas County High School</td>
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<td>College &amp; Career Institute</td>
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<tr>
<th>Class name</th>
<th>When class can be taken</th>
<th>Prerequisite Test Scores</th>
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<tr>
<td>AP LANGUAGE COMPOSITION</td>
<td>Grade 9, 10, 11</td>
<td>Test Scores</td>
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**AP LANGUAGE COMPOSITION**

Provides fundamental skills development in all areas of English/Language Arts.
CHEMISTRY I
Grade 11
Prerequisite Physical Science, Biology, Algebra I
This course provides the student with understanding of basic chemical knowledge regarding areas such as atomic structure, bonding, nomenclature, chemical reactions, pH, and solutions. All topics will be addressed in terms of practical applications based on common uses in the home and workplace.

HONORS CHEMISTRY I
Grade 10, 11, 12
Prerequisite Honors Program, Physical Science, Biology, Algebra I, Parent Waiver
The student will learn facts, formulas, and principles necessary to the essential understanding of the field of chemistry. The student will learn the fundamental concepts underlying the nature of chemistry and its role in society. Although this course covers many of the same topics as Chemistry I, students are provided numerous opportunities to develop critical thinking and problem solving skills to use not only in chemistry, but also in everyday life. This course is designed to be an Honors Chemistry course giving students the skills necessary to succeed at this level of work.

AP CHEMISTRY I
Grade 10, 11
Prerequisite Physical Science, Biology, Chemistry, Algebra I, Teacher Approval, Parent Waiver
This course is a college level study of the nature of matter and will include chemical nomenclature, stoichiometry, bonding, molecular geometry, chemical kinetics, equilibrium, and reaction rates. Special emphasis will be placed upon chemical thermodynamics and electrochemistry. Good for students pursuing degrees in Pharmacy.

PHYSICS - (DCHS AND LSHS OFFERS HONORS)
Grade 11, 12
Prerequisite Physical Science, Passed or Algebra II
Physics is the study of the interactions of matter and energy. It includes concepts such as velocity, acceleration, force, momentum and charge. Students investigate physics concepts through experience in laboratories and field work using the processes of inquiry.

AP PHYSICS I
Prerequisite or Co-Prerequisite Pre-Calculus
AP Physics 1 is an 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. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practice. Students should have completed geometry and be concurrently taking Algebra II or an equivalent course. Although the Physics I course includes basic use of trigonometric functions, this understanding can be gained either in the concurrent math course or in the AP Physics I course itself. No prior course work in physics is necessary.

AP PHYSICS C: MECHANICS
Grade 9, 10, 11, 12
The Environmental Science curriculum is designed to extend student investigations that began in grades K-8. This curriculum is extensively performance, lab and field based. It integrates the study of many components of our environment, including the human impact on our planet. Instruction should focus on student data collection and analysis. Some concepts are global; in those cases, interpretation of global data sets from scientific sources is strongly recommended. It would be appropriate to utilize resources on the Internet for global data sets and interactive models. Whenever possible, careers related to environmental science should be emphasized.

AP ENVIRONMENTAL SCIENCE
Grade 11, 12
Prerequisite Honors Program, Biology, Physical Science, Parent Waiver, Teacher Recommendation
The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and 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 or preventing them. Topics include: energy, resources, human impact, natural processes and relationships in the environment and sustainability issues.
AP COMPUTER SCIENCE PRINCIPLES
Grade 10, 11, 12
The AP Computer Science course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. This course is meant to be the equivalent of a first-semester college-level course in computer science. It also includes the study of data structures, design, and abstraction. Emphasis in the course is on procedural and data abstraction, object-oriented programming and design methodology, algorithms, and data structures.

AP COMPUTER SCIENCE A
The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. AP Computer Science A focuses on the Java programming language. Students are encouraged to take AP Computer Science Principles prior to taking AP Computer Science A.

ASTRONOMY
Grade 11, 12
Prerequisite Physical Science
This course will provide the student with an introduction to the concepts of modern astronomy, the origin and history of the Universe and the formation of the Earth and the 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. The course gives a description of astronomical phenomena using the laws of physics. The course treats many standard topics including planets, stars, the Milky Way and other galaxies, black holes to more esoteric questions concerning the origin of the universe and its evolution and fate. Although largely descriptive, the course will occasionally require the use of sophomore-high level mathematics. Laboratory exercises include experiments in light properties, measurement of radiation from celestial sources, and observations at local observatories and/or planetariums.

FORENSIC SCIENCE
Grade 11, 12
Prerequisite Biology, Chemistry or Physical Science
Forensic Science is the application of scientific evidence for use in a court of law. In this introductory course, students rely on a thorough understanding of the principles and techniques of science to solve problems. As a consequence, students expand their science skills and knowledge base. The course work requires students to carry out experiments, solve problems using analytical and critical-thinking skills, and communicate their findings to others.

HUMAN ANATOMY/PHYSIOLOGY
Grade 12
Prerequisite Physical Science, Biology, and Chemistry
Human Anatomy and Physiology is a rigorous college preparatory, life science course that requires more time in self-study and requires a higher level of discipline. It is a continuation and extension of the life science investigations of previous grades and can serve as the third or fourth year of science that is required for graduation. This course is designed to provide students the opportunity to develop academic practices, learn process skills, higher order thinking skills, and acquire content knowledge necessary to be literate and proficient in Human Biology. The content will be investigated through numerous laboratory and field experiences, various individual and group projects and activities, and traditional educational practices.

ZOOLOGY
Grade 11, 12
Prerequisite Biology, Physical Science, AHS students - Teacher Approval Required
Zoology is the study of all things dealing with animals. As the science has advanced over the decades, modern zoologists study more than just recognition and classification of animals; their attention now includes animal anatomy, physiology, development, histology, ecology, behavior, and evolution. The ‘story’ of animals is told through evolutionary patterns across deep spans of time. Thus, the focus of this course is the recognition of key features of the major body plans that have evolved in animals and how those body plans have changed over time resulting in the diversity of animals that are evident today.
SOCIAL STUDIES

CIVICS/CITIZENSHIP OR AMERICAN GOVERNMENT
Grade 10
Prerequisite None
Focuses on basic concepts and principles of the American political system. Covers the structure and function of the American system of government, the roles and responsibilities of citizen participation in the political process, and the relationship of the individual to the law and legal system. Stresses critical analysis of public issues. Integrates and reinforces social studies skills.

WORLD HISTORY
Grade 9
Prerequisite None
Emphasizes the political, cultural, economic, and social development and growth of civilizations. Covers the development of change beginning with ancient civilizations, 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 twentieth century.

AP AMERICAN GOVERNMENT OR HONORS GOVERNMENT
Grade 9, 10, 11, 12
Prerequisite Teacher Approval, Honors Program, Parent Waiver
AP U.S. Government and Politics will provide students an intellectual foundation for observing, analyzing, and understanding national politics in the United States. Using primary and secondary source documents, as well as analysis of specific examples, students will examine and evaluate the institutions of American government, political parties and elections, mass media, political behavior, public policies, and the development of individual rights and liberties and their impact on citizens.

AP OR HONORS WORLD HISTORY
Grade 9
Prerequisite Teacher Approval, Honors Program, Parent Waiver
AP World History is a college level course that covers world history through reoccurring themes. Students will cover the interactions between humans and the environment, the development of interaction between cultures, state-building and expansion, the creation and interaction of economic systems, and the development and transformation of social structures. This class is designed to develop the critical thinking skills, the historical thinking skills, and the analytical skills needed for success in the 21st century.
SOCIAL STUDIES

UNITED STATES HISTORY (EOC REQUIRED)
Grade 11
Prerequisite None
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. Students will also use critical thinking to link past and present events.

HONORS UNITED STATES HISTORY
Grade 11
Prerequisite Teacher Recommendation
This course traces the development of U.S. History from the colonial era through modern times. Emphasis is placed on the role of the United States as a world leader and issues relevant to the United States today. Students are equipped with the analytic skills and factual knowledge essential to critically examine the conflicts and developments in U.S. history. The course facilitates the development of historical background through analysis of historical documents and secondary source materials. Students learn to assess historical materials in terms of reliability and importance to evaluate scholarly data and interpretations presented within historical scholarship.

AP UNITED STATES HISTORY
Grade 11
Prerequisite Teacher Approval, Honors Program, Parent Waiver
Conforms to College Board topics for the AP United States History Examination. Covers discovery and settlement, colonial society, the 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, through modern times. Students examine primary documents and acquire the ability to incorporate source material in a thesis driven, analytical, 5-paragraph essay.

AP MACROECONOMICS
Grade 12
Prerequisite Teacher Approval, Honors Program, Parent Waiver
Focuses on the American economic system; covers fundamental economic concepts, comparative economic systems, micro-economics, macroeconomics, and international economic interdependence. Stresses the ability to analyze critically and to make decisions concerning public issues. The honors course has emphasis on writing assignments.

AP MICROECONOMICS
Grade 11, 12 (AHS, CHHS and NMHS 12th grade only)
Prerequisite Teacher Approval, Honors Program, Parent Waiver
This course is designed to provide students with a thorough understanding of the principles of economics as they apply to individual decision-making units, including individual households and firms. Students taking the course will spend time examining the theory of consumer behavior, the theory of the firm, and the behavior of profit-maximizing firms under various market structures. They will evaluate the efficiency of the outcomes with respect to price, output, consumer surplus, and producer surplus. Students will have an opportunity to examine the behaviors of households and businesses in factor markets, and learn how the determination of factor prices, wages, interest, and rent influence the distribution of income in a market economy. Students will also consider instances in which private markets may fail to allocate resources efficiently and examine various public policy alternatives aimed at improving the efficiency of private markets.

CURRENT ISSUES
Grade 10, 11, 12
Prerequisite None
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.

ECONOMICS-BUSINESS FREE ENTERPRISE
Grade 12
Prerequisite None
Focuses on the American economic system; covers fundamental economic concepts, personal finance, microeconomics, macroeconomics, and international economic interdependence. Stresses the ability to analyze critically and to make decisions concerning public issues.
ACADEMIC AND HONORS, AP CLASSES

SOCIAL STUDIES

**PSYCHOLOGY**

*Grade 11, 12*

*Prerequisite:* None

This year-long, one credit elective course investigates the relationship of psychology, the scientific study of behavior and mental processes, to other sciences. The main topics of study are the basic principles of psychology, contributions of major psychologists, the scientific method, uniqueness, experimental ethics, developmental psychology, heredity and environmental aspects of psychology, learning theory, memory and thinking types, biological bases of behavior, personality, intelligence, social disorders, awareness, emotion, motivation, conflict resolution, and research methods used in the study of psychology.

**AP PSYCHOLOGY**

*Grade 11, 12*

*Prerequisite:* Teacher Approval, Honors Program, Parent Waiver

This year-long, one credit elective course conforms to the College Board topics for the Advanced Placement Psychology examination. This course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students will be exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Course topics include the following: Psychological History and Approaches; Research Methods; Biological Bases of Behavior; Sensation and Perception; States of Consciousness; Learning; Cognition; Motivation and Emotion; Developmental Psychology; Testing and Individual Differences; Abnormal Psychology; Treatment of Psychological Disorders; and Social Psychology. The expectations and class rigor are equivalent to a college freshman Psychology class.

**SOCIOLOGY**

*Grade 11, 12*

*Prerequisite:* None

This course will introduce students to the sociological perspective in examining our lives and social experiences, as well as many issues facing society today. In this respect, students should think of this course as a “sampler” on the sociological menu. Furthermore, through this course, students should come to realize how many aspects of their lives are influenced by the social world in which they live and, as a result, a student should obtain a better understanding of her/himself as social individuals and her/his place in society.

**AP HUMAN GEOGRAPHY**

*Grade 9-12*

*Prerequisite:* Teacher Approval, Honors Program, Parent Waiver

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.

**AFRICAN AMERICAN STUDIES**

*Grade 9, 10, 11, 12*

African-American Studies is an academic elective course provided by the Social Studies department, and will contain standards from the fields of History, Geography, Political Science, Economics, and Sociology. The course will require a great degree of higher order thinking. Throughout the course, students will be encouraged to analyze the developments and contributions of Africans brought to America. The course will have a chronological flow beginning with African Civilization pre-Columbus on up to the present day.
Please Note: While the Georgia Department of Education no longer requires students to complete two years of a world language for high school graduation, the University System of Georgia does require the completion of two years of the same world language or two years of sign language in order to be considered for admission. Universities may or may not accept World Language credit that appears on a high school transcript but was earned in Middle School.

PREPARING OUR STUDENTS FOR TOMORROW'S WORKPLACE

Second language skills are needed by students for the new global economy for the following reasons:

- Students interested in attending a 4 year college/university must have at least 2 years in a consecutive language taken in high school.
- The workplace of tomorrow is a world of many cultures and languages. With new forms of global commerce we can’t even imagine today.
- 200,000 Americans annually lose out to jobs with business because they cannot communicate in another language.
- Monolingual speakers can be at a disadvantage in employment and political life.
- Managers who know how to deal with a diverse workforce will have an edge.
- 4 of 5 new jobs in the US are created as a result of foreign trade.
- 1/3 of all corporations in the US are either owned or based abroad.
- Georgia ranks 15th in the US in export sales.
- Students earning 3 or more high school credits in the same language meet the requirements for a World Language Pathway taken in high school.
WORLD LANGUAGE - FRENCH

FRENCH I
Grade 9, 10, 11, 12
Prerequisite None
This course allows students to begin to develop communication skills on a variety of common topics, such as friends, family, school, and leisure activities. Classwork and homework introduce listening, speaking, reading, and writing functions in the target language, as well as the cultures of regions where French is spoken. The course is designed for students who did not take the two-year French sequence in middle school.

FRENCH II
Grade 9, 10, 11, 12
Prerequisite French I
This course builds on and expands the skills students acquired in French I class. Students communicate in more detail about a broader range of topics and can ask about, narrate and discuss past, present, and future events and plans. Students who have passed the two-year middle school French sequence or one unit of French I at the high school level should enroll in this class.

FRENCH III (AHS AND LSHS OFFERS HONORS)
Grade 9, 10, 11, 12
Prerequisite French II or Native Speakers
This course allows students to extend the skills and content taught at the French II level in order to participate in more complicated situations, to communicate in extended conversations, to respond to authentic print, audio, and visual media in the target language, to react to current events and cultural patterns in the francophone world, and to develop organized composition and reporting skills in French.

FRENCH IV (AHS AND LSHS OFFERS HONORS)
Grade 11, 12
Prerequisite French III
As a continuation of French III, this course develops students’ proficiency in using oral and written language to inquire, narrate, and describe in a variety of tenses and situations. Students summarize and respond to authentic materials and media in the target language.

FRENCH V (AHS AND LSHS OFFERS HONORS)
Grade 12
Prerequisite French IV
This course is a continuation of French IV in which students continue to develop their proficiency in oral and written expression in French. Students read and discuss appropriate literary selections and use oral and written skills to respond to the visual art, music, and drama of the target cultures. Students use extended vocabulary to react to current events and issues present in the target cultures.

AP FRENCH
Grade 11, 12
Prerequisite French IV
Students who enroll in Honors/AP French Language should already have a good command of French grammar and vocabulary and have competence in listening, reading, speaking, and writing. The course will emphasize the students’ ability to understand spoken French in various contexts and develop a vocabulary ample for reading a variety of writings, and their ability to express themselves with reasonable fluency and accuracy in both written and spoken French.
WORLD LANGUAGE - SPANISH

SPANISH I
Grade 9, 10, 11, 12
Prerequisite None
This course allows students to begin to develop communication skills on a variety of common topics, such as friends, family, school, and leisure activities. Classwork and homework introduce listening, speaking, reading, and writing functions in the target language, as well as the cultures of regions where Spanish is spoken. The course is designed for students who did not take the two-year Spanish sequence in middle school.

SPANISH II
Grade 9, 10, 11, 12
Prerequisite Spanish I
This course builds on and expands the skills students acquired in Spanish I class. Students learn to communicate in more detail about a broader range of topics and can ask about, narrate and discuss past, present, and future events and plans. Students who have passed the two-year middle school Spanish sequence or one unit of Spanish I at the high school level should enroll in this class.

SPANISH III (AHS AND LSHS OFFERS HONORS)
Grade 10, 11, 12
Prerequisite Spanish II or Native Speakers
This course allows students to extend the skills and content taught at the Spanish II level to participate in more complicated situations, to participate in extended conversations, to respond to authentic print, audio, and visual media in the target language, to react to current events and cultural patterns, and to develop organized composition and reporting skills in Spanish.

SPANISH IV (AHS, DCHS AND LSHS OFFERS HONORS)
Grade 11, 12
Prerequisite Spanish III
As a continuation of Spanish III, this course develops students’ proficiency in using oral and written language to inquire, narrate, and describe in a variety of tenses and situations. Students summarize and respond to authentic materials and media in the target language. Students read and discuss appropriate literary selections and use oral and written skills to respond to the visual art, music, and drama of the target cultures.

SPANISH V (AHS AND LSHS OFFERS HONORS)
Grade 12
Prerequisite Spanish IV
This course is a continuation of Spanish IV in which students continue to develop their proficiency in oral and written expression in Spanish. Students read and discuss appropriate literary selections and use oral and written skills to respond to the visual art, music, and drama of the target cultures. They use extended vocabulary to react to current events and issues present in the target cultures.

AP SPANISH
Grade 11, 12
Prerequisite Spanish IV
Students who enroll in Honors/AP Spanish Language should already have a good command of Spanish grammar and vocabulary and have competence in listening, reading, speaking, and writing. The course will emphasize the students’ ability to understand spoken Spanish in various contexts and develop a vocabulary ample for reading a variety of writings, and their ability to express themselves with reasonable fluency and accuracy in both written and spoken Spanish.

SPANISH FOR NATIVE SPEAKERS
Designed for heritage learners of Spanish, this course can accommodate students from a wide range of backgrounds, from those who are minimally functional (can comprehend Spanish but are not able to speak fluently, read or write) to those who are more proficient and/or literate in Spanish. The recommended entrance requirement for the Spanish for Native Speakers I is the Intermediate-Mid level of proficiency in listening comprehension on the ACTFL scale. It is not necessary that students speak or write at the Intermediate level prior to entering the course.

This course focuses on the development of communicative competence in reading, writing, speaking and listening and viewing, as well as on understanding Hispanic cultures and issues of identity of heritage speakers of Spanish in the United States. Students will also develop an awareness and understanding of Hispanic cultures, including language variation, customs, geography, history, and current events.
WORLD LANGUAGE - CHINESE

CHINESE I
Students will learn Pinyin, radicals, frequently used characters, word usage, sentence patterns, and grammar. Students will develop basic listening, speaking, reading, and writing abilities in Mandarin Chinese. The students will also acquire the knowledge of Chinese culture and history. This course is for beginning students or non-native speakers only.

CHINESE II
Prerequisite Chinese 1 with a grade of C or better
This is a continuation of Chinese 1 with a holistic approach to develop reading, writing, speaking, and listening skills of the Chinese language. This course seeks to provide students with the most commonly used Chinese characters and phrases, further understanding of Chinese grammar, and abilities to write short paragraphs. Students will advance the knowledge of Chinese culture and society. At the end of the year, students are expected to conduct basic daily communication in some real-life situations.

CHINESE III
Prerequisite Chinese 2 with a grade of C or better
This is a continuation of Chinese 2. This course is intended to further develop the four communications skills: listening, speaking, reading, and writing. The emphasis will be on students’ conversational and writing skills in Chinese. Students will expand their conversational skills on most familiar topics. Rigorous practice of spoken and written Chinese will be conducted. The instruction will be conducted in Chinese.
GENERAL PHYSICAL EDUCATION I, II, III, IV
LSHS ALSO OFFERS V, VI
Grade 9, 10, 11, 12
Prerequisite None
This elective course is designed to provide students with the opportunity to improve skills in each sport encountered. The emphasis is placed on teaching and improving motor skills unique to each team sport rather than merely playing them. This course will offer the student an opportunity to learn the history, rules, and strategies of specific team sports as well as the opportunity to develop attitudes necessary to play the sport safely and display good sportsmanship. Focuses on any combination or variety of team sports, lifetime sports, track and field events, aquatics/water sports, outdoor education experiences, rhythmic/dance, recreational games, gymnastics, and self-defense. Provides basic methods to attain a healthy and active lifestyle. *Team Sports is an elective physical education course.*

BEGINNING WEIGHT TRAINING
Grade 9, 10, 11, 12
Prerequisite Students new to weight training

INTERMEDIATE WEIGHT TRAINING
Grade 10, 11, 12
Prerequisite Beginning Weight Training and non-athletes

WEIGHT TRAINING
LSHS OFFERS WEIGHT TRAINING 1-6
Grade 9, 10, 11, 12
Prerequisite None
This course is designed to allow students to participate in a program of activities, which promote the development of health-related fitness. Activities/workouts may include but not be limited to: weight training (free weights and machines), run/walk activities, flexibility exercises, speed training and relation techniques.
ADVANCED WEIGHT TRAINING
Grade 11, 12
Prerequisite Athletes ONLY
This elective course is designed to be a continuation of the course required for graduation, Personal Fitness. Several ideas are revisited but many new concepts are introduced. The course is designed to educate the novice and enhance the performance levels of the athlete by covering principles of movement science. Psychological issues are discussed as they relate to physical performance as well. Developing a pattern of involvement in lifetime activity is the desired goal of this course.

FEMALE WEIGHT TRAINING
Grade 9, 10, 11, 12
Prerequisite None
This elective course is designed to introduce students to a rhythmic program of activities to promote the development of health related fitness. The course will provide students with the opportunity to improve cardiovascular fitness, flexibility, muscular strength, muscular endurance and body composition. Fundamental skills will be emphasized in each area, culminating in the performance of simple routines by the students. Instruction in each area will be available as equipment and staff are provided. Aerobic Dance is an elective physical education course.

AEROBICS
Grade 9, 10, 11, 12
Prerequisite None
This elective course is a form of physical exercise that combines rhythmic aerobic exercise with stretching and strength training routines with the goal of improving all elements of fitness (flexibility, muscular strength, and cardio-vascular fitness). With the goal of preventing illness and promoting physical fitness, practitioners perform various routines comprising a number of different dance-like exercises.

LIFETIME SPORTS
Grade 9, 10, 11, 12
Prerequisite None
This elective course is designed to provide students with the opportunity to improve skills in each sport taught. The emphasis is placed on teaching and improving motor skills unique to each individual or dual sport rather than merely playing them. This course will offer the student an opportunity to learn dual sports as well as the opportunity to develop attitudes and judgment necessary to play the sport safely and display good sportsmanship. It is the goal of this course to instill the necessary skills and favorable attitudes to foster lifetime participation. Lifetime Sports is an elective physical education course.

INTRODUCTORY RECREATIONAL GAMES
Introduces recreational games suitable for lifetime leisure activities; may include table tennis, shuffleboard, Frisbee, deck tennis, new games, horseshoes, darts and croquet. Emphasizes the rules of each game and the skills necessary to play.

HEALTH/PERSONAL FITNESS
HEALTH-This course is designed to give students the opportunity to learn practical skills necessary to implement healthy life choices. The course includes learning activities designed to include students in classroom study, discussions, health labs, Internet activities via health web sites and constantly changing current events. Students are called on to evaluate their current health habits on personal, interpersonal and community levels. A passing grade in this course meets the high school graduation requirements in the area of health and safety. This course is a Douglas County School System graduation requirement.

PERSONAL FITNESS-The primary goal of this course is to help students help themselves. This course shows students that everyone can be healthy and physically fit. It encourages the development and maintenance of personal fitness throughout the life cycle. It is a “personal” course. Students are presented a wide variety of fitness topics. They learn to assess their own personal fitness levels and based on that knowledge, learn to design their own personal fitness programs. Consumer issues related to health and fitness are discussed along with principles of training, nutrition and stress management. This unit course meets the state requirement for Physical Education. This course is a Douglas County School System graduation requirement.
INTRODUCTORY, INTERMEDIATE AND ADVANCED TEAM SPORTS

INTRODUCTORY - Introduces fundamental skills, strategies, and rules associated with team sports such as basketball, volleyball, soccer, softball, baseball, field hockey, lacrosse, team handball, and flag football.

INTERMEDIATE - Enhances skills and strategies in team sports such as basketball, volleyball, soccer, softball, baseball, field hockey, lacrosse, team handball, and flag football.

ADVANCED - Provides opportunities to officiate and to enhance skills in team sports strategies.

ADVANCED BODY SCULPTING

Provides additional opportunities to redefine body shape through specific exercises. Based on the American College of Sports Medicine guidelines for fitness and conditioning programs, this course covers weight training, conditioning exercises, and proper nutrition to improve muscle tone, muscle definition, posture, bodily proportions, and overall condition of the body and energy levels.

PHYSICAL CONDITIONING AND ADVANCED PHYSICAL CONDITIONING

PHYSICAL CONDITIONING - Provides opportunities to participate in a variety of activities to enhance flexibility, muscular strength and endurance, cardiovascular endurance and body composition. Includes fitness concepts for the development of healthy lifetime habits.


PHYSICAL CONDITIONING

Provides opportunities to participate in a variety of activities to enhance flexibility, muscular strength and endurance, cardiovascular endurance and body composition. Includes fitness concepts for the development of healthy lifetime habits.