



# **Aurora Central High School Program Planning Guide 2011-12**

*Revised 11/7/11*

Aurora Public Schools  
1085 Peoria Street  
Aurora, Colorado 80011  
[www.aps.k12.co.us](http://www.aps.k12.co.us)



### English

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### Vietnamese – Tiếng Việt

Nếu quý vị không nói được tiếng Anh và cần một thông dịch viên để giao tiếp một cách có hiệu quả với trường của quý vị, thì sẽ có dịch vụ thông dịch miễn phí cho quý vị. Ngoài ra, còn có cả dịch vụ phiên dịch miễn phí. Nếu quý vị có thắc mắc gì về dịch vụ thông dịch và phiên dịch, quý vị có thể liên lạc với hiệu trưởng của trường hay một trong số các nơi sau đây Division of Instruction (Phân ban về Chỉ dẫn)

### Korean [한국어]

영어를 잘 구사하실 수 없으나, 귀하의 학교 측과 효율적 의사소통을 위해 통역사가 필요하시면, 무료 통역 서비스를 제공해 드립니다. 또한, 일정 서류의 번역도 무료로 제공해 드립니다. 번역이나 통역 서비스에 대해 질문이 있으시면, 귀하의 학교 교장이나 아래 관계 부서에 연락하시기 바랍니다 지도 부서 [Division of Instruction].

### Amharic - አማርኛ

እንግሊዝኛ የማይነጋገሩ ከሆኑና ከትምህርት ቤትዎ ጋር በሚገባ ለመነጋገር እና ለመግባባት አስተርጓሚ የሚያስፈልግዎ ከሆነ፡ የአስተርጓሚ አገልግሎት ያለ ክፍያ ይቀርብልዎታል። በተጨማሪም፡ የአንዳንድ ጽሑፎች ትርጉሞችም በነፃ ይቀርባሉ። ስለ ጽሑፍ ትርጉምም ሆነ ስለ ቃል ትርጉም አንዳች ጥያቄ ካለዎ፡ የትምህርት ቤቱን ርዕሰ መምህር ያነጋግሩ ወይም የትምህርት ክፍሉን

### Nepali - नेपाली

यदि तपाइ अंग्रेजी बोल्नुहुन्न भने र विद्यालय संग प्रभावकारी ढंगमा संचार गर्नका लागि तपाइलाई दोभाषे चाहिन्छ भने तपाइको खर्च नलाग्ने गरी दोभाषेको सेवाहरु उपलब्ध छन् । त्यस्को साथै केही कागजातहरु निःशुल्क अनुवाद गर्ने व्यवस्था पनि उपलब्ध छ । अनुवाद वा दोभाषेको सेवाहरुका सम्बन्धमा यदि तपाइका केही प्रश्नहरु छन् भने या त तपाइको विद्यालयको प्राचार्यसँग सम्पर्क गर्नुहोस् वा निर्देशन महाशाखामा सम्पर्क गर्नुहोस् ।

# School Directory

**Aurora Central High School**

11700 East 11<sup>th</sup> Avenue  
Aurora, Colorado 80010  
303-340-1600

**Pickens Technical College**

500 Airport Boulevard  
Aurora, Colorado 80011  
303-344-4910

**Gateway High School**

1300 South Sable Boulevard  
Aurora, Colorado 80012  
303-755-7160

**Rangeview High School**

17599 East Iliff Avenue  
Aurora, Colorado 80013  
303-695-6848

**Hinkley High School**

1250 Chambers Road  
Aurora, Colorado 80011  
303-340-1500

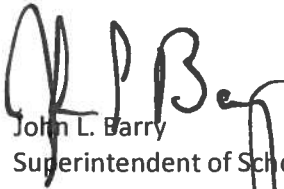
Dear High School Students, Parents, and Guardians:

Aurora Public Schools offers many opportunities for high school students to reach their fullest potential. As we continue to refine and expand upon the vast programs within the high school experience, we realize the importance of providing you a guide that will inform you of the requirements for graduation from high school and describe the pathways to college and careers.

In this guide you will find a comprehensive approach to helping you develop the skills and knowledge to be successful in high school, college, and your career. In order to achieve your goals, you need a plan. This guide will help you develop a plan of study for your high school years and beyond. Included in this guide are graduation requirements, college entry requirements, programs and pathways to college and careers, and resources available to you.

Whatever future you choose, your teachers, principal, district administration, and board of education are ready to support you and the goals you set in getting a quality high school education while preparing you for the world which you are entering.

Sincerely,



John L. Barry  
Superintendent of Schools

### Our Vision and Mission

**We, the members of the Aurora Public Schools community, are committed to:**

- **the vision** to "Graduate every student with the choice to attend college without remediation."
- **the mission** to "Teach every student within a safe environment the knowledge, skills and values necessary to enter college or a career and become a contributing member of society who flourishes in a diverse, dynamic world."

In fulfilling our vision and mission, the safety of students, staff and patrons shall be a top priority.

### Core Values

RESPECT	Each person has equal, intrinsic worth and deserves to be treated with dignity and respect
INTEGRITY	Integrity is based on trust, honesty and accepting accountability for all words and actions
COMPASSION	Every individual should be willing to give time and energy to act in the best interest of others
EQUITY	Through practice, passion and persistence, APS will provide an equitable education for all students demonstrated by closing racial, ethnic and economic achievement gaps
EXCELLENCE	High achievement requires high expectations focused on challenging instruction and engaged learners willing to work hard for success

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# Purpose of Your High School Program Planning Guide and How to Use It

The purpose of this guide is to provide students with a clear direction for success in high school and preparation for college and careers in a simple, comprehensive way. We hope that this guide will help you and your parents plan your high school program by providing information on the requirements for graduation from high school and entrance to college and careers, while describing different paths which can be taken. Your high school experience is a critical one because you will be making decisions which will affect your educational and career goals. Along with your parents, involve your counselor, teachers, and administrators in preparing your plan for success. Work very closely with your counselor to thoughtfully develop a program of study to best help you achieve these goals.

As you plan your high school career, make every effort to get involved in extracurricular activities. Students who are engaged in school activities, athletics, and community service are more successful in school and are better prepared for college and careers. Involvement in these programs helps build character, determination, and a sense of pride. This is also a great way to build friendships and memories that will last a lifetime.

In planning your high school program, consider using Explore, PLAN, Naviance, and College in Colorado as tools in helping you select courses for your four-year plan. The course selections in this guide are only a small piece of the information that you will need to plan a successful four-year high school program. It is our goal that all students experience success in attaining their personal educational and career goals.

## High School Counseling Program Overview

The Aurora Public Schools secondary counseling program facilitates student development in three broad domains to promote and enhance the learning process: academic, career, and personal/social. School counselors strive to be strong advocates for the students and parents they serve. Counselors will work with parents, staff, students, and the community to provide resources and support in these areas:

### ***Academic Advisement Development***

Graduation Requirements  
Four-Year Plans  
Advanced  
Placement/Honors/IB  
Testing Information  
Postsecondary Options  
Pickens Technical College  
Precollegiate  
Concurrent Enrollment  
Parent Workshops

### ***Career Planning***

College Planning  
College Fairs and Representative Visits  
College Search Information  
College Admissions Tests  
Letters of Recommendation  
Transcript Requests to Colleges  
Financial Aid/Scholarships  
Scholarship Workshops  
NCAA Clearinghouse  
Career Search Information  
Military/Academy  
Naviance  
College Opportunity Fund  
Technical Careers

### ***Personal/Social Development***

Resources  
Crisis Support  
Peer Counseling  
Drug/Alcohol Intervention  
High School Success Groups

School counselors provide invaluable resources and encourage the Aurora Public Schools community to utilize the services offered. In order to maximize the opportunities, it is in the best interest of the student to maintain a working relationship with the counseling department.



# Pathway Planning

## High School

# Graduation Requirements

The Aurora Public Schools Board of Education sets graduation requirements. These are minimum requirements; APS students are encouraged to take rigorous course work that meets college admission requirements. Students who enroll in additional courses and take honors, AP, IB, and postsecondary courses have a better chance of success at a variety of colleges.

## **Minimum High School Graduation Requirements for the Classes of 2012, 2013, and 2014**

English	4.0 units of credit
Mathematics	3.0 units of credit
Science	2.5 units of credit
Social Science	3.0 units of credit
Included in the 3.0 Social Sciences credits are 1.0 unit of U.S. history and 0.5 unit of civil government)	

The remaining 9.5 units of credit may be elective or additional core academic courses.

Additional Credits	<u>9.5 units of credit</u>
<b><u>Minimum</u></b> credits to graduate	22.0 units of credit required for graduation

**Please be aware that college admissions require additional academic credits.**

## **Effective with the Graduating Class of 2015 Minimum High School Graduation Requirements**

English	4.0 units of credit
Mathematics	4.0 units of credit
Science	3.0 units of credit
Social Science	3.0 units of credit
Included in the 3.0 Social Sciences credits are 1.0 unit of U.S. history and 0.5 unit of civil government)	
World Language	1.0 unit of credit

The remaining 7.0 units of credit may be elective or additional core academic courses.

Additional Credits	<u>7.0 units of credit</u>
<b><u>Minimum</u></b> credits to graduate	22.0 units of credit required for graduation

For answers to frequently asked questions about admission requirements, go to <http://higherred.colorado.gov/academics/admissions/coursecompletion.html>.

# Four-Year Educational Plan

This work sheet is designed to help the student develop a personalized educational program that will not only meet minimal graduation requirements, but also help maximize options and opportunities after graduation. Careful consideration and planning must be given in developing a well-balanced course of study which allows each student to make the critical decisions surrounding which classes best meet his or her unique educational and vocational goals.

Remember that students are required to pass a minimum of 22 total credits for graduation and that each student must be enrolled in a **minimum of 6** courses each semester in grades 9 through 12. Your high school may have additional enrollment requirements. Many courses require a prerequisite or teacher approval for enrollment.

As you complete each course with a passing grade, place a checkmark (✓) in the box.

	Grade 9	✓	Grade 10	✓	Grade 11	✓	Grade 12	✓
Language Arts								
Mathematics								
Science								
Social Science								
U.S. history 1.0 credit								
Civil government 0.5 credit								
World Language (class of 2015) or Additional Credit								
Additional Credit								
Additional Credit								
Additional Credit								
Additional Credit								
Additional Credit								
Additional Credit								
Additional Credit								
Total 22 credits	Total Grade 9		Total Grade 10		Total Grade 11		Total Grade 12	
Cumulative Total								

## Assessment

Assessment of students' knowledge and skills is a critical component of teaching and learning during all portions of students' education. Students should strive to perform their best on all types of assessments. The following assessments are what every high school student can expect to experience.

### Colorado Student Assessment Program (CSAP)

The CSAP assessments address Colorado's model content standards and are used to determine the level at which students meet the content standards. They are also used to measure progress over time at school, district, and state levels. Students will be tested in reading, writing, and mathematics. In 10<sup>th</sup> grade, students are also tested in science. Aurora Public Schools will use the results of the CSAP assessments as one measure to evaluate whether the district has increased student achievement for all students, and to evaluate the change in the achievement gaps that exist among various groups of students.

### Colorado English Language Assessment (CELA)

The Colorado English Language Assessment (CELA) addresses the Colorado English Language Development Standards. The CELA measures the four areas of language proficiency: listening, speaking, reading, and writing. In addition, a comprehension score is calculated from the listening and reading items. The federal *No Child Left Behind Act of 2001* and Colorado state policy require all English Language Learners (ELL) in grades 9-12 to be assessed in language proficiency so that their annual yearly progress can be monitored.

### EXPLORE/PLAN/ACT

The **EXPLORE®**, **PLAN®** AND **ACT®** series will be used in combination to focus on meeting student achievement standards and for support in differentiation of instruction. These three tests are paper-and-pencil, multiple-choice evaluations of a student's academic development in English, math, reading, social science, and science. Benchmark scores indicate students' probable readiness for college-level work by the time they graduate from high school. Students scoring at or above the benchmark score are likely on track to develop the skills necessary to succeed in an entry-level college course. The non-cognitive component is comprised of a needs assessment and interest inventory.

#### **EXPLORE®**

The **EXPLORE®** program is designed to help 9<sup>th</sup> graders explore a broad range of options for their future and serves as a *baseline* to monitor student progress throughout high school. The content of the **EXPLORE®** assessment is closely tied to that of the **PLAN®** assessment in grade 10, and the achievement tests of the **ACT®** in grade 11. **EXPLORE®** prepares students not only for their high school course work, but for their post-high school choices as well. It marks an important beginning for a student's future academic and career success.

#### **PLAN®**

The **PLAN®** program monitors student progress after the first year of high school, and focuses attention on improving academic achievement and career preparation for 10<sup>th</sup> graders. As a "pre-**ACT®**" test, **PLAN®** is a powerful predictor of success on the **ACT®**. The **PLAN®** program is a comprehensive guidance resource that helps students measure their current academic development, explore career/training options, and make plans for the remaining years of high school and post-graduation years. **PLAN®** can help all students – those who are college-bound as well as those who are likely to enter the workforce directly after high school.

#### **ACT®**

The American College Testing (**ACT®**) Program is administered to all students in Colorado in grade 11. The **ACT®** test assesses high school students' general educational development and

their ability to complete college-level work. It measures academic readiness to make successful transitions to higher education. This assessment is broadly used for college and higher education entrance and placement decisions.

### **Accuplacer**

The Accuplacer assessment is a 90-minute, computer-based assessment administered by all community colleges in the state of Colorado. The Community College of Aurora, in partnership with Aurora Public Schools also uses this assessment for the purpose of CCA college course placement for qualified 11<sup>th</sup> and 12<sup>th</sup> grade students.

### **SAT I and II – 11<sup>th</sup> and 12<sup>th</sup> Grades**

The Scholastic Achievement Test is used to determine college admission. The SAT 1 – Reasoning Test is used to measure critical thinking, writing, and mathematical reasoning that develop over time. The SAT II – Subjects Test is primarily a multiple-choice test that measures a student’s knowledge of a particular subject and ability to apply that knowledge. This test is optional and requires a fee. Visit the SAT Web site for additional information: <http://www.collegeboard.com/>.

### **PSAT/NMSQT**

The PSAT/NMSQT is a rigorous national assessment that measures critical reading, mathematics, and writing skills that are important for success in college. When taken during the junior year, it allows students to enter the National Merit Scholarship Corporation’s scholarship competition. Results from this exam also allow schools to guide students on selecting Advanced Placement courses through the use of AP Potential. This test is optional and requires a fee.

### **CollegeInColorado.org**

This Web site offers free, online ACT and SAT test preparation. This full-featured tool includes practice questions, vocabulary builder, timed sample tests, a coaching feature, and more.

### **ASVAB**

The Armed Services Vocational Aptitude Battery is a nationally-normed, multi-aptitude test battery. This test was developed by the U.S. Department of Defense. The information from this test was designed to help all students, whether they are planning on immediate employment after high school in civilian or military occupations, or further education at a university, community college, or vocational institution. ASVAB can be taken in grades 10, 11, and 12.

### **Building Writing Assessment**

The purpose for a building writing assessment is to provide formative information to teachers and principals on a student’s writing. At each grade level, the building writing assessment provides a consistent measure of writing that can be used for the writing body of evidence. Results of this assessment can also be used at the building level to guide staff development planning. The building writing assessment is building-based with each building determining what writing assessment process to use.

### **Interim Assessments**

Interim assessments are 50-60 minute assessments that will be given three times a year to students in grades 9 and 10 in reading, writing, and mathematics. They are in a format similar to CSAP with both multiple-choice and written (constructed) responses. The most significant difference between interim and CSAP assessments is that interim assessments are not secured. Teachers are able to use the test results down to the item level to determine where students are and where they need to be relative to district targets. Interim assessments align to the district benchmarks and curriculum maps at each grading period and report student level proficiency. End of quarter assessments are also given in the following courses: physical science, biology, geography, U.S. history, and civics.

# English Language Acquisition

The ELA program in the high schools offers high-intensity language instruction for students who are enrolled in the Aurora Public Schools and are identified as English language learners. The purpose of this program is to instruct these students in English so they can access mainstream content as quickly as possible with the necessary listening, speaking, reading, and writing skills.

## Course Options

- English Language Development (ELD) 1 – Beginning level students
- English Language Development (ELD) 2 – Early Intermediate level students
- English Language Development (ELD) 3 – Intermediate level students
- English Language Development (ELD) 4 – Late Intermediate and Proficient students
- English Language Development (ELD) 5 – Late Intermediate and Proficient students
- English 9, 10, 11, or 12 (with sheltered instruction) – Intermediate and Late Intermediate level students

The sequence of classes listed above is based on a student's developing acquisition of English rather than time in class. Completion of the ELD classes is not prerequisite to the English classes. Students are moved to the mainstream English classes as quickly as their progress toward English proficiency allows

## Academic Content Classes

Beginning level students need access to the same content as other students. Therefore, upon enrolling, they will be immediately scheduled into math, science, and social science courses with sheltered instruction strategies that make the content comprehensible. This sheltered instruction addresses the same state standards, grade level expectations, and the essential components found in the other sections of that course. Students may be grouped into different sections of these classes so that teachers may employ different levels of sheltered instruction.

## Other Classes

Care is taken with scheduling to ensure that all English language learners are integrated with native speakers of English during increasing parts of the school day.

# Exceptional Student Services

## Special Education Graduation Requirements

Participation in the special education program in the high schools of Aurora Public Schools is in accordance with the Individuals with Disabilities Education Act and the Colorado Department of Education. When students qualify for special education services, the vehicle for providing those services is the Individualized Education Program (IEP). Instruction is based on individually assessed needs and defined in the IEP goals and objectives. Special education students will complete the graduation requirements. During the development of the IEP, state standards will be referenced; however, the individual needs and goals of the student are priority. Any modification to regular graduation requirements must be defined in the student's IEP.

### Special Education Services

Special education services are available at each high school. Support is provided through a continuum of services, dependent upon each student's needs identified in the IEP, by licensed special education teachers and staff. In alignment with federal laws, students are served in the least restrictive environment, maintaining access to the general curriculum as much as possible. Options may include:

- **Consultation** is between general education teachers and special education teachers monitoring student progress and providing information regarding the student's individual needs and accommodations.
- **Co-Planning/Co-Teaching Classes** are regular education courses taught by a general education teacher and a special education teacher working together to blend their unique skills and knowledge in order to provide a variety of instructional strategies, a more favorable student-to-teacher ratio, as well as more individualized help and guidance. Instructional accommodations and course content are provided as outlined on the student's IEP.
- **Tutorial support** may be provided to students who seek assistance with their general class work. Typically, the special education teacher or a general education teacher provides the tutorial support outside of the general education setting.
- **Intervention classes** provide additional skill instruction in math and literacy while enrolled concurrently in general ed math and literacy classes. For example, if a student is taking Integrated Algebra/Geometry 1, they may also be signed up for an Integrated Algebra/Geometry 1 Intervention Class. The intervention class provides a variety of strategies, including previewing information, small group instruction, and additional practice around new concepts in the Integrated Algebra/Geometry 1 class.
- **Special content classes** may be a service option available in some high schools. Curriculum focuses on postsecondary planning for students with disabilities.
- **Center-based classes** are for students who require intense services, different environments, and/or possible curricular modifications. Class options may vary by high school.
  - *Affective needs classes*: Students work to develop academic and appropriate social/interactive skills to move into the general education classrooms and the adult world successfully. Curriculum accommodations are dependent upon individual needs.
  - *Functional academic classes*: Students work within the general education curriculum as much as possible. It may be modified based on a student's needs. Students will gain academic skills, independent living skills, and employability skills to become responsible and productive adults.

- *Life skills classes:* Students work with an expanded curriculum to learn functional living skills at home, at school, and in the community. A focus on self-care, work skills, social skills, and recreational skills promote students' ability to function as independently as possible.

## **Related Services**

Related services are available depending on needs stated in a student's IEP. These services are provided by school psychologists, social workers, school nurses, speech/language pathologists, physical therapists, occupational therapists, audiologists, teachers trained to work with specific disabilities, and those who specialize in teaching employability skills.

## **Transition Planning**

High school students with IEPs and their parents/ guardians need to become involved in course work planning as they move through a process called Transition. Transition planning must begin during the year the student turns 15 years old or 9<sup>th</sup> grade at the latest. At this time, the IEP team (including the student and guardian) helps the student make plans for the future. Transition is a process that builds on itself each year, and goals evolve and change as the student gets older and gains new insights and skills.

Transition planning varies among students, because each student has unique needs, strengths, interests, and preferences. Students and families are vital to the transition planning process. As key members of the transition planning team, students participate in activities to help identify:

- a vision for the future
- the school courses to take
- employment options and experiences
- extracurricular activities
- various pertinent community experiences
- possible agencies to assist students to achieve their vision for the future

Students, families, schools, and community agencies work as a team to listen and help create these valuable experiences.



# The Aurora LIGHTS Academy of Health Sciences & Technology

at Aurora Central High School and Hinkley High School

The Academy of Health Sciences & Technology is a school-within-a-school serving students in grades 9-12. The Academy offers rigorous college-preparatory curricula and instruction that prepare students for admission to postsecondary educational programs in medicine, research, and allied health sciences fields.

Upon admission to the Academy of Health Sciences & Technology, students follow a prescribed four-year course sequence that exceeds the minimum graduation requirements established by the Colorado Department of Education and the Aurora Public Schools. In addition to required precollegiate academic studies, all Academy students benefit from studies in the biomedical sciences and unique opportunities for research and clinical experience on the University of Colorado Denver Anschutz Medical Campus.

## Unique Characteristics of the Academy of Health Sciences & Technology

- School-within-a-school, housed in a comprehensive high school
- Small learning community – 120 students
- Challenging precollegiate academic curricula
- Specialized studies in the biomedical sciences
- Choice of clinical or research emphasis
- Tutoring, mentoring, and college counseling
- Field experiences, job shadowing, and internships
- Collaboration with university and community partners

## Academy Course Work

- 4 years of advanced English, mathematics, science, social studies, world languages, and biomedical sciences
- Fine arts, physical education, and technology

## Admission

The Academy of Health Sciences & Technology is academically competitive and highly demanding. Admission to the Academy, and subsequent success, will require that students have demonstrated high levels of academic motivation, capacity, and accomplishment. In addition, successful matriculation through the Academy will require strong student and parent commitment and ongoing academic and personal growth and success, as measured against established academic, behavior, and attendance guidelines. Initial admission to and eligibility to remain in the Academy are based on a portfolio of student, teacher, and parent information that may include, but is not limited to the following information: standardized test scores, teacher recommendations, grade point average, previous academic coursework, a personal essay, community involvement, and parental approval and commitment to support.

The Academy application form is available on the Aurora Central High School and Hinkley High School websites. Visit <http://www.aps.k12.co.us/central> or <http://www.aps.k12.co.us/hinkley>.

Note: Two additional Aurora LIGHTS pathway schools, William Smith High School and Pickens Technical College, offer pathways to health sciences professions. See both schools' entries in this program planning guide.

## STEM: Engineering and Technology

For a future in a STEM career, students should study and apply principles from advanced mathematics, physical science, earth and space science and technology. In grades 9-12, all future engineers and technologists should study mathematics each year, learning important mathematical reasoning, concepts and processes. Knowledge and skills students should be able to demonstrate include applying mathematics, science and technology concepts to solve problems quantitatively in engineering projects involving design, development, or production in various technologies. Students will also learn how to recognize the core concepts of technology and their relationship to engineering, science, and math. All future engineers and technologists must have a solid understanding of physics, chemistry, and biology.

APS is proud to announce that we offer *Project Lead the Way (PLTW)* pre-engineering curriculum at Aurora Hills Middle School, Columbia Middle School, Mrachek Middle School, Gateway High School, Rangeview High School and Vista PEAK. These courses complement math and science college preparatory programs to establish a solid background in engineering and technology. Two sets of curriculum and courses are available: *Gateway to Technology* (for middle school) and *Pathway to Engineering* (for high school).

*Gateway to Technology* is a problem-based middle school curriculum designed to help students in grades six through eight explore math, science and technology. There are five independent units schools can elect to offer. They include: Design and Modeling, The Magic of Electrons, The Science of Technology, Automation and Robotics, and Flight and Space.

*Pathway to Engineering* is a high school program that offers students in-depth, hands-on knowledge of engineering and technology-based careers. The three-tiered approach to learning flows from foundation courses to specialization courses to a culminating capstone course. This curriculum prepares students for demanding two and four year college engineering courses. The *Project Lead the Way Engineering* curriculum is geared toward creative students, hands-on learners, and students who enjoy working in groups to solve problems. *PLTW's* curriculum makes math and science relevant for students by engaging them in hands-on, real-world projects.

# International Baccalaureate Programme

The International Baccalaureate Programme offered at Gateway and Hinkley High Schools is part of a rigorous worldwide, college preparatory high school curriculum and examination program. IB programmes focus on international perspectives of learning and teaching, while insisting that students fully explore their home culture and language. The core components of IB programmes encourage students to participate in creative and service-oriented activities, while at the same time emphasizing the importance of reflection on a personal and academic level.

Students who are successful in the IB Middle Years Program (MYP) and IB Diploma Program demonstrate a strong commitment to learning, both in terms of mastery of subject content and in the development of communication skills in reading, writing, and oral speaking, and in analytical skills in all disciplines necessary for success at the University level, and in a competitive world.

Ninth grade students, who enter Hinkley or Gateway High School, have the opportunity to be part of the Middle Years Program (MYP), Honors Program based on the recommendation of their 8<sup>th</sup> grade teachers. The MYP program is challenging, academically rigorous and is designed to prepare students to be successful in the IB Diploma Program during their last two years of high school.

MYP Honors students will take classes in 8 subject areas to provide students with a well-rounded academic experience. Students who are in the STEM/Science, Technology, Engineering & Math Program at Gateway or the LIGHTS/Health Sciences & Technology Program at Hinkley will also be in the MYP Honors Program.

<b>Typical MYP Honors Student Schedule</b>	
<b>9<sup>th</sup> Grade Courses</b>	<b>10<sup>th</sup> Grade Courses</b>
Language A – MYP Honors English 9	Language A – MYP Honors English 10
Language B – World Language – based on student level	Language B – World Language – based on student level
Humanities – MYP Honors Geography	Humanities – MYP Honors US History
Science – MYP Honors Biology (Gateway) MYP Physics (Hinkley)	Science – MYP Honors Chemistry (both schools)
Math – MYP Honors Math - based on student level, but prepared for a minimum of Integrated Algebra/Geometry 2	Math – MYP Honors Math - based on student level, Integrated Algebra/Geometry 3 or higher
Fine Arts – Art, Theatre or Music (9 <sup>th</sup> or 10 <sup>th</sup> grade)	Fine Arts – Art, Theatre or Music (9 <sup>th</sup> or 10 <sup>th</sup> grade)
Physical Education/Health (9 <sup>th</sup> or 10 <sup>th</sup> grade)	Physical Education/Health (9 <sup>th</sup> or 10 <sup>th</sup> grade)
Technology – Computer or STEM/LIGHTS MYP/Honors Desktop Publishing (Hinkley)	Technology – Computer or STEM/LIGHTS



## William Smith High School

**William Smith High School** is dedicated to providing a diverse student body with an outstanding high school education, integrating the arts, technology, service and adventure into the core academic classes. Through a partnership with Expeditionary Learning Schools, teachers at WSHS design powerful, rigorous learning experiences that result in high achievement and college readiness. Compelling topics, fieldwork and guest experts bring curriculum to life. Students develop products and presentations that utilize the skills, knowledge and technological tools of professionals in a variety of careers.

William Smith High School serves grades 9-12 and is open to all Aurora Public Schools students through an application process.

### **Our Vision:**

To graduate all students with the knowledge, skills and personal qualities that will prepare them for success in college or other postsecondary education and training and future careers.

### **Our Mission:**

We support student learning and achievement through:

- Intellectually rigorous experiences
- A powerful learning community that builds on strengths and nurtures the individual talents of each student
- Teaching the knowledge, skills and reasoning of the core academic disciplines and the arts
- Development of the personal qualities and work habits of successful adults

### **Required classes at WSHS**

William Smith High School students earn credit in each of the four core subject areas (math, language arts, science, and social studies) every year. Credits are also earned in art and digital media instruction which are integrated into the core classes. Foreign language is offered in German and Spanish. Upper school students are eligible to enroll in courses at Pickens Technical College and the Community College of Aurora. Graduates of William Smith will meet all of the Aurora Public Schools graduation requirements and will be eligible for entrance into college. Honors distinction and advanced placement are offered throughout the four years.

### **Aurora Lights**

William Smith is a selected LIGHTS high school. William Smith students who apply and are accepted into LIGHTS will receive additional opportunities and support to pursue a pathway of study to enter medical school or medical research. This program is in partnership with the Anschutz Medical Center and the CU School of Medicine. For more information about Aurora Lights, visit <http://lights.aurora12.org>.

### **Preparation for College**

Upon graduation, every student at William Smith will be prepared to attend college. Through a daily advisory class, teachers will work with students to complete projects including: career inventories, talent and learning styles inventories, college selection, résumé writing, and financial aid and scholarship applications.

### **How to Apply**

All students within the boundaries of Aurora Public Schools are eligible to apply. To begin the application process, an application can be accessed from the Web site at <http://www.williamsmithhs.com> or from any school counseling office. The completed application must

be submitted to the William Smith High School office by February 25, 2011. Incomplete applications will not be processed. All positions are filled via a random lottery in accordance with the school's enrollment policy.

For more information about William Smith High School, visit the Web site at <http://www.williamsmithhs.com> or call 303-364-8715 to set up a shadowing opportunity.

## APS Online

APS Online, a free online high school, is a unique and personalized way to earn a high school diploma. Many of today's students require an educational experience beyond that of the traditional high school. APS Online provides that choice for those students who wish to pursue their high school education in an online environment. Students who wish to accelerate their learning or need the flexibility of an online program will thrive in APS Online.

APS Online is located at Aurora Central High School, 11700 E. 11<sup>th</sup> Avenue, Aurora, Colorado 80010. The only entrance to APS Online High School is on the south side of the high school. There is no access from inside Aurora Central High School itself. A full time, licensed instructor will be available to students at reasonable intervals throughout the day and evening for both face to face and online instruction.

While most of the course work will need to be done online and outside of the classroom, students will also be required to come into the classroom for some course work and to meet with teachers weekly. We recognize that many students will not have daily access to a computer; therefore, all students admitted to the APS Online program will receive a computer netbook and a wireless high speed access card to be used while the student is enrolled.

For more information about APS Online and the application process, please go to <http://www.apsachieveonline.org/>.

# Pathway Planning

## Postsecondary School and Career

# Postsecondary Opportunities in High School

## Earning College Credits While Still in High School

Aurora Public Schools encourages students to begin planning for their careers early in their high school experience. The board of education believes that students who are capable and who want more rigorous academic and technical challenges should have the opportunity to pursue college-level work while attending high school. There are several options available for qualifying students. Those participating in these programs may earn credit toward their high school diploma and, in addition, credits toward a postsecondary (college) certificate or degree.

**Dual credit opportunities** are offered at students' home high schools, Pickens Technical College, or the Community College of Aurora and other postsecondary institutions. ***Dual credit simply means that the course work can count on the student's high school transcript and on a transcript at the sponsoring postsecondary institution.*** Note that each course and program has its own application process, specific credit availability, and may require additional fees. Students should contact their school counselors to find out more about these opportunities.

**PACESetter Program** is an exciting partnership between the Community College of Aurora and Aurora Public Schools. It is designed to increase the number of high school students earning college credit. The program allows eligible high school students the opportunity to earn college credit while in high school. APS and CCA forged this partnership to challenge students in three ways:

1. **Concurrent Enrollment at the High School** is available to all high school students for both high school and college credit. Students will have the opportunity to have both a high school and a college transcript for classes taught within their home high school, either by an instructor from CCA or by a high school teacher who has earned adjunct college instructor status. Tuition for higher education courses shall be paid by APS in accordance with the qualifications of the PACESetter Program. See your high school counselor or go to the APS Web site for a list of classes at each high school.
2. **Concurrent Enrollment at the Community College of Aurora** is available for all high school students to take courses at the CCA campus for both high school and college credit. Tuition for higher education courses shall be paid by APS in accordance with the qualifications of the PACESetter Program. For a list of available classes, obtain a PACESetter application packet from your high school counselor.
3. **The ASCENT program or "Accelerating Students Through Concurrent Enrollment,"** allows for students to continue on a full time basis at the Community College or Pickens Technical College for a 5<sup>th</sup> year of high school. See your high school counselor for details.

**Pickens Technical College** offers a wide variety of certificate programs ranging from respiratory therapy to graphic design. These programs give students the opportunity to acquire state-of-the-art technical skills, knowledge, and workplace employability skills—while still in high school.

All courses provide designated graduation credit at the home high school. In addition, many Pickens programs provide dual credit that will be applied to a postsecondary transcript. Students earning a C or better in the course may transfer those credits toward the Associate of Applied Science (AAS) degree at any community college.

**Middle College (MC@PTC)** is open to Aurora Public Schools juniors and offered at Pickens Technical College. Ultimately, MC@PTC is for students who want to complete their high school diploma, pursue a Pickens CTE certificate **and** earn a college degree (Associate of Applied Science at

CCA). By design, Middle College provides its participants with an opportunity to be part of a peer support system as they progress toward their career and college goals.

Refer to Pickens Technical College pages in the Course Descriptions section of this guide for information on the many programs available at Pickens Technical College and/or contact your school counselor.

## Associate Degrees

There are four types of associate degrees that are offered through the higher learning system in the state of Colorado: AAS, AGS, AA and AS degrees. Each associate degree consists of 60 credits.

**The AAS (Associate of Applied Science in Applied Technology)** allows students the opportunity to incorporate both career/technical education credits and college general education credits into an associate degree. It is designed to give students skills they need for entry-level work in their chosen occupational area and to complement program certificates earned from Pickens Technical College\*.

### Associate of Applied Technology degree

Content Area	Number of Credits Needed
Technical certificates	45
Speech	3
Humanities	3
Social & Behavioral Science	3
Mathematics	6

**The AGS (Associate of General Studies) degree** provides students the flexibility to meet individual career and personal goals without needing to specialize. Up to 30 credits from a completed Pickens Technical College certificate\* may be eligible as electives, too. The AGS degree is not intended to transfer to a four-year institution; however, courses *may* be transferable on a course-by-course basis.

### Associate of General Studies (AGS) degree

Content Area	Number of Credits Needed
Associate of General Studies Electives	26-27 (up to 30 from PTC)
Computer	3-4
General Education Electives	15
Arts & Humanities	3
Social & Behavioral Science	3
Physical & Life Science	3
Mathematics	3
Communication	3

**The AA (Associate of Arts) and AS (Associate of Science) degrees** are designed to transfer and fulfill the first two years of general education requirements for *most majors* in the Colleges of Liberal Arts and Sciences. The degrees incorporate statewide guaranteed transfer courses and are transferable to four-year institutions. While the coursework is transferrable, student admission is up to the four-year institution. When choosing electives, it is important to contact an advisor and consult the transfer institution's transfer guide.

### Associate of Art and Associate of Science degrees

Content Area	Number of Credits Needed
Electives	18-19
Computer	3-4
Arts and Humanities	9
Social & Behavioral Science	9
Physical & Life Science	8
Mathematics	3-5
Communication	9

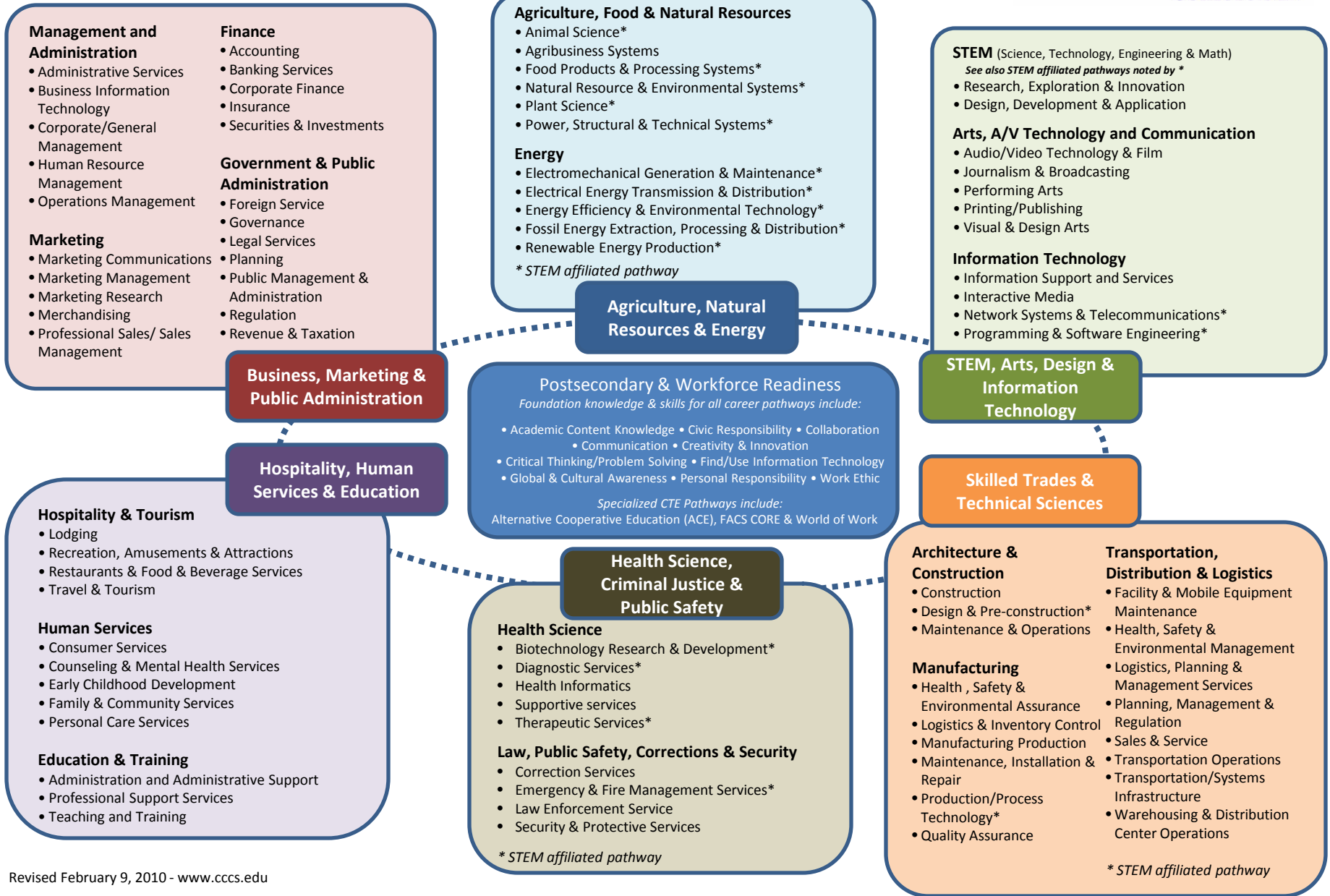
## Postsecondary Credits

APS HS#	PTC Credit	Credit Hours	CCA Credit	Credit Hours	AAS	AA
HBT 3041 - Computer Applications	none	none	none	none		
HBT 3052- Computer Technology	none	none	CIS 161	2		
HBT 3061- Desktop Publishing	CIS 167	3	none	none		
HBT 3031 - Word Processing	none	none	none	none		
HBT 1082- Accounting	ACC 121	4	ACC 121	3		
HBT 2021- Business Law	BUS 216	3	BUS 216	3		
HBT - 2021 Consumer Law	BUS 110	2	none	none		
HBT 1061- Financial Management	FIN 201	3	none	none		
HBT 3161- Investment Management	BUS 116	3	none	none		
HBT 3171 Java Programming 1	CSC 240	0	none	none		
HBT 3181 Java Programming 2	CSC 240	3	none	none		
HBT Marketing	MAR 216	3	none	none		
HBT 3141 Multimedia 1	MGD 102	3	none	none		
HBT 3151 Multimedia 2	MGD 122	3	none	none		
HBT 3131 Web Design 1	MGD 141	3	none	none		
HBT 3133 Web Design 2	MGD 241	3	none	none		
HBT 2091 Career Development	none	none	none	none		
HBT 2102 Entrepreneurship and Management	none	none	BUS 115	3		

# Colorado Career Cluster Model



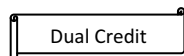
COLORADO COMMUNITY COLLEGE SYSTEM



# Pickens Technical College Career Cluster Model



**Pickens Technical College (PTC)** offers nearly 40 certificate programs to adults and high school students. We are a public institution, part of both Aurora Public Schools and the Colorado Department of Higher Education. Upon successful completion of most programs, students will receive a certificate, with postsecondary college credit transcribed from Pickens Technical College. Postsecondary credits are transferrable to any community college or area technical college in Colorado toward an Associate degree.



**Watch for this symbol!** It identifies PTC programs in which students can earn **both** high school credits **and** postsecondary credits (an average of 8-16 credits/semester)—at the same time.

**NOTE:** PTC credits transfer to 2-year degrees at the community college level. See the Postsecondary Opportunities section of this planning guide for more degree information....and always consult an advisor as you plan your educational pathway!

## College in Colorado

**College in Colorado** is a statewide effort to improve college access for all Colorado students. <http://www.CollegeInColorado.org> is a *free*, one-stop resource to help students and parents explore careers and plan, apply, and pay for college.

### Resources for planning:

- ♦ ACT, SAT, and GRE test preparation
- ♦ College planning timelines
- ♦ High school coursework planners
- ♦ College fair information
- ♦ Choices™ Planner & Explorer contain:
  - career and college matching assistance
  - career assessments
  - comprehensive information on nearly 1,000 careers
  - Colorado career clusters and pathways
  - College programs and major finder
  - Scholarship finder
  - Information on more than 8,000 colleges nationwide
  - Résumé builder and interview tools
  - Lifelong, online portfolio to store résumés, careers of interest, schools of interest, and much more

### Resources for applying:

- ♦ Online applications for every public college in Colorado
- ♦ Side-by-side college comparisons
- ♦ Virtual campus tours
- ♦ Campus matching assistance
- ♦ National college search
- ♦ Campus locator/distance search
- ♦ Resources for special needs students

### Resources for paying:

- ♦ Scholarship search engines
- ♦ Financial aid estimator
- ♦ SLOPE calculator and budgeting tool
- ♦ FAFSA link with auto-populate feature
- ♦ Information and application for the College Opportunity Fund
- ♦ Financial aid opportunities and in-depth information
  - Grants loans
  - scholarships

Additionally, <http://www.CollegeInColorado.org> provides links to hundreds of other helpful Web sites and comprehensive tools and resources for educators.

# Naviance

**Family Connection from Naviance** is a web-based service designed especially for students and parents. It is a comprehensive Web site that parents and students can use to help make decisions about high school courses, colleges, scholarships, and careers. Naviance is “one-stop shopping” for high school students and their parents to help with post-high school planning. Examples of Naviance tabs and links students and parents can go to for college planning:

**About me:**

- ♦ my personality type
- ♦ my learning style
- ♦ my résumé
- ♦ my documents
- ♦ my learning style
- ♦ my letter of recommendation profile
- ♦ my game plan
- ♦ my test scores
- ♦ my colleges
- ♦ my scholarships
- ♦

**About college:**

- ♦ college search and lookup
- ♦ college match and compare
- ♦ visit schedule
- ♦ scholarship list and match
- ♦ enrichment programs
- ♦ transcripts

**About careers:**

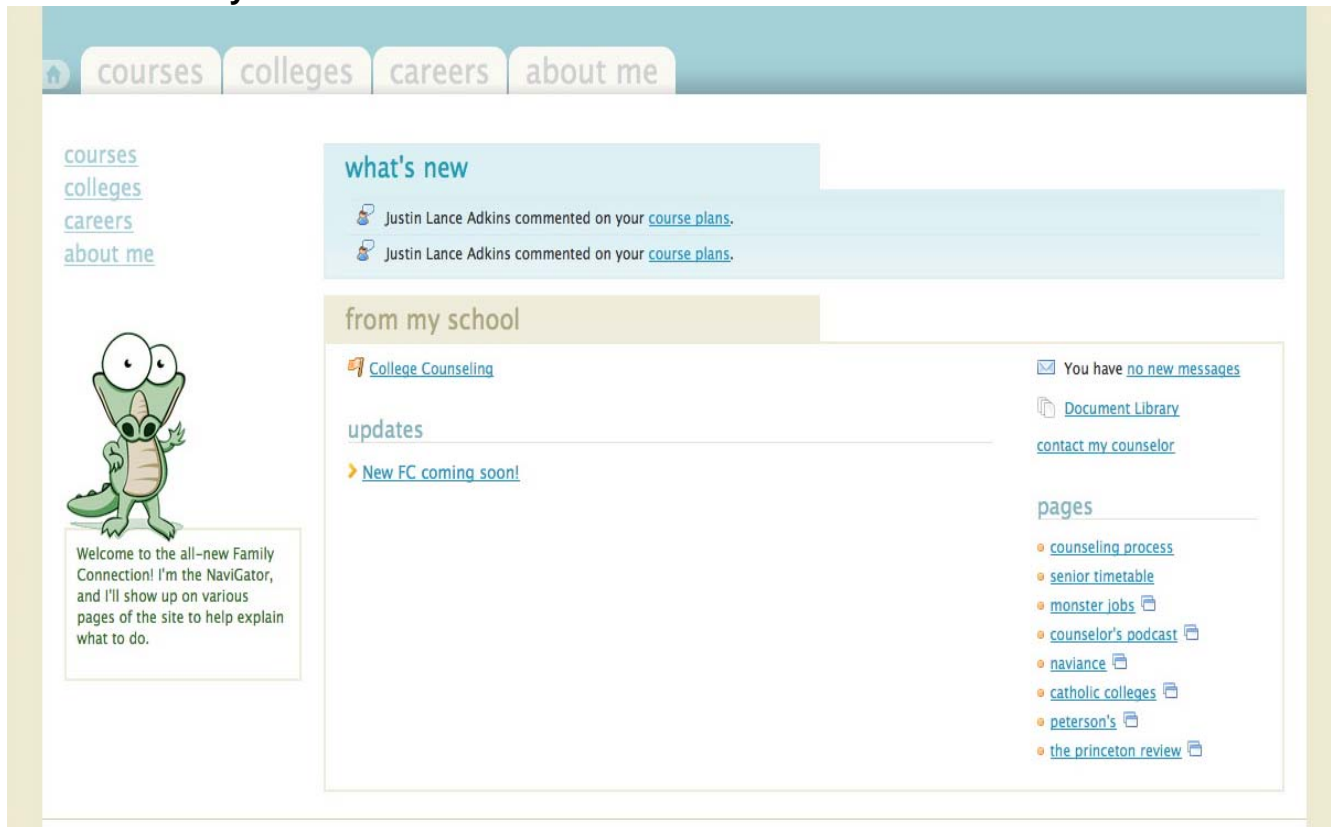
- ♦ explore careers
- ♦ explore interests

**Links to other Web sites:**

- ♦ college basics
- ♦ ACT & SAT registration, PLAN test
- ♦ W.U.E.
- ♦ College Opportunity Fund
- ♦ College in Colorado
- ♦ FAFSA / PIN #
- ♦ NCAA Eligibility Center
- ♦ FastWeb scholarship search
- ♦ When I Grow Up (job shadowing)

**The New Family Connection**

**NAVIANCE**



**COURSES** ~ choose a plan – modify courses – review & finalize – scan your plan

**COLLEGES** ~ colleges I’m thinking about – colleges I’m applying to – visit schedule – college match – college compare – college lookup – college search – college maps – scattergrams – acceptance history – enrichment programs – my transcripts – my test scores – test preparation - - scholarships

**CAREERS** ~ explore careers – explore interests – career overview – career knowledge & skills – career tasks & activities – career wages

**ABOUT ME** ~ surveys to take – my profile – my inbox – my account – my test scores – favorite colleges – favorite careers and clusters

**FAMILY CONNECTION** from **NAVIANCE** is a web-based service designed especially for students and parents. It is a comprehensive web site that parents and students can use to help make decisions about high school courses, colleges, scholarships, and careers. **Naviance** is “one-stop shopping” for high school students and their parents to help with post-high school planning.

*Talk to your counselor or career/college advisor for information to activate your personal account.*

CCHE Admissions Eligibility Index, Fall 2008 – Fall 2010

		SAT	400	500	550	610	690	750	800	840	880	930	970	1010	1050	1080	1120	1160	1200	1240	1280	1310	1350	1400	1440	1490	1550		
			490	540	600	680	740	790	830	870	920	960	1000	1040	1070	1110	1150	1190	1230	1270	1300	1340	1390	1430	1480	1540	1590	1600	
		ACT	<12	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
%H.S. Rank	H.S. GPA																												
0-1	0-13	45	47	49	51	53	55	57	59	61	63	65	68	70	72	74	76	78	80	82	84	86	88	90	93	95	97		
2-3	14-15	49	51	53	55	57	59	61	63	65	67	69	72	74	76	78	80	82	84	86	88	90	92	94	97	99	101		
4	16	51	53	55	57	59	61	63	65	67	69	71	74	76	78	80	82	84	86	88	90	92	94	96	99	101	103		
5-6	17	52	54	56	58	60	62	64	66	68	70	72	75	77	79	81	83	85	87	89	91	93	95	97	100	102	104		
7-8	18	54	56	58	60	62	64	66	68	70	72	74	77	79	81	83	85	87	89	91	93	95	97	99	102	104	106		
9-10	19	56	58	60	62	64	66	68	70	72	74	76	79	81	83	85	87	89	91	93	95	97	99	101	104	106	108		
11-12	2.0	58	60	62	64	66	68	70	72	74	76	78	81	83	85	87	89	91	93	95	97	99	101	103	106	108	110		
13-15	2.1	60	62	64	66	68	70	72	74	76	78	80	83	85	87	89	91	93	95	97	99	101	103	105	108	110	112		
16-18	2.2	61	63	65	67	69	71	73	75	77	79	81	84	86	88	90	92	94	96	98	100	102	104	106	109	111	113		
19-22	2.3	63	65	67	69	71	73	75	77	79	81	83	86	88	90	92	94	96	98	100	102	104	106	108	111	113	115		
23-26	2.4	65	67	69	71	73	75	77	79	81	83	85	88	90	92	94	96	98	100	102	104	106	108	110	113	115	117		
27-30	2.5	67	69	71	73	75	77	79	81	83	85	87	90	92	94	96	98	100	102	104	106	108	110	112	115	117	119		
31-34	2.6	69	71	73	75	77	79	81	83	85	87	89	92	94	96	98	100	102	104	106	108	110	112	114	117	119	121		
35-38	2.7	70	72	74	76	78	80	82	84	86	88	90	93	95	97	99	101	103	105	107	109	111	113	115	118	120	122		
39-43	2.8	72	74	76	78	80	82	84	86	88	90	92	95	97	99	101	103	105	107	109	111	113	115	117	120	122	124		
44-48	2.9	74	76	78	80	82	84	86	88	90	92	94	97	99	101	103	105	107	109	111	113	115	117	119	122	124	126		
49-53	3.0	76	78	80	82	84	86	88	90	92	94	96	99	101	103	105	107	109	111	113	115	117	119	121	124	126	128		
54-58	3.1	78	80	82	84	86	88	90	92	94	96	98	101	103	105	107	109	111	113	115	117	119	121	123	126	128	130		
59-62	3.2	79	81	83	85	87	89	91	93	95	97	99	102	104	106	108	110	112	114	116	118	120	122	124	127	129	131		
63-67	3.3	81	83	85	87	89	91	93	95	97	99	101	104	106	108	110	112	114	116	118	120	122	124	126	129	131	133		
68-72	3.4	83	85	87	89	91	93	95	97	99	101	103	106	108	110	112	114	116	118	120	122	124	126	128	131	133	135		
73-76	3.5	85	87	89	91	93	95	97	99	101	103	105	108	110	112	114	116	118	120	122	124	126	128	130	133	135	137		
77-81	3.6	87	89	91	93	95	97	99	101	103	105	107	110	112	114	116	118	120	122	124	126	128	130	132	135	137	139		
82-85	3.7	88	90	92	94	96	98	100	102	104	106	108	111	113	115	117	119	121	123	125	127	129	131	133	136	138	140		
86-89	3.8	90	92	94	96	98	100	102	104	106	108	110	113	115	117	119	121	123	125	127	129	131	133	135	138	140	142		
90-92	3.9	92	94	96	98	100	102	104	106	108	110	112	115	117	119	121	123	125	127	129	131	133	135	137	140	142	144		
93-100	4.0	94	96	98	100	102	104	106	108	110	112	114	117	119	121	123	125	127	129	131	133	135	137	139	142	144	146		

CCHE Admissions Eligibility Index, Fall 2008 – Fall 2010

HIGHER EDUCATION ADMISSION REQUIREMENTS (HEAR)		
Subject Areas*	Phase I (2008)	Phase II (2010)
English**	4 Units	4 Units
Math***	3 Units (Algebra I, II and Geometry or Equivalent)	4 Units
Natural Science***	3 Units (2 Units Lab-based)	3 Units (2 Units Lab-based)
Social Studies	3 Units (1 Unit U.S. or World History)	3 Units (1 Unit U.S. or World History)
Foreign/World Language (In Same Language)	---	1 Units
Academic Electives****	2 Units	2 Units

\*CCHE, CDE, and School Districts are developing standards for alternative demonstrations of proficiency to be accepted in lieu of course completion. For course guidelines see paragraph 4.01 of the Admissions Standards Policy.

\*\*Two units of ESL English may count for HEAR requirements when combined with two units of successfully completed college preparatory English.

\*\*\*College-preparatory ESL mathematics/science courses that include content and academic rigor/level comparable to other acceptable courses may satisfy HEAR requirements.

\*\*\*\* Acceptable Academic Electives include additional courses in English, mathematics, natural/physical sciences and social sciences, foreign languages, art, music, journalism, drama, computer science, honors, Advanced Placement, International Baccalaureate courses, and appropriate CTE courses.

CCHE INDEX SCORE FOR FIRST-TIME FRESHMAN			
Institution	Requirements (HEAR)		
	Phase I***		Phase II
	Fall 2008	Fall 2009	Fall 2010
Adams State College*	80	80	80
Colorado School of Mines	110	110	110
Colorado State University	101	101	101
Colorado State University--Pueblo	86	86	86
Fort Lewis College	92	92	92
Mesa State College*	85	85	85
Metropolitan State College of Denver**	76	76	76
University of Colorado--Boulder	103	103	103
University of Colorado--Colorado Springs	92	92	92
University of Colorado--Denver	93	93	93
University of Northern Colorado	94	94	94
Western State College	80	80	80

\*Applies to students admitted to four-year programs only; \*\*Applies to admitted students 19 years of age and younger; \*\*\*Exemption for students whose index number exceeds the minimum institutional admissions index number by more than 10 points (15 points at Metropolitan State College of Denver) for Phase I requirements in 2008 and 2009.



# NCAA FRESHMAN-ELIGIBILITY STANDARDS QUICK REFERENCE SHEET

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## KNOW THE RULES:

### Core Courses

- **NCAA Division I requires 16 core courses as of August 1, 2008.** This rule applies to any student first entering any Division I college or university on or after August 1, 2008. See the chart below for the breakdown of this 16 core-course requirement.
- **NCAA Division II requires 14 core courses.** See the breakdown of core-course requirements below. Please note, Division II will require 16 core courses beginning August 1, 2013.

### Test Scores

- **Division I** has a sliding scale for test score and grade-point average. The sliding scale for those requirements is shown on page two of this sheet.
- **Division II** has a minimum SAT score requirement of 820 or an ACT sum score of 68.
- The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.
- The ACT score used for NCAA purposes is a **sum** of the four sections on the ACT: English, mathematics, reading and science.
- **All SAT and ACT scores must be reported directly to the NCAA Eligibility Center by the testing agency. Test scores that appear on transcripts will not be used. When registering for the SAT or ACT, use the Eligibility Center code of 9999 to make sure the score is reported to the Eligibility Center.**

### Grade-Point Average

- Only core courses are used in the calculation of the grade-point average.
- **Be sure** to look at your high school's list of NCAA-approved core courses on the Eligibility Center's Web site to make certain that courses being taken have been approved as core courses. The Web site is [www.eligibilitycenter.org](http://www.eligibilitycenter.org).
- **Division I** grade-point-average requirements are listed on page two of this sheet.
- **The Division II** grade-point-average requirement is a minimum of 2.000.

#### **DIVISION I 16 Core-Course Rule**

##### **16 Core Courses:**

- 4 years of English.
- 3 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 1 year of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or nondoctrinal religion/philosophy).

#### **DIVISION II 14 Core-Course Rule**

##### **14 Core Courses:**

- 3 years of English.
- 2 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 2 years of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 3 years of additional courses (from any area above, foreign language or nondoctrinal religion/philosophy).

**PLEASE NOTE:** Beginning August 1, 2013, students planning to attend an NCAA Division II institution will be required to complete 16 core courses.

## OTHER IMPORTANT INFORMATION

- Division II has no sliding scale. The minimum core grade-point average is 2.000. The minimum SAT score is 820 (verbal and math sections only) and the minimum ACT sum score is 68.
- 14 core courses are currently required for Division II. However, beginning 2013, students will be required to complete 16 core courses.
- 16 core courses are required for Division I.
- The SAT combined score is based on the verbal and math sections only. The writing section will not be used.
- SAT and ACT scores must be reported directly to the Eligibility Center from the testing agency. Scores on transcripts will not be used.
- Students enrolling at an NCAA Division I or II institution for the first time need to also complete the amateurism questionnaire through the Eligibility Center Web site. Students need to request final amateurism certification prior to enrollment.

For more information regarding the rules, please go to [www.NCAA.org](http://www.NCAA.org). Click on "Academics and Athletes" then "Eligibility and Recruiting." Or visit the Eligibility Center Web site at [www.eligibilitycenter.org](http://www.eligibilitycenter.org).

Please call the NCAA Eligibility Center if you have questions:

Toll-free number: 877/262-1492.

<b>NCAA DIVISION I SLIDING SCALE CORE GRADE-POINT AVERAGE/ TEST-SCORE New Core GPA / Test Score Index</b>		
<b>Core GPA</b>	<b>SAT</b> Verbal and Math ONLY	<b>ACT</b>
3.550 & above	400	37
3.525	410	38
3.500	420	39
3.475	430	40
3.450	440	41
3.425	450	41
3.400	460	42
3.375	470	42
3.350	480	43
3.325	490	44
3.300	500	44
3.275	510	45
3.250	520	46
3.225	530	46
3.200	540	47
3.175	550	47
3.150	560	48
3.125	570	49
3.100	580	49
3.075	590	50
3.050	600	50
3.025	610	51
3.000	620	52
2.975	630	52
2.950	640	53
2.925	650	53
2.900	660	54
2.875	670	55
2.850	680	56
2.825	690	56
2.800	700	57
2.775	710	58
2.750	720	59
2.725	730	59
2.700	730	60
2.675	740-750	61
2.650	760	62
2.625	770	63
2.600	780	64
2.575	790	65
2.550	800	66
2.525	810	67
2.500	820	68
2.475	830	69
2.450	840-850	70
2.425	860	70
2.400	860	71
2.375	870	72
2.350	880	73
2.325	890	74
2.300	900	75
2.275	910	76
2.250	920	77
2.225	930	78
2.200	940	79
2.175	950	80
2.150	960	80
2.125	960	81
2.100	970	82
2.075	980	83
2.050	990	84
2.025	1000	85
2.000	1010	86

# Course Descriptions

## Academy of Health Sciences and Technology

The Academy of Health Sciences and Technology is a school-within-a-school serving students in grades 9-12. The Academy offers rigorous college-preparatory curricula and instruction that prepare students for admission to postsecondary educational programs in medicine, research, and allied health sciences fields. Students accepted into this program will take the following courses:

### **HSA2010 Principles of the Biomedical Sciences**

Credit: 1.0 Weighted Grade

Grade: 9, 10, 11, 12

Term: 2 Semesters

Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts including homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, fluid dynamics, and the relationship of structure of function are incorporated in the curriculum where appropriate. The course is designed to provide an overview of all the courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses.

### **HSA2050 Human Body Systems**

Credit: 1.0 Weighted Grade

Grade: 9, 10, 11, 12

Term: 2 Semesters

Students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues of a skeletal manikin, work through interesting real world cases and often play the role of biomedical professionals to solve medical mysteries. **Prerequisite: Principles of the Biomedical Sciences.**

### **HSA2060 Medical Interventions**

Credit: 1.0 Weighted Grade

Grade: 9, 10, 11, 12

Term: 2 Semesters

Students investigate the variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. The course is a "how-to" manual for maintaining overall health and homeostasis in the body as students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer; and how to prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to the wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important roles scientific thinking and engineering design play in the development of interventions of the future. **Prerequisite: Medical Interventions.**

**HPRX178 Medical Terminology**

High School Credit: 0.5 Weighted Grade

College Credit: 2 credit hours

Term: 1 Semester

Grade: 9, 10, 11, 12

This college level course introduces the student to the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. Terms included are related to major body systems, oncology, psychiatry, as well as clinical laboratory and diagnostic procedures and imaging. Class structure provides accepted pronunciation of terms and relative use in a healthcare setting. **Prerequisite: First priority is given to students in the Aurora LIGHTS program. All students must have teacher recommendation.**

**EMSX115 First Responder**

High School Credit: 0.5 Weighted Grade

College Credit: 3 credit hours

Term: 1 Semester

Grade: 9, 10, 11, 12

This college level course provides the student with core knowledge and skills to function in the capacity of a first responder arriving at the scene of an emergency, providing supportive care until advanced EMS help arrives. **Prerequisite: Students must be 16 years old by the end of the course.**

## Air Force Junior Reserve Officer Training Corps

The Air Force Junior Reserve Officer Training Corps program provides students with an introduction to the civilian and military aerospace environment and attempts to prepare students for eventual entrance into the civilian and military communities as both a participant and a leader.

Students are provided an opportunity to develop leadership skills. They organize and administer club activities, entertainment functions, staff duties, field trips, leadership classes, and general corps development. Promising cadets are counseled and have nomination opportunities to the military academies and ROTC college scholarships. Those desiring to enter military or civilian aerospace industries are provided information on related job requirements applicable and, if possible, field trips.

### Aurora Central and Hinkley High Schools Only

The Air Force Junior Reserve Officer Training Corps' mission is to develop leaders of character as well as introduce students to aerospace and the United States Air Force. It accomplishes this by providing: hands-on experience such as flights in light aircraft and field trips, academics on aviation, space, world cultures, and leadership, marching, physical training/sports, and individual leadership experience. Student contact time is broken down as follows: 40% aerospace science, 40% leadership education and marching, and 20% physical training/sports.

First year students are not required to wear a uniform or comply with grooming standards (haircuts, etc.) AFJROTC is designed in a manner not to interfere with other in school or after school programs. Students ARE NOT required to join the military if they participate in this program; however, students completing three years of the program will enter the military at a higher rank. Participation in the program also increases a student's chance of receiving a college scholarship from the military or obtaining an appointment to a military academy such as the United States Air Force Academy in Colorado Springs.

The aerospace academic course for 2010-11 will be Exploring Space: The High Frontier. This is a science course that includes the latest information available in space science and space exploration. The course begins with the study of the space environment from the earliest days of interest in astronomy and early ideas of the heavens, through the Renaissance, and on into modern astronomy. It provides an in-depth study of the Earth, sun, stars, moon, and solar system, including the terrestrial and the outer planets. It discusses issues critical to travel in the upper atmosphere such as orbits and trajectories, unmanned satellites, and space probes. It investigates the importance of entering space and discusses manned and unmanned space flights, focusing on concepts surrounding spaceflight, space vehicles, launch systems, and space missions. The section on manned spaceflight focuses on the Space Shuttle, space stations and beyond, covering milestones in the endeavor to land on the moon and to safely orbit humans and crafts for temporary and prolonged periods. The course covers the human aspect of spaceflight, focusing on the human experience in space. It also examines the latest advances in space technology, including robotics in space, the Mars Rover, and commercial uses of space.

#### **HAF1012 AFJROTC 1**

Credit: 1.0  
Grade: 9, 10, 11, 12  
Term: 2 Semesters  
**Prerequisite: None.**

#### **HAF1022 AFROTC 2**

Credit: 1.0  
Grade: 10, 11, 12  
Term: 2 Semesters  
**Prerequisite: None.**

#### **HAF1032 AFROTC 3**

Credit: 1.0  
Grade: 11, 12  
Term: 2 Semesters  
**Prerequisite: AFJROTC 1 and/or 2**

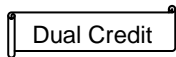
#### **HAF1042 AFJROTC 4**

Credit: 1.0  
Grade: 12  
Term: 2 Semesters  
**Prerequisite: AFJROTC 1 or 2 and 3.**

## Business and Technology

Course Options	
<b>9<sup>th</sup></b>	HBT3041 Computer Applications HBT3052 Computer Technology HBT3055 21 <sup>st</sup> Century Computer Technology Skills HBT3061 Desktop Publishing HBT3030 Word Processing
<b>10<sup>th</sup></b>	<i>All courses listed above and:</i> HBT2071 Consumer Law HBT1061 Financial Management HBT3161 Investment Management HBT2104 Marketing HBT3141 Multimedia 1 HBT3151 Multimedia 2 HBT3131 Web Design 1 HBT3133 Web Design 2
<b>11<sup>th</sup></b>	<i>All courses listed above and:</i> HBT1082 Accounting HBT2021 Business Law HBT2091 Career Development HBT2102 Entrepreneurship and Management HBT2112 Professional and Community Experience (PACE)
<b>12<sup>TH</sup></b>	<i>All courses listed above</i>

**Dual Credit** is available for some of the business technology courses. Postsecondary credit will be awarded with a C or better. There may be additional requirements for awarding credits depending on the credit granting institution. Contact your counselor for specific information.



**Watch for this symbol!** It identifies courses in which students may earn **both** high school credits **and** postsecondary credits at the same time.

**Certificates** are available through dual credit through Pickens Technical College. STEM, Arts, Design & Information Technology (Industry Sector) - Digital & Multimedia Design Pathway

- Web Design certificate – 6 postsecondary credits
  - HBT 3131 Web Design 1, HBT 3133 Web Design 2
- Multimedia Design certificate – 6 postsecondary credits
  - HBT 3141 Multimedia 1, HBT 3151 Multimedia 2
- Digital Media certificate – 9 postsecondary credits
  - HBT 3061 Desktop Publishing, HBT 3141 Multimedia 1, HBT 3151 Multimedia 2

## Business and Technology

Business and Technology courses provide opportunities for all students to meet the needs of the dynamic career/business world while satisfying their practical arts requirement. Business Technology helps all students value themselves and develop the knowledge, skills, and qualities to succeed in an ever-changing world. Participation in Career Tech Student Organizations is part of the curriculum.

The curriculum meets the diverse needs of students by preparing them to:

- manage their personal financial affairs;
- prepare for entry-level jobs; and
- prepare for higher education.

### **HBT3055 21<sup>st</sup> Century Computer Technology Skills**

Credit: 0.5

Grade: 9, 10, 11, 12

Term: 1 Semester

This course enhances the student's knowledge and fundamental skills of the Internet, e-mail, and its resources. Students learn the privacy and copyright issues with information retrieved from the Internet and experience the use of e-commerce, multimedia, and e-mail. Students explore the social, ethical, and legal implications related to the wide-spread use of computers in our society. Topics include the codes of behavior expected of the computer professional and the broader issues that affect society as a whole. These issues are explored through readings, class discussions, Internet research, guest lectures, and case studies.

### **HBTR2091 Accessing Career and Employment**

Credit: 0.5

Grade: 11, 12

Term: 1 Semester

Through guided self-analysis and interest surveys, students on an IEP will explore a variety of career clusters. By analyzing their strengths and weaknesses, students will develop self-determination skills to explore personal education plans and then develop a career plan to reach the career goals. Students will complete a letter of application, résumé, application form, and mock interview. Human relations skills for job success will be emphasized. This course is intended for students who are 16 years or older with employment as a goal on their IEPs.

### **HBTR2092 Accessing Career and Employment – Independent Study**

Credit: 0.5

Grade: 11, 12

Term: 1 Semester

This course refines skills previously learned in the basic course. Direct access to ACE instructor opportunity as well as work guidance is available. The course is intended for students who are 16 years or older with employment as a goal on their IEP.

### **HBT1082 Accounting**

Credit: 1.0

Grade: 11, 12

Term: 2 Semesters

**Postsecondary:** 4 credits ACC 121

Accounting is the language of business. Accountants plan, record, analyze, and interpret financial information to help managers and owners make business decisions. Accounting offers students an entry-level job skill, in addition to developing the personal knowledge necessary for managing checking accounts, filing income taxes, and understanding stock reports. **Students may be eligible for dual (high school/college) credit.**

Dual Credit
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**HBT4050 Adobe Illustrator 1**

Dual Credit

Credit: 0.5  
 Grade: 9, 10, 11, 12  
 Term: 1 Semester

**Postsecondary:** 3 credits  
 MGD 112

This course acquaints students with the processes of a vector drawing program on the computer. Students learn how to use the tools to create digital artwork that can be used in web design, print media, and digital screen design. **Students may be eligible for dual (high school/college) credit.**

**HBT4040 Adobe Photoshop 1**

Dual Credit

Credit: 0.5  
 Grade: 9, 10, 11, 12  
 Term: 1 Semester

**Postsecondary:** 3 credits  
 MGD 111

This course concentrates on the high-end capabilities of raster photo-editing software as an illustration, design and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics and videos. **Students may be eligible for dual (high school/college) credit.**

**HBT2021 Business Law**

Dual Credit

Credit: 0.5  
 Grade: 11, 12  
 Term: 1 Semester

**Postsecondary:** 3 credits  
 BUS 216

Instruction will emphasize public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is devoted to economic regulation, social regulation, and laws impacting labor-management issues, and environmental concerns. Students develop an understanding of the role of law in social, political, and economic change. **Students may be eligible for dual (high school/college) credit.**

**HBT4011 Advanced Placement Computer Science A**

Credit: 1.0 Weighted Grade  
 Grade: 11, 12  
 Term: 2 Semesters

This course emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development and 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. Students taking an Advanced Placement course will be expected to take the Advanced Placement examination in that subject and, depending on the test score, may receive college credit. Another way students could receive college credit for an AP course is if the instructor has adjunct status and the student has a qualifying Accuplacer score. Students should check with their high school counselor to find out if their high school offers this course for dual credit. **Prerequisite: Teacher approval.**

**HBT3052 Computer Technology**

Credit: 1.0

Grade: 9, 10, 11, 12

Term: 2 Semesters

**Postsecondary:** 4 credits CIS 118 and CIS 161

This course is designed for students who have already acquired a touch typing skill. Applications such as word processing, database, spreadsheet, presentation software, and the Internet will be taught. Students will be able to perform computer operations commonly used in school/college, career, and personal lives. **Students may be eligible for dual (high school/college) credit.**

Dual Credit

**HBT3061 Desktop Publishing**

Credit: 0.5

Grade: 9, 10, 11, 12

Term: 1 Semester

**Postsecondary:** 3 credits CIS 167

This course provides the student with the ability to change ordinary typewritten text into attractive, professional-looking documents for personal and business use. The Internet, digital cameras, and scanners will be used along with publishing software to create and enhance logos, invitations, advertisements, posters, brochures, newsletters, etc. **Students may be eligible for dual (high school/college) credit. Prerequisite: A working knowledge of word processing.**

Dual Credit

**HBT4010 Job Experience I**

**HBT4020 Job Experience II**

Credit: 1.0

Grade: 11, 12

Term: 2 Semesters each

This course provides students on an IEP with the opportunity to receive school credit for work experience (internship, competitive employment, volunteer community experience). Credit will be granted for students who successfully document 90 hours of work experience. Flexibility in requirements provided per ACE program. This course will be graded as Satisfactory or Unsatisfactory. Practical arts credit may be earned with a grade of Satisfactory, but the course will not be computed in the student's GPA.

**HBT3141 Multimedia 1**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

**Postsecondary:** 3 credits MGB 102

Multimedia is the use of computers to integrate text, graphics, video, animation, and sound into a presentation. In this project-based course, students will incorporate advanced Internet search techniques, the research process, and personal creativity to develop a visual presentation. Students will edit both digital still and motion images to produce a final product. These skills will assist students entering business and computer/ technology careers, and are desirable for the college-bound student as well. **Students may be eligible for dual (high school/college) credit. Prerequisite: Computer Applications, Computer Technology, or teacher approval.**

Dual Credit

**HBT3151 Multimedia 2**

Credit: 0.5  
 Grade: 10, 11, 12  
 Term: 1 Semester

Dual Credit
-------------

**Postsecondary:** 3 credits MGD 122

Multimedia 2 is a continuation of Multimedia 1 with the additional use of three-dimensional software applications to produce projects. In this projects-based course, students will explore a variety of ways software can be used in games, animation, movies, and more. Personal creativity and innovation will be used to explore the wide variety of uses these types of software applications can add to presentations, movies, and animation. Students will become familiar with various software applications. These skills will assist students entering business and computer/technology careers and are desirable for college-bound students. **Students may be eligible for dual (high school/college) credit. Prerequisite: Multimedia 1.**

**HBT3131 Web Design 1**

Credit: 0.5  
 Grade: 10, 11, 12  
 Term: 1 Semester

Dual Credit
-------------

**Postsecondary:** 3 credits MGD 141

Web pages are not just for big companies or the rich and famous. In this course, students will learn to apply HTML coding and the skills of planning, producing, and maintaining a Web site. In addition, students will use graphics, text, and individual creativity to enhance Web page designs. Skills from this course assist in entrance to the graphics design/technology industry and are also valuable in other careers. **Students may be eligible for dual (high school/college) credit. Prerequisite: Computer Applications, Computer Technology, or teacher approval.**

**HBT3133 Web Design 2**

Credit: 0.5  
 Grade: 10, 11, 12  
 Term: 1 Semester

Dual Credit
-------------

**Postsecondary:** 3 credits MGD 241

Students are introduced to intermediate design principles using Dreamweaver, Fireworks, and Photoshop with an emphasis on Flash to create a dynamic Web site. Throughout the semester, students work on individual and collaborative in-class and online activities, presentations, and individual projects. By the end of the course, students will be able to create intermediate to advanced Web sites, which include the following HTML elements: tables, layers, frames, image maps, rollovers, forms, graphics, animated gifs, sound, and Java scripting. **Students may be eligible for dual (high school/college) credit. Prerequisite: Web Design 1 or teacher approval.**

**HBT3030 Word Processing**

Credit: 0.5  
 Grade: 9, 10, 11, 12  
 Term: 1 Semester

This course is designed for the beginning computer user who needs to develop the skill of keyboarding by touch and basic word processing skills. Students will learn to create and format basic documents including letters, interoffice correspondence, tables, and reports. The skills obtained in this course will benefit students in future course work in high school and college.

**Additional courses for computer credit are offered at Pickens Technical College:**

- Business and Computer Skills Computer Technology
- Computer Service Technician Computer Technology
- Computer-Aided Drafting Year 1 Computer Technology

- Multimedia Graphic Design Computer Technology
- Executive Internship Program
- Landscape Management Year 1 Computer Technology
- Medical Office Specialist Computer Technology
- Network Technician Computer Technology
- Precision and Computer-Aided Machining Year 1 Computer Technology

# Electives

## **HEL2091 College Prep**

Credit: 0.5

Term: 1 Semester

This course develops personalized approaches to learn and succeed for easier transition to college. Topics include goal-setting, time management, note-taking, test-taking, and critical thinking strategies for student success.

## **HEL1224 Freshman Seminar**

Credit: 0.5

Grade: 9

Term: 1 Semester

Students new to high school will review, apply, and extend the skills needed to be successful in high school. Topics include test-taking skills, note-taking formats, organizational tips, using and creating mnemonic devices, goal setting, and reading strategies. Students will apply techniques, tools, and topics from the class to their current learning environments. This course will be graded as Satisfactory or Unsatisfactory. An elective credit of 0.5 may be earned with a grade of Satisfactory, but the course will not be computed in the student's GPA.

## **HEL6042 Advanced Journalism/Newspaper**

Credit: 1.0

Grade: 10, 11, 12

Term: 2 Semesters

Advanced Journalism/Newspaper extends topics covered in Journalism 1 with emphasis on producing the school newspaper. Students are required to learn photography skills, sell advertisements, use desktop publishing software, and work as a productive member of a team. The course provides opportunities for leadership, decision-making and problem solving. Opportunities also exist for free-lance writing, workshops, intra-district conferences and exploration of careers in journalism. **Advanced Journalism/Newspaper may be repeated for credit. Prerequisite: Journalism 1 and teacher approval.**

## **HEL2021 Peer Mentor**

Credit: 0.5

Grade: 9, 10, 11, 12

Term: 1 Semester

This course provides students with opportunities to explore careers in education. Through participation in in-class career awareness and postsecondary opportunities for careers in education, students should have a stronger understanding of the vast options that exist in the education field of study. An integral part of this class is ACHS student contact in an elementary setting. Students will be paired with Peoria Elementary educators for teacher assistantships. **Prerequisite: None.**

## **HEL1291 Teacher Assistant**

Credit: 0.5

Grade: 9, 10, 11, 12

Term: 1 Semester

Teacher Assistants are responsible for helping teachers in classrooms. An elective credit of 0.5 may be earned with a grade of Pass or Fail. A maximum of 1.0 credit in Teacher Assistant can be applied to the 22 credits required for graduation. This course will be graded as Satisfactory or Unsatisfactory. An elective credit of 0.5 may be earned with a grade of Satisfactory, but the course will not be computed in the student's GPA. **Prerequisite: None.**

**HEL6062 Yearbook Production**

Credit: 1.0

Grade: 9, 10, 11, 12

Term: 2 Semesters

Yearbook Production is a laboratory situation that includes copywriting, photojournalism, layout, design, budgeting, sales, advertising, and desktop publishing. **Credit in this course may not apply to the Language Arts requirement, but will apply to the total units of credit needed for graduation. Yearbook Production may be repeated for elective credit. Prerequisite: Teacher approval; Journalism 1 is recommended.**

## English Language Acquisition

<b>*Beginning Level 9<sup>th</sup> – 12<sup>th</sup> Grade</b>	<b>*Early Intermediate Level 9<sup>th</sup>-12<sup>th</sup> Grade</b>
ELD 1 (English Language Development) (1 elective credit)	ELD 2 (English Language Development) ( 1 elective credit)
ELD 1 Literacy (1 language arts credit) (appropriate instruction using sheltering techniques)	Language Arts (English 9 or other appropriate English class with instruction using sheltering techniques)
Math (grade level appropriate instruction using sheltering techniques)	Math (grade level appropriate instruction using sheltering techniques)
Science (grade level appropriate instruction using sheltering techniques)	Science (grade level appropriate instruction using sheltering techniques)
Social Studies (grade level appropriate instruction using sheltering techniques)	Social Studies (grade level appropriate instruction using sheltering techniques)
<b>*Intermediate Level 9<sup>th</sup>-12<sup>th</sup> Grade</b>	<b>*Proficient Level 9<sup>th</sup>-12<sup>th</sup> Grade</b>
ELD 3 (English Language Development) (1 elective credit)	ELD 4 or 5 (English Language Development) (1 elective credit)
Language Arts (English 10 or appropriate English class with instruction using sheltering techniques)	Language Arts (English 11 or other appropriate English class with instruction using sheltering techniques)
Math (grade level appropriate instruction with possible use of sheltering techniques)	Math (grade level appropriate instruction with possible use of sheltering techniques)
Science (grade level appropriate instruction with possible use of sheltering techniques)	Science (grade level appropriate instruction with possible use of sheltering techniques)
Social Studies (grade level appropriate instruction with possible use of sheltering techniques)	Social Studies (grade level appropriate instruction with possible use of sheltering techniques)

\*NOTE: All students who are identified with a home language other than English are assessed to determine their language proficiency through the use of the Colorado English Language Assessment (CELA). The courses listed above are recommended for students who score at these specific language levels. Parents can request more information from counselors about their students' language levels and CELA results.

- “Grade level with sheltered instruction” means that the teacher is aware of the students’ levels of English acquisition and provides instruction in a way that makes the content comprehensible for those students. It does not mean that this must be a special class specifically for English Language Learners, although it might be the most appropriate for Beginning or Early Intermediate level students.
- Acquisition levels may originally be based on the designation determined by the Colorado English Language Assessment (CELA), but should be flexible, with student placement evaluated using the ELD continuum and other assessments as guides. Re-evaluation of placement should occur, at minimum, on a quarterly basis.
- Individual student schedules may be adjusted based on graduation requirements. Students must consult with their school counselor for suggested changes in the above schedule.

# English Language Acquisition

## **HES1206 ELD 1**

Credit: 1.0  
Grade: 9, 10, 11, 12  
Term: 2 Semesters

This course is designed for students with beginning levels of English language development. Colorado state standards for English language development guide instruction for the ELD 1 block and are used to monitor growth over time. Daily instruction focuses on the forms and functions of the English language and listening, speaking, reading, and writing skills.

## **HES1205 ELD 1 Literacy**

Credit: 1.0 Language Arts  
Grade: 9, 10, 11, 12  
Term: 2 Semesters

This course is designed to provide both direct language instruction and age-appropriate literacy skills focusing on strengthening the reading and writing skills of students through a Readers/Writers Workshop approach. The Readers/Writers Workshop organizes instructional time and content to ensure that students have extended periods of time for reading, writing, and talking about their learning. Students have access to a variety of rich texts and resources for reading. The workshop uses a mixture of whole-class, small group, partner, and one-on-one instruction that centers on meaningful conversations about content, strategies, and demonstrations of how readers, writers, and texts work. This portion of the curriculum is aligned with Colorado state standards and benchmarks.

## **HES1208 ELD 2**

## **HES1222 ELD 3**

## **HES1223 ELD 4**

## **HES1224 ELD 5**

Credit: 1.0 for each course  
Grade: 9, 10, 11, 12  
Term: 2 Semesters for each course

In these courses, students continue their English language development. These courses are designed for Early Intermediate, Intermediate, and Proficient English language learners who will improve their comprehension in oral presentations, make conversations in both social and academic settings, apply reading skills to a variety of print, and write for a variety of purposes. Daily instruction focuses on the forms and functions of the English language and listening, speaking, reading, and writing skills. Students enrolled in this class are typically also enrolled in a sheltered section of English 9, 10, 11, or 12.

## Fine Arts

NCAA recently reviewed course approvals for Aurora Public Schools. After review, NCAA has withdrawn approval for some courses. The following courses no longer carry NCAA approval:

- HFA7012 Introduction to Theatre Arts
- HLA7022 Theatre Arts 1
- HFA7032 Theatre Arts 2
- HFA7042 Theatre Arts 3

## Music

All music classes are electives and students wishing to participate in music can find a class to meet their needs, whether or not they have had any formal music training. Non-performance classes that are available to students include beginning instruments, beginning piano, and beginning guitar. Performance classes that are available include choir, band, jazz ensemble, and orchestra. It is the aim of the music department to broaden music course offerings so that non-performing students, as well as those students who traditionally select these classes, may participate.

### HMU3052 Advanced Performing Arts

Credit: 1.0

Grade: 11, 12 or Teacher Approval

Term: 2 Semesters

This class may be taken for two years. This class combines acting and singing in order to provide the advanced student with an in-depth exploration of the performing arts. Units may include: the study and analysis of various styles of dramatic production; performance of monologues, duet scenes, mini-musicals, jazz music, and choral singing; participation in and direction of one-act productions; and the study of a variety of theatrical and musical genres. Students enrolled in Advanced Performing Arts will participate in or attend four theatrical productions and be responsible for attending or participating in four school concerts. **Prerequisite: None.**

### HMU1032 Jazz Ensemble

Credit: 1.0

Grade: 9, 10, 11, 12

Term: 2 Semesters

This is a highly selective, small ensemble that studies the modern, popular instrumental style and materials of jazz. In most cases, these students will be selected from the major performing groups. Students in this class are required to participate in co-curricular performances (a combination of festivals, concerts, and contests). **Prerequisite: Teacher approval and audition.**

### HMU2122 Men's Chorus

Credit: 1.0

Grade: 9, 10, 11, 12

Term: 2 Semesters

This class includes a study of the vocal performance skills of the young male singer through the principles of good posture, efficient breathing, rich tonal quality, and effective communication. The four elements of singing will be stressed: respiration, phonation, resonance, and articulation. This group will perform at four school concerts and at two community concerts per semester. It is not necessary to audition for this class. **Prerequisite: None.**

### **HMU5012 Music Theory**

Credit: 1.0

Grade: 11, 12

Term: 2 Semesters

The material covered includes clefs, notation, keys, fundamental rhythm and meter concepts, intervals, triads, chord function, ear training, sight reading, keyboard harmony, survey of historical styles and forms. This course also touches modern harmonic practices and introduction to creative expression.

**Prerequisite: Teacher approval.**

### **HMU1062 Percussion Ensemble**

Credit: 1.0

Grade: 9, 10, 11, 12

Term: 2 Semesters

Percussion Ensemble is a course designed to provide music performance opportunities through the percussion medium. The class shares many traits with both the concert band and string orchestra classes in that it is performance-oriented and applies musical concepts toward a given piece of music. Performance concepts will be applied to the various instruments of the percussion family including: marimba, vibraphone, xylophone, orchestra bells, chimes, snare drum, bass drum, cymbals, drum set, and auxiliary percussion. The course culminates in a concert presentation once each semester.

**Prerequisite: None.**

### **HMU1042 Symphonic/Marching Band**

Credit: 1.0

Grade: 9, 10, 11, 12

Term: 1 Semester

Symphonic Band will emphasize a variety of music. One main goal is proficiency through performance. Theory and sight reading are emphasized. Students are required to participate in the following co-curricular activities: home football games, concert festivals, school concerts, community parades, and pep band performances. Colorado High School Activities Association (CHSAA) eligibility rules apply for CHSAA sponsored competitive events. **Prerequisite: Teacher approval and audition. Ninth grade students may be included with approval of the teacher.**

### **HMU1052 Symphonic Orchestra**

Credit: 1.0

Grade: 9, 10, 11, 12

Term: 2 Semesters

The study of string instruments of the orchestra is offered to all interested and qualified students. Emphasis is placed on the development of particular skills through carefully selected material to fit the individual and group needs. Students are required to participate in co-curricular performances (combination of festivals, concerts, and contests). Alternative assignments may be substituted for prearranged excused absences from co-curricular activities. The All-District Orchestra is composed of students from the district's high schools. Selection for the All-District Orchestra is based on an audition. **Prerequisite: Teacher approval.**

### **HMU2072 Vocal Ensemble – Pop**

Credit: 1.0

Grade: 10, 11, 12

Term: 2 Semesters

This is a highly selective, small ensemble that studies vocal jazz, Broadway, and popular music. Ideally, the students selected can perform instrumentally as well as vocally. This group performs often for community functions, and students are expected to attend each performance. Students will be selected from the membership of the major choral performing groups. Requirements for this course include participation in a minimum of one festival and/or competition and four school concerts.

Participation in a minimum of eight community concerts per semester will be expected for a student to earn a higher than passing grade. Colorado High School Activities Association (CHSAA) eligibility rules apply for CHSAA sponsored competitive events. **Prerequisite: Teacher approval and audition.**

### **HMU2132 Women's Chorus**

Credit: 1.0

Grade: 9, 10, 11, 12

Term: 2 Semesters

The literature for this group will be chosen from compositions written especially for female singers. Voice placement and vocal support will be stressed. Basic music theory and sight reading skills will be incorporated into each class period. Students are required to participate in four school concerts.

**Prerequisite: None.**

### **HMU2112 Women's Ensemble**

Credit: 1.0

Grade: 9, 10, 11, 12

Term: 2 Semesters

This is a selective ensemble that offers a rich and varied program of music, including three-part and four-part songs from all periods of music history. Basic and elementary theory, including musical terms, are reviewed and studied through materials used in this class. Requirements for this course include participation in a minimum of one festival and/or competition and four school concerts. Colorado High School Activities Association (CHSAA) eligibility rules apply for CHSAA sponsored competitive events. **Prerequisite: Teacher approval and audition.**

## **Theatre**

**NCAA recently reviewed course approvals for Aurora Public Schools. After review, NCAA has withdrawn approval for some courses. The following courses no longer carry NCAA approval:**

- **HFA7012 Introduction to Theatre Arts**
- **HLA7022 Theatre Arts 1**
- **HFA7032 Theatre Arts 2**
- **HFA7042 Theatre Arts 3**

The theatre program offers students experience to prepare themselves for study in the profession or as informed, responsible theatre audiences. Course offerings include opportunities to build self-confidence, both individually and within a group; to study acting, directing, design and stagecraft, or theatre history; and to read, view, and analyze plays.

Two-semester courses may be taken during one semester with the permission of the instructor.

### **HFA7012 Introduction to Theatre Arts**

Credit: 1.0

Grade: 9, 10, 11, 12

Term: 2 Semesters

Introduction to Theatre Arts provides students with opportunities to explore, investigate, and experience many aspects of theatre in order to become knowledgeable, responsible theatergoers and informed theatre participants. Units may include: improvisation, pantomime and theatre games; stage movement and acting; play reading and analysis; and elements of production. All students enrolled in theatre arts classes at all levels will participate in or attend at least four theatrical productions or complete an alternative assignment approved by the teacher. **A fee may be required for supplies. Introduction to Theatre Arts MAY NOT be taken for Language Arts credit. Prerequisite: None.**

### **HFA7052 Technical Theatre**

Credit: 1.0

Grade: 10, 11, 12

Term: 2 Semesters

Students will have the opportunity to study a play from script through production. Units may include scenic design, building, painting, lighting, sound, costuming, and theatre management. All students enrolled in theatre arts classes at all levels will participate in or attend four theatrical productions or complete an alternative assignment approved by the teacher. **This class may be taken for two years with teacher approval. Technical Theatre MAY NOT be used for Language Arts credit. Prerequisite: None.**

### **HLA7022 Theatre Arts 1**

Credit: 1.0 Language Arts

*Effective with the graduating class of 2015, this course may not be taken for Language Arts credit*

Grade: 10, 11, 12

Term: 2 Semesters

Theatre Arts 1 examines the development of theatre history. Students also study acting styles from various historical periods. Additional units may include improvisation, pantomime, play reading and analysis, and elements of production. All students enrolled in theatre arts classes at all levels will participate in or attend at least four theatrical productions or complete an alternative assignment approved by the teacher. **For students in the graduating classes of 2012, 2013, and 2014, this course does meet the Language Arts requirement for high school graduation; however, according to CCHE guidelines, it will not be accepted for admission to Colorado four-year universities. Effective with the graduating class of 2015, this course may not be taken for Language Arts credit. Prerequisite: Introduction to Theatre Arts and/or teacher approval.**

### **HFA7032 Theatre Arts 2**

Credit: 1.0

Grade: 11, 12

Term: 2 Semesters

Theatre Arts 2 includes the study and analysis of styles of theatrical production. Students will read, analyze, and choose scenes to perform in the various styles. They will learn stage dialect and develop solo and ensemble scenes for performances. Students will also prepare a résumé and develop audition material. All students enrolled in theatre arts classes at all levels will participate in or attend at least four theatrical productions or complete an alternative assignment approved by the teacher. **Theatre Arts 2 MAY NOT be taken for Language Arts credit. Prerequisite: Theatre Arts 1 and/or teacher approval.**

### **HFA7042 Theatre Arts 3**

Credit: 1.0

Grade: 10, 11, 12

Term: 2 Semesters

Students will select a style, a movement, or a playwright to research, to share with other students, to act and to direct. Students will direct a long scene or a one-act play, developing a director's prompt book as part of the project. Students will also develop a career plan. All students enrolled in Theatre Arts 3 will participate in a minimum of one school production and attend at least three others. **Theatre Arts 3 MAY NOT be taken for Language Arts credit: Prerequisite: Theatre Arts 1, Theatre Arts 2, and/or teacher approval.**

## Visual Arts

The visual arts are basic to a complete education, providing students with a unique opportunity to develop skills in the use of media, tools, techniques, and critical thought processes that are important for success in our rapidly changing world. As students make cultural and historical connections to works of art, they discover their own heritage and learn to understand and value the cultures of others. An education in the visual arts:

- prepares students for success in a changing world;
- helps students develop skills in thinking, knowing, learning, and communicating;
- promotes effective presentation of ideas;
- stimulates thinking that can lead to creative solutions;
- increases insight for informed judgments;
- makes cultural and historical connections;
- fosters appreciation of commonalities and differences; and
- engages, inspires, and compels students to learn throughout their lives.

For a complete listing of state standards for art, please visit the Colorado Department of Education's Web site at <http://www.cde.state.co.us/cdeassess/standards/pdf/visarts.pdf>.

**Fees: It will be necessary for the student in these courses to pay a fee for supplies.** Costs will vary. Students should contact the school bookkeeper prior to registration to determine the approximate cost of materials needed for courses in which they are interested.

**Prerequisites: All prerequisites must be completed with a passing grade of C or better.**

### **HAR2011 Ceramics 1**

Credit: 0.5

Grade: 9, 10, 11, 12

Term: 1 Semester

Students will construct clay pots and forms using both hand building and wheel forming methods. Glazing and decorating of the clay forms is also covered. Special emphasis is placed on individual creativity. **A fee will be required for supplies. Prerequisite: None.**

### **HAR2021 Ceramics 2**

Credit: 0.5

Grade: 9, 10, 11, 12

Term: 1 Semester

The advanced student will be able to choose and specialize in either hand building clay forms or using the potter's wheel to construct clay pots. **A fee will be required for supplies. Prerequisite: Ceramics 1.**

### **HAR2031 Ceramics 3**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

Continued specialization in either hand building or wheel throwing will be the basis of this class. Individual direction and development is emphasized. **A fee will be required for supplies. Prerequisite: Ceramics 2.**

### **HAR2041 Ceramics 4**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

The focus of this advanced course is personal expression. Students will continue developing their own style as well as exploring sophisticated ceramic techniques. Students will have a portfolio of their work when the course is completed. **A fee will be required for supplies. Prerequisite: Ceramics 3.**

### **HAR1012 Design: An Introduction to Art**

Credit: 1.0

Grade: 9, 10, 11, 12

Term: 2 Semesters

Design is the introductory course to art. Students are taught the elements and principles of design through the use of a variety of art materials and techniques. Design provides a foundation for other art courses. **A fee will be required for supplies. Prerequisite: None.**

### **HAR3011 Drawing 1**

Credit: 0.5

Grade: 9, 10, 11, 12

Term: 1 Semester

In this course, students work with a variety of drawing media and fundamental drawing techniques: value (shading), contour (continuous line), perspective (three-dimensional figure), and gesture. Drawing is presented both as a tool that can be used in other art courses and as an art form in itself. **A fee will be required for supplies. Prerequisite: None.**

### **HAR3021 Drawing 2**

Credit: 0.5

Grade: 9, 10, 11, 12

Term: 1 Semester

At this level, students work with more involved drawing problems and techniques. Advanced skills in drawing, use of new materials, and presentation of works are all emphasized. **A fee will be required for supplies. Prerequisite: Drawing 1.**

### **HAR3031 Drawing 3**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

Students in this course will work on developing an individual style through personal expression and will explore more sophisticated drawing techniques. Opportunities are presented for working independently. **A fee will be required for supplies. Prerequisite: Drawing 2.**

### **HAR3041 Drawing 4**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

The focus of this advanced course is personal expression. Students will continue developing their own style as well as exploring sophisticated drawing techniques. Students will have a portfolio of their work when the course is completed. **A fee will be required for supplies.**

**Prerequisite: Drawing 3.**

### **HAR4011 Jewelry 1**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

Designing, fabricating, and casting of jewelry pieces with a variety of materials provide the core for this course. Emphasis is on basic techniques: i.e., resin casting, silver soldering, and metal piercing using both precious and non-precious materials. **A fee will be required for supplies. Prerequisite: None.**

**HAR4021 Jewelry 2**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

Students construct and cast a variety of jewelry using contemporary designs, materials, and techniques. More complicated processes, such as soldering and stone setting are introduced with emphasis on increasing skills and design levels. **A fee will be required for supplies. Prerequisite: Jewelry 1.**

**HAR4031 Jewelry 3**

Credit: 0.5

Grade: 11, 12

Term: 1 Semester

Independent study and development of a personal style are stressed at this level, along with more involved processes. **A fee will be required for supplies. Prerequisite: Jewelry 2.**

**HAR4041 Jewelry 4**

Credit: 0.5

Grade: 11, 12

Term: 1 Semester

The focus of this advanced course is personal expression. Students will continue developing their own style as well as exploring sophisticated jewelry techniques. Students will have a portfolio of their work when the course is completed. **A fee will be required for supplies. Prerequisite: Jewelry 3.**

**HAR5011 Painting 1**

Credit: 0.5

Grade: 9, 10, 11, 12

Term: 1 Semester

In this course, students study color theory, mix paints, and experiment with various brush and palette knife techniques. **A fee will be required for supplies. Prerequisite: None.**

**HAR5021 Painting 2**

Credit: 0.5

Grade: 9, 10, 11, 12

Term: 1 Semester

Students are encouraged to work with their own artistic ideas and to study techniques used by artists from other times and places. **A fee will be required for supplies. Prerequisite: Painting 1.**

**HAR5031 Painting 3**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

Students in this course are expected to work on development of an individual style and will continue exploration of more sophisticated painting techniques. Opportunities are presented for working independently. **A fee will be required for supplies. Prerequisite: Painting 2.**

### **HAR5041 Painting 4**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

The focus of this advanced course is personal expression. Students will continue developing their own style as well as exploring sophisticated painting techniques. Students will have a portfolio of their work when the course is completed. **A fee will be required for supplies.**

**Prerequisite: Painting 3.**

### **HAR6011 Photography 1**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

This course is an introduction to photography as a fine art medium and develops skills necessary for basic film and digital camera operation. Students experience a skill-building progression including camera work, compositional techniques, film development, printing, and other darkroom and digital techniques. Emphasis is on the production of quality photographs that are visually stimulating and technically sound. Coursework will be done in a hybrid of black and white and digital techniques. **A fee will be required for supplies. Prerequisite: None.**

### **HAR6021 Photography 2**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

More sophisticated approaches to photographic techniques and media are introduced. Students continue to work with both 35mm and digital cameras. An in-depth understanding of the mechanical aspects of photography, as well as artistic possibilities is emphasized. Individualized ideas and self-expression are encouraged. Students continue to work in black and white, as well as digital photography and Adobe Photoshop.

**A fee will be required for supplies. Prerequisite: Photography 1.**

### **HAR6031 Photography 3/4**

Credit: 0.5

Grade: 11, 12

Term: 1 Semester

A variety of advanced techniques are introduced at this level. Students are encouraged to carry out ideas on a more sophisticated and independent basis. Digital photography and knowledge of Adobe Photoshop will be incorporated along with black and white printing. This course can be repeated for credit. **A fee will be required for supplies. Prerequisite: Photography 2.**

### **HAR8015 Advanced Placement Studio Art: 2D**

Credit: 1.0 Weighted Grade

Grade: 11, 12

Term: 2 Semesters

The Advanced Placement Studio Arts program is intended for the student who is seriously interested in the practice of art as a career. Using specified guidelines, the student must complete a portfolio that will be submitted for evaluation through the national AP program. The 2D portfolio demonstrates the students understanding of design principles as applied to a two-dimensional surface. Any 2-D process or medium may be submitted, including, but not limited to, graphic design, digital imaging, photography, collage fabric design, weaving, illustration, painting, printmaking, etc. A background in several art courses is desirable. Some students secure advanced placement and/or college credit in art at many colleges and universities. **A fee will be required for supplies. Prerequisite: Teacher approval.**

**HAR8020 Advanced Placement Studio Art: 3D**

Credit: 1.0 Weighted Grade

Grade: 11, 12

Term: 2 Semesters

The Advanced Placement Studio Arts program is intended for the student who is seriously interested in the practice of art and fabrication as a career. Using specified guidelines, the student must complete a portfolio that will be submitted for evaluation through the national AP program. The 3D portfolio demonstrates the students understanding of design principles as related to depth and space. Examples of approaches include figurative or nonfigurative sculpture, architectural models, metal work, ceramics, and three-dimensional fiber arts, among others. A background in several art courses is desirable. Some students secure advanced placement and/or college credit in art at many colleges and universities. **A fee will be required for supplies. Prerequisite: Teacher approval.**

**HAR8021 Independent Studio**

Credit: 0.5

Grade: 11, 12

Term: 1 Semester

Students work in the studio area of their choice. Content of this independent study experience will be determined by the student and supervising teacher. The course may be repeated for additional credit. It is required that students complete all four levels of any given art area before taking Independent Studio. **A fee will be required for supplies. Prerequisite: Teacher approval.**

# Health

## **HHE1011 Health**

Credit: 0.5

Grade: 9, 10

Term: 1 Semester

Health addresses four major topics related to personal wellness. The topics are nutrition, emotional health, relationships, and human sexuality. In addition, decision making, goal setting, and consumer health are addressed throughout the course. This course meets the 0.5 Health credit. **Prerequisite: None.**

## Language Arts Course Options

<b>Recommended Sequence</b>	English 9 <b>OR</b> Honors English 9 (1.0) English 10 <b>OR</b> Honors English 10 (1.0) English 11 <b>OR</b> Honors English 11 <b>OR</b> AP Language and Composition English 12 OR 12 <sup>th</sup> Grade English options <b>OR</b> Honors English 12 <b>OR</b> AP Literature and Composition	
<b>11<sup>th</sup> and 12<sup>th</sup> Grade Course Options</b>	Commercial Broadcasting (1.0)* Introduction to Speech (0.5) Public Speaking (0.5) Competitive Speech (1.0)* Student Congress and Debate (0.5) Journalism 1 (1.0) Theatre Arts 1* (1.0)	
<b>12<sup>th</sup> Grade Course Options</b>	English 12 (1.0) AP Literature and Composition (1.0)* Honors English 12 (1.0)*	Pickens Technical College courses: <ul style="list-style-type: none"> <li>• Executive Internship English (0.5)</li> </ul>

**\*Prerequisite required. Please see course descriptions for specific course prerequisites.**

## Language Arts Course of Study Options

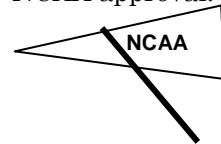
	APS Graduation Requirements	Most 4 Year Colleges and Universities	Highly Selective Colleges and Universities
	4.0 credits	4.0 credits	4.0 credits including honors and/or AP courses
9 <sup>th</sup>	English 9 <i>or</i> Honors English 9 (1.0)	English 9 <i>or</i> Honors English 9 (1.0)	English 9 <i>or</i> Honors English 9 (1.0)
10 <sup>th</sup>	English 10 <i>or</i> Honors English 10 (1.0)	English 10 <i>or</i> Honors English 10 (1.0)	English 10 <i>or</i> Honors English 10 (1.0)
11 <sup>th</sup>	English 11 <i>or</i> Honors English 11 <i>or</i> AP Language and Composition (1.0)	English 11 <i>or</i> Honors English 11 <i>or</i> AP Language and Composition (1.0)	English 11 <i>or</i> Honors English 11 <i>or</i> AP Language and Composition (1.0)
12 <sup>th</sup>	English 12 <i>or</i> Language Arts options <i>or</i> Honors English 12 <i>or</i> AP Literature and Composition (1.0)	English 12 <i>or</i> English course options (excluding CCHE-identified courses*) <i>or</i> Honors English 12 <i>or</i> AP Literature and Composition (1.0)	English 12 <i>or</i> English course options (excluding CCHE-identified courses*) <i>or</i> Honors English 12 <i>or</i> AP Literature and Composition (1.0)

**\*Colorado Commission on Higher Education Admissions Standards** identifies a combination of courses, primarily in the areas of English, mathematics, natural and physical sciences, and social sciences that students should plan to complete as preparation for entering one of Colorado’s four-year public colleges or universities. The complete list of courses illustrating classes that would meet the expectations of the precollegiate Admission Requirements is available at <http://www.state.co.us/cche/academic/admissions.html>. Specifically with regard to English, while the following courses **do meet the requirements for high school graduation in Colorado**, according to CCHE guidelines, **they will not be accepted for admission to Colorado four-year universities:**

- Pre-freshman level English
- Remedial and developmental English
- Business English
- School publications
- Yearbook
- Drama/Theatre (appropriate as academic elective)
- Journalism (appropriate as academic elective)

NCAA recently reviewed course approvals for Aurora Public Schools. After review, NCAA has withdrawn approval for some courses. The following courses **no longer carry** NCAA approval:

- All theatre arts courses
- HLA5032 Competitive Speech
- HLA5071 Student Congress and Debate



## Language Arts

### Recommended Sequence:

- 9<sup>th</sup> Grade: English 9 or Honors English 9  
10<sup>th</sup> Grade: English 10 or Honors English 10  
11<sup>th</sup> Grade: English 11 or Honors English 11 or AP Language and Composition  
12<sup>th</sup> Grade: English 12, English electives, Honors English12, or AP Literature and Composition

### 9<sup>th</sup> Grade

Students should take English 9 or Honors English 9. In addition, students in 9<sup>th</sup> grade may take a speech course or Journalism 1 for Language Arts credit. If 9<sup>th</sup> graders choose to take these courses, they will count toward additional credits.

#### HLA1012 English 9

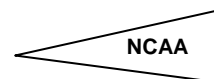
NCAA

Credit: 1.0 Language Arts

Grade: 9

Term: 2 Semesters

English 9 focuses on strengthening the reading and writing skills of all students through a Readers/Writers Workshop approach. The Readers/Writers Workshop organizes instructional time and content to ensure that students have extended periods of time for reading, writing, and talking about their learning. Students have access to a variety of rich texts and resources for reading. They receive appropriate instruction in skills and strategies to strengthen their literacy skills and support their reading and writing processes. The workshop uses a mixture of whole-class, small group, partner and one-on-one instruction that centers on meaningful conversations about content, strategies, and demonstrations of how readers, writers, and texts work. English 9 curriculum priorities are aligned with Colorado state standards 9<sup>th</sup> grade benchmarks. The most important goal of English 9 is the development of independent readers, writers, and thinkers. **Prerequisite: None.**



#### HLA1022 Honors English 9

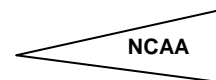
NCAA

Credit: 1.0 Language Arts, Weighted Grade

Grade: 0

Term: 2 Semesters

Honors English 9 is designed for the highly motivated student who demonstrates strong academic ability and interest in an accelerated curriculum. The course requires a higher standard of performance across a variety of contexts than English 9. The course is taught in a Readers/Writers Workshop approach with emphasis on advanced reading and writing skills through a broad range of challenging texts and writing experiences. Students have access to increasingly complex texts and rich resources for reading. They receive appropriate instruction to refine their literacy skills and support their reading and writing processes in complex texts. Students are expected to engage more critically with texts, so concepts and topics are addressed with greater depth and complexity. Writing for a variety of purposes and audiences in Honors English 9 also reflects increasing sophistication. Honors English 9 curriculum priorities are aligned with Colorado state standards 9<sup>th</sup> grade benchmarks. The most important goal of Honors English 9 is to increase the sophistication of independent readers, writers, and thinkers. **Prerequisite: Teacher approval.**



## 10<sup>th</sup> Grade

Students should take English 10 or Honors English 10. A student may receive up to 1.0 Language Arts credit for Journalism 1, Theatre Arts 1, or courses in speech, after which these courses provide Elective credit.

### HLA2042 English 10

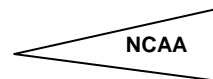
NCAA

Credit: 1.0 Language Arts

Grade: 10

Term: 2 Semesters

English 10 continues the focus on strengthening the reading and writing skills of all students through a Readers/Writers Workshop approach. Students in English 10 continue to have extended periods of time for reading, writing, and talking about their learning. They have access to increasingly complex texts of all kinds and rich resources for reading, and they receive appropriate instruction in skills and strategies to refine their literacy skills and support their reading and writing processes. The workshop uses a mixture of whole-class, small group, partner and one-on-one instruction that centers on meaningful conversations about content, strategies, and demonstrations of how readers, writers, and texts work. English 10 curriculum priorities are aligned with Colorado state standards 10<sup>th</sup> grade benchmarks. The most important goal of English 10 is the development of independent readers, writers, and thinkers. **Prerequisite: English 9 or Honors English 9.**



### HLA2022 Honors English 10

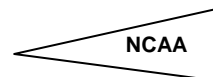
NCAA

Credit: 1.0 Language Arts, Weighted Grade

Grade: 10

Term: 2 Semesters

Honors English 10 is designed for the highly motivated student who demonstrates strong academic ability and interest in an accelerated curriculum. The course requires a higher standard of performance across a variety of contexts than English 10. The course is taught in a Readers/Writers Workshop approach with emphasis on advanced reading and writing skills through a broad range of challenging texts and writing experiences. Students have access to increasingly complex texts and rich resources for reading, including specific study of classic and contemporary American literature. They receive appropriate instruction to refine their literacy skills and support their reading and writing processes in complex texts. Students are expected to engage more critically with texts, so concepts and topics are addressed with greater depth and complexity. Writing for a variety of purposes and audiences in Honors English 10 also reflects increasing sophistication. Honors English 10 curriculum priorities are aligned with Colorado state standards 10<sup>th</sup> grade benchmarks. The most important goal of Honors English 10 is to increase the sophistication of independent readers, writers, and thinkers. **Prerequisite: Honors English 9 or English 9 and teacher approval.**



## 11<sup>th</sup> Grade

Students should take English 11, Honors English 11, or AP Language and Composition. Other English courses available to 11<sup>th</sup> grade students are listed under Language Arts Course Options. A student may receive up to 1.0 Language Arts credit for Journalism 1, Theatre Arts 1, or courses in speech, after which these courses will provide Elective credit.

### **HLA3122 English 11**

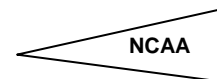
NCAA

Credit: 1.0 Language Arts

Grade: 11

Term: 2 Semesters

This course will support learners to read, write and interact in real world contexts using twenty-first century technology. Students will develop the skills to move flexibly between fiction and non-fiction, both past and present; read, think, discuss, and write critically about ideas; work individually and collaboratively to build new understandings about the larger social, political, and cultural contexts in which they live and contribute; and prepare students for post-secondary and workforce readiness. English 11 continues the focus on strengthening and refining the reading and writing processes of all students through a Readers/Writers Workshop approach, including an integrated focus on Colorado state standards, CDE Post-Secondary/Workforce Readiness Standards and ACT College Readiness Standards. **Prerequisite: English 10 or Honors English 10.**



### **HLA4122 Advanced Placement Language and Composition**

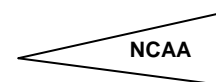
NCAA

Credit: 1.0 Language Arts, Weighted Grade

Grade: 11

Term: 2 Semesters

The Advanced Placement Language and Composition course is designed to help students become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. It is also designed to help students become skilled writers who can compose for a variety of purposes. Students will be asked to write in a variety of forms – narrative, expository, and argumentative – and on a variety of subjects. Students will write essays that proceed through several stages of drafts, with revision aided by the teacher and their peers. AP Language and Composition is intended for students who are already reading at a college level. Students taking an Advanced Placement course will be expected to take the Advanced Placement examination in that subject and, depending on the test score, may receive college credit. Another way students could receive college credit for an AP course is if the instructor has adjunct status and the student has a qualifying Accuplacer score. Students should check with their high school counselor to find out if their high school offers this course for dual credit. **Prerequisite: Honors English 10 or English 10 and teacher approval.**



## **12<sup>th</sup> Grade**

When selecting 12<sup>th</sup> grade courses, students should read course descriptions carefully and consult with their English teachers and counselors to be sure the courses they select meet their future vocational and educational plans, abilities, and interests. Students may choose English 12 or consider choosing a writing course and/or a literature or a speech course. Twelfth graders may elect to take more than the required number of classes. Students who meet the prerequisites may choose to enroll in Advanced Placement Literature and Composition or Honors English 12. Students may fulfill the graduation requirement of 4.0 Language Arts credits by enrolling in any language arts course options, Journalism 1, Theatre Arts 1, or additional speech courses. A student may receive up to 1.0 Language Arts credit for Journalism 1, Theatre Arts 1, or courses in speech, after which these courses will provide Elective credit.

## Language Arts Course Options

### HLA3102 Commercial Broadcasting

Credit: 1.0 Language Arts

Grade: 11, 12

Term: 2 Semesters

Commercial Broadcasting is a performance-based introduction into the medium of commercial video production as a form of communication and revenue. To illustrate their knowledge of the production process, students will plan, write, produce, and broadcast their own television show to the student body. To generate revenue and illustrate an understanding of the business side of video broadcasting, students will sell, produce, and air commercials for local area businesses. Students will be responsible for handling departmental equipment such as digital cameras and computers and will therefore be responsible for any damages incurred. This award-winning class will also be responsible for producing video projects for the district upon request. An important element of this course is for students to develop cooperative learning skills through standards of professionalism and personal initiative. **This course does meet the Language Arts requirement for high school graduation; however, according to CCHE guidelines, it will not be accepted for admission to Colorado four-year universities. Prerequisite: Students and parents must sign a contract.**

### HLA5032 Competitive Speech

Credit: 1.0 Language Arts

Grade: 9, 10, 11, 12

Term: 2 Semesters

Competitive Speech provides self-directed, confident students the opportunity to participate in a competitive setting through original oratory, extemporaneous speaking, duo interpretation, debate (cross-examination, Lincoln-Douglas, and public policy forum debate), Student Congress, speech contests offered by community service groups, and oral interpretation of drama, humor, and poetry. Students will apply research skills as part of the preparation for speeches. Critical listening and viewing will apply as the students analyze ideas and critique speakers. Members are required to participate in a minimum of four required and designated tournaments, contests, and/or community events per semester. Colorado High School Activities Association (CHSSA) eligibility rules apply for all competitions. **This course does meet the Language Arts requirement for high school graduation; however, according to CCHE guidelines, it will not be accepted for admission to Colorado four-year universities. Students may repeat this course for credit. Prerequisite: Teacher approval.**

### HLA4130 English 12

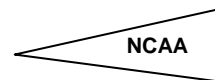
NCAA

Credit: 1.0 Language Arts

Grade: 12

Term: 2 Semesters

This course will continue to support learners to read, write and interact in real world contexts using twenty-first century technology. Students will develop increasingly sophisticated skills to move flexibly between fiction and non-fiction, both past and present; read, think, discuss, and write critically about ideas; work individually and collaboratively to build new understandings about the larger social, political, and cultural contexts in which they live and contribute; and prepare students for post-secondary and workforce readiness. English 12 continues the focus on strengthening and refining the reading and writing processes of all students through a Readers/Writers Workshop approach, including an integrated focus on Colorado state standards, CDE Post-Secondary/Workforce Readiness Standards and ACT College Readiness Standards. **Prerequisite: English 11 or Honors English 11.**



**HLA4132 Honors English 12**

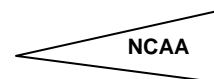
NCAA

Credit: 1.0 Language Arts, Weighted Grade

Grade: 12

Term: 2 Semesters

Honors English 12 is a language arts course that develops skills in reading, writing, speaking, listening and viewing, research, and complex thinking. The course is a continuation of Honors English 9, 10, and 11 and, as such, students' performance will be evaluated at an advanced level. For content, the course studies the questions raised by the humanities (literature, drama, music, painting, sculpture, photography, architecture, and dance) in the historical development of world cultures. **Prerequisite: Teacher approval; Honors 11 or AP Language and Composition suggested.**



**ENGX121 English Composition I**

NCAA

High School Credit: .5 Language Arts, Weighted Grade

College Credit: 3 hours

Grade: 11, 12

This college level course emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. Students will compose essays that stress analytical, evaluative, and persuasive/argumentative writing.



**ENGX122 English Composition II**

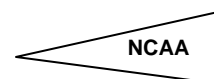
NCAA

High School Credit: 0.5 Language Arts, Weighted Grade

College Credit: 3 hours

Grade: 11, 12

This college level course expands and refines the objectives of English Composition I. It emphasizes critical and logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research.



**HLA5051 Introduction to Speech**

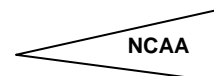
NCAA

Credit: 0.5 Language Arts

Grade: 9, 10, 11, 12

Term: 1 Semester

This course provides basic instruction in speaking techniques and strategies for a variety of purposes and audiences. Activities are designed to help students build confidence as speakers. Students will learn speaking strategies such as group discussion skills, audience awareness, and organization and delivery techniques for a formal speech. **This course does meet the Language Arts requirement for high school graduation; however, according to CCHE guidelines, it will not be accepted for admission to Colorado four-year universities. Prerequisite: None.**



### **HLA6012 Journalism 1**

NCAA

Credit: 1.0 Language Arts

Grade: 9, 10, 11

Term: 2 Semesters

Journalism 1 teaches basic journalistic skills: style, news story structure, interviewing, writing of editorials, features, sports stories, headlines, desktop publishing, and printing processes. Students also study the history of journalism as well as ethics, journalistic responsibility, and the law. Fact-based, effective, precise writing skills are stressed at all times. Journalism 1 is challenging and provides an opportunity for strong writers to advance to the newspaper staff. **This course does meet the Language Arts requirement for high school graduation; however, according to CCHE guidelines, it will not be accepted for admission to Colorado four-year universities.**

**Prerequisite: None.**



### **HLA4112 Advanced Placement Literature and Composition**

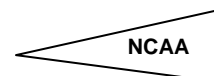
NCAA

Credit: 1.0 Language Arts, Weighted Grade

Grade: 12

Term: 2 Semesters

Advanced Placement Literature and Composition provides an accelerated program for students with special aptitude, interest, and ability in language, composition, and literature. Literary selections are representative of the world's outstanding authors of novels, drama, poetry, short stories, and general prose. Opportunities are provided for refinement of written and oral skills. Students taking this class will be expected to take the College Board Advanced Placement test and, depending on test scores, may receive college credit. Another way students could receive college credit for an AP course is if the instructor has adjunct status and the student has a qualifying Accuplacer score. Students should check with their high school counselor to find out if their high school offers this course for dual credit. NOTE: Individual schools may have special processes for enrolling in this course. Students should check with their counselor or building AP teacher. **Prerequisite: Honors English 11 or English 11 with teacher approval. Completion of AP Language and Composition is recommended.**



### **HLA5061 Public Speaking**

NCAA

Credit: 0.5 Language Arts

Grade: 9, 10, 11, 12

Term: 1 Semester

Public Speaking provides advanced experiences for college-bound or career-oriented students to develop, analyze, and refine communication and speaking skills. Students will apply technology and research skills in preparation for presentations. **This course does meet the Language Arts requirement for high school graduation; however, according to CCHE guidelines, it will not be accepted for admission to Colorado four-year universities. Prerequisite: None.**



### **HLA5071 Student Congress and Debate**

Credit: 0.5 Language Arts

Grade: 9, 10, 11, 12

Term: 1 Semester

Student Congress and Debate provides advanced students a challenging opportunity to explore the art of argumentation and persuasion through extemporaneous speaking, Student Congress, debate, Lincoln-Douglas, public policy forum debate, and cross-examination. This course will help students analyze current issues to develop and present logical arguments in support of a particular viewpoint. Students will use research skills as they analyze issues and develop arguments. **This course does meet the Language Arts requirement for high school graduation; however, according to**

**CCHE guidelines, it will not be accepted for admission to Colorado four-year universities. Prerequisite: None.**

**HLA7022 Theatre Arts 1**

Credit: 1.0 Language Arts

Grade: 10, 11, 12

Term: 2 Semesters

Theatre Arts 1 examines the development of theatre history. Students also study acting styles from various historical periods. Additional units may include improvisation, pantomime, play reading and analysis, and elements of production. All students enrolled in theatre arts classes at all levels will participate in or attend at least four theatrical productions or complete an alternative assignment approved by the teacher. **This course does meet the Language Arts requirement for high school graduation; however, according to CCHE guidelines, it will not be accepted for admission to Colorado four-year universities. Prerequisite: Introduction to Theatre Arts and/or teacher approval.**

**Additional courses for language arts credit are offered at Pickens Technical College:**

- Executive Internship English

## Mathematics Course Options

### Possible Pathways

	APS Graduation Requirements	Most 4 Year Colleges/Universities	Highly Selective Colleges/Universities
	<i>3.0 credits</i> <b>Effective with the class of 2015, 4.0 credits of mathematics will be required for graduation</b>	<i>4.0 credits</i>	<i>4.0 credits including honors and/or AP courses</i>
8 <sup>th</sup>	<ul style="list-style-type: none"> <li>Integrated Math 8</li> </ul>	<ul style="list-style-type: none"> <li>Integrated Math 8</li> </ul>	<ul style="list-style-type: none"> <li>Honors Integrated Algebra/Geometry 1 or 2</li> <li>Integrated Math 8</li> </ul>
9 <sup>th</sup>	<ul style="list-style-type: none"> <li>Integrated Algebra/Geometry 1</li> </ul>	<ul style="list-style-type: none"> <li>Integrated Algebra/Geometry 1</li> <li>Integrated Algebra/Geometry 2 (With teacher recommendation)</li> </ul>	<ul style="list-style-type: none"> <li>Honors Integrated Algebra/Geometry 2</li> <li>Honors Integrated Algebra/Geometry/Trig 3</li> </ul>
10 <sup>th</sup>	<ul style="list-style-type: none"> <li>Integrated Algebra/Geometry 2</li> </ul>	<ul style="list-style-type: none"> <li>Integrated Algebra/Geometry 2 Honors</li> <li>Integrated Algebra/Geometry 2</li> <li>Integrated Algebra/Geometry/Trigonometry 3</li> </ul>	<ul style="list-style-type: none"> <li>Honors Integrated Algebra/Geometry/Trigonometry 3 <i>or</i></li> <li>Integrated Algebra/Geometry/Trigonometry 3</li> <li>Honors Integrated Algebra/Geometry/Pre-Calculus 4</li> </ul>
11 <sup>th</sup>	<ul style="list-style-type: none"> <li>Integrated Algebra/Geometry/Trigonometry 3</li> </ul>	<ul style="list-style-type: none"> <li>Integrated Algebra/Geometry/Trigonometry 3</li> <li>Integrated Algebra/Geometry/Pre-Calculus 4</li> <li>Intermediate Algebra</li> <li>Two of the following semester courses:               <ul style="list-style-type: none"> <li>Integrated Algebra/Geometry/Trigonometry 4 (semester)</li> <li>Integrated Geometry/Pre-Calculus 4 (semester)</li> <li>Discrete Math (semester)</li> <li>Probability and Statistics (semester)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Honors Integrated Algebra/Geometry/Pre-Calculus 4</li> <li>Honors Trigonometry/Math Analysis</li> <li>AP Statistics</li> <li>AP Calculus AB or BC</li> </ul>
12 <sup>th</sup>		<ul style="list-style-type: none"> <li>Integrated Algebra/Geometry/Pre-Calculus 4</li> <li>Two of the following semester courses:               <ul style="list-style-type: none"> <li>Integrated Algebra/Geometry/Trigonometry 4 (semester)</li> <li>Integrated Geometry/Pre-Calculus 4 (semester)</li> <li>Discrete Math (semester)</li> <li>Probability and Statistics (semester)</li> </ul> </li> <li>AP Statistics</li> <li>College Algebra <i>and/or</i></li> <li>College Trigonometry</li> </ul>	<ul style="list-style-type: none"> <li>AP Calculus AB or BC</li> <li>AP Statistics</li> <li>College Algebra College Trigonometry</li> </ul>

# Mathematics

The need for mathematics in everyday life and in the workplace has never been greater and will continue to increase. In this changing world, all students must understand and be able to do mathematics. Aurora Public Schools provides mathematics courses to prepare students to enhance opportunities and options for shaping their future. Course offerings in mathematics provide opportunities for students to prepare for college and careers.

Honors and Advanced Placement math courses are offered to students who demonstrate advanced abilities and interest in mathematics. These courses proceed at an accelerated rate and assigned work is more challenging.

It is highly recommended that all students purchase a TI83 or TI84 graphing calculator, as it is an integral part of math instruction at the high school level.

## HMA1010 Integrated Algebra/Geometry 1

NCAA

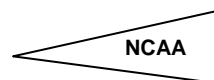
Credit: 1.0 Math

Grade: 9

Term: 2 Semesters

Graphing calculator (TI83 or TI84) needed

This is the first course of a four-year integrated math program. The course emphasizes mathematical modeling and modeling concepts drawn from algebra and functions (linear, exponential, and quadratic models), from geometry (visualization and space shapes and their properties), from statistics and probability (data analysis and simulation methods), and from discrete mathematics (vertex-edge graphs and recursion).



## HMA1013 Integrated Algebra/Geometry 2

NCAA

Credit: 1.0 Math

Grade: 9, 10

Term: 2 Semesters

Graphing calculator (TI83 or TI84) needed

This is the second course of a four-year integrated math program. The course emphasizes mathematical modeling and modeling concepts drawn from algebra and functions (power models, including quadratic function and inverse variation), from geometry and trigonometry (coordinate models, transformational models, and trigonometric models), from statistics and probability (correlation and least square linear models, geometric and binomial probability distributions), and from discrete mathematics (matrix models and network optimization). **Prerequisite: Integrated Algebra/Geometry 1.**



## HMA1012 Honors Integrated Algebra/Geometry 2

NCAA

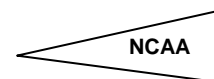
Credit: 1.0 Math, Weighted Grade

Grade: 8, 9, 10

Term: 2 Semesters

Graphing calculator (TI83 or TI84) needed

Honors Integrated Algebra/Geometry 2 is the second of four courses. The course emphasizes mathematical modeling and modeling concepts drawn from algebra and functions (power models, including quadratic functions and inverse variation), from geometry and trigonometry (coordinate models, transformational models, and trigonometric models), from statistics and probability (correlation and least square linear models, geometric and binomial probability distributions), and from discrete mathematics (matrix models and network optimization). This course will focus on the same mathematical content as Integrated Algebra/Geometry 2 but at a deeper, more analytical level. Consequently, assigned work will be more challenging. **Prerequisite: Integrated Algebra/Geometry 1.**



**HMA1014 Integrated Algebra/Geometry/Trigonometry 3**

NCAA

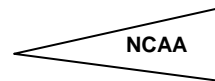
Credit: 1.0 Math

Grade: 9, 10, 11, 12

Term: 2 Semesters

Graphing calculator (TI83 or TI84) needed

This is the third course of a four-year integrated math program. The course emphasizes multiple variable models, patterns in variation, modeling social decision-making, functions and algebraic reasoning, shapes and geometric reasoning and proofs, discrete models of change, trigonometry, and surveys and samples. **Prerequisite: Integrated Algebra/Geometry 2.**



**HMA1015 Honors Integrated Algebra/Geometry/Trigonometry 3**

NCAA

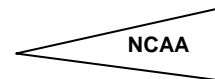
Credit: 1.0 Math, Weighted Grade

Grade: 8, 9, 10, 11

Term: 2 Semesters

Graphing calculator (TI83 or TI84) needed

This is the third course of a four-year integrated math program. The course emphasizes multiple variable models, patterns in variation, modeling social decision-making, functions and algebraic reasoning, shapes and geometric reasoning and proofs, discrete models of change, trigonometry, and surveys and samples. This course will focus on the same mathematical content as Integrated Algebra/Geometry/Trigonometry 3 but at a deeper, more analytical level. Consequently, assigned work will be more challenging. **Prerequisite: Honors Integrated Algebra/Geometry 2 or Integrated Algebra/Geometry 2 with teacher approval.**



**HMA1016 Integrated Algebra/Geometry/Pre-Calculus 4**

NCAA

Credit: 1.0 Math,

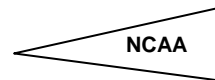
Grade: 9, 10, 11, 12

Term: 2 Semesters

Graphing calculator (TI83 or TI84) needed

This is the fourth course of a four-year integrated math program. The course emphasizes rates of change, two-dimensional vectors, logarithmic functions, counting models, polynomial and rational functions, three-dimensional space geometry, binomial distributions and statistical inference.

**Prerequisite: Integrated Algebra/Geometry/Trigonometry 3**



**HMA1017 Honors Integrated Algebra/Geometry/Pre-Calculus 4**

NCAA

Credit: 1.0 Math, Weighted Grade

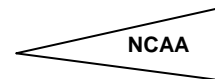
Grade: 9, 10, 11, 12

Term: 2 Semesters

Graphing calculator (TI83 or TI84) needed

This is the fourth course of a four-year integrated math program. The course emphasizes rates of change, two-dimensional vectors, logarithmic functions, counting models, polynomial and rational functions, three-dimensional space geometry, binomial distributions and statistical inference. This course will focus on the same mathematical content as Integrated Algebra/Geometry/Pre-Calculus 4 but at a deeper, more analytical level. Consequently, assigned work will be more challenging.

**Prerequisite: Honors Integrated Algebra/Geometry/Trigonometry 3 or Integrated Algebra/Geometry/Trigonometry 3 with teacher approval.**



**HMA4062 Honors Trigonometry/Math Analysis**

NCAA

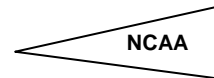
Credit: 1.0 Math, Weighted Grade

Grade: 10, 11, 12

Term: 2 Semesters

Graphing calculator (TI83 or TI84) needed

This course emphasizes the study of the trigonometric functions, analytic geometry, discrete mathematics, and introductory calculus. Among the topics studied are identities, solutions of triangles, vectors, statistics, probability, differentiation, and limits. **Prerequisite: Honors Algebra 2 or teacher recommendation.**



**HMA4072 Advanced Placement Statistics**

NCAA

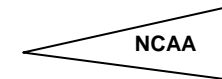
Credit: 1.0 Math, Weighted Grade

Grade: 11, 12

Term: 2 Semesters

Graphing calculator (TI83 or TI84) needed

Advanced Placement Statistics acquaints students with the major concepts and tools for collecting, analyzing, and drawing conclusions from data. The course will have a data-driven framework that will require students to work on projects involving hands-on gathering and analysis of real world data, making full use of the information available on the Internet. Extensive use of the computer and calculator will allow students to focus on key concepts in statistics. Students taking an Advanced Placement course will be expected to take the Advanced Placement examination in that subject and, depending on the test score, may receive college credit. Another way students could receive college credit for an AP course is if the instructor has adjunct status and the student has a qualifying Accuplacer score. Students should check with their high school counselor to find out if their high school offers this course for dual credit. **Prerequisite: Honors Algebra 2, Integrated Algebra/Geometry 3 or teacher approval.**



**HMA4142 Advanced Placement Calculus AB**

NCAA

Credit: Math, Weighted Grade

Grade; 11, 12

Term: 2 Semesters

Graphing calculator (TI83 or TI84) needed

Calculus AB is the course in single-variable calculus that includes techniques and applications of the derivative, techniques and applications of the definite integral, and the Fundamental Theorem of Calculus. It is equivalent to at least a semester of calculus at most colleges and universities, perhaps to a year of calculus at some. Algebraic, numerical, and graphical representations are emphasized throughout the course. Students taking an Advanced Placement course will be expected to take the Advanced Placement examination in the subject and, depending on the test score, may receive college credit. Another way students could receive college credit for an AP course is if the instructor has adjunct status and the student has a qualifying Accuplacer score. Students should check with their high school counselor to find out if their high school offers this course for dual credit. **Prerequisite: Honors Trigonometry/Math Analysis, Integrated Algebra/Geometry/Pre-Calculus 4 or teacher approval.**



**HMA4201 Discrete Math**

NCAA

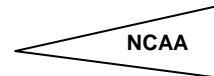
Credit: 0.5 Math

Grade: 11, 12

Term: 1 Semester

Graphing calculator (TI83) needed

This semester course emphasizes logic and problem solving through matrix models, discrete models of change including recursion, set theory, and counting models. **Prerequisites: Completion of or concurrent enrollment in Integrated Algebra/Geometry/Trigonometry 3.**



**HMA1040 Probability and Statistics**

NCAA

Credit: 0.5 Math

Grade: 11, 12

Term: 1 Semester

Graphing calculator (TI83) needed

In this semester course, students will learn how to collect data using unbiased methods and they will gain the statistical background necessary for analyzing data. They will conduct surveys and experiments, and use statistical methods to interpret the results of their work. Students will also gain a greater understanding of how data is collected and used in real world contexts, and they will learn how to think critically about how data is presented in the media. **Prerequisite: Completion of or concurrent enrollment in Integrated Algebra/Geometry/Trigonometry 3.**



**HMA1020 Integrated Algebra/Geometry/Trigonometry 4**

NCAA

Credit: 0.5 Math

Grade: 11, 12

Term: 1 Semester

Graphing calculator (TI83) needed

This semester course emphasizes inverses of functions, logarithmic functions, polynomial and rational functions, complex numbers, and trigonometric functions. **Prerequisite: Integrated Algebra/Geometry/Trigonometry 3.**



**HMA1030 Integrated Geometry/Pre-Calculus 4**

NCAA

Credit: 0.5 Math

Grade: 11, 12

Term: 1 Semester

Graphing calculator (TI83) needed

This semester course emphasizes rates of change, derivatives, two-dimensional vectors, and three-dimensional space geometry. **Prerequisite: Integrated Algebra/Geometry/Trigonometry 3.**



**MATX099 Intermediate Algebra**

Credit: 0.5 Math

Grade: 11, 12

This college remedial math course emphasizes problem solving with further study of equations, slope inequalities, polynomials, quadratic equations, rational expressions, radical expressions, graphing and applications. Graphing calculator required.

**MATX121 College Algebra**

NCAA

High School Credit: .5 Math, Weighted Grade

College Credit: 4 hours

Grade: 11, 12

This college level course includes a brief review of intermediate algebra, equations and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, selection of topics from among graphing of the conic sections, introduction to sequences and series, permutations and combinations, the binomial theorem, and theory of equations. Graphing calculator required.



**MATX122 College Trigonometry**

NCAA

High School Credit: .5 Math, Weighted Grade

College Credit: 3 hours

Grade: 11, 12

This college level course includes trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. Graphing calculator required.



**MATX135 Introduction to Statistics**

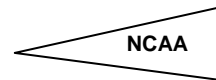
NCAA

High School Credit: .5 Math, Weighted Grade

College Credit: 3 hours

Grade: 11, 12

This college level course includes data presentation and summarization, introduction to probability concepts and distributions, statistical inference-estimation, hypothesis testing, comparison of populations, correlation and regression. Graphing calculator required.



**MATX201 Calculus I**

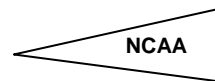
NCAA

High School Credit: 1.0 Math, Weighted Grade

College Credit: 5 hours

Grade: 11, 12

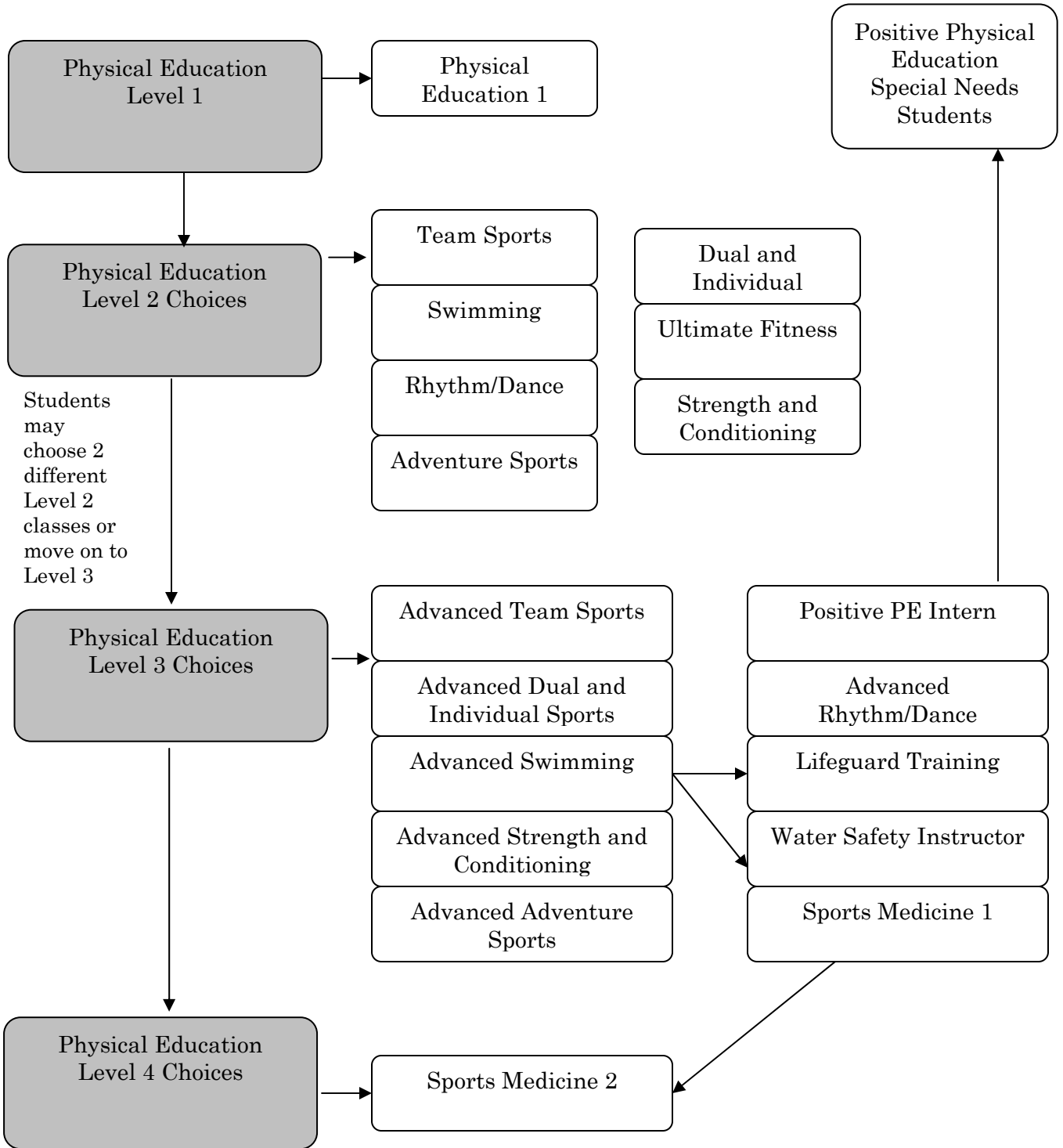
This college level course introduces single variable calculus and analytic geometry. It includes limits, continuity, derivatives, and applications of derivatives as well as indefinite integrals and some applications. Graphing calculator required.



**Additional courses for math credit are offered at Pickens Technical College:**

- Automotive Technology Math
- Math for Cabinetmaking
- Collision Repair Technology Math
- Mathematics for Computer-Aided Drafting
- Electrician Occupations Math
- General Electronics Technology Math
- Technical Math for Landscape Management
- Power Sport Technology Math
- Precision and Computer-Aided Machining Math
- Veterinary Assistant

# Physical Education



**Please Note: Not all courses are offered at all high schools**

# Physical Education

## Physical Education 1

### HPE1011 Physical Education 1

Credit: 0.5

Grade: 9, 10

Term: 1 Semester

Physical Education 1 is for the first year PE student and is designed as an introduction to fitness activities, individual/dual/team sports skills, adventure sports, and rhythm/dance skills to promote lifetime physical fitness. **Prerequisite: None.**

### RPE0042 Positive Physical Education

Credit: 1.0

Grade: 9, 10, 11, 12 special needs students only

Term: 2 Semesters

This course is designed to enhance interpersonal relations between special needs students and regular education students, while they participate in a variety of physical education activities. Activities will consist of the following: fitness training, badminton, racquetball, tennis, beginning swimming, basketball, volleyball, bowling, softball, low impact aerobics, soccer, and activities related to lifetime recreation and leisure. **This class is for Special Education students only. Prerequisite: None.**

## Physical Education 2

### HPE2030 Rhythm/Dance

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

This course will provide opportunities for the student to progress and master skills in aerobics, dance, juggling, jump rope, Pilates, tinikling, yoga, and Tae Bo. Emphasis will be on the incorporation of fitness concepts through the utilization of rhythm and dance activities. A variety of cultural dances may be taught; for example: country, foxtrot, hip-hop, line, salsa, swing, tango, and waltz. **Prerequisite: Successful completion of Physical Education 1 or teacher approval. Students may repeat this course for credit. Fees may be required for certain activities.**

### HPE3031 Swimming

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

This course will provide opportunities for students to further develop their swimming skills. This course may include a beginning level for students with limited or no swimming skills, and an advanced level for students who are already experienced swimmers. Emphasis will be on stroke mechanics, fitness, water games, diving, springboard diving, snorkeling, and canoeing. **Prerequisite: Successful completion of Physical Education 1 or teacher approval. Students may repeat this course for credit.**

### HPE3061 Strength and Conditioning

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

This course will provide opportunities to further develop skills in the health related components of physical fitness: muscular strength, endurance, flexibility, and cardiovascular endurance. It will also

emphasize the skill related components of physical fitness: agility, balance, coordination, power, reaction time, and speed. **Prerequisite: Successful completion of Physical Education 1 or teacher approval. Students may repeat this course for credit.**

### **HPE3071 Team Sports**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

This course will provide students opportunities to progress and master skills in team sports such as basketball, field hockey, flag football, floor hockey, lacrosse, soccer, softball, speedball, team handball, ultimate Frisbee, volleyball, and water polo. Emphasis will be on fitness, skills, strategy, and rules of play. **Prerequisite: Successful completion of Physical Education 1 or teacher approval. Students may repeat this course for credit.**

## **Physical Education 3**

### **HPE3023 Advanced Team Sports**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

This course will provide opportunities to refine and master skills in team sports such as basketball, field hockey, flag football, floor hockey, lacrosse, soccer, softball, speedball, team handball, ultimate Frisbee, volleyball, and water polo. Emphasis will be on advanced skills, strategy, and rules of play. **Prerequisite: Teacher approval.**

### **HPE3024 Advanced Strength and Conditioning**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

This course will provide opportunities to refine and master skills in the health related components of physical fitness: muscular strength, endurance, flexibility, and cardiovascular endurance. It will also emphasize the skill related components of physical fitness: agility, balance, coordination, power, reaction time, and speed. Students will be able to work on developing a training regimen that fits their individual needs. **Prerequisite: Teacher approval.**

### **HPE3041 Lifeguard Training**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

Students will learn basic water safety and lifeguarding skills according to the American Red Cross Lifeguard Training certification course. **Prerequisite: HPE3031 Swimming or teacher approval. Fee required for Red Cross Certification.**

### **HPE3091 Advanced Swimming**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

This course will provide opportunities for students to refine and master their swimming skills. This course is an advanced course for students that already know how to swim. Emphasis will be on advanced stroke mechanics, fitness, water games, diving, spring-board diving, snorkeling, and canoeing. **Prerequisite: HPE3031 Swimming or teacher approval.**

**HPE4021 Positive Physical Education Intern**

Credit: 0.5

Grade: 10, 11, 12

Term: 1 Semester

This course is designed to enhance interpersonal relations between students with special needs and regular education students, while they participate in a variety of physical education activities. Regular education students will be expected to aid and assist students with lesser abilities. Activities will consist of the following: fitness training, badminton, circuit training, racquetball, tennis, beginning swimming, basketball, volleyball, bowling, softball, low impact aerobics, soccer, and activities related to lifetime recreation and leisure. This course is for mature, caring regular education students who aspire to enter career fields that are “people oriented;” i.e., teaching, counseling, medical personnel services, child care, and human services. **Prerequisite: Successful completion of Physical Education 1 and a Physical Education 2 course and teacher approval.**

## Science Course Options

<b>9<sup>th</sup> and 10<sup>th</sup> grades</b>	Physical Science or Honors Physical Science (1.0)  Biology 1 or Honors Biology 1* (1.0)
<b>11<sup>th</sup> and 12<sup>th</sup> grades</b>	AP Biology* (1.0) Chemistry 1* (1.0) Honors Chemistry* (1.0) AP Chemistry* (1.0) Environmental Science (0.5) Observational Astronomy (1.0) Physics* (1.0) AP Physics* (1.0)

**\*Prerequisite required. Please see course descriptions for specific course prerequisites.**

## Science

### Possible Pathways

	APS Graduation Requirements	Most 4 year Colleges and Universities		Highly Selective Colleges
	<i>2.5 credits</i> <b>Effective with the class of 2015, 3.0 credits of science will be required for graduation</b>	<i>3.0-4.0 credits</i>		<i>3.0-4.0 credits including honors and/or AP courses</i>
<b>9<sup>th</sup></b>	Physical Science (1.0)	Physical Science <b>or</b> Honors (1.0)		Honors Physical Science (1.0)
<b>10<sup>th</sup></b>	Biology 1 (1.0)	Biology 1 <b>or</b> Honors (1.0)		Honors Biology 1* (1.0)
<b>11<sup>th</sup></b>	Earth Science* Environmental Science (0.5)	Chemistry 1* or Honors* (1.0)	Physics (1.0)	Honors Chemistry* (1.0)
<b>12<sup>th</sup></b>		<i>Any 1 of the following:</i> Physics AP Chemistry* AP Biology* Observational Astronomy (1.0) OR Earth Science* (0.5)	<i>Any 1 of the following:</i> AP Physics* AP Environmental Science* Chemistry* Observational Astronomy (1.0) OR Earth Science* (0.5)	<i>1-2 of the following:</i> Physics* AP Biology* AP Chemistry* AP Physics* (1.0)

**\*Prerequisite required. Please see course descriptions for specific course prerequisites.**

## Science

Science provides opportunities for students to become more familiar with form and function on earth and the surrounding universe, the diversity of life and how it works, chemical and physical processes of matter, and the role of man as the inventor and user of scientific methods.

### HSC1042 Biology 1

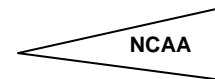
NCAA

Credit: 1.0 Science

Grade: 9, 10, 11, 12

Term: 2 Semesters

This two-semester, lab-based course is designed as a survey of living things and their life processes. Topics include the scientific process, the structure and function of the cell, heredity, the unity and diversity of life, human body systems, and evolution. **Prerequisite: None.**



### HSC1062 Honors Biology

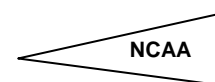
NCAA

Credit: 1.0 Science, Weighted Grade

Grade: 9, 10, 11, 12

Term: 2 Semesters

This two-semester, lab-based course covers the same topics as Biology 1, but is designed for students with strong academic ability and interest in an accelerated curriculum. The topics will be covered in greater depth and complexity, and/or at a faster pace. **Prerequisite: Teacher approval required for 9<sup>th</sup> grade.**



### HSC1082 Advanced Placement Biology

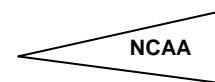
NCAA

Credit: 1.0 Science, Weighted Grade

Grade: 11, 12

Term: 2 Semesters

Advanced Placement Biology provides an accelerated program for students with special aptitudes, interests, and abilities in the study of science. Students taking an Advanced Placement course will be expected to take the Advanced Placement examination in that subject and, depending on the test score, may receive college credit. **Prerequisite: A biology course and a chemistry course.**



### HSC2012 Chemistry 1

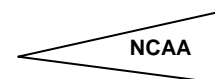
NCAA

Credit: 1.0 Science

Grade: 10, 11, 12

Term: 2 Semesters

This lab-based course is designed to prepare students for college or further training in scientific and technical fields. Topics include the fundamentals of chemical reactions and the associated calculations, atomic structure, families of elements, and laboratory techniques. These foundations are utilized in developing an in-depth understanding of chemical principles such as bonding, modern acid-base theory, molecular theory, and the impacts of chemical production and disposal. **Prerequisite: Algebra 1 or Integrated Algebra/Geometry 1.**



### HSC2040 Honors Chemistry

NCAA

Credit: 1.0 Science, Weighted Grade

Grade: 10, 11, 12

Term: 2 Semesters

This two-semester, lab-based course covers the same topics as Chemistry 1 with additional advanced content and opportunities for enrichment. This course is designed for students with strong academic



ability and interest in an accelerated curriculum. The topics will be covered in greater depth and complexity, and/or at a faster pace. **Prerequisite: Integrated Algebra/Geometry 2 or Honors Geometry and teacher approval.**

### HSC2042 Advanced Placement Chemistry

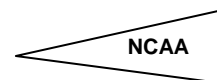
NCAA

Credit: 1.0 Science, Weighted Grade

Grade: 10, 11, 12

Term: 2 Semesters

Advanced Placement Chemistry provides an accelerated program for students with special aptitudes, interests, and abilities in the study of science. Students taking this class are expected to take the Advanced Placement examination and, depending on the test score, may receive college credit. Another way students could receive college credit for an AP course is if the instructor has adjunct status and the student has a qualifying Accuplacer score. Students should check with their high school counselor to find out if their high school offers this course for dual credit. **Prerequisite: Chemistry 1.**



### HSC1011 Earth Science

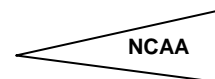
NCAA

Credit: 0.5 Science

Grade: 11, 12

Term: 1 Semester

An advanced course, Earth Science offers selected topics from geology, paleontology, astronomy, oceanography, meteorology, and Colorado geology. Specialization in a particular division is possible. Activities may include field studies and guest speakers.



### HSC5021 Environmental Science

NCAA

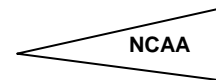
Credit: 0.5 Science

Grade: 10, 11, 12

Term: 1 Semester

Students will study three categories of environmental problems: resource depletion, pollution, and extinction. They will examine these problems from multiple perspectives (including scientific, economic, legal, and social) and determine the effects of human practices and decisions on those problems.

**Prerequisite: None.**



### HSC3012 Physical Science

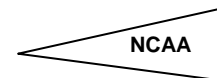
NCAA

Credit: 1.0 Science

Grade: 9, 10, 11, 12

Term: 2 Semesters

This two-semester, lab-based course covers the following topics: the nature of science; geology; hydrology; meteorology; astronomy; the structure of matter; chemical reactions and equilibrium; energy; and the structure and forces of the universe. This course provides a basis for further study in chemistry and physics. **Prerequisite: None.**



### HSC3022 Honors Physical Science

NCAA

Credit: 1.0 Science, Weighted Grade

Grade: 9, 10, 11, 12

Term: 2 Semesters

This two-semester, lab-based course covers the same topics as Physical Science, but is designed for students with strong academic ability and interest in an accelerated curriculum. Topics will be studied



in greater depth and complexity, and/or at a faster pace. This course provides a basis for further study in chemistry and physics. **Prerequisite: None.**

### HSC4012 Physics

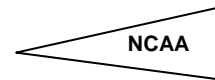
NCAA

Credit: 1.0 Science

Grade: 11, 12

Term: 2 Semesters

This lab-based course is designed to prepare students for college or further training in scientific and technical fields. During this yearlong course, students study the mathematical relationships between time, space, matter, and energy. Additional topics include forces, motion, and machines; electricity; energy; and heat, sound, and light. **Prerequisite: Algebra 2 or Integrated Algebra/Geometry 2. Students should have completed or be currently enrolled in Integrated Algebra/Geometry/Trigonometry 3.**



### HSC4032 Advanced Placement Physics

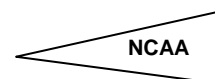
NCAA

Credit: 1.0 Science, Weighted Grade

Grade: 11, 12

Term: 2 Semesters

Advanced Placement Physics provides an accelerated program for students with aptitudes, interests, and abilities in the study of science. Students taking an Advanced Placement course will be expected to take the Advanced Placement examination in that subject and, depending on the test score, may receive college credit. Another way students could receive college credit for an AP course is if the instructor has adjunct status and the student has a qualifying Accuplacer score. Students should check with their high school counselor to find out if their high school offers this course for dual credit. **Prerequisite: Physics or teacher approval. Students should have completed or be currently enrolled in Honors Trigonometry/Math Analysis or Integrated Algebra/Geometry/Trigonometry 3.**



### HSC3092 Observational Astronomy

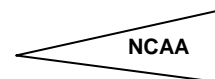
NCAA

Credit: 1.0 Science

Grade: 10, 11, 12

Term: 2 Semesters

Observational Astronomy is a yearlong course that covers major concepts in astronomy. Some of these concepts include observing the night sky, constellations, moon phase cycle, eclipses, solar system, stars, stellar evolution, galaxies, and cosmology. We will also examine how the discovery of extra solar planets has changed our theory of solar system information. Students will learn how to load, shoot, develop, and print their own black and white film with emphasis on astrophotography. Students will be required to attend class on Monday nights for observing and astrophotography sessions. Other activities in Observational Astronomy will include a field trip to the Jefferson County School District Planetarium and the Outdoor Education Lab Observatory in Evergreen. **Prerequisite: None.**



**Additional courses for science credit are offered at Pickens Technical College:**

- Landscape Management
- Veterinary Assistant

## Social Science Course Options

### APS Graduation Requirements 3.0 Credits

<b>9<sup>th</sup></b>	Geography (1.0) or Honors Geography* (1.0)	
<b>10<sup>th</sup></b>	U.S. History♦ (1.0) or Honors U.S. History♦ (1.0)	
<b>11<sup>th</sup></b>	Civics (0.5)♦ or Law and Government (1.0)♦	<b>If Civics is selected, students must take one other semester course from 11<sup>th</sup> and 12<sup>th</sup> grade course options listed below (0.5) to complete the 3.0 social science graduation requirement.</b>
<b>11<sup>th</sup> and 12<sup>th</sup> grade course options (semester courses 0.5)</b>	<ul style="list-style-type: none"> <li>• Ancient World 3000BC – 500 AD</li> <li>• Western Civilization 1300 AD – 1900 AD</li> <li>• Twentieth Century Conflict</li> <li>• Latin American History</li> </ul>	
<b>11<sup>th</sup> and 12<sup>th</sup> grade course options (full-year courses 1.0)</b>	<ul style="list-style-type: none"> <li>• U.S. History</li> <li>• Honors U.S. History*</li> <li>• AP U.S. History*♦</li> <li>• Psychology</li> <li>• AP Microeconomics and AP Macroeconomics*</li> <li>• African-American Studies</li> <li>• Law and Government♦</li> <li>• AP Human Geography</li> </ul>	

**\*Teacher approval required for these courses. Refer to course description for prerequisite.**

**♦Specific Graduation Requirement:**

The Civil Government requirement can be satisfied by successful completion of **one** of the following:

- Civics
- Law and Government

The U.S. History requirement can be satisfied by successful completion of **one** of the following:

- United States History
- Honors United States History
- AP United States History

## Social Science

The purpose of education in the social sciences is to help young people develop the abilities necessary to make informed and reasoned decisions for the public good. Today's students are members of a culturally diverse society that exists in an increasingly interdependent world. They are also future voters in a democracy that will continue only as a result of citizen participation.

A social science education provides knowledge of:

- the ideals of democracy and the rights and responsibilities of citizens;
- the principles of American government;
- geographic and cultural relationships;
- historical events and chronological relationships;
- the process of historical analysis and diverse viewpoints;
- historical and existing political and economic systems;
- historical and existing social and belief systems; and
- the influence of groups and cultures on American perspectives.

### **HISX250 African American History**

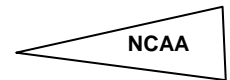
NCAA

High School Credit: 0.5 Social Science, Weighted Grade

College Credit: 3 hours

Grade: 11, 12

This college level course explores the experiences and contributions of African Americans from the colonial period, the early republic, the Civil War and Reconstruction, through the Civil Rights Movement in the 20<sup>th</sup> Century, and into contemporary issues.



### **HSS5062 African-American Studies**

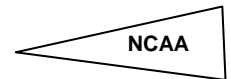
NCAA

Credit: 1.0 Social Science

Grade: 11, 12

Term: 2 Semesters

In this class, students will be able to trace the development of African-American culture from its complex origins in Africa to the new forms that it took as it blended with European and Native American cultural elements in the Americas. Students will receive a strong grasp of the many wonderful and compelling achievements that persons of African descent have made.



### **HSS1017 Ancient World 3000 BC-500 AD**

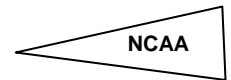
NCAA

Credit: 0.5 Social Science

Grade: 11, 12

Term: 1 Semester

This course is designed to examine the beginnings of human civilization; the transformation from a culture of hunting and gathering to a society that could produce its own food; the evolution of civilization; and the creation of the world's first empires. The student will look at how belief systems affect civilizations and how they positively and negatively impact societies.



### **HSS1021 Civics**

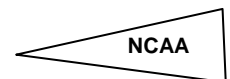
NCAA

Credit: 0.5 Social Science

Grade: 11

Term: 1 Semester

All students will be future members of a democracy that can only exist with citizen participation. A strong foundation in the principles of American civics, including the Declaration of Independence and the Constitution, is necessary to produce informed citizens capable of making responsible



decisions and voting. A knowledge of the rules, rights, and responsibilities of citizens helps to create a common political culture that furthers American ideals of democracy and equality. Successful completion of this course satisfies the Civil Government graduation requirement. **Prerequisite: None.**

**HSS1013 Economics**

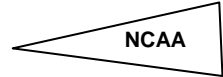
NCAA

Credit: 0.5 Social Science

Grade: 11, 12

Term: 1 Semester

Economics is a one-semester course designed to familiarize students with the basic concepts and principles of both macro and micro economics. Economics is the study of how people try to satisfy their seemingly endless list of needs and wants with limited resources. This problem causes scarcity, in which both individuals and societies must make choices and/or decisions about who receives resources and who gets nothing. Students will learn how these decisions are made and who makes them. Additionally, students will use games to learn curriculum while analyzing everyday situations. Students will make decisions during the class that prompt an economic way of thinking.



**Advanced Placement Economics**

**HSS5200 AP Microeconomics**

NCAA

Credit: 0.5 Social Science, Weighted Grade

Grade: 11, 12

Term: 1 Semester

**HSS5201 AP Macroeconomics**

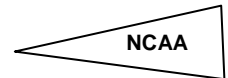
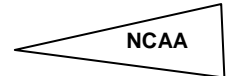
NCAA

Credit: 0.5 Social Science, Weighted Grade

Grade: 11, 12

Term: 1 Semester

AP Economics is broken down into two parts. The first semester is called Microeconomics and the second semester is called Macroeconomics. These two classes are designed to be the equivalent of a first or second year college economics course. This course demands a high degree of maturity, advanced reading and writing, and considerable time necessary for homework and studying. It is a class filled with calculus, problem solving, games and more graphs than one could imagine. This course will survey basic economic concepts, game theory, scarcity, markets, elasticity, monopolies, oligopolies, perfect competition, externalities, prices, supply and demand, banking, money, monetary policy, fiscal policy, taxes, the Federal Reserve, government spending, long run and short run economics, aggregates, income, labor, inflation, GDP, indexes, international trade, and many other topics. Emphasis is placed on critical and evaluative thinking. Students taking this two-part class will be expected to take both AP Microeconomics and AP Macroeconomics examinations, and depending on test score, may receive college credit. Another way students could receive college credit for an AP course is if the instructor has adjunct status and the student has a qualifying Accuplacer score. Students should check with their high school counselor to find out if their high school offers this course for dual credit. **Prerequisite: Teacher approval.**



**ECOX201 Principles of Macroeconomics**

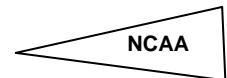
NCAA

High School Credit: .5 Social Science, Weighted Grade

College Credit: 3 hours

Grade: 11, 12

This college level course focuses on the study of the American economy, stressing the interrelationship among household, business, and government sectors. Explores saving and investment decisions, unemployment, inflation, national income accounting, taxing and spending



policies, the limits of the market and government, public choice theory, the Federal Reserve System, money and banking, and international trade.

### **ECO202 Principles of Microeconomics**

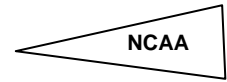
NCAA

High School Credit: 0.5 Social Science, Weighted Grade

College Credit: 3 hours

Grade: 11, 12

This college level course focuses on the consumer, the firm, the nature of cost, and how these relate to the economy as a whole. It analyzes economic models of the consumer, perfect competition, monopoly, oligopoly, and monopolistic competition and explores economic issues including market power, population growth, positive and negative externalities, income distribution, poverty and welfare, discrimination, and international economic interdependence.



### **HSS1011 Geography**

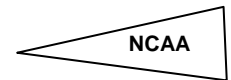
NCAA

Credit: 1.0 Social Science

Grade: 9

Term: 2 Semesters

This course will provide students with a basis for understanding the world we live in, its physical environment, its peoples, and the way people interact with the environment. Understanding and valuing other cultures is important to increasingly diverse societies, and students will need to understand global patterns of landforms, climate, population, transportation, communication, economic linkages, and cultural patterns. Students will do extensive reading, research, writing, and critical thinking. **Prerequisite: None.**



### **HSS1031 Honors Geography**

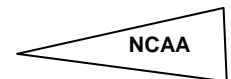
NCAA

Credit: 1.0 Social Science

Grade: 9

Term: 2 Semesters

This course is designed to be an advanced 9<sup>th</sup> grade course and requires students to use advanced reading and writing skills. This course will provide students with a basis for understanding the world we live in, its physical environment, its peoples, and the way people interact with the environment. Understanding and valuing other cultures is important to increasingly diverse societies, and students will need to understand global patterns of landforms, climate, population, transportation, communication, economic linkages, and cultural patterns. Students will do extensive reading, research, writing, and critical thinking. **Prerequisite: Teacher approval.**



### **HSS1026 Advanced Placement Human Geography**

NCAA

Credit: 1.0 Social Science, Weighted Grade

Grade: 11, 12

Term: 2 Semesters

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.

**Prerequisite: Teacher approval.**



### **HSS1050 Latin American History**

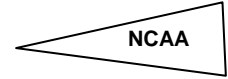
NCAA

Credit: 0.5 Social Science

Grades: 11, 12

Term: 1 Semester

Major topics to be covered are Pre-Columbian America (including Native Americans), colonization, revolutions, politics and governments, and the cultural aspects of Latin America. Students will identify and explain historical relationships for significant events and people for the history of the Americas. Students will know and be able to describe the interactions and contributions of the various peoples and cultures that have lived in or migrated, immigrated, or were brought to the Americas. The political, ideological, social, and economic aspects that have impacted and changed the diversity of the Americas over time will be studied.



### **HSS5082 Law and Government**

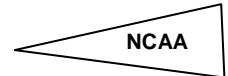
NCAA

Credit: 1.0 Social Science

Grade: 11, 12

Term: 2 Semesters

Through this course, students will gain an understanding of the United States' legal system, its relationship to democratic values and the Constitution, and how legal issues can affect a student's daily life in America. Issues related to criminal and civil law, Supreme Court decisions, and international affairs will be investigated. Successful completion of this course satisfies the Civil Government graduation requirement. **Prerequisite: None.**



### **HSS5092 Psychology**

NCAA

Credit: 1.0 Social Science

Grade: 11, 12

Term: 2 Semesters

Due to the complexity of modern society and the many options facing each individual, students can use knowledge of psychology to better understand themselves and their relationship to others. Through a study of psychology, students will learn to maximize their full potential, make appropriate decisions based on self-awareness, and better cope with life situations. **Prerequisite: None.**



### **PSYX101 General Psychology I**

NCAA

High School Credit: 0.5 Social Science, Weighted Grade

College Credit: 3 hours

Grade: 11, 12

This college level course includes scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory.



### **HSS4032 Student Leadership**

Credit: 1.0 Social Science

Grade: 9, 10, 11, 12

Term: 2 Semesters

The ability to communicate and work effectively with people can insure optimum success in school, career, and family life. This course will develop the interpersonal and leadership skills necessary for students to be productive as leaders in and outside of school. Students will apply the skills practiced in the classroom to a variety of activities at school and in the community. **Prerequisite: Teacher approval.**

### **HSS1015 Twentieth Century Conflict**

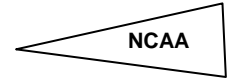
NCAA

Credit: 0.5 Social Science

Grades: 11, 12

Term: 1 Semester

Major topics to be covered are conflicts – World War I, World War II, and the rise and fall of communism. Students analyze the most violent century in human history from multiple historically objective perspectives: why humans and societies fight; the political, ideological, social, and economic factors leading to conflicts; and the impacts of wars and diplomacy. Students will use historical information to evaluate and interpret decisions and policies regarding genocide, terrorism, and wars past and present.



### **HSS3012 United States History**

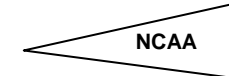
NCAA

Credit: 1.0 Social Science

Grade: 10, 11

Term: 2 Semesters

The study of history provides people with a common memory of where they have been and what decisions of the past account for present circumstances. Through exploration of recurring American issues and significant themes, students will examine contacts and exchanges among groups and cultures and how these have influenced American perspectives. Using important events, students will formulate historical questions, evaluate sources and data using diverse viewpoints, hypothesize, draw conclusions, and analyze issues of the American experience. **Prerequisite: None.**



### **HSS3022 Honors United States History**

NCAA

Credit: 1.0 Social Science, Weighted Grade

Grade: 10, 11

Term: 2 Semesters

The content of this course will be the same as that of United States History but the expectations for student performance will be significantly different. Reading will be in greater quantity and complexity, requiring advanced skills. The ability to produce well-developed and organized papers is a prerequisite, as is the desire to engage in meaningful discussion, complex thinking, interpretation and analysis. **Prerequisite: Teacher approval.**



### **HSS3032 Advanced Placement United States History**

NCAA

Credit: 1.0 Social Science, Weighted Grade

Grade: 11, 12

Term: 2 Semesters

Advanced Placement United States History is a challenging class designed to be the equivalent of a college freshman level course. This two-semester survey of United States history begins with the Age of Exploration and ends with present day events and issues. Advanced reading and writing skills are a necessity, as is a willingness to devote considerable time to homework and study. Emphasis is placed on critical and evaluative thinking skills and interpretation of original documents. Students taking an Advanced Placement course will be expected to take the Advanced Placement examination in that subject and, depending on the test score, may receive college credit. Another way students could receive college credit for an AP course is if the instructor has adjunct status and the student has a qualifying Accuplacer score. Students should check with their high school counselor to find out if their high school offers this course for dual credit. **Prerequisite: Writing assignment and teacher approval.**



**HSS1019 Western Civilization 1300 AD-1900 AD**

NCAA

Credit: 0.5 Social Science

Grade: 11, 12

Term: 1 Semester



This course is designed to teach how new ideas were assimilated and defused, and how European expansion through nationalism and imperialism affected world societies. The student will understand how Europe became a major influence on the world through its growth in economic, religious, and governmental changes. The student will understand how the industrial revolution impacted the world, not only by economics but by new ways of studying methods for governing.

# World Language

**Effective with the graduating class of 2015, 1.0 unit of credit in World Language will be required for graduation.**

Knowledge of a world language is becoming increasingly important in our mobile society. Major worldwide corporations prefer job applicants with knowledge of a second language. Many universities require or recommend two or more years of the same world language for admission. Knowledge of a world language is important not only for college-bound students, but all students, since personal contact with people from other countries is an every-increasing occurrence. The emphasis of the modern world language program is on communication with people and on proficiency.

World language study is for everyone who is interested in people and communication. If you are presently taking a world language and are interested in taking another, you should do so after successfully completing your second year of the world language you are now studying.

Third, fourth, and fifth levels of courses are scheduled as separate classes whenever there is a sufficient number of students electing the course. In deciding what language to take, your interest in that language and culture is of the greatest importance. To this interest should also be added college or career considerations and your own cultural heritage.

## **HFL2012 German 1**

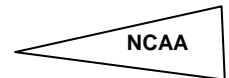
NCAA

Credit: 1.0 World Language

Grade: 9, 10, 11, 12

Term: 2 Semesters

In first year German, students learn the fundamental skills of listening, speaking, reading, and writing through the regular use of German in the classroom, reinforced by CDs with native speakers. The students are given insight into German culture by means of presentations, videos, CDs, and computer programs. Various classroom activities are used to increase interest, participation, and communication. **Prerequisite: None.**



## **HFL2022 German 2**

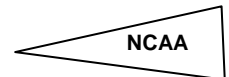
NCAA

Credit: 1.0 World Language

Grade: 10, 11, 12

Term: 2 Semesters

German 2 continues the fundamental skills of listening, speaking, reading, and writing through the regular use of German in the classroom, reinforced by CDs with native speakers. The students are given a more in-depth insight into German culture by means of presentations, videos, CDs, and computer programs. Various classroom activities are used to increase interest, participation, and communication. **Prerequisite: German 1 or teacher approval.**



## **HFL2032 German 3**

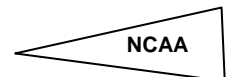
NCAA

Credit: 1.0 World Language

Grade: 11, 12

Term: 2 Semesters

German 3 is designed for students who have completed two levels of high school German or the equivalent. This course is designed to give a clear focus on Germany today. The prime objective is to present readings, vocabulary study, conversation opportunities, and grammatical practice. This will lead students to involve themselves on a continuing basis with Germany and its culture. **Prerequisite: German 2 or teacher approval.**



**HFL2042 German 4**

NCAA

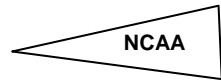
Credit: 1.0 World Language, Weighted Grade

Grade: 12

Term: 2 Semesters

German 4 is an advanced course designed to focus on the German-speaking world. The objective of the readings, vocabulary study, activities, conversation opportunities, and grammar presentations is to increase students' understanding and appreciation of the German-speaking countries, and to open up for them new avenues of thought, new experiences, and new views of life. Knowledge of German and an understanding of German culture will also enhance career options for students.

**Prerequisite: German 3 or teacher approval.**



**HFL5012 Spanish 1**

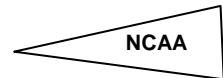
NCAA

Credit: 1.0 World Language

Grade: 9, 10, 11, 12

Term: 2 Semesters

Mastery of the sound system of Spanish and fluency in the use of a limited number of structural forms are the focus of Spanish 1. Conversations involving everyday situations and oral grammar drills are used to achieve these skills. There is exposure to the culture and civilization of Spanish-speaking countries. **Prerequisite: None.**



**HFL5022 Spanish 2**

NCAA

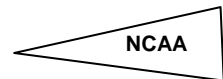
Credit: 1.0 World Language

Grade: 9, 10, 11, 12

Term: 2 Semesters

Spanish 2 is a continuation of Spanish 1. Students learn to express themselves more freely and to understand and listen with greater confidence. Students achieve a better use of vocabulary through continued practice. They gain greater exposure to the culture of Spanish-speaking peoples.

**Prerequisite: Spanish 1 or teacher approval.**



**HFL5032 Spanish 3**

NCAA

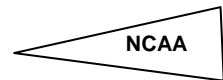
Credit: 1.0 World Language

Grade: 9, 10, 11, 12

Term: 2 Semesters

In the third year, students continue to develop fluency through conversation. Emphasis is on communicating ideas and on acquiring a deeper knowledge of grammatical structures.

**Prerequisite: Spanish 2 or teacher approval.**



**HFL5042 Spanish 4**

NCAA

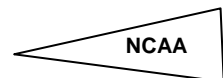
Credit: 1.0 World Language, Weighted Grade

Grade: 10, 11, 12

Term: 2 Semesters

Spanish 4 is a continuation of the third year program with further development of comprehension, speaking, reading, and writing. Students study a variety of selections varying in style and difficulty. Discussions in Spanish and writing assignments further reinforce the grammar.

**Prerequisite: Spanish 3 or teacher approval.**



### AP Spanish

Students who enroll in AP Spanish should already have a good command of Spanish grammar and vocabulary and have competence in listening, reading, speaking, and writing. Although these qualifications may be attained in a variety of ways, it is assumed that most students will be in the final stages of their secondary school training and will have had substantial course work in the language.

### HFL5053 Advanced Placement Spanish Language

NCAA

Concurrent Enrollment with college level courses Spanish III and Spanish IV

High School Credit: 1.0 World Language, Weighted Grade

College Credit: 6 credit hours

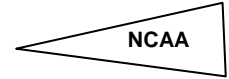
Grade: 12

Term: 2 Semesters

An Advanced Placement Spanish Language course is comparable to an advanced level (5<sup>th</sup> or 6<sup>th</sup> semesters or the equivalent) college Spanish language course. This course is being offered at Aurora Central High School as concurrent enrollment in college courses Spanish III and Spanish IV. Emphasizing the use of Spanish for active communication, it encompasses aural/oral skills, reading comprehension, grammar, and composition. The course objectives are to help students:

- comprehend formal and informal spoken Spanish;
- acquire vocabulary and a grasp of structure to allow the easy, accurate reading of newspaper and magazine articles, as well as of modern literature in Spanish;
- compose expository passages; and
- express ideas orally with accuracy and fluency.

The course seeks to develop language skills that are useful in themselves and that can be applied to various activities and disciplines, rather than to the mastery of any specific subject matter. Extensive training in the organization and writing of compositions is an integral part of this AP course. Students who enroll in AP Spanish should already have a good command of Spanish grammar and vocabulary and have competence in listening, reading, speaking, and writing. Although these qualifications may be attained in a variety of ways, it is assumed that most students will be in the final stages of their substantial course work in the language. Students taking an Advanced Placement course will be expected to take the Advanced Placement examination in that subject and, depending on the test score, may receive college credit. **Prerequisite: Spanish 4 or teacher approval.**



### SPAX111 Spanish Language I

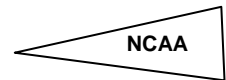
NCAA

High School Credit: 1.0 World Language, Weighted Grade

College Credit: 5 hours

Grade: 11, 12

This college level course introduces a sequence dealing with the development of functional proficiency in listening, speaking, reading and writing the Spanish language.



### SPAX112 Spanish Language II

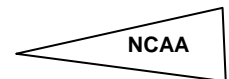
NCAA

High School Credit: 1.0 World Language, Weighted Grade

College Credit: 5 hours

Grade: 11, 12

This college level course continues Foreign Language I in the development of functional proficiency in listening, speaking, reading and writing the Spanish language.



Insert pdf file - Pickens PTC cluster model here



## Program Descriptions

*For more detailed career program information, please contact your high school counselor or a Pickens Technical College advisor.*

### Automotive Technology

Dual Credit

➤ *Transportation, Distribution & Logistics Pathway*

- Two year ASE Certified program
- Acquire skills for employment in car dealerships, private garages, and corporations with automotive fleets
- Work on cars in the shop

Grade: 10, 11, 12

Age: 16 w/ driver permit; 18 by Year 2, Sem. 2

Fees: \$35 (per year)

Term: 1 Year      **Postsecondary Credits: 24**

Term: 2 Years    **Postsecondary Credits: 48**

**VTT6934** (Yr 1)    2.0

**VTT6942** (Yr 2)    1.0 Math

**VTT6926**            3.0

**Note: Students must be 18 years old before the start of Year 2, Sem. 2.**

(General Service Technician is a more generalized one year program option).

### Barber

Dual Credit

➤ *Human Services Pathway*

- Prepare for employment in a salon
- Acquire the following skills: haircutting, shaving, hair coloring, perming, chemical relaxers, facial massage and skincare
- Prepare to take the Colorado State Exam to receive a license

Grade: 11, 12

Fees: \$455 (Year 1 only)

Term: 1.5 Years    **Postsecondary Credits: 53**

**VCO8018** (Yr1)    4.0

**VBO8028** (Yr2)    4.0

### Business and Computer Skills

Dual Credit

➤ *Management and Administrative Pathway*

- Acquire a foundation in computer skills and business concepts as they apply to the business world

Grade: 10, 11, 12

Term: 1 Semester    **Postsecondary Credits: 18**

**VBO0224**            1.0

**VBO0221**            0.5

### Business and Office Technology

Dual Credit

➤ *Management and Administrative Pathway*

- Develop skills for a variety of office positions, such as administrative support specialist and office assistant
- Prepare for entry into a business environment

Grade: 10, 11, 12

Term: 1 Year      **Postsecondary Credits: 36**

**VBO2820**            2.0

**VBO2821**            0.5

**VBO2822**            0.5 Language Arts

*All fees are subject to change and additional fees may apply. Please contact our Advising Department at (303)344-4910, ext. 27909 or ext. 27935.*

**Cabinetmaking and Millwork**

Dual Credit

➤ *Architecture & Construction Pathway*

- Learn cabinetmaking fundamentals
- Design, build and install custom cabinets, millwork and doors
- Demonstrate safe operation of tools/equipment

Grade: 10, 11, 12

Fees: \$3

Term: 1 Year **Post Secondary Credits: 32**

**VBT3514** 2.0

**VBT3512** 1.0 Math

Discover the  
**GREAT**  
opportunities  
PTC  
has to offer!

**Collision Repair Technology**

➤ *Transportation, Distribution & Logistics Pathway*

- Experience a simulated working body shop environment.
- Prepare for employment as an auto body helper and auto refinish helper

Grade: 10, 11, 12

Fees: \$209 (per year)

Term: 1 Year **Postsecondary Credits: 28**

Term: 2 Years **Postsecondary Credits: 54**

**VTT6834** (Yr1) 2.0

**VTT6842** (Yr1) 1.0 Math

**VTT6826** (Yr 2) 3.0

**Computer-Aided Drafting**

Dual Credit

➤ *STEM Pathway*

- Develop computer-aided drafting skills
- Use CAD software and applied technical knowledge
- Prepare for employment in the drafting industry

Grade: 11, 12

**VTO6635** (Yr1) 1.5

**VTO6623** (Yr1) 1.0 Math

**VTO6633** (Yr1) 0.5

**VTO6636** (Yr2) 3.0

Term: 1 Year **Postsecondary Credits: 28**

Term: 2 Years **Postsecondary Credits: 54**

**Computer Service Technician A+**

Dual Credit

➤ *Information Technology Pathway*

- Troubleshoot and repair microcomputer systems and peripherals.
- Learn how to build your own computer in the class. Prepare for the A+ certification exam

Grade: 10, 11, 12

Term: 1 Semester **Postsecondary Credits: 14**

**VET6150** 1.0

**VET6151** 0.5

**Also enroll in Network Technician for one semester.**

**Construction Technology**

Dual Credit

➤ *Architecture & Construction Pathway*

- Learn blueprint reading, hand and power tool safety, house framing, exterior and interior finish work
- Build a house at the PTC construction site

Grade: 11, 12

Fees: \$3 (per year)

Term: 1 Year **Postsecondary Credits: 28**

Term: 2 Years **Postsecondary Credits: 55**

**VBT3416** (Yr1) 3.0

*All fees are subject to change and additional fees may apply. Please contact our Advising Department at (303)344-4910, ext. 27909 or ext. 27935.*

**VBT3426** (Yr2) 3.0

Dual Credit

**Cosmetology**

➤ *Human Services Pathway*

- Year 1: Begin with an introduction to hair, skin and nails through theory and a lab setting using mannequins
- Year 2: Learn intermediate and advanced training utilizing theory with clinical training
- Experience a salon environment
- Prepare to take the Colorado State Exam to receive a license

Grade: 11, 12

Fees: \$460 (Year 1 only)

Term: 2 Years **Postsecondary Credits: 63**

**VCO8118** (Yr1) 4.0

**VCO8128** (Yr2) 4.0

**Dental Assisting**

Dual Credit

➤ *Health Science Pathway*

- Prepare to assist the dentist chair side in a dental operator, perform various laboratory tasks and office management functions
- Receive CPR certification
- Prepare to take the national dental assisting certification exam

Grade: 11, 12

Fees: \$11 (Year 1 only)

Term: 2 Years **Postsecondary Credits: 50**

**VHO2166** (Yr1) 3.0

**VHO2167** (Yr2) 3.0

**Dental students must be 18 years of age before their final semester to enroll in this program.**

*Note: The dental clinical internship required for this certificate is scheduled after completion of all course work at PTC, at an additional cost to the student.*

**Design Production**

Dual Credit

➤ *Arts, A/V Technology and Communication Pathway*

- Learn application of design and color principles
- Create projects using industry software

Grade: 11, 12

Fees: \$25

Term: 1 Semester **Postsecondary Credits: 18**

**VCT0315** 1.5

**Design Production is semester two of the Multimedia Graphic Design program.**

**Diesel Power Mechanics**

Dual Credit

➤ *Transportation, Distribution & Logistics Pathway*

- Work on diesel equipment in a shop environment
- Prepare for entry-level diesel mechanics positions

Grade: 11, 12

Fees: \$39 (per year)

Term: 1 Year **Postsecondary Credits: 24**

Term: 2 Years **Postsecondary Credits: 48**

**VTT7015** (Yr1) 3.0

**VTT7017** (Yr2) 3.0

*All fees are subject to change and additional fees may apply. Please contact our Advising Department at (303)344-4910, ext. 27909 or ext. 27935.*

**Early Childhood Education**

➤ *Human Services Pathway*

- Experience Kids Tech, our on-site child care center
- Prepare for work in a childcare center, preschool, or elementary school environment

Grade: 10, 11, 12

Fees: \$21

Age: Must be 16 years of age

Term: 1 Year

**VSD8536** 3.0

*Students considering a career in education, child psychology, pediatric medicine, social work or other child-related occupations are encouraged to enroll.*

**Electrician Occupations**

Dual Credit
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➤ *Energy Pathway*

- Year 1: Learn the basic knowledge of electrical theory, AC current generation and distribution
- Plan, layout, rough-in and do a final check of a family residence.
- Year 2: Learn the basic knowledge of commercial and industrial wiring and controls
- Layout and install conduit in a commercial building or residence

Grade: 11, 12

Fees: \$174 (per year)

Term: 1 Year **Postsecondary Credits: 26.5**

Term: 2 Years **Postsecondary Credits: 53.5**

**VBT3612** (Yr1) 1.0 S1

**VBT3611** (Yr1) 0.5 Math S1

**VBT3613** (Yr1) 1.5 S2

**VBT3622** (Yr2) 1.0 S3

**VBT3621** (Yr2) 0.5 Math S3

**VBT3623** (Yr2) 1.5 S4

**Esthetician**

Dual Credit
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➤ *Human Services Pathway*

- Train in skincare, cosmetics, hair removal, and day spa facial and body treatments
- Prepare to take the Colorado State Exam to receive a license

Grade: 12

Fees: \$400

Term: 1.5 Sem. **Postsecondary Credits: 26**

**VCO8216** 3.0

**Executive Internship**

➤ *Education Pathway*

- Seniors intern 8-24 hrs/week with a professional at an internship site
- Complete work assignments, attend meetings, and develop projects
- Real world experience in a chosen career field

Grade: 12

Term: 1 Semester

**VEI1000** (Fall)

**VEI2000** (Spring)

Variable 2.0

Credits up to: 0.5

0.5 Language Arts

3.0 Total (Maximum)

<p><i>All fees are subject to change and additional fees may apply. Please contact our Advising Department at (303)344-4910, ext. 27909 or ext. 27935.</i></p>
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**Foundations for HealthCare Professionals**

Dual Credit

➤ *Health Science Pathway*

- Learn basic CPR, Nurse Assistant and First Responder skills
- Classroom and active hands-on experience

Grade: 11, 12

Fees: \$15

Term: 1 Year **Postsecondary Credits: 28**

**VHO1640** 3.0

**General Electronics Technology**

Dual Credit

➤ *Energy Pathway*

- Learn solid state and digital systems through laboratory experiments and classroom theory
- Prepare to enter the field of electronic product servicing, electronic assembler, installer, or test technician

Grade: 9, 10, 11, 12

Fees: \$ 40

Term: 1 Year **Postsecondary Credits: 30**

**VET6141** 0.75 S1

**VET6182** 0.75 Math S1

**VET6192** 0.75 S2

**VET6191** 0.75 Math S2

**General Service Technician**

Dual Credit

➤ *Transportation, Distribution & Logistics Pathway*

- Learn general knowledge of automobile maintenance
- Acquire skills for entry-level employment in car dealerships, private garages, and corporations with automotive fleets. (Automotive Technology is a more in-depth 1-2 year program focusing on automotive diagnostics and repair.)

Grade: 10, 11, 12

Fees: \$36

Term: 1 Year **Postsecondary Credits: 29**

**VTT7201** 3.0

**Graphic Design**

Dual Credit

➤ *Arts, A/V Technology and Communication Pathway*

- Learn the basics of graphic design
- Create projects using industry software

Grade: 11, 12

Fees: \$25

Term: 1 Semester **Postsecondary Credits: 17**

**VCT0310** 1.5

*For a full year program, enroll in Multimedia Graphic Design.*

**Hairstylist**

Dual Credit

➤ *Human Services Pathway*

- Perform hair services in the areas of cutting, styling, perming and coloring
- Experience a salon environment
- Prepare to take the Colorado State Exam to receive a license

Grade: 11, 12

Fees: \$380 (Year 1 only)

Term: 1.5 Years **Postsecondary Credits: 43**

**VCO8518** (Yr1) 4.0

**VCO8528** (Yr2) 2.0

(There is no training in nails and skincare)

*All fees are subject to change and additional fees may apply. Please contact our Advising Department at (303)344-4910, ext. 27909 or ext. 27935.*

**Heating & Air Conditioning**

Dual Credit

➤ *Architecture & Construction Pathway*

- Learn both theory and application of basic principles in the conditioning of air: cooling, heating, filtering and humidity
- Diagnose malfunctions, overhaul, repair, and adjust various units of cooling or heating systems

Grade: 11, 12

Fees: \$68

Term: 1 Year      **Postsecondary Credits: 32**

**VTO6515**            3.0

**Landscape Assistant**

Dual Credit

➤ *Agricultural & Natural Resources Pathway*

Grade: 9, 10, 11, 12

**VSD5314** (Yr1)    2.0

**VSD5324** (Yr2)    2.0

Term: 1 Year      **Postsecondary Credits: 4**

- This is a Horticulture Assistant program designed for diverse learners.

**Landscape Management**

Dual Credit

➤ *Agricultural & Natural Resources Pathway*

- Learn materials, operations and business practices for landscape, greenhouse, nursery, and interior plantscaping
- Learn landscape design using CAD software
- Prepare for entry-level job

Grade: 11, 12

Term: 1 Year      **Postsecondary Credits: 26**

Term: 2 Years    **Postsecondary Credits: 52**

**VSD5242** (Yr1)    1.0

**VSD5251** (Yr1)    0.5 Math

**VSD5243** (Yr1)    1.0 Science

**VSD5281** (Yr1)    0.5

**VSD5244** (Yr2)    2.0

**VSD5245** (Yr2)    0.5 Science

**VSD5271** (Yr2)    0.5 Math

**Medical Office Technology**

Dual Credit

➤ *Management and Administrative Pathway*

- Gain exposure to both computerized and manual systems to organize a medical office
- Learn to file medical records, schedule appoints and type medical reports

Grade: 10, 11, 12

Term: 1 Year      **Postsecondary Credits: 36**

**VBO2830**            2.5

**VBO2831**            0.5

With instructor approval, students may be able to add **VBO2832**—Medical Office Support Specialist Work Internship.

*All fees are subject to change and additional fees may apply. Please contact our Advising Department at (303)344-4910, ext. 27909 or ext. 27935.*

### Multimedia Graphic Design

Dual Credit

➤ *Arts, A/V Technology and Communication Pathway*

- Prepare to enter the world of art and design
- Focus on design principles and learn in depth design skills
- Create projects using graphic design software programs

Grade: 11, 12

Fees: \$50 (per year)

Term: 1 Year **Postsecondary Credits: 14**

Term: 2 Years **Postsecondary Credits: 28**

VCT0410 (Yr1) 2.5

VCT0415 (Yr1) 0.5

VCT0411 (Yr2) 3.0

**For a one semester program, enroll in Graphic Design.**

PTC delivers proven pathways  
to career success!

### Nail Technician

Dual Credit

➤ *Human Services Pathway*

- Train in manicures, pedicures, acrylic nails, gel nails, silk wraps, nail art and paraffin treatments
- Prepare to take the Colorado State Exam to receive a license

Grade: 11, 12

Fees: \$380

Term: 1 Year **Postsecondary Credits: 23**

VCO8414 3.0

### Network Technician

Dual Credit

➤ *Information Technology Pathway*

- Learn to connect computers together (LANs) and to wire peer-to-peer and TCP/IP networks
- Gain an understanding of how computer topologies function and are wired

Grade: 10, 11, 12

Term: 1 Semester **Postsecondary Credits: 15**

VET6152 1.0

VET6153 0.5

**Also enroll in Computer Service Technician for one semester.**

### Photographer's Assistant

Dual Credit

➤ *Arts, A/V Technology and Communication Pathway*

Grade: 11, 12

- Learn the basics of exposure theory, 35mm SLRs and B&W photography

Fees: \$35

Term: 1 Semester **Postsecondary Credits: 14**

VCT0405 1.5

**For a year long program, enroll in Professional Photography.**

### Power Sports Technology

Dual Credit

➤ *Transportation, Distribution & Logistics Pathway*

- Discover the basic elements of the sport vehicle technology by working with motorcycles, snow mobiles, all-terrain vehicles and personal watercraft
- Prepare for entry level employment in the industry

Grade: 10, 11, 12

Fees: \$56

Term: 1 Year **Postsecondary Credits: 28**

VTT7134 2.0

VTT7142 1.0 Math

*All fees are subject to change and additional fees may apply. Please contact our Advising Department at (303)344-4910, ext. 27909 or ext. 27935.*

**Precision & Computer Aided Machining**

Dual Credit

➤ *Manufacturing Pathway*

- Learn to design & fabricate custom mechanical parts used in the automobile, industrial manufacturing & aerospace industries using drill presses, lathes and grinders
- Learn programming, set-up and operation of Computer Numerical Control (CNC) equipment
- Prepare for employment as an entry-level machinist

Grade: 10, 11, 12

Fees: \$20 (per year)

Term: 1 Year **Postsecondary Credits: 25**

Term: 2 Years **Postsecondary Credits: 49**

(+ Optional Third Year)

VTO6734 (Yr1) 2.0

VTO6731 (Yr1) 0.5

VTO6741 (Yr1) 0.5 Math

VTO6815 (Yr2) 2.5

VTO6821 (Yr2) 0.5 Math

VTO6831 (Yr3) 3.0

(with instructor approval)

**Professional Photography**

Dual Credit

➤ *Arts, A/V Technology and Communication Pathway*

- Learn digital imaging, studio lighting and create a professional portfolio
- Use industry based software programs

Grade: 11, 12

Fees: \$60

Term: 1 Year **Postsecondary Credits: 28**

VCT0401 2.0

VCT0402 1.0

**For a one semester program, enroll in Photographer's Assistant**

**Property Maintenance Technician**

Dual Credit

➤ *Architecture & Construction Pathway*

- Learn basic maintenance of carpentry, plumbing, electrical, major appliances, HVAC and other mechanical systems
- Prepare for employment maintaining residential and commercial property

Grade: 11, 12

Fees: \$20

Term: 1 Semester **Postsecondary Credits: 12**

VBT3625 1.5

**Renewable Energy Technician**

Dual Credit

➤ *Energy Pathway*

- Study solar electrical power generation including AC/DC power circuits, electrical code and electrical wiring methods
- Experience hands-on sessions for the installation of solar photovoltaic systems

Grade: 11, 12 (PM only)

Term: 1 Semester **Postsecondary Credits: 15**

VBT3701 1.5

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### Teacher Cadet

➤ *Education & Training Pathway*

- Gain knowledge about the teaching profession through a fast-paced, innovative, hands-on curriculum
- Develop and master effective skills in public speaking, writing, presentations, communication and reasoning

Grade: 11, 12

Fees: \$13

Term: 2 Years

VSD8550 (Yr1) 0.5

VSD8551 (Yr1) 0.5 Language Arts

VSD8560 (Yr2) 1.0

Dual Credit

### Veterinary Assistant

➤ *Agriculture, Food and Natural Resources Pathway*

- Learn animal management, care, health and nutrition
- Gain office administration skills and study applicable standards and regulations

Grade: 11, 12

Fees: \$95

Term: 1 Year **Postsecondary Credits: 25**

VSD1813 1.0 Science

VSD1822 1.0 Math

VSD1832 1.0 Language Arts

**Note: Students must be willing to handle live animals, including snakes and arthropods, and be able to lift 20 pounds.**

### Welding

➤ *Manufacturing Pathway*

- Learn to use various welding processes to join different metals and metal thicknesses in the four basic welding positions
- Train for entry-level industrial employment

Grade: 10, 11, 12

Fees: \$145 (per year)

Term: 1 Year **Postsecondary Credits: 25**

Term: 2 Years **Postsecondary Credits: 49**

(+ Optional Third Year)

VTO6916 (Yr1) 3.0

VTO6926 (Yr2) 3.0

VTO6936 (Yr3) 3.0

Dual Credit

For additional information about Pickens Technical College and specific program information please see your home high school counselor or visit us on the web at [www.pickenstech.org](http://www.pickenstech.org).

Pickens Technical College offers a wide variety of certificate programs. Most Pickens programs provide dual credit that will be applied to a PTC college transcript. Students earning a C or better in the course may transfer those credits toward the Associate of Applied Science (AAS) degree at any community college in the state. An AAS consist of 60 college credits, applying certificate credits from Pickens will count for up to 45 of those credits.

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### **Middle College @ Pickens Technical College**

#### ***Get ahead in high school!***

Are you interested in a PTC Career & Tech Ed Program? If you are **–and** you'd like to take college classes while you're still in high school—then check out our MC@PTC!

MC@PTC offers students the “best of all worlds.” Juniors in Middle College take a Pickens program **plus** two additional academic classes at Pickens and spend less time at their home high schools. When they become seniors, students complete their selected CTE program at Pickens and attend 2-3 classes/semester at CCA, completing courses toward an Associate of Applied Science degree.

Students who choose MC@PTC are intent on beginning college courses while still in high school. That means working on both grades and academic skills that will help them succeed in the college setting—**are you up to the challenge?**

Submit an MC@PTC application the spring prior to your junior year. For more information, see your counselor or the Middle College Coordinator at Pickens Technical College, 303-344-4910, ext. 27729.

NOTE: See the Postsecondary Opportunities section of this planning guide for more degree information...and always consult an advisor as you plan your educational pathway!

