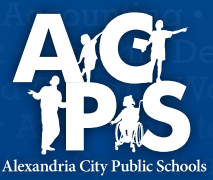


2020-21 PROGRAM OF STUDIES

DRAFT

12/12/2019

A PLANNING GUIDE FOR MIDDLE
AND HIGH SCHOOL STUDENTS AND
THEIR PARENTS



ACPS 2020

Every Student Succeeds



Goal 1: Academic Excellence & Educational Equity

Every student will be academically successful and prepared for life, work and college.

OBJECTIVES:

- Regularly assess and respond to the needs and interests and abilities of individual students
- Target academic achievement gaps and increase positive educational outcomes across race ethnicity income disability and language subgroups
- Focus on increasing representation of minority students in talented and gifted programs and an honors and advanced placement courses decreasing suspension rates of minority students particularly males and preventing over identification of racial ethnic minorities for remedial or special education services. ACPS will also focus on eliminating gender and racial/ethnic disparities among students enrolling in science technology engineering math and literature classes and in advanced classes such as honors and advanced placement.
- Provide each student with opportunities to be challenged and supported
- Make available to each teacher the resources and supports needed to provide an outstanding education for each and every student, and specifically tailored to each of the students learning style and background
- Continue to participate with the early care and education work group to create an early care and education ECE System focused on improving access quality of public awareness ECE services available for children and families.
- Engage with its students in an atmosphere conducive to mutual respect civil engagement and good citizenship
- In pursuit of its desire to provide lifelong learning opportunities facilitate English language education programs in support of individual economic advancement and civil engagement in Alexandria
- Create or expand alternative educational strategies and programs that will respond to the individual learning styles, minimize out of school suspensions and improve opportunities for all students
- Implement practices that maximize the benefits of cultural, linguistic, racial, ability, religious, gender identity, and ethnic diversity within the student body to ensure optimal levels of cultural competence among staff members and students and engage every student in a respectful school environment.
- Set expectations for the habits and behaviors students need to succeed and lay the foundation for student explorations and ethical conduct.

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WELCOME AND
GENERAL INFORMATION

2020-21

PROGRAM OF STUDIES
A Planning Guide for Students and Parents

ACPS MISSION
Every Student Succeeds

A LETTER FROM THE SUPERINTENDENT

Dear ACPS Students,

We are excited to provide you with the Program of Studies for the 2020-21 school year, which includes close to 400 face-to-face and online courses for students in grades six through twelve. At ACPS, you have a wide variety of rich and varied courses and we want to make sure that you make the most of this incredible opportunity.

Our vision here at ACPS is to see that every one of our students succeeds, and to make sure that you reach your full potential. We have aimed to provide opportunities that span the whole spectrum - from strong academic programming, college-level courses, Career and Technical Education (CTE) programs, and college-readiness programs. The broad selection of courses available through this Program of Studies provides a variety of pathways to prepare you to reach your goals of college, career and life success.

Success is almost impossible to achieve alone; however, our teachers, staff, and administrators are here to support you throughout your educational experience in ACPS. Furthermore, we encourage mentors and business leaders outside of school to gain the supports and experiences you need to succeed. Take advantage of the College and Career Center staff and your school counselor and reach out for advice and support as you begin to think about the next steps you want to take in life.

Our world is changing and so are the future careers and jobs for which we need to prepare you, our students. The next generation will change careers multiple times, reinvent themselves in the workplace and explore many different options. Use this time to explore different options, find your strengths, and develop interests and passions. Most of all, enjoy your time with ACPS. We believe in you and want this educational experience to prepare you for the world!

Dr. Gregory C. Hutchings, Jr.
Superintendent of Schools
Alexandria City Public Schools

UNA CARTA DE LA SUPERINTENDENTE

Estimados alumnos de ACPS:

Estamos encantados de ofrecerles el Programa de Estudios del año escolar 2020-2021, que incluye cerca de 400 cursos presenciales y en línea para alumnos en los grados seis al doce. En ACPS, ustedes disponen de una amplia variedad de cursos y queremos asegurarnos de que aprovechen al máximo esta increíble oportunidad.

Nuestra visión aquí en ACPS es velar porque cada uno de nuestros alumnos tenga éxito, y asegurarnos de que ustedes alcancen su pleno potencial. Nuestro objetivo es ofrecer oportunidades que abarquen todo el espectro, desde una fuerte programación académica hasta cursos de nivel universitario, programas de carrera profesional y educación técnica (CTE) y programas de preparación para la universidad. La amplia selección de cursos disponibles a través de este programa de estudios proporciona una amplia variedad de caminos para prepararlos a ustedes para que alcancen sus metas de universidad, de carrera y de éxito en la vida.

El éxito es casi imposible alcanzarlo solo; sin embargo, nuestros profesores, personal y administradores están aquí para apoyarlos durante toda su experiencia educativa en ACPS. Además, alentamos a los mentores y líderes de negocios de fuera de la escuela a que se ganen el apoyo y la experiencia que ustedes necesitan para triunfar. Aprovechen al personal del Centro Universitario y de Carrera (College and Career Center) y a su consejero escolar, y busquen asesoramiento y apoyo a medida que comienzan a pensar en los próximos pasos que desean dar en la vida.

Nuestro mundo está cambiando y también lo están las futuras carreras y empleos para los cuales necesitamos preparar a nuestros alumnos. La próxima generación va a cambiar de profesión varias veces, se reinventará en el lugar de trabajo y explorará muchas opciones diferentes. Utilicen este momento para explorar diferentes opciones, encontrar sus fortalezas y desarrollar sus intereses y pasiones. Por encima de todo, disfruten su paso por ACPS. ¡Creemos en ustedes y deseamos que esta experiencia educativa los prepare para el mundo!

Dr. Gregory C. Hutchings, Jr.
Superintendente Escolar
Escuelas Públicas de la Ciudad de Alexandria

ከሱፐርኢንቴንደንቱ የተጻፈ ደብዳቤ

ክቡራን የኤሲፒኤስ ቤተሰቦች፣

ለ2020-2021 የትምህርት ዘመን የፊት ለፊት የክፍል ውስጥ እና የአንላይ ኮርስዎች ወደ 400 የሚጠጉ የትምህርት መስኮች ከስድስተኛ እስከ አስራ ሁለተኛ ላሉ ተማሪዎች ስናቀርብ በደስታ ነው። በኤሲፒኤስ በርካታ የዳበሩ እና የተለያዩ ኮርሶች አሉ እና እነዚህን ጠቃሚ እድሎች በትክክል እንድትጠቀሙት ማረጋገጥ እንፈልጋለን።

የእኛ እይታ በኤሲፒኤስ እያንዳንዱ የእኛ ተማሪ ውጤታማ ሁኖ ማየት ነው እና አንተም አቅምህ በሚፈቅደው ደረጃ መድረስህን ማረጋገጥ ነው። የእኛ ዓላማ ሰፊ እድል እንዲኖር ማድረግ ነው - ጠንካራ የአካዳሚ ፕሮግራም ፣ በኮሌጅ ደረጃ ያለ ኮርስ፣ የሙያ እና የቴክኒክ ትምህርት (CTE) ፕሮግራም እና ኮሌጅ ዝግጁ የሚያደርግ ፕሮግራሞች። በዚህ የትምህርት ፕሮግራም የተካተቱ ሰፊ የኮርሶች ምርጫ እድል የተለያዩ መንገድ በመክፈት አንተን በኮሌጅ፣ የስራ ወይም የሕይወት ውጤታማነት ላይ እንድትደርስ ማድረግ ነው።

ስኬት በራስ ጥረት ብቻ የሚሆን አይደለም፣ ነገር ግን የእኛ አስተማሪዎች፣ ሰራተኞች እና አስተዳዳሪዎች በኤሲፒኤስ የትምህርት ቆይታ ወቅት አንተን ለመደገፍ ተዘጋጅተው ይገኛሉ። በተጨማሪም ከትምህርት ቤት ውጭ ያሉ በአሰልጣኞች(ሜንተርስ) እና የንግድ መሪዎች አማካኝነት አንተ ውጤታማ እንድትሆን የሚያስፈልገልህን ልምድ እንድታገኝ ድጋፍ እንዲያደርጉ እናበረታታለን። የኮሌጅ እና የስራ ማእከል ሰራተኞችን እና የትምህርት ቤት አማካሪ ድጋፍ በትክክል ተጠቀም እና በሕይወትህ በቀጣይ ለመውሰድ የምትፈልገውን እርምጃ ስታስብ የሚያስፈልገህን ምክርና እና ድጋፍ ለማግኘት ጥረት አድርግ።

ዓለማችን እየተቀየረች ናት እና በመሆኑም የወደፊት ሙያ የስራ እንደዚሁ። አንተንና ተማሪዎቻችን ለዚህ ማዘጋጀት ይኖርብናል። የመጪው ትውልድ ለበርካታ ጊዜ ሙያ መቀየሩ አይቀርም ራሳቸውን እንደገና በስራው ዓለም በመፍጠር እና የተለያዩ አማራጮችን ማየት ይፈልጋሉ። ይህን ጊዜ የተለያዩ አማራጮችን ለማየት ተጠቀም የራስህን ጥንካሬ እና ፍላጎትህን ስሜትህን በማሳደግ እድሉን ተጠቀምበት። ከሁሉም በላይ በኤሲፒኤስ ያለህን ጊዜ ተደስትበት። በአንተ ላይ እምነት አለን እና ይህ የትምህርት ልምድ አንተን ለትምህርት እንዲያዘጋጅ እንፈልጋለን።

ዶ/ር ግሪጎሪ ሲ. ሐትቺንግስ፣ ጁኒየር
የትምህርት ቤቶች ሱፐር ኢንቴንደንት(ዋና ሥራ አስኪያጅ)
የአሌክሳንደሪያ ከተማ የሕዝብ ት/ቤቶች

رسالة من المشرف العام

طلاب مدارس مدينة الإسكندرية الحكومية ACPS الأعداء،

إننا متحمسون لتقديم برنامج الدراسات للعام الدراسي 2020-2021، والذي يتضمن ما يقرب من 400 وحدة دراسية صافية وعبر شبكة الإنترنت للطلاب في المراحل الدراسية السادسة ولغاية الثانية عشر. لديكم في مدارس ACPS مجموعة واسعة متنوعة من الوحدات الدراسية الغنية والمتنوعة ونحن نرغب في ضمان إستفادتكم من هذه الفرصة المذهلة لأقصى قدر ممكن.

تتمثل رؤيتنا هنا في مدارس ACPS في رؤية نجاح كل طالب من طلابنا، والتأكد من وصولكم لجميع إمكاناتكم. لقد تمثّل هدفنا في توفير الفرص التي تمتد على نطاق كامل - من البرامج الأكاديمية القوية، وحدات دراسية على مستوى الكلية، برامج التعليم المهني والفني (CTE)، وبرامج الاستعداد لدخول الكلية. يوفر الاختيار الواسع للوحدات الدراسية المتوفرة من خلال برنامج الدراسات هذا مجموعة متنوعة من المسارات لإعدادكم لتحقيق أهدافكم في النجاح على مستوى الجامعة، المهنة، والحياة.

يكاد يكون النجاح صعب التحقيق بمفردكم: ومع ذلك، فإن كوادرننا التدريسية، المدرسية، والإدارية متواجدة هنا لدعمكم طوال تجربتكم التعليمية في مدارس ACPS. علاوة على ذلك، فإننا نشجع المرشدين وأصحاب الأعمال التجارية من خارج الهيئة التعليمية للحصول على الدعم والخبرات التي تحتاجونها للنجاح. استفيدوا من كادر مركز التخطيط الأكاديمي والمهني والمستشار التربوي في مدارسكم وتواصلوا للحصول على المشورة والدعم عند بدء التفكير في الخطوات التالية التي ترغبون في أخذها في الحياة.

أن عالمنا يتغير وكذلك الوظائف والمهن المستقبلية التي نحتاج إلى إعدادكم أنتم، طلابنا، لها. سوف يقوم الجيل القادم بتغيير مهنته عدة مرات، وإعادة إثبات أنفسهم في مكان العمل واستكشاف العديد من الخيارات المختلفة. استخدموا هذا الوقت لاستكشاف خيارات مختلفة، والتعرف على نقاط القوة لديكم، وتطوير الاهتمامات والميول. الأهم من ذلك كله، استمتعوا بوقتكم مع مدارس ACPS. نحن نؤمن بكم ونريد من هذه التجربة التعليمية أن تساهم في إعدادكم للحياة المهنية!

Dr. Gregory C. Hutchings, Jr.

المدير العام للهيئة التعليمية

مدارس مدينة الإسكندرية الحكومية

INTRODUCTION

The Profile of a Virginia Graduate describes the knowledge, skills, experiences, and attributes critical for a student's success in college or a career. The Alexandria City Public Schools Program of Studies aligns with The Profile of a Virginia Graduate as it outlines pathways, description of courses, and the graduation requirements for a student to earn a Standard Diploma or Advanced Studies Diploma.

This Program of Studies is designed to help you gain a better understanding of the course offerings, while providing you with information that will help you prepare for your future. Academic and career planning is an important process that will involve a collaborative effort between you, your family, your counselors and teachers. The more actively involved you are in this process, the more informed your decisions will be in guiding your educational preparation to meet your future goals.

The Program of Studies describes course offerings that are intellectually challenging based on grade level skills and content. These courses will prepare students for college or career and will ensure that every student graduates with the ability to demonstrate the following five competencies known as the "Five C's":

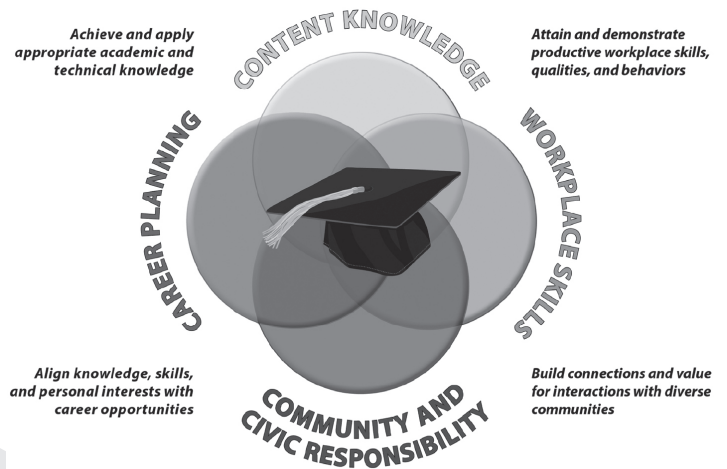
- Critical thinking
- Creative thinking
- Communication
- Collaboration
- Citizenship

Academic and career planning is an ongoing process throughout your educational career. The following steps will guide you as you prepare to meet your college and career goals, and fulfill your potential:

- Complete career-related assessments in Naviance. These assessments will help you identify your interests, skills, and personality type.
- Utilize this information to research and identify potential careers based on your interests, skills, and personality type. Explore post-secondary institutions that offer programs to prepare you for those careers and review admissions requirements.
- Develop a rigorous and relevant individualized career and academic plan (ICAP). This plan will meet graduation requirements, and prepare for your post-secondary goals while in middle and high school using the resources in this section.

Profile of a Virginia Graduate

In Virginia, the Life Ready Individual Will
During His or Her K-12 Experience:



FOR ADDITIONAL INFORMATION, CONTACT THE SCHOOL COUNSELING OFFICE AT YOUR SCHOOL:

T.C. Williams High School King Street Campus
703-824-6828

T.C. Williams High School Minnie Howard Campus
703-824-6750

T.C. Williams High School Satellite Campus
703-619-8400

Francis C. Hammond Middle School
703-461-4100

George Washington Middle School
703-706-4500

Patrick Henry K-8 School
703-461-4170

Jefferson-Houston PreK-8 IB School
703-706-4400

GRADUATION REQUIREMENTS

Please note: Graduation requirements are subject to change. You may refer to the following link for more information:
<http://www.doe.virginia.gov/boe/accreditation/index.shtml>.

ADVANCED STUDIES DIPLOMA

Discipline Area	Standard Credits (9th grade entry 2011-12 and beyond)	Verified Credits (9th grade entry in 2017-18 or prior)	Verified Credits (9th grade entry in 2018-19 and beyond)
English	4	2	2
History and Social Sciences	4	2	1
Mathematics	4	2	1
Laboratory Sciences	4	2	1
World Languages	3 (or 2+2)		
Health and Physical Education	2		
Fine Arts or Career and Technical Education (CTE)	1		
Economics and Personal Finance	1		
Electives	3		
Student-Selected Tests		1	
Total	26	9	5

Additional Requirements: Online Course, First Aid/CPR/AED Training, AP or DE Course* (9th grade entry 2017-18 and prior), AP Course** (9th grade entry 2018-19 and beyond)

*ACPS requirement

**The Virginia Board of Education requires that students who enter 9th grade in 2018-19 and beyond complete either an AP, IB, or honors course OR earn a CTE credential. The ACPS AP course requirement for the Advanced Studies diploma fulfills this Virginia requirement.

EXPLANATIONS AND CLARIFICATIONS

1. DISCIPLINES AND COURSES

English –

English 9, honors or standard
 English 10, honors or standard
 English 11, honors or standard, Advanced Placement (AP) English Language or Dual Enrollment (DE) College Composition
 English 12, honors or standard, AP English Literature and Composition, Dual Enrollment College Composition or Dual Enrollment Survey of World Literature

Mathematics –

At or above the level of Algebra I, credits shall include at least three course selections from among Algebra I, Geometry, Algebra Functions and Data Analysis (AFDA), Algebra II or above Algebra II. Students in grades 7 and 8 who take Algebra and Geometry during middle school will earn a high school credit for each subject.

Laboratory Sciences –

Four credits must be earned from among three different science disciplines: Earth Science, Biology, Chemistry, or Physics. Students who enroll in AP Science courses must co-enroll in and complete the appropriate AP Science Lab Seminars. When planning course selections, students must count two full periods for each AP science course. The AP course earns science credit and the AP Science Lab Seminar earns elective credit.

Social Sciences –

World History and Geography, Part I, standard or honors, or AP Human Geography
 World History and Geography, Part II, standard or honors, or AP World History: Modern
 Virginia and U.S. History, Honors, AP or DE
 Virginia and U.S. Government, standard, honors, or AP

World Languages –

Three years of one language or two years each of two languages. Students in grades 6, 7, and 8 who successfully complete both parts 1A and 1B and year two of a World Language will earn two high school credits.

Electives –

Selected from among offerings in core academic disciplines, Fine Arts and/or CTE courses. Students who enter 9th grade in 2018-19 and beyond must take two electives that are sequential (coursework that builds similar skills).

Virtual Courses –

Students who enter 9th grade in 2013-14 and beyond must successfully complete one virtual course, which may be non-credit bearing or incorporated as a significant part of a course, such as Economics and Personal Finance.

First Aid/CPR/AED Training –

Students who enter 9th grade in 2016-17 and beyond are required to be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation.

2. VERIFIED CREDITS – To earn Verified Credits, students in certain subjects must pass the course and the associated Standards of Learning (SOL) end-of-course test or tests (refer to “Standards of Learning, End-of-Course Tests and Verified Credits” on page 50.)

NOTE – Each middle school student shall take all applicable SOL tests following course instruction. Each high school student shall take all associated AP and CTE tests following course instruction. Each high school student shall take all applicable SOL tests following course instruction that are needed to earn verified credit and/or that are required for federal accountability.

NOTE – Grades earned in Algebra I, Geometry, and/or World Languages during middle school will be used to calculate the high school grade point average (GPA) unless the parent/legal guardian exercises the option to omit the grades and credits from the high school transcript. When these high school courses are omitted from the student’s transcript, all graduation requirements must be met. For example, omitting Algebra I in middle school will require the student to earn three or four standard and verified credits of high school mathematics to meet graduation requirements..

GRADUATION REQUIREMENTS

Please note: Graduation requirements are subject to change. You may refer to the following link for more information:
<http://www.doe.virginia.gov/boe/accreditation/index.shtml>.

STANDARD DIPLOMA			
Discipline Area	Standard Credits (9th grade entry 2011-12 and beyond)	Verified Credits (9th grade entry in 2017-18 or prior)	Verified Credits (9th grade entry in 2018-19 and beyond)
English	4	2	2
History and Social Sciences	4*	1	1
Mathematics	3	1	1
Laboratory Sciences	3	1	1
Health and Physical Education	2		
Fine Arts or CTE	1		
Fine Arts, CTE, or World Languages	1		
Economics and Personal Finance	1		
Electives	3		
Student-Selected Tests		1	
Total	22	6	5

Additional Requirements: Online Course, First Aid/CPR/AED Training, CTE credential (9th grade entry 2013-14 through 2017-18), AP or Honors Course or CTE Credential (9th grade entry in 2018-19 and beyond)

*ACPS requirement (Additional World History & Geography Credit)

EXPLANATIONS AND CLARIFICATIONS

1. DISCIPLINES AND COURSES

English –

English 9, honors or standard
 English 10, honors or standard
 English 11, honors or standard, Advanced Placement (AP) English Language or Dual Enrollment (DE) College Composition
 English 12, honors or standard, AP English Literature and Composition, Dual Enrollment College Composition or Dual Enrollment Survey of World Literature

Mathematics –

At or above the level of Algebra I, credits shall include at least three course selections from among Algebra I, Geometry, Algebra Functions and Data Analysis (AFDA), Algebra II or above Algebra II. Students in grades 7 and 8 who take Algebra and Geometry during middle school will earn a high school credit for each subject.

Laboratory Sciences –

Three credits must be earned from among two different science disciplines: Earth Science, Biology, Chemistry, or Physics. Students who enroll in AP Science courses must co-enroll in and complete the appropriate AP Science Lab Seminars. When planning course selections, students must count two full periods for each AP science course. The AP course earns science credit and the AP Science Lab Seminar earns elective credit.

Social Sciences –

World History and Geography, Part I, standard or honors, or AP Human Geography
 World History and Geography, Part II, standard or honors, or AP World History:
 Modern
 Virginia and U.S. History, Honors, AP or DE
 Virginia and U.S. Government, standard, honors, or AP

Electives –

Selected from among offerings in core academic disciplines, Fine Arts and/or CTE courses. Students earning a standard diploma must take two electives that are sequential (coursework that builds similar skills).

Virtual Courses –

Students who enter 9th grade in 2013-14 and beyond must successfully complete one virtual course, which may be non-credit bearing or incorporated as a significant part of a course, such as Economics and Personal Finance.

First Aid/CPR/AED Training –

Students who enter 9th grade in 2016-17 and beyond are required to be trained in emergency first aid, cardiopulmonary resuscitation, and the use of automated external defibrillators, including hands-on practice of the skills necessary to perform cardiopulmonary resuscitation.

2. VERIFIED CREDITS – To earn Verified Credits, students in certain subjects must pass the course and the associated Standards of Learning (SOL) end-of-course test or tests (refer to “Standards of Learning, End-of-Course Tests and Verified Credits” on page 50.)

NOTE – Each middle school student shall take all applicable SOL tests following course instruction. Each high school student shall take all associated AP and CTE tests following course instruction. Each high school student shall take all applicable SOL tests following course instruction that are needed to earn verified credit or that are required for federal accountability.

NOTE – Grades earned in Algebra I, Geometry, and/or World Languages during middle school will be used to calculate the high school grade point average (GPA) unless the parent/legal guardian exercises the option to omit the grades and credits from the high school transcript. When these high school courses are omitted from the student’s transcript, all graduation requirements must be met. For example, omitting Algebra I in middle school will require the student to earn three or four standard and verified credits of high school mathematics to meet graduation requirements.

APPLIED STUDIES DIPLOMA

The Applied Studies Diploma is intended for certain students at the secondary level who have a disability and for whom the Individualized Education Program (IEP) team determines is unable to meet credit requirements for either the standard or advanced studies diploma and has met the goals of their IEP. Eligibility and participation in the Applied Studies Diploma program shall be determined by the student's IEP team and the student, when appropriate. The school must secure informed written consent of the parent/legal guardian and the student, when appropriate, to change to this diploma program.

For more information, call the ACPS Office of Specialized Instruction at 703-619-8023.

CERTIFICATE OF PROGRAM COMPLETION

Students who successfully complete all academic coursework required for the Standard Diploma, but who have not earned/ been awarded the necessary number of Verified Credits will be awarded Certificates of Program Completion. These students are strongly encouraged to continue to take SOL or approved substitute assessments needed to earn a full diploma.

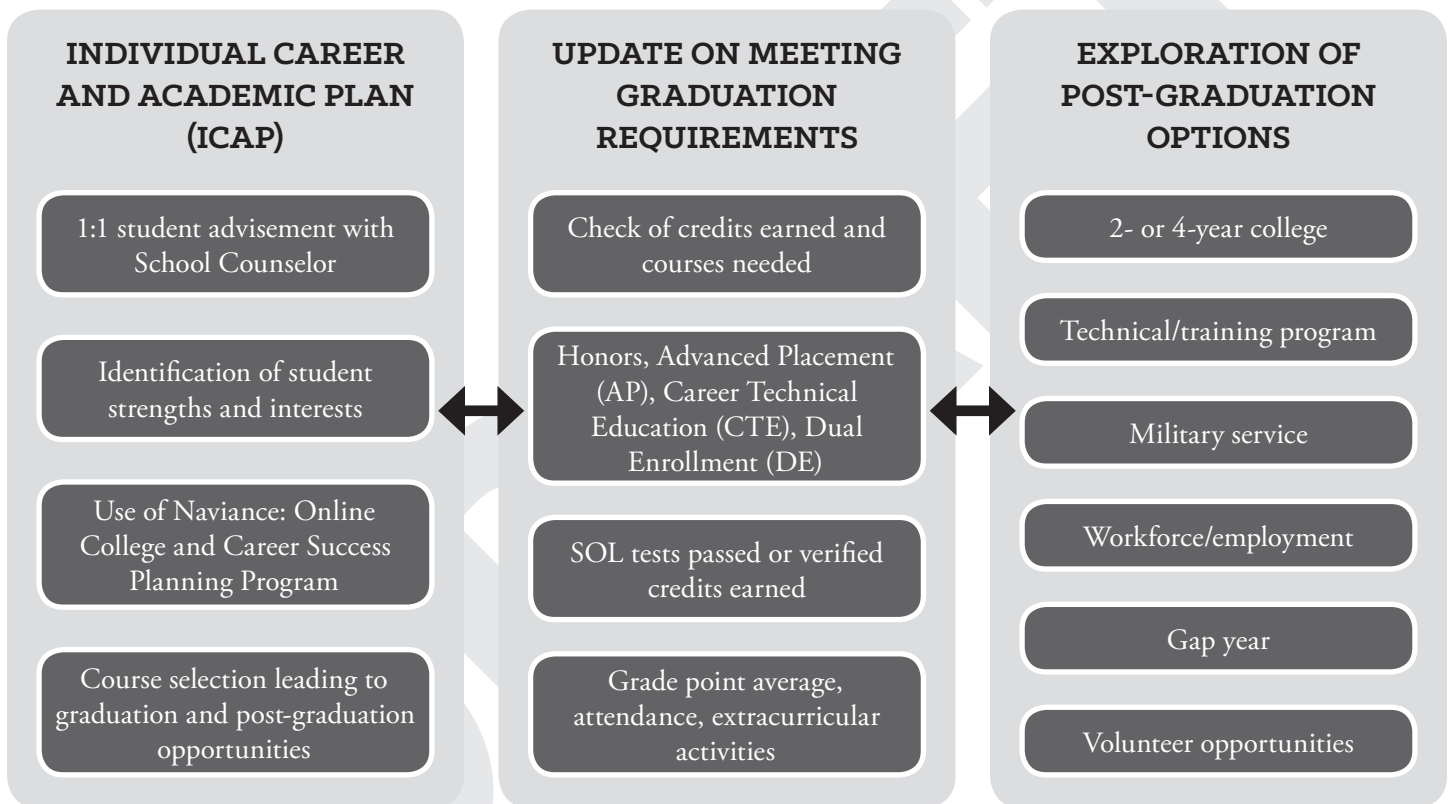
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MAKING YOUR CAREER & ACADEMIC PLAN (MYCAP)



Being prepared for work, life and college is about more than earning a high school diploma. That's why Making Your Career and Academic Plan (MYCAP) is so important and requires collaboration between students, families, school counselors and teachers. Families can make an appointment to visit the **T.C. Williams College and Career Center** or students can just drop by with questions about exploring career options, summer opportunities, college, standardized testing and test preparation, financial aid, scholarships and more.

Empower Students in Grades 6-12 to plan through MYCAP!



INDIVIDUALIZED CAREER AND ACADEMIC PLAN

- The Individual Career and Academic Plan (ICAP) provides a structured means to support students in achieving their potential, actively contribute to his/her own learning and be prepared for college, work and life.
- The ICAP is the vehicle by which each student, with support for his or her unique circumstances, will graduate from high school with the knowledge and skills necessary for higher education, multiple career paths and active citizenship.
- The ICAP is a working document that maximizes student achievement by having students accomplish goals in middle and high school that leads to post-secondary and career readiness.
- The plan is one that will evolve and adapt over time, just like our students' interests and talents.
- The components of the ICAP include the students' program of study for high school graduation, a post-secondary career pathway based on the students' academic and career interests, and goal-setting, with a focus on English and Math, or any content area where the student may need additional support in order to be successful in achieving his or her post-secondary goals. Students will analyze their data regularly to monitor their mastery of goal attainment.
- Students utilize Naviance, the online college and career planning system, to complete the Do What You Are, Personality-Type assessment and the Career Cluster Finder career assessments. It is also used to complete the Naviance Course Planner and create a grade 6-12 program of study for high school graduation and a post-secondary career pathway. This is based on the students' academic and career interests. The ICAP timeline is on the following pages.

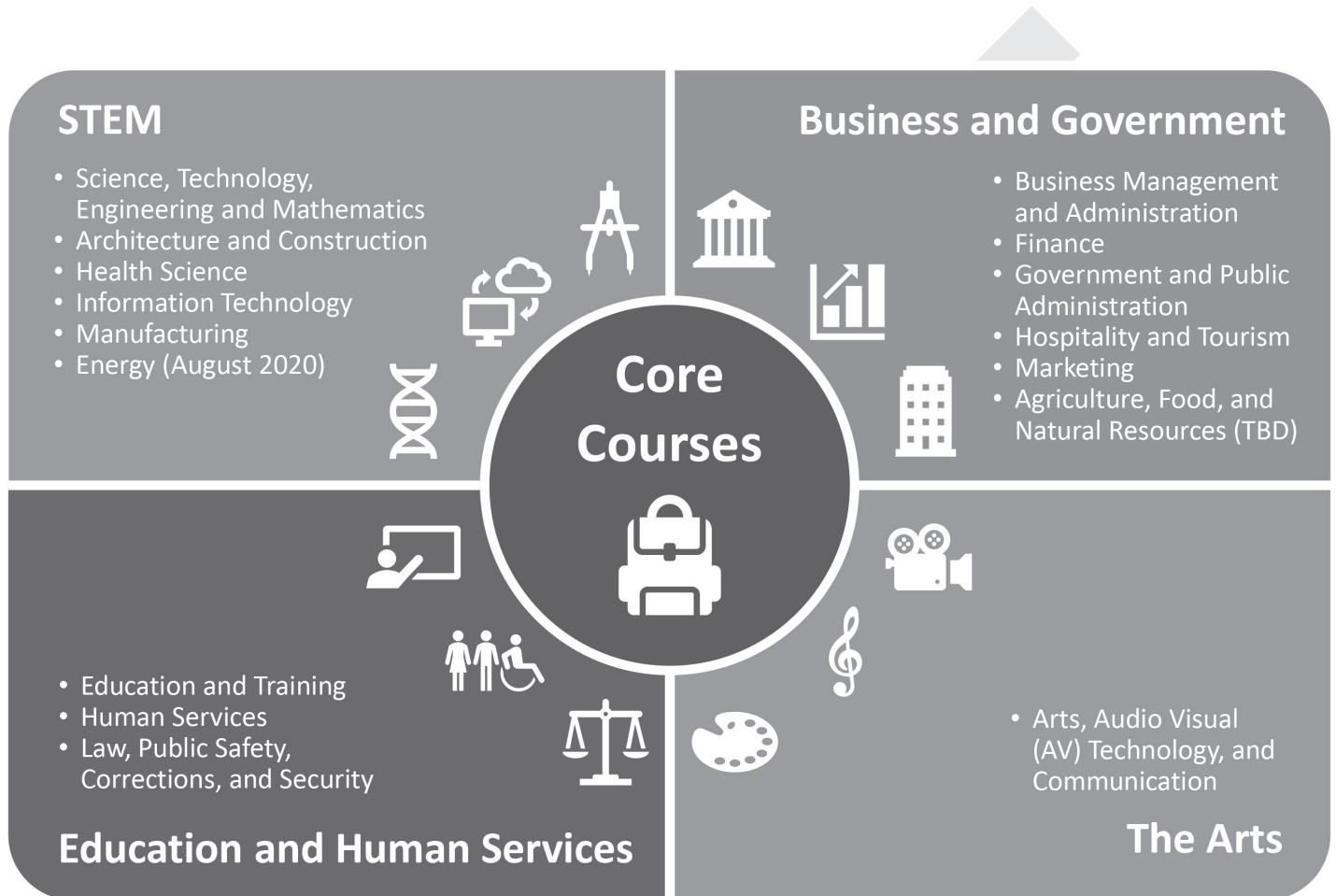
INDIVIDUAL CAREER AND ACADEMIC PLAN (ICAP)

Timeframe	Activities
<p>1st Quarter</p> <p>Students explore their individual interests, develop their strengths and cultivate their gifts and talents.</p>	<p>Individual</p> <ul style="list-style-type: none"> • School counselors and students review the individual course schedule by grade level. • School counselors and high school students check the number of credits earned to determine the status of meeting graduation requirements. • Student sets academic, social emotional and college and career S.M.A.R.T. goals. • Students explore strengths, interests throughout career assessments in Naviance by grade level. • School counselors present ICAP classroom lesson based on the developmental needs of different student populations. • High school student takes the pre-college and college entrance exams (i.e., PSAT, SAT and/or ACT). • School counselors and all students discuss college entrance requirements by grade level. • Students and families attend the annual ACPS College and Career Fair.
<p>2nd Quarter</p> <p>Students develop knowledge of career pathways to connect their learning to 21st century post-secondary opportunities that include 2 or 4 year college, career training, work experiences and volunteer opportunities.</p>	<p>Career</p> <ul style="list-style-type: none"> • School counselor works with students to complete a career interest inventory and a career assessment in Naviance to explore post-secondary opportunities. • School counseling team informs and updates families on the ICAP process through announcements, newsletters and/or parent meetings. • Monitoring of student S.M.A.R.T. goals. • School counselors present classroom lesson to reinforce and strengthen academic, social emotional and career development • School counselor and student review 1st quarter progress and make adjustments as needed.

Timeframe	Activities
<p>3rd Quarter</p> <p>Students challenge themselves to engage in an academically rigorous and developmentally appropriate course of study that supports healthy social, emotional and career development goals and objectives.</p>	<p>Academic</p> <ul style="list-style-type: none"> • School counselor and students begin the academic advising process for the next school year by reviewing the credits the student earned and the credits the student still needs to meet graduation requirements. • Student and his/her family reviews the Program of Study to determine which courses the student will take considering the student's interests and career trajectory. • School counselors continue to deliver classroom lessons emphasizing the use of Naviance for college and career exploration and planning. • School counselor and student review 2nd quarter progress and makes adjustments as needed.
<p>4th Quarter</p> <p>Students cultivate their plan to build upon their learning successes and strengthen their areas of growth as they move forward and advance to the next grade level, school level or into higher education and their chosen career.</p>	<p>Plan</p> <ul style="list-style-type: none"> • Academic advisement continues with a final reflection on the academic, social emotional and college and career development of the student over the school year. • Depending on the developmental level of the student, plans for the summer include activities that will enrich the student and support their post-secondary goals and interests. • Students may need to register for summer school to make up courses and/or take advantage of enrichment opportunities to complete coursework early. • Students and families take advantage of opportunities to visit colleges over the summer and to get work experience and complete volunteer work. • School counseling team informs and updates families on the ICAP process through newsletters and/or parent meetings. • Students provide feedback on the ICAP process and changes are made incorporating student feedback.

EDUCATIONAL PROGRAMMING FRAMEWORK

This represents Virginia Department of Education and ACPS graduation requirements, 17 Career and Technical Education (CTE) career clusters and includes program options for Advanced Placement (AP) and Dual Enrollment (DE), Specialized Instruction (SPED), English Learners (EL), and General Education (GE).



STEPS FOR ACADEMIC AND CAREER PLANNING

GRADE	6	7	8	9	10	11	12
Meet with your counselor to discuss, create and update your Individualized Career and Academic Plan (ICAP)	•	•	•	•	•	•	•
Take career-related assessments in Naviance	•	•	•	•	•	•	•
Talk to parents/legal guardians, teachers and a counselor about your interests and post-secondary goals	•	•	•	•	•	•	•
Talk to parents/legal guardians and other adults about their careers	•	•	•	•	•	•	•
Attend career and elective fairs	•	•	•	•	•	•	•
Identify and research potential careers	•	•	•	•	•	•	•
Look at colleges and identify high school courses needed for college admission	•	•	•	•	•	•	•
Educate yourself about the different kinds of diplomas and the requirements for each	•	•	•	•	•	•	•
Review the Program of Studies and identify courses you would like to take in the future	•	•	•	•	•	•	•
Enroll in Honors, Advanced Placement, Dual Enrollment and other advanced academic courses offered in high school	•	•	•	•	•	•	•
Challenge yourself academically; strive for a higher GPA each year	•	•	•	•	•	•	•
Participate in school and community activities	•	•	•	•	•	•	•
Consider summer enrichment programs, including campus, school-based courses and college courses	•	•	•	•	•	•	•
Consider volunteering or service learning activities	•	•	•	•	•	•	•
Create a game plan in Naviance Family Connection and update it each year	•	•	•	•	•	•	•
Start exploring financial aid options			•	•	•	•	•
Review your academic record to ensure information is correct		•	•	•	•	•	•
Start narrowing your field of potential careers and identify colleges that offer related majors			•	•	•	•	•
Become familiar with the T.C. Williams College and Career Center				•	•	•	•
Visit the Scholarship Fund of Alexandria office				•	•	•	•
Take PSAT/SAT				•	•	•	•
Identify teachers, coaches or other adults who might write letters of recommendation for you				•	•	•	•
Attend college fairs and see presentations by college admissions representatives visiting T.C. Williams High School			•	•	•	•	•
Create a résumé in Naviance; update annually			•	•	•	•	•
Research and start applying for potential scholarships					•	•	•
Consider a part-time job or volunteer opportunity in a field related to your career goals					•	•	•
Start narrowing your college choices and visit the schools; create a filing system for notes				•	•	•	•
Consider community college, technical schools or apprenticeship programs						•	•
Start the application process for a military academy						•	•
Take College Entrance Exams (SAT, ACT, SAT Subject); retake as needed						•	•
Take the ASVAB if considering military options; retake as needed					•	•	•
Practice interviewing skills					•	•	•
Narrow your college list to five or six schools and visit the campuses						•	•
Write your college application essay and/or personal statement						•	•
Complete and send college applications; decide if you are applying for early decision							•
Consider applying to the Pathway to the Baccalaureate Program through Northern Virginia Community College (NOVA)							•
Take the NOVA placement exams if considering the community college							•
Tell your counselor what colleges you are applying to so the appropriate information will be sent							•
Request letters of recommendation through Naviance							•
Complete the Federal Financial Aid Forms (FAFSA) as close to January 1 as possible							•
Complete the Scholarship Fund of Alexandria application and any other scholarship applications							•
Meet with a recruiter if you are joining the military; complete paperwork							•
Inform your counselor of your final post-secondary plans							•
Notify colleges by May 1 of your final decision							•
Participate in the Senior Experience program							•
Graduate with an action plan for your future success							•

CAREER AND TECHNICAL EDUCATION (CTE) CAREER CLUSTERS AND PATHWAYS

Developed by the U.S. Department of Education, there are 17 Career Clusters representing most occupations, which are divided into pathways. T.C. Williams High School offers courses that fit into 14 of these 17 Career Clusters.

This chart correlates the CTE courses at T.C. Williams High School with 14 of the 17 Career Clusters and pathways designated by the Office of Career and Technical Education at the Virginia Department of Education.

CAREER CLUSTER	CAREER PATHWAY	CTE COURSES	
Architecture and Construction	Design/Pre-Construction	Advanced Architectural Drawing and Design II	
Arts, Audio/Visual Technology and Communications	Journalism and Broadcasting	Television and Media Production I Dual Enrollment Television and Media Production II Television and Media Production III	
	Visual Arts	Commercial Photography I Commercial Photography II	
Business Management and Administration	Business Information Management	Business Law Business Management	
Education and Training	Teaching and Training	Dual Enrollment Advanced Early Childhood Education and Services II Introduction to Early Childhood Education and Services I Dual Enrollment Teachers for Tomorrow	
Finance	Accounting	Accounting I Advanced Accounting II	
	Business Finance	AOF Economics and Personal Finance AOF Introduction to Financial Services	Dual Enrollment AOF Introduction to Business and International Finance
Government and Public Administration	National Security	JROTC I JROTC II	JROTC III JROTC IV
Health Science	Therapeutic Services	Dual Enrollment Emergency Medical Technician I & II Dual Enrollment Introduction to Health and Medical Sciences Dual Enrollment Medical Laboratory Technology I Dual Enrollment Medical Terminology Dual Enrollment Nurse Aide I	
		Dual Enrollment Pharmacy Technician I Dual Enrollment Sports Medicine I Dual Enrollment Sterile Processing Surgical Technologist I	
	Diagnostic Services	Dual Enrollment Biotechnology Foundations in Health and Medical Sciences Dual Enrollment Introduction to Health and Medical Sciences	Dual Enrollment Medical Laboratory Technology I Dual Enrollment Medical Terminology Dual Enrollment Sports Medicine I Dual Enrollment Sterile Processing
	Health Informatics	Dual Enrollment Biotechnology Foundations in Health and Medical Sciences Dual Enrollment Introduction to Health and Medical Sciences	Dual Enrollment Medical Laboratory Technology I Dual Enrollment Medical Terminology Dual Enrollment Pharmacy Technician I
	Support Services	Dual Enrollment Biotechnology Foundations in Health and Medical Sciences	Dual Enrollment Medical Terminology Dual Enrollment Pharmacy Technician I
Hospitality and Tourism	Biotechnology Research and Development	Dual Enrollment Biotechnology Foundations in Health and Medical Sciences Dual Enrollment Medical Laboratory Technology I	Dual Enrollment Sterile Processing
	Recreation, Amusements and Attractions	Sports and Entertainment Marketing Sports and Entertainment Management	
	Restaurants and Food and Beverage Services	Introduction to Culinary Arts I Culinary Arts II	
Human Services	Travel and Tourism	Hospitality and Tourism Marketing	
	Early Childhood Development and Services	Child Development	
	Personal Care Services	Cosmetology I Cosmetology II	

CTE CAREER CLUSTERS AND PATHWAYS (CONTINUED)

CAREER CLUSTER	CAREER PATHWAY	CTE COURSES
Information and Technology	Network Systems	Dual Enrollment Networking Hardware Operations I and II
	Information Support and Services	Advanced Computer Information Systems II Cybersecurity Fundamentals Computer Information Systems I
	Web and Digital Communications	Graphic Design and Multimedia I Advanced Graphic Design and Multimedia II
	Cybersecurity and Cloud Computing	Cybersecurity Fundamentals Dual Enrollment Networking Hardware Operations I and II Electronics Systems I Electronics Systems II
Law, Public Safety, Corrections and Security	Law Enforcement Services	Criminal Justice I Criminal Justice II
Marketing	Marketing Management	Marketing I Advanced Marketing II Dual Enrollment Entrepreneurship: Business Ownership and Management Dual Enrollment Advanced Entrepreneurship
	Merchandising	Fashion Marketing I Advanced Fashion Marketing II Introduction to Fashion Careers
Science, Technology, Engineering and Mathematics	Engineering and Technology	Advanced Engineering Drawing and Design II Aerospace Technology I Aerospace Technology II Biotechnology and Forensics Foundations Electronics Systems I Electronics Systems II Engineering Analysis and Applications II (Robotics) Engineering Explorations I Dual Enrollment Introduction to Engineering Sustainability and Renewable Technologies Technical Drawing and Design I
Transportation, Distribution and Logistics	Facility and Mobile Equipment Maintenance	Automotive Technology I Dual Enrollment Automotive Technology II Dual Enrollment Automotive Technology III

SAMPLE COURSE SEQUENCES – ENGLISH

The sample course sequence can be used as a guide to assist students in planning their course of study during their school career. When choosing course selections, students should take into consideration their Individualized Career and Academic Plan and the Secondary and Post-Secondary Career Cluster Pathway.

MIDDLE SCHOOL

GRADE 6	GRADE 7	GRADE 8
Language Arts 6	Language Arts 7	Language Arts 8
Language Arts Honors 6	Language Arts Honors 7	Language Arts Honors 8

HIGH SCHOOL

SAMPLE	GRADE 9	GRADE 10	GRADE 11	GRADE 12
All	English 9	English 10 Honors English 10	English 11 Honors English 11 AP English Language and Composition Dual Enrollment College Composition 11	English 12 Honors English 12 Dual Enrollment College Composition 12 Dual Enrollment Survey of World Literature AP English Language and Composition AP English Literature and Composition
All	Honors English 9	English 10 Honors English 10	English 11 Honors English 11 AP English Language and Composition Dual Enrollment College Composition 11	English 12 Honors English 12 Dual Enrollment College Composition 12 Dual Enrollment Survey of World Literature AP English Language and Composition AP English Literature and Composition
1	English 9	English 10	English 11	English 12
2	English 9	English 10	Dual Enrollment College Composition 11	Dual Enrollment Survey of World Literature
3	English 9	English 10	English 11	Dual Enrollment College Composition 12
4	English 9	English 10	Honors English 11	Honors English 12
5	Honors English 9	Honors English 10	Honors English 11	Honors English 12
6	Honors English 9	Honors English 10	Honors English 11	AP English Language and Composition
7	Honors English 9	Honors English 10	Honors English 11	AP English Literature and Composition
8	Honors English 9	Honors English 10	AP English Language and Composition	AP English Literature and Composition
9	Honors English 9	Honors English 10	Dual Enrollment College Composition 11	Dual Enrollment Survey of World Literature

ELECTIVE OPTIONS

SAMPLE	GRADE 9	GRADE 10	GRADE 11	GRADE 12
All	Debate I Journalism I Public Speaking I Public Speaking II	Debate I Debate II Creative Writing Journalism I Journalism II: Magazine Journalism II: Newspaper Journalism II: Yearbook Public Speaking I Public Speaking II Writing Center Peer Tutor	Debate I Debate II Creative Writing Journalism I Journalism II: Magazine Journalism II: Newspaper Journalism II: Yearbook Public Speaking I Public Speaking II Writing Center Peer Tutor	Debate I Debate II Creative Writing Journalism I Journalism II: Magazine Journalism II: Newspaper Journalism II: Yearbook Public Speaking I Public Speaking II Writing Center Peer Tutor

*Intervention/Literacy courses are not included

My student is in _____.	What core English course could they take next year?	What elective course could they take next year?	
Language Arts 8	English 9 Honors English 9	Debate I Journalism I Public Speaking I	Public Speaking II College Competencies for the 21st Century A College Competencies for the 21st Century B
Language Arts Honors 8	English 9 Honors English 9	Debate I Journalism I Public Speaking I	Public Speaking II College Competencies for the 21st Century A College Competencies for the 21st Century B
English 9	English 10 Honors English 10	Debate I Debate II Journalism I Journalism II: Magazine Journalism II: Newspaper	Journalism II: Yearbook Public Speaking I Public Speaking II College Competencies for the 21st Century A College Competencies for the 21st Century B
Honors English 9	English 10 Honors English 10	Debate I Debate II Journalism I Journalism II: Magazine Journalism II: Newspaper	Journalism II: Yearbook Public Speaking I Public Speaking II College Competencies for the 21st Century A College Competencies for the 21st Century B
English 10	English 11 Honors English 11 AP English Language and Composition Dual Enrollment College Composition 11	Debate I Debate II Journalism I Journalism II: Magazine Journalism II: Newspaper Journalism II: Yearbook	Public Speaking I Public Speaking II Writing Center Peer Tutor College Competencies for the 21st Century A College Competencies for the 21st Century B
Honors English 10	English 11 Honors English 11 AP English Language and Composition Dual Enrollment College Composition 11	Debate I Debate II Journalism I Journalism II: Magazine Journalism II: Newspaper Journalism II: Yearbook	Public Speaking I Public Speaking II Writing Center Peer Tutor College Competencies for the 21st Century A College Competencies for the 21st Century B
English 11	English 12 Honors English 12 Dual Enrollment College Composition 12 AP English Literature and Composition	Debate I Debate II Journalism I Journalism II: Magazine Journalism II: Newspaper Journalism II: Yearbook	Public Speaking I Public Speaking II Writing Center Peer Tutor College Competencies for the 21st Century A College Competencies for the 21st Century B
Honors English 11	English 12 Honors English 12 Dual Enrollment College Composition 12 AP English Literature and Composition	Debate I Debate II Journalism I Journalism II: Magazine Journalism II: Newspaper Journalism II: Yearbook	Public Speaking I Public Speaking II Writing Center Peer Tutor College Competencies for the 21st Century A College Competencies for the 21st Century B
AP English Language and Composition (as an 11th Grader)	English 12 Honors English 12 Dual Enrollment College Composition 12 AP English Literature and Composition	Debate I Debate II Journalism I Journalism II: Magazine Journalism II: Newspaper Journalism II: Yearbook	Public Speaking I Public Speaking II Writing Center Peer Tutor College Competencies for the 21st Century A College Competencies for the 21st Century B
Dual Enrollment College Composition 11	English 12 Honors English 12 Dual Enrollment Survey of World Literature AP English Literature and Composition	Debate I Debate II Journalism I Journalism II: Magazine Journalism II: Newspaper Journalism II: Yearbook	Public Speaking I Public Speaking II Writing Center Peer Tutor College Competencies for the 21st Century A College Competencies for the 21st Century B

*Intervention/Literacy courses are not included

SAMPLE COURSE SEQUENCES – MATHEMATICS

The sample course sequence can be used as a guide to assist students in planning their course of study during their school career. When choosing course selections, students should take into consideration their Individualized Career and Academic Plan and the Secondary and Post-Secondary Career Cluster Pathway.

SAMPLE	GRADE 6	GRADE 7	GRADE 8	GRADE 9	GRADE 10	GRADE 11	GRADE 12
1	Math 6	Math 7	Algebra I	Geometry	Algebra, Functions and Data Analysis	Algebra II	Probability and Statistics
2	Math Honors 6	Math Honors 7	Algebra I	Geometry	Algebra II	Pre-Calculus	AP Calculus AB
3	Math Honors 6	Math Honors 7	Algebra I	Geometry	Algebra II	Probability and Statistics or Discrete Mathematics	AP Statistics
4	Math Honors 7 (Math 6 required)	Algebra I	Geometry (Algebra I required)	Algebra II	Pre-Calculus	AP Calculus AB	Dual Enrollment Calculus II
5	Math Honors 7 (Math 6 required)	Algebra I	Geometry (Algebra I required)	Algebra II	Pre-Calculus	AP Calculus BC	Dual Enrollment Calculus III & Differential Equations

SAMPLE COURSE SEQUENCES – SCIENCE

The sample course sequence can be used as a guide to assist students in planning their course of study during their school career. When choosing course selections, students should take into consideration their Individualized Career and Academic Plan and the Secondary and Post-Secondary Career Cluster Pathway.

MIDDLE SCHOOL

GRADE 6	GRADE 7	GRADE 8
General Science 6	Life Science 7	Physical Science 8
Honors General Science 6	Honors Life Science 7	Honors Physical Science 8

HIGH SCHOOL

SAMPLE	GRADE 9	GRADE 10	GRADE 11	GRADE 12
1	Biology I (Algebra I)	Biology II: Ecology (passed Bio but not SOL) (Algebra I, AFDA)	Earth Science I	Earth Science II: Oceanography Earth Science II: Astronomy Biology II: Anatomy Chemistry I Physics I
2	Biology I (Algebra I)	Earth Science I (Geometry, AFDA)	Chemistry I Physics I Earth Science II: Oceanography Earth Science II: Astronomy Biology II: Anatomy Biology II: Ecology	Physics I Earth Science II: Oceanography Earth Science II: Astronomy Biology II: Anatomy Biology II: Ecology AP Physics I AP Chemistry AP Biology AP Environmental
3	Biology I (Geometry)	Chemistry I (Algebra II)	Physics I Earth Science II: Oceanography Earth Science II: Astronomy Biology II: Anatomy	AP Environmental Earth Science II: Oceanography Earth Science II: Astronomy Biology II: Anatomy
4	Honors Biology STEM Biology (Geometry or above)	Honors Earth Science (Geometry, AFDA)	Honors Chemistry I AP Physics 1	AP Physics 1 AP Physics 2 AP Chemistry AP Biology AP Environmental
5	Honors Biology STEM Biology (Geometry or above)	Honors Chemistry AP Physics 1 (Algebra II, Pre-Calc)	AP Physics 1 AP Chemistry AP Biology AP Environmental	AP Physics II C AP Physics 2 AP Chemistry AP Biology AP Environmental
6	Environmental Science (IA)	Biology I (IA)	Honors Chemistry Earth Science I (IA) Chemistry I Physics I	Chemistry I Physics I Earth Sci II Oceanography/ Astronomy Biology II: Ecology/Anatomy AP Physics 1 AP Chemistry AP Biology AP Environmental

*PARENTHESIS INDICATE A PREREQUISITE

SAMPLE COURSE SEQUENCES – SOCIAL STUDIES

The sample course sequence can be used as a guide to assist students in planning their course of study during their school career. When choosing course selections, students should take into consideration their Individualized Career and Academic Plan and the Secondary and Post-Secondary Career Cluster Pathway.

MIDDLE SCHOOL

GRADE 6	GRADE 7	GRADE 8
U.S. History I	U.S. History II	Civics and Economics
U.S. History I Honors	US History II Honors	Civics and Economics Honors

HIGH SCHOOL

SAMPLE	GRADE 9	GRADE 10	GRADE 11	GRADE 12
1	World History and Geography Part I	World History and Geography Part II	Virginia and U.S. History	Virginia and U.S. Government
2	World History and Geography Part I	Honors World History and Geography Part II Social Justice (elective)	Honors Virginia and U.S. History	
3	World History and Geography Part I	Honors World History and Geography Part II Sociology (elective) Psychology (elective)	Honors Virginia and U.S. History Dual Enrollment College U.S. History AP Psychology (elective)	Virginia and U.S. Government Honors Virginia and U.S. Government - We the People AP United States Government and Politics
4	Honors World History and Geography Part I	Honors World History and Geography Part II Global Majority Studies (elective) AP Psychology (elective)	Honors Virginia and U.S. History Dual Enrollment College U.S. History AP United States History Social Justice (elective)	Honors Virginia and U.S. Government - We the People AP United States Government and Politics AP Comparative Government and Politics
5	AP Human Geography	AP World History: Modern	Honors Virginia and U.S. History Dual Enrollment College U.S. History AP United States History	AP United States Government and Politics AP Comparative Government and Politics Social Justice (elective)
6	AP Human Geography	AP World History: Modern	AP United States History AP European History	Honors Virginia and U.S. Government - We the People AP European History AP Psychology (elective)
7	World History and Geography Part I	Honors World History and Geography Part II	Honors Virginia and U.S. History Sociology (elective) Psychology (elective)	AP United States Government and Politics AP Macroeconomics & AP Microeconomics (elective)

SAMPLE COURSE SEQUENCES – WORLD LANGUAGES

OPTION 1: CONTINUOUS STUDY OF ONE LANGUAGE FROM GRADE 6-12

SAMPLE	GRADE 6	GRADE 7	GRADE 8	GRADE 9	GRADE 10	GRADE 11	GRADE 12
1	Chinese IA	Chinese IB	Chinese II	Chinese III	Chinese IV Honors	AP Chinese Language and Culture	Advanced Topics in Chinese
2	French IA	French IB	French II	French III	French IV Honors	AP French Lanugage and Culture	Advanced Topics in French
3	German IA	German IB	German II	German III	German IV Honors	AP German Language and Culture	Advanced Topics in German
4	Latin IA	Latin IB	Latin II	Latin III	Latin IV Honors	AP Latin	Advanced Topics in Latin
5	Spanish IA	Spanish IB	Spanish II	Spanish III	Spanish IV Honors	AP Spanish Language and Culture AP Spanish Literature and Culture	AP Spanish Language and Culture AP Spanish Literature and Culture
6	Spanish Dual A	Spanish Dual B	Spanish Dual C	Advanced Dual	Spanish Honors IV	AP Spanish Language and Culture AP Spanish Literature and Culture	AP Spanish Language and Culture AP Spanish Literature and Culture
7	Spanish for Heritage Speakers IA	Spanish for Heritage Speakers IB	Spanish for Heritage Speakers II	Spanish for Heritage Speakers III	AP Spanish Language and Culture AP Spanish Literature and Culture	AP Spanish Language and Culture AP Spanish Literature and Culture	

OPTION 2: ADVANCED DIPLOMA CHOICE A (THREE YEARS OF ONE LANGUAGE)

SAMPLE	GRADE 6	GRADE 7	GRADE 8	GRADE 9
1	Chinese IA	Chinese IB	Chinese II	Chinese III
2	French IA	French IB	French II	French III
3	German IA	German IB	German II	German III
4	Latin IA	Latin IB	Latin II	Latin III
5	Spanish IA	Spanish IB	Spanish II	Spanish III
6	Spanish Dual A	Spanish Dual B	Spanish Dual C	
7	Spanish for Heritage Speakers IA	Spanish for Heritage Speakers IB	Spanish for Heritage Speakers II	Spanish for Heritage Speakers III

SAMPLE	GRADE 8	GRADE 9	GRADE 10
1	French I	French II	French III
2	German I	German II	German III
3	Spanish I	Spanish II	Spanish III

SAMPLE COURSE SEQUENCES – WORLD LANGUAGES (CONTINUED)

SAMPLE	GRADE 9	GRADE 10	GRADE 11
1	Chinese I	Chinese II	Chinese III
2	French I	French II	French III
3	German I	German II	German III
4	Latin I	Latin II	Latin III
5	Spanish I	Spanish II	Spanish III
6	Spanish for Heritage Speakers I	Spanish for Heritage Speakers II	Spanish for Heritage Speakers III
7	Spanish for Heritage Speakers II	Spanish for Heritage Speakers III	AP Spanish Language and Culture AP Spanish Literature and Culture
8	Spanish for Heritage Speakers III	AP Spanish Language and Culture AP Spanish Literature and Culture	AP Spanish Language and Culture AP Spanish Literature and Culture

OPTION 2: ADVANCED DIPLOMA CHOICE B (TWO YEARS OF TWO LANGUAGES)

SAMPLE	GRADE 6	GRADE 7	GRADE 8	GRADE 9	GRADE 10
1	Chinese IA	Chinese IB	Chinese II	French I German I Latin I Spanish I Spanish for Heritage Speakers I or II	French II German II Latin II Spanish II Spanish for Heritage Speakers II or III
2	French IA	French IB	French II	Chinese I German I Latin I Spanish I Spanish for Heritage Speakers I or II	Chinese II German II Latin II Spanish II Spanish for Heritage Speakers II or III
3	German IA	German IB	German II	Chinese I French I Latin I Spanish I Spanish for Heritage Speakers I or II	Chinese II French II Latin II Spanish II Spanish for Heritage Speakers II or III
4	Latin IA	Latin IB	Latin II	Chinese I French I German I Spanish I Spanish for Heritage Speakers I or II	Chinese II French I German II Spanish II Spanish for Heritage Speakers II or III
5	Spanish IA	Spanish IB	Spanish II	Chinese I French I German I Latin I	Chinese II French I German II Latin II
6	Spanish Dual A	Spanish Dual B	French I	French II	
7	Spanish for Heritage Speakers IA	Spanish for Heritage Speakers IB	Spanish for Heritage Speakers II	Chinese I French I German I Latin I	Chinese II French II German II Latin II

SAMPLE	GRADE 8	GRADE 9	GRADE 10	GRADE 11
1	French I	French II	Chinese I German I Latin I Spanish I Spanish for Heritage Speakers I or II	Chinese II German II Latin II Spanish II Spanish for Heritage Speakers II or III
2	German I	German II	Chinese I French I Latin I Spanish I Spanish for Heritage Speakers I or II	Chinese II French II Latin II Spanish II Spanish for Heritage Speakers II or III
2	Spanish I	Spanish II	Chinese I French I German I Latin I	Chinese II French I German II Latin II

SAMPLE	GRADE 9	GRADE 10	GRADE 11	GRADE 12
1	Chinese I	Chinese II	French I German I Latin I Spanish I Spanish for Heritage Speakers I or II Spanish for Heritage Speakers III	French II German II Latin II Spanish II Spanish for Heritage Speakers II or III AP Spanish Language and Culture AP Spanish Literature and Culture
2	French I	French II	Chinese I German I Latin I Spanish I Spanish for Heritage Speakers I or II Spanish for Heritage Speakers III	Chinese II German II Latin II Spanish II Spanish for Heritage Speakers II or III AP Spanish Language and Culture AP Spanish Literature and Culture
3	German I	German II	Chinese I French I Latin I Spanish I Spanish for Heritage Speakers I or II Spanish for Heritage Speakers III	Chinese II French II Latin II Spanish II Spanish for Heritage Speakers II or III AP Spanish Language and Culture AP Spanish Literature and Culture
4	Latin I	Latin II	Chinese I French I German I Spanish I Spanish for Heritage Speakers I or II Spanish for Heritage Speakers III	Chinese II French I German II Spanish II Spanish for Heritage Speakers II or III AP Spanish Language and Culture AP Spanish Literature and Culture
5	Spanish I	Spanish II	Chinese I French I German I Latin I	Chinese II French I German II Latin II
6	Spanish for Heritage Speakers I or II Spanish for Heritage Speakers III	Spanish for Heritage Speakers II or III AP Spanish Language and Culture AP Spanish Literature and Culture	Chinese I French I German I Latin I	Chinese II French I German II Latin II

COURSE EXPECTATIONS

Core Standards of Learning (SOL) courses at the middle and high school levels have the following expectations:

- **English / Language Arts:** Students in English classes will investigate thematically organized literature that reflects a challenging range of historical classics and contemporary selections. In addition to demonstrating a high level of analytical and critical reading comprehension, students will write in a variety of genres, including informational/expository text, narration, and persuasion. A major focus in English is on students' acquisition and application of technical and academic vocabulary applied in written, spoken, and multi-media formats. Formal and informal oral communication focus areas will include seminars, debates, Reader's Theatre, and presentations. Throughout students' English experience, they will engage in a range of formal and informal research tasks and processes.
- **Mathematics:** Students in mathematics classes will be expected to acquire and apply the language of mathematics, using mathematical operations and processes in authentic, real-world scenarios, situations and performance tasks. They will also develop analytical and critical reasoning in their use of mathematics, including the ability to explain and support mathematical claims and assertions with data-based evidence. In mathematics classes, students will generate multiple methods and use a variety of strategies for solving problems, reflect upon and critique their own mathematical reasoning and that of others, and demonstrate and express their mathematical understanding through a range of modalities (including writing and visual representations).
- **Science:** Students in science classes will engage actively in the processes of hypothesis formulation and testing as well as scientific inquiry. A major focus of science is the laboratory and field experience, ensuring that students develop the habits of mind used by scientists as they investigate, analyze and draw inferences about the world. Students in science continually engage in the "5-Es learning cycle," including: (1) being Engaged in the content; (2) having multiple chances to Explore it through inquiry-based experiential learning tasks; (3) committed to Explaining

what they learned from their investigation; (4) Extending their learning to other situations, displaying growing levels of guided and independent transfer; and (5) engaged actively in Evaluating their own progress and learning.

- **Social Studies:** Students in social studies are required to demonstrate a high degree of reading comprehension and writing skills as they respond to a range of primary sources, research studies, and comparative text analysis. The social studies class emphasizes student's learning to think and reason within the academic disciplines being studied. For example, rather than memorizing historical facts in isolation, students become historians - examining, comparing, and drawing inferences about the meaning of writings, events and historical figures. Similarly, students will investigate key economic, cultural, political, and geographic themes, skills and concepts - learning how professionals in these disciplines construct knowledge and express insights about social phenomena. Perhaps most significantly, social studies students will analyze and explain themes and unifying concepts underlying the study of various era and individuals, reinforcing interconnections and patterns.

ADVANCED ACADEMIC PROGRAMS

ACPS offers several advanced academic programs to meet the needs of a diverse group of students. In grades 6-12, students have the opportunity to enroll in Honors courses and in grades 9-12, students can choose to enroll in college-level courses through the Advanced Placement (AP) and Dual Enrollment (DE) programs.

The purpose of the advanced academic programs is to extend the ACPS Program of Studies in terms of depth and complexity and to appropriately challenge advanced learners to achieve their highest academic potential:

- Each of the advanced-level programs is designed to provide a rigorous and engaging curriculum to motivated students.
- The courses are taught at an accelerated pace and offer enhanced content.
- Students will receive accelerated and enriched assignments and reading in these courses to support the application of material in the classroom.

- In addition, students are expected to learn independently with less directed instruction from teachers.

ACPS has an Equity and Excellence policy (ACPS policy IGBJ) for advanced academic programs, including students with disabilities and English language learners who seek increased academic rigor. Any student who is interested in taking a course should talk with his or her teacher, counselor and parent/legal guardian for advice. If students are ready to accept the challenge of more rigorous coursework, they should consult with their counselor when selecting classes.

HONORS PROGRAM

MIDDLE AND HIGH SCHOOL

Honors courses are advanced courses designed to provide a challenging curriculum to motivated students with strong interests in particular subject areas. The curriculum of an Honors course is accelerated in both pace and content, is rigorous and relevant, assumes a mastery of the basic skills related to the subject area and has the expectation of high-quality student work.

Students enrolled in one or more Honors courses should:

- Be highly motivated, independent learners
- Demonstrate intellectual curiosity and a willingness to accept higher levels of challenge
- Have a strong interest in the subject area
- Demonstrate the ability to link new knowledge to prior knowledge quickly
- Use the time management and task commitment skills to perform consistently at an advanced level

HONORS PROGRAM ENTRANCE EXPECTATIONS

Students and their parents/guardians should consider the rigor and academic demands of an Honors course experience. The following are suggested performance indicators that will help guide students' decision-making process.

Recommended Virginia Standards of Learning (SOLs)

Results:

The Virginia SOL tests represent a minimum standard of performance; therefore, other assessments and criteria should be considered as a predictor of Honors success. Students should have passed previous SOL tests in the required content area for which they are seeking Honors placement.

Recommended Course Grades:

- Students entering an Honors course should have above-average grades in previous classes in the Honors content area.
- For rising sixth graders, a recommended 3 or 4 in the Honors content area is advisable.
- For students in grades 7-12, an average grade of B or higher in the Honors content area is recommended.

Recommended Reading Levels:

- Reading comprehension is an essential component of success in any Honors class.
- Entering students should be reading at or above grade level.
- The complexity of Honors texts requires students be achieving at or above identified Lexile levels for each grade and each course within the Program of Studies (e.g., minimum 800 at sixth grade, 850 at seventh grade, 900 at eighth grade, etc.).
- Students and parents/guardians are also encouraged to refer to the expectations descriptions for each Honors course in the Program of Studies, including recommended Lexile levels of the texts used in the class, reading implications of additional in-class and out-of-class assignments and the following:
 - Lexile level of the texts used in the class
 - Accelerated and enriched assignments in class and at home
 - Major projects

Recommended Writing Competencies:

- All Honors classes require students to express themselves in a variety of written formats.
- Students' previous academic experiences should prepare them for writing in a variety of genres (informational/expository, narrative and persuasive).
- Students should be able to formulate a thesis statement and support it with text-based evidence.
- Additionally, students should be prepared to engage in research projects and investigations, expressing their conclusions in organized, coherent written formats.

HONORS COURSES

DEPARTMENT	MIDDLE SCHOOL COURSE	PAGE NUMBER
Language Arts	Language Arts Honors 6	58
Language Arts	Language Arts Honors 7	59
Language Arts	Language Arts Honors 8	59
Mathematics	Math Honors 6	60
Mathematics	Algebra I	61
Mathematics	Geometry	61
Science	Honors General Science 6	61
Science	Honors Life Science 7	62
Science	Honors Physical Science 8	62
Social Studies	U.S. History I Honors	62
Social Studies	U.S. History II Honors	62
Social Studies	Civics and Economics Honors	63
DEPARTMENT	HIGH SCHOOL COURSE	PAGE NUMBER
English	Honors English 9	82
English	Honors English 10	83
English	Honors English 11: Survey of American Literature	83
English	Honors English 12	83
Science	Honors Biology I	95
Science	Honors Chemistry I	
Science	Honors Earth Science I	97
Social Studies	Honors World History and Geography Part I	99
Social Studies	Honors World History and Geography Part II	99
Social Studies	Honors Virginia and U.S. History	99
Social Studies	Honors Virginia and U.S. Government — We the People	100
World Languages	Chinese IV Honors	103
World Languages	French IV Honors	104
World Languages	German IV Honors	105
World Languages	Latin IV Honors	106
World Languages	Spanish IV Honors	108

MIDDLE SCHOOL HONORS INTERVENTION SUPPORT PLAN

- Students who are enrolled in an Honors course but are having difficulty should receive academic and counseling support. A variety of challenges may confront Honors students, including:
 - Lack of background knowledge and skills essential for learning the course content
 - Difficulty keeping up with the instructional pace of an Honors class
 - Struggles with the complexity of course' content
 - Quality of time management, goal attainment, and self-regulation
 - Social-emotional issues related to maturity of the learner
- Once the teacher, parent/guardian, counselor, or student is aware of issues affecting the quality of student performance and work products, teacher or counselor conferences and interventions should be initiated. However, no later than the time of the interim report for any grading period, a plan must be initiated for any student who is not earning at least a “B” grade in the specific Honors class.
- When a student is experiencing difficulties in one or more classes within the Honors program (as evidenced by a grade of “C” or lower), a focused intervention plan will be initiated to support the student’s academic needs. The support plan should proceed in the following order, with each additional step taken only if the student continues to struggle:
 - Counselor, teacher, student and parent/guardian meet to discuss what additional supports are available. The student is encouraged to speak candidly about what is working and what is not working in terms of meeting the requirements of the course.
 - A support plan is developed, listing the following:
 - o Specific intervention steps and dates are identified for follow-up to monitor implementation of the support plan.
 - o The student, parent/guardian, and counselor sign the support plan.
 - o Intervention steps may include attending before, during, or after school tutoring, attending bi-weekly meetings with counselors to discuss student progress, enrolling in remediation classes or other supports.

- After all avenues of accommodation and support have been explored, the student, parent/guardian, and counselor should work together to consider if alternative placement for the student in the parallel standard course is the right decision developmentally for the student. If a consensus regarding placement cannot be reached, the school principal will make the final decision regarding the appropriate placement of the student no later than the interim grade report of the following grading period.

The following is a list of AP courses that are expected to be offered during the 2020-21 school year:

AP COURSES		
DEPARTMENT	T.C. WILLIAMS HIGH SCHOOL COURSE	PAGE NUMBER
English	AP English Language and Composition	83
English	AP English Literature and Composition	84
Fine and Performing Arts	AP Art History	87
Fine and Performing Arts	AP Music Theory	89
Fine and Performing Arts	AP Drawing	88
Fine and Performing Arts	AP 2-D Art and Design	87
Fine and Performing Arts	AP 3-D Art and Design	87
Mathematics	AP Calculus AB	94
Mathematics	AP Calculus BC	94
Mathematics	AP Computer Science A	94
Mathematics	AP Computer Science Principles	94
Mathematics	AP Statistics	94
Science	AP Biology	96
Science	AP Chemistry	96
Science	AP Environmental Science	97
Science	AP Physics 1	98
Science	AP Physics 2	98
Science	AP Physics C: Electricity and Magnetism; Mechanics	98
Science	AP Science Lab Seminar	98
Social Studies	AP Comparative Government and Politics	101
Social Studies	AP Macroeconomics	101
Social Studies	AP Microeconomics	101
Social Studies	AP European History	101
Social Studies	AP Psychology	102
Social Studies	AP United States Government and Politics	100
Social Studies	AP United States History	100
Social Studies	AP Human Geography	99
Social Studies	AP World History: Modern	101
World Languages	AP Chinese Language and Culture	103
World Languages	AP French Language and Culture	104
World Languages	AP German Language and Culture	106
World Languages	AP Latin	107
World Languages	AP Spanish Language and Culture	108
World Languages	AP Spanish Literature and Culture	108
AP Capstone	AP Seminar Year 1 (AP Research & AP Seminar)	102
AP Capstone	AP Research	102

ADVANCED PLACEMENT (AP)

The Advanced Placement (AP) program provides motivated high school students with the opportunity to take college-level courses while still in high school. Students who participate in the AP program gain college-level skills, and in many cases, also earn college credit. T.C. Williams High School offers 33 AP courses, each organized to be equivalent to a first-year college course. All teachers teaching AP courses have undergone professional development and must annually submit course syllabi for audit to The College Board. Students who enroll in AP courses must take the end-of-course AP examination to demonstrate their levels of understanding of college-level knowledge and skills. Examinations are administered in May of each year. AP exam fees are paid for by ACPS (if student chooses to be absent for an AP exam, the fee must be reimbursed to ACPS). Examinations are scored on a five-point scale set by the College Board: 5 = extremely well-qualified; 4 = well-qualified; 3 = qualified; 2 = possibly qualified; and 1 = no recommendations. AP scores are sent to students, their designated colleges and their high school in July. Colleges that participate in the AP Examinations Program determine full or partial credit for scores of three or better.

Although most students who take AP examinations are enrolled in corresponding AP courses, any highly motivated and academically gifted student may take an AP examination in the subject areas of his/her choice.

Students enrolled in AP Science courses must also enroll in the AP Science Lab Seminar. This 1.0 elective credit co-requisite course is aligned with each AP Science course.

Note: See policies IGBI and IKC. Policies can be read in their entirety on the ACPS website at: www.acps.k12.va.us/policy.

DUAL ENROLLMENT (DE)

Dual Enrollment is a program that allows high school students to earn college credit for courses they are taking in high school. The courses are taught by high school faculty who meet the credentials to teach college level courses. The teachers follow the college curriculum, use college approved textbooks, and work with a mentor, who is a fulltime college faculty member, to ensure they are delivering a college-level course. All students in dual enrollment courses must meet college and course specific admission requirements. Sophomores will be admitted to a dual enrollment pending college approval and must have a minimum of a 3.25 GPA.

In the spring of 2012, legislation (HB 1184) was passed that “Requires local school boards and community colleges to develop agreements allowing high school students to complete an associate’s degree or a one-year Uniform Certificate of General Studies from a community college concurrent with a high school diploma.”

In addition, The Uniform Certificate of General Studies (HB 441); clarifies that credits earned in academic subject area coursework as part of the Uniform Certificate of General Studies shall be transferable to a four-year public institution of higher education. Students interested in attending private

or colleges outside of Virginia should contact that college’s admission’s office regarding their dual enrollment policies.

Alexandria City Public Schools worked with Northern Virginia Community College (NOVA) to create both a one-year General Studies Certificate and identify possible Associate Degree programs students could pursue while in high school. The following chart identifies the course requirements for the General Studies Certificate and courses offered at TC Williams High School that students can take to meet these requirements. The certificate can be earned through a combination of Advanced Placement and Dual Enrollment courses, however, at least twenty-five percent (25%) of the credits must be earned via dual enrollment. All degree requirements must be met prior to high school graduation.

Students interested in pursuing an Associate Degree while in high school should work with their Counselor and NOVA to identify appropriate courses. Information about specific degree programs can be found online at www.nvcc.edu/curcatalog.

ACPS GENERAL STUDIES CERTIFICATE

The following articulates a pathway for a qualifying student within Alexandria City Public Schools to complete the Northern Virginia Community College General Studies Certificate. To be eligible for this certificate **at least twenty-five percent (25%), or nine (9), of the credits must be taken in dual enrollment courses.**

When choosing college courses it is wise to check transferability with the college you hope to attend.

NOVA Course	College Credits	High School Credit	Possible High School Courses
ENG 111 / 112 College Composition I & II <i>*Students can take in 11th or 12th grade</i>	6	1	<i>AP Courses with 3 or better on exam</i> AP Language & Composition = ENG 111 AP Literature & Composition = ENG 111 Dual Enrollment College Composition I & Dual Enrollment College Composition II ENG 111 / 112
MTH 151 / 152 Math for the Liberal Arts OR higher level math courses	3-8 depending on course	1	<i>AP Courses</i> AP Calculus AB = MTH 263, need 4 on exam AP Calculus BC = MTH 263-264, need 4 on exam AP Statistics = MTH 245 Dual Enrollment Calculus II = MTH 264 Dual Enrollment Calculus III = MTH 265 Dual Enrollment Calculus III & Differential Equations = MTH 267
2 Physical or Life Science with Lab I & II	8	1-2	<i>AP Courses with 3 or better on exam</i> AP Biology = BIO 101-102 AP Chemistry = CHM 111-112 AP Environmental Science = ENV 121-122 <i>*AP Physics courses are currently under review</i>
3 Social Science Classes approved by District	9	1.5 - 2 credits, students need at least two high school courses	<i>AP Courses with 3 or better on exam</i> AP European History = HIS 101-102 AP World History: Modern = HIS 111-112 AP Virginia & US Government = PLS 135-211 AP Comparative Government = PLS120 AP Economics, Macro = ECO 201 AP Economics, Micro = ECO 202 AP Psychology = PSY 201-202 Dual Enrollment U.S. History I & Dual Enrollment U.S. History II = HIS 121-122
2 Humanity Classes approved by District	6	1	<i>AP Courses with 3 or better on exam</i> AP Chinese = CHI 201-202 AP French V = FRE 201-202 AP German V = GER 201-202 AP Latin V = LAT 201-202 AP Music Theory = MUS 111-112 AP Spanish V = SPA 201-202 AP Spanish Literature V = SPA 233 + SPA elective OR SPA 271-272 AP Art History = ART 101-102 Dual Enrollment Survey of World Literature I & II = ENG 251-252
SDV 100 College Success Skills	1	0	No equivalent high school course. Would need to take through NOVA or at T.C. during Titan Time or other onsite offering.
	33-40		

DUAL ENROLLMENT PROCESS

In order to dual enroll in any course students must apply to NOVA and demonstrate college readiness in English and math. The Virginia Placement Test is offered at T.C. Williams in March and April during spring registration or students can go to any NOVA campus to take the test. Students who do not fully complete the registration process in the spring, including all testing and turning in their intent form, will not be enrolled for dual enrollment credit the following fall.

Additional information about the placement test and practice tests can be found online at www.nvcc.edu/testing. Students may choose to use scores from approved alternative assessments in lieu of taking the Virginia Placement Test, but must attach an official score report with their full name. Some DE classes may have specific requirements beyond the basic test scores listed below but are listed in the chart. Sophomores interested in dual enrollment courses are admitted pending college approval and must have a minimum of a 3.25 GPA.

APPROVED ALTERNATIVE ASSESSMENTS FOR GENERAL PLACEMENT

PSAT Scores	390 Evidence-Based Reading & Writing <i>*Cannot be used for placement into Dual Enrollment College Composition</i> 500 Evidence-Based Math
SAT Scores	480 Evidence-Based Reading & Writing 530 on Math
AP Scores	3 or better on AP English Language or Literature 3 or better on AP Calculus
ACT Scores	18 on each English, Reading & Writing 22 on Math
SOL Math Scores	Passing score on Algebra I or higher The English SOL is NOT an approved alternative

Once a student has applied to NOVA and has taken appropriate placement tests, they must complete a Dual Enrollment Intent Form that requires parental signature. All students in dual enrollment courses must meet college and course admission requirements and take the course for college credit. The following is a list of courses that are expected to be offered during the 2020-21 school year. Courses will only be offered if there is sufficient enrollment and NOVA reserves the right to cancel courses or change pre-requisites at any time if there are curriculum changes that impact the course.

2020-21 EXPECTED COURSE OFFERINGS AND TEST REQUIREMENTS

DEPARTMENT	T.C. WILLIAMS COURSE	NOVA COURSE	ENGLISH REQUIREMENT	MATH REQUIREMENT
Transfer Courses: The following courses are part of transfer degrees and all students enrolled in the course must take it for college credit. Sophomores must have a 3.25 GPA.				
English	Dual Enrollment College Composition (11 or 12)	ENG 111 & ENG 112, College Composition, 6 credits	English 111 on VPT English	Level I on VPT Math
English	<i>Dual Enrollment College World Literature</i>	<i>ENG 251 & 252, Survey of World Literature, 6 credits</i>	<i>Dual Enrollment College Composition 11</i>	<i>Level I on VPT Math</i>
Health and Medical	Dual Enrollment Medical Terminology	HIM 111 Medical Terminology	<i>Level III on VPT English</i>	<i>Level I on VPT Math</i>
Math	<i>Dual Enrollment Calculus II</i>	<i>MTH 264, Calculus II, 4 credits</i>	<i>Level III on VPT English</i>	<i>4 or higher on AP Calc AB</i>
Math	<i>Dual Enrollment Calculus III & Differential Equations</i>	<i>MTH 265, Calculus III, 4 Credits</i> <i>MTH 267, Differential Equations, 3 Credits</i>	<i>Level III on VPT English</i>	<i>4 or higher on AP Calc BC</i>
Social Studies	Dual Enrollment College US History	HIS 121-122, United States History, 6 credits	Level III on VPT English	Level I on VPT Math
Technology Education	Dual Enrollment Introduction to College Engineering	EGR 120, Introduction to Engineering, 2 credits	English 111	Place into Calculus I or 4 or higher on AP Calc AB or BC
Trade & Industry	Dual Enrollment Networking Hardware Operations I and II	ITN 257 - Cloud Computing: Infrastructure and Services, 3 credits	Level III on VPT English	Level I on VPT Math
Trade & Industry	Dual Enrollment Television and Media Production II	PHT 130, Video I, 3 credits PHT 131, Video II, 3 credits	Level III on VPT English	Level I on VPT Math
Non Transfer Courses: The following courses are not part of a transfer degree and students can choose to take the course for high school credit only.				
Business & Information Technology	Dual Enrollment AOF: Introduction to Business and International Finance	FIN 248, International Finance, 3 credits	Level I on VPT English	Level I on VPT Math
Family & Consumer Science	Dual Enrollment Advanced Early Childhood Education and Services II	CHD 120, Intro to ECE, 3 credits CHD 145, Teaching, Art, Music & Movement to Children, 3 credits	Level I on VPT English	Level I on VPT Math
Marketing	Dual Enrollment Entrepreneurship: Business Ownership and Management	BUS 116, Entrepreneurship, 3 credits	Level I on VPT English	Level I on VPT Math
Marketing	<i>Dual Enrollment Advanced Entrepreneurship</i>	<i>BUS 165, Small Business Management, 3 credits</i>	<i>Dual Enrollment Entrepreneurship Business Ownership and Management</i>	<i>Dual Enrollment Entrepreneurship Business Ownership and Management</i>
Trade & Industry	Dual Enrollment Automotive Technology II	AUT 100, Intro to Auto Shop Practice, 2 credits AUT 241 Automotive Electricity I, 4 credits AUT 265 Automotive Braking, 4 credits	Level I on VPT English	Level I on VPT Math
Trade & Industry	<i>Dual Enrollment Automotive Technology III</i>	<i>AUT 242 Automotive Electricity II, 4 credits</i> <i>AUT 266 Automotive Alignment, Suspension & Steering 4 credits</i>	<i>Dual Enrollment Automotive Technology II</i>	<i>Dual Enrollment Automotive Technology II</i>

*Courses in italics are advanced level courses and students should have taken the previous dual enrollment course or AP equivalent course.

GOVERNOR'S HEALTH SCIENCES ACADEMY DUAL ENROLLED COURSES OFFERED BY THE GEORGE WASHINGTON SCHOOL OF MEDICINE AND HEALTH SCIENCE

The following courses are offered in partnership with The George Washington School of Medicine and Health Science as part of the Governor's Health Sciences Academy. Students must be part of the academy to enroll. Opportunities for juniors to enter pathway sequences that have open seats is currently being discussed. The GWSMHS reserves the right to cancel courses or change pre-requisites at any time if there are curriculum changes that impact the course.

DEPARTMENT	T.C. WILLIAMS COURSE	GWU COURSE	GENERAL REQUIREMENTS
Health and Medical Sciences	Dual Enrollment Introduction to Health and Medical Sciences	HSCI 1101 Careers in Health Care, 1 credit HSCI 2111 Development of the Health Care Professions, 3 credits	Accepted to the Governor's Health Sciences Academy and completed the Summer Bridge College Preparatory Program.
Health and Medical Sciences	Dual Enrollment Medical Terminology with Anatomy and Physiology	HSCI 1102 Medical Terminology I, 3 credits HSCI 1103 Medical Terminology II, 3 credits	Health Academy student who completed Dual Enrollment Introduction to Health and Medical Sciences
Health and Medical Sciences	Dual Enrollment Sterile Processing	HSCI 1107: Introduction to Sterile Processing, 3 credits	Health Academy student who completed Dual Enrollment Medical Terminology with Anatomy and Physiology
Health and Medical Sciences	Dual Enrollment Nurse Aide I (2 credits)	HSCI 1110: Concepts of Pathophysiology and Health, 3 credits	Health Academy student who completed Dual Enrollment Medical Terminology with Anatomy and Physiology
Health and Medical Sciences	Dual Enrollment Medical Laboratory Technology I	MLS 1101: Introduction to Laboratory Sciences I, 4 credits	Health Academy student who completed Dual Enrollment Medical Terminology with Anatomy and Physiology
Health and Medical Sciences	Dual Enrollment Sports Medicine I & II	HFR 1105: Survey of Anatomy and Physiology for Health and Rehabilitation, 2 credits HFR 1107: Illness and Injury for Health and Rehabilitation, 2 credits	Health Academy student who completed Dual Enrollment Medical Terminology with Anatomy and Physiology
Health and Medical Sciences	Dual Enrollment Pharmacy Technician I	PHRG 1101: Introduction to Pharmacy Practice I, 3 credits	Health Academy student who completed Dual Enrollment Medical Terminology with Anatomy and Physiology
Health and Medical Sciences	Dual Enrollment Emergency Medical Technician I & II (2 credits)	EHS 1025: Introduction to Prehospital Care, 2 credits EHS 2131: History-Taking & Physical Exam, 2 credits	Health Academy student who completed Dual Enrollment Medical Terminology with Anatomy and Physiology
Health and Medical Sciences	Dual Enrollment Biotechnology Foundations in Health and Medical Sciences	HSCI 1106: Introduction to Biotechnology for Health Sciences, 3 credits	Health Academy student who completed Dual Enrollment Medical Terminology with Anatomy and Physiology

ADVANCED PLACEMENT AND DUAL ENROLLMENT COMPARISON

Students are able to earn college credit through Advanced Placement (AP) or Dual Enrollment (DE) courses. Both programs are designed to challenge students and provide an introduction to college-level work while in high school, but there are distinct differences between the programs, and students need to decide which option is best for them. The following chart compares some key characteristics of each program:

	ADVANCED PLACEMENT	DUAL ENROLLMENT
Credentialing Agency	College Board	The partner college/university
Required Teacher Credentials	Teachers must have completed AP training.	Teachers must have the same qualifications as any college/university faculty member and are considered “adjunct faculty.”
Curriculum Followed	College Board curriculum	College/university curriculum
Curriculum/Evaluation	Teachers must submit AP Curriculum Audit forms and syllabi for approval annually.	The college/university must approve book choice and the teacher’s syllabi. Each semester, the teacher is observed by a college mentor and is evaluated by the students in the class.
What types of courses are offered?	Generally, offerings include academic courses such as English, Math, Science and Social Studies, and a few electives such as World Languages, Computer Science, Psychology and Art History. Currently, there are 30 approved courses. The courses offered at T.C. Williams High School are listed in the Program of Studies.	Both academic and elective courses are available. Any course that is offered at the college/university could be offered to high school students. The courses offered at T.C. Williams High School are listed in the Program of Studies. Students can take courses at the college campus as well.
How do students enroll?	Open Enrollment; any student can enroll in the course.	Students must apply to the college/university and place at the required level on a college placement test or alternative exam. In general, students must be 16 years old and a high school junior. Waivers can be made for “exceptional” students.
Do students have to leave the school?	No, courses are offered at the high school.	No; the courses are taught at the high school. Students who want to take courses not offered at the high school would have to either take online courses or go to the campus.
Is the credit weighted?	Yes, 1 point.	Yes, 1 point.
How much does it cost?	Nothing; the course is free and the school district pays for the exam	The school division pays for courses offered at the high school. Students are responsible for the tuition for courses taken online or on campus.
How will dropping the course impact the student’s transcript?	When a student drops an AP course prior to the drop date, the course is dropped and is not reflected on the report card or transcript. For withdrawals after the drop date, a withdrawal pass (WP) or withdrawal fail (WF) for the course is reflected on the student’s transcript.	For the high school transcript, the DE policy mirrors the AP policy. For the college transcript, students need to be aware of earlier drop and withdrawal dates. If a student drops by the drop date, there is no record of the course on the college transcript. If the student withdraws by the withdrawal date, a W is listed on the transcript.
How do students earn college credit?	Credits are earned through scores on the end-of-year exam. Most colleges require a score of 4 or 5 on the exam to receive credit. The community college and some other colleges only require a 3 on the exam.	The students earn college grades based on the work they do during the course of the year. In general, the grade the student receives in high school is also what he or she receives on his or her college transcript. Students need to earn a grade of C or higher.
Do students need to take the AP exam?	Yes, students are required to take the course-related AP exam.	Students are strongly encouraged to take course-related AP exams.
Do students have a college transcript?	No	Yes
How do students transfer the credit to other colleges?	A request through the College Board to send official score reports to the college/university	A request through the college/university to have a transcript sent to the receiving college/university
Do colleges accept the credit?	More than 90 percent of U.S. colleges take some form of AP credit, however, the required score and the course equivalent varies by college. Students should refer to the college/university’s website to see what credit they award and the required score. Most competitive colleges require a 4 or 5.	Generally, DE courses follow the same transfer guidelines as courses taken on the college campus. Students need to earn a grade of C or higher.

STUDENT-EARNED INDUSTRY CREDENTIALS

The 2012 General Assembly passed, and the Governor signed into law, HB 1061 and SB 489, to strengthen postsecondary education and workplace readiness opportunities for all students. → The legislation says, in part:

“Beginning with first-time ninth grade students in the 2013-2014 school year, requirements for the standard diploma shall include a requirement to earn a career and technical education credential that has been approved by the Board, that could include, but not be limited to, the successful completion of an industry certification, a state licensure examination, a national occupational competency assessment, or the Virginia workplace readiness skills assessment.”

To meet this graduation requirement all students will have the opportunity to take the w/le Financial Literacy Certification in the Economics and Personal Finance course.

To earn an industry credential students must successfully complete the required CTE course and pass the related industry certification exam. Earning a certification provides industry recognized proof that the student has achieved a professional skill level in that area and is prepared for entry-level career-related responsibilities and/or post-secondary education.

Students who earn industry certifications in other CTE courses may be able to use the additional certification as their student selected verified credit. Students may also be eligible for the Career and Technical Education Seal and/or Advanced Math Seal on their high school diploma, if they meet all the requirements for these seals. Please see your Counselor for details.

The table below shows additional CTE Credentials students may be able to earn in other CTE courses.

CAREER & TECHNICAL EDUCATION COURSE	CERTIFICATION	CTE CREDIT	CTE SEAL	MATH SEAL
BUSINESS & INFORMATION TECHNOLOGY				
Advanced Computer Information Systems II	Microsoft Office Specialist (MOS)	•	•	
Computer Information Systems I	Microsoft Office Specialist (MOS)	•	•	
FAMILY AND CONSUMER SCIENCE				
Culinary Arts II	NOCTI: Cook II	•	•	
	National Restaurant Association: ServSafe	•	•	
Dual Enrollment Advanced Early Childhood Education and Services II	NOCTI: Early Childhood Education	•	•	
Dual Enrollment Teachers for Tomorrow	Para Pro	•	•	
HEALTH AND MEDICAL SCIENCE				
Nurse Aide I	Virginia Board of Nursing: Certified Nurse Aide	•	•	
MARKETING				
Advanced Marketing II	National Retail Federation: Customer Service	•	•	
Advanced Fashion Marketing II	National Retail Federation: Customer Service	•	•	
ROTC				
JROTC I-III	ASVAB	•	•	
TECHNOLOGY EDUCATION				
Electronics Systems II	NOCTI: Electronics Technology	•	•	
Engineering Analysis and Applications II (Robotics)	REC: Pre-Engineering or Robotics	•	•	
TRADE AND INDUSTRY				
Dual Enrollment Automotive Technology II	Automotive Service Exam (ASE)	•	•	
Dual Enrollment Automotive Technology III	Automotive Service Exam (ASE)	•	•	
Dual Enrollment Networking Hardware Operations I and II	NOCTI: Computer Networking	•	•	•
Cosmetology II	Virginia Board of Cosmetology: Cosmetology License	•	•	

2020-21 CAREER AND TECHNICAL EDUCATION (CTE) COURSES

T.C. WILLIAMS HIGH SCHOOL

Business and Information Technology

- Accounting I
- Advanced Accounting II
- Advanced Computer Information Systems II
- AOF Introduction to Financial Services
- AOF Economics and Personal Finance
- Dual Enrollment AOF Introduction to Business and International Finance
- Business Law
- Business Management
- **Computer Information Systems I
- Economics and Personal Finance
- Graphic Design and Multimedia I
- Advanced Graphic Design and Multimedia II

Family and Consumer Sciences

- **Child Development
- Culinary Arts II
- Dual Enrollment Advanced Early Childhood Education and Services II
- Introduction to Culinary Arts I
- Introduction to Early Childhood Education and Services I
- Dual Enrollment Teachers for Tomorrow

Health and Medical Sciences

- Introduction to Health and Medical Sciences
- Dual Enrollment Biotechnology Foundations in Health and Medical Sciences
- Dual Enrollment Emergency Medical Technician I & II
- Dual Enrollment Medical Laboratory Technology I
- Dual Enrollment Medical Terminology

- Dual Enrollment Medical Terminology with Anatomy and Physiology
- Nurse Aide I
- Dual Enrollment Nurse Aide I
- Nurse Aide II
- Dual Enrollment Pharmacy Technician I
- Dual Enrollment Sports Medicine I
- Dual Enrollment Sterile Processing
- Surgical Technologist I

JROTC

- **JROTC I
- JROTC II
- JROTC III
- JROTC IV

Marketing

- Advanced Fashion Marketing II
- Advanced Marketing II
- Dual Enrollment Advanced Entrepreneurship
- Dual Enrollment Entrepreneurship: Business Ownership and Management
- Education for Employment I
- Education for Employment II
- Fashion Marketing I
- Hospitality and Tourism Marketing
- **Introduction to Fashion Careers
- Marketing I
- Sports and Entertainment Management
- Sports and Entertainment Marketing

Technology Education

- Aerospace Technology I
- Aerospace Technology II
- Advanced Architectural Drawing and Design II
- Advanced Engineering Drawing and Design II

- Biotechnology and Forensics Foundations
- Electronics Systems I
- Electronics Systems II
- **Engineering Explorations I
- Engineering Analysis and Applications II (Robotics)
- Dual Enrollment Introduction to Engineering
- Sustainability and Renewable Technologies
- Technical Drawing and Design I

Trade and Industrial Education

- Automotive Technology I
- Dual Enrollment Automotive Technology II
- Dual Enrollment Automotive Technology III
- Commercial Photography I
- Commercial Photography II
- **Cybersecurity Fundamentals
- Dual Enrollment Networking Hardware Operations I and II
- Cosmetology I
- Cosmetology II
- Criminal Justice I
- Criminal Justice II
- **Television and Media Production I
- Dual Enrollment Television and Media Production II
- Television and Media Production III

***Freshman choices*

2020-21 CAREER AND TECHNICAL EDUCATION (CTE) COURSES

FRANCIS C. HAMMOND MIDDLE SCHOOL

and

GEORGE WASHINGTON MIDDLE SCHOOL

Business and Information Technology

Make It Your Business - 6th grade
Computer Solutions - 7th grade
Digital Technology Foundations - 8th grade

Family and Consumer Sciences

Family & Consumer Sciences I - 6th grade
Family & Consumer Sciences II - 7th grade
Family & Consumer Sciences III - 8th grade

Technology Education

Introduction to Technology - 6th grade
Inventions & Innovations - 7th grade
Technological Systems - 8th grade

PATRICK HENRY K-8 SCHOOL

Business and Information Technology

Make It Your Business - 6th grade
Computer Solutions - 7th grade
Digital Technology Foundations - 8th grade

JEFFERSON-HOUSTON PREK-8 IB SCHOOL

Technology Education

Introduction to Technology - 6th grade
Inventions & Innovations - 7th grade
Digital Technology Foundations - 8th grade

HIGH SCHOOL HONORS, ADVANCED PLACEMENT AND DUAL ENROLLMENT INTERVENTION SUPPORT PLAN

Students who are enrolled in an Advanced Placement (AP), Dual Enrollment (DE) or Honors course, but are having difficulty, should receive academic and counseling support. A variety of challenges may confront AP, DE and Honors students, including:

- Lack background knowledge and skills essential for learning the course content
- Difficulty keeping up with the instructional pace of an Honors class
- Struggles with the complexity of course content
- Quality of time management, goal attainment and self-regulation
- Social-emotional issues related to maturity of the learner.

Once the teacher, parent/guardian, counselor or student is aware of issues affecting the quality of student performance and work products, the teacher will meet with the student to establish an intervention plan. However, no later than the time of the 1st quarter interim, a plan must be initiated for any student who is earning less than a “C” in the specific AP, DE or Honors class.

At the end of the 1st quarter when a student continues to experience difficulties in one or more classes within the AP, DE or Honors program (as evidenced by a grade of “D” or lower):

- Counselor, teacher, student and parent/guardian meet to discuss what additional supports are available. The student is encouraged to speak candidly about what is working and what is not working to meet the requirements of the course.
- After all avenues of accommodation and support have been explored, the student, parent/guardian and counselor should work together to consider if alternative placement for the student in the parallel standard course is the right decision developmentally for the student or if the student should remain in the course with continued support.
- If a consensus regarding placement cannot be reached, the school principal will make the final decision regarding the appropriate placement of the student no later than the interim grade report of the following grading period.

ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID)

Pre-requisite: AVID enrollment prior to 11th grade year.

AVID is a 6th through 12th grade system to prepare students in the academic middle for four-year college eligibility. It has a proven track record in bringing out the best in students and in closing the achievement gap. The AVID program includes an elective course that earns one credit. The three main components of this course are academic instruction and college awareness, tutorial support and motivational activities including college visits. This course provides students with strategies to be successful in rigorous coursework and to be well prepared for post-secondary opportunities. It emphasizes organizational skills, intellectual risk-taking, critical thinking skills, strategic reading and writing, community involvement and the steps necessary to increase college access options and college success. AVID students are supported academically as they pursue AP, DE and other rigorous courses. Note: AVID includes an application and interview process for rising 6th through 9th grade, for placement the following year.

INTERNATIONAL ACADEMY

The International Academy offered at T.C. Williams High School and Francis C. Hammond Middle School, is at the forefront supporting the unique needs of immigrant English Learners as they accomplish the challenging task of graduating college-ready, while simultaneously learning English. Through the innovative use of strategic grouping, experiential learning, collaboration and language and content integration, students are provided the targeted supports and strategies required for their success. The dedicated International Academy team includes bilingual counselors, a bilingual social worker and a bilingual dean to ensure that students’ needs are holistically addressed. Additionally, the program offers targeted numeracy and literacy interventions, academic support classes and a variety of after-school programs to promote student engagement in all aspects of school life.

T.C. SATELLITE CAMPUS

In September 2012, ACPS launched a new innovative learning campus to help students fast-track their way to graduation. It is the first comprehensive, non-traditional satellite high school campus in Northern Virginia. The satellite campus delivers a 21st-century curriculum that is flexible in scheduling and student-centered in support. This opportunity prepares students to compete in the global marketplace, but with a

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down-to-earth approach that recognizes the challenges they may face in completing their education.

Some of the features of the T.C. Satellite Campus include:

- Flexible scheduling with a minimum of 20 hours of physical attendance each week
- Personalized learning environment that uses online and digital content to engage and enhance learning; an environment where data is consistently used to drive instruction
- A streamlined program targeted towards earning a high school diploma
- Small group setting (maximum capacity of 100 students)
- College and career counseling and life skills preparation
- Opportunity to also register for CTE courses held at the T.C. Williams High School main campus.

The T.C. Satellite Campus is open daily from 8 a.m. to 6 p.m. Monday through Friday and multiple Saturdays throughout the year as needed to support student success. Turn to the “Online and Satellite Campus Courses” section of this guide on page 110 to find courses options. To complete an application to enroll in the T.C. Satellite Campus, contact your school counselor or call the campus at 703-619-8400. Visit www.acps.k12.va.us/satellite for more details.

SCIENCE, TECHNOLOGY, ENGINEERING AND MATH (STEM) ACADEMY

The T.C. Williams STEM Academy is a school-within-a-school. This program is an appropriate option for any student who:

- Learns best by doing, rather than by more traditional instructional models;
- Benefits from inquiry-based learning;
- Is inquisitive and likes taking things apart to see how they work;
- Is interested in math and/or science and/or engineering and/or technology such as computer graphics or animation;
- Demonstrates creativity and inquisitiveness; and
- Will be a freshman in the 2020-21 school year.

The Academy starts with a team of students and teachers who create a learning community that is a collaborative, caring environment. Both students and teachers are learners in a real-world, problem-solving, project-based environment. Students in the Academy will participate in a STEM Explorations

course in which they will be immersed in the investigation of real-world engineering and technology problems and decisions affecting their local, state, national and global problems related to human sustainability. In addition, students will participate in core classes taught by a team of teachers and will focus on creating connections between the content areas and studied through then lens of STEM.

STUDENT REQUIREMENTS

Graduates of the T.C. STEM Academy complete the program by meeting the following benchmarks:

- Meet the requirements for an advanced high school diploma
- Earn one or more industry certifications
- Complete a rigorous STEM Pathway
- Earn at least nine transferable college credits as defined by the Early College Scholars program including dual enrollment and Advanced Placement
- Participate in cohort model in grade 9
- Follow course requirements and CTE STEM pathways in grades 9 through 12
- Complete the Senior STEM Seminar or Science Research class in grades 11 or 12. This class will include:
 - o apprenticeships, mentorships, job shadowing, internships, cooperative education
 - o project-based learning opportunities
 - o school, community or service learning experiences
 - o culminating research project with an electronic portfolio and final STEM reflection presentation.

ACADEMY GOALS

- To maximize opportunities in preparing students for targeted careers by breaking down barriers between traditional core academics and CTE, between high school and postsecondary education and training, and between education and the workplace.
- To raise student aspirations and attract more students to postsecondary education in preparation for technical careers.
- To provide well-trained workers to support the recruitment of new businesses and industries to the commonwealth and to meet the workforce needs of existing business and industry.

APPLICATION PROCEDURE

The 2020-21 STEM application will be released on February 24, 2020. The application includes a section for students to fill out which includes a paragraph of interest, as well as two recommendation forms that must be submitted by teachers or mentors. After the application due date, the STEM team will schedule interviews with students who have submitted a complete application with recommendations. Upon the conclusion of interviews, students will be notified of their status based on the information obtained from the application, recommendations, and interview.

CTE STEM PATHWAY OPTIONS AND COURSES

PATHWAY OPTIONS	YEAR I 9TH GRADE	YEAR II 10TH GRADE	YEAR III 11TH GRADE	YEAR IV 12TH GRADE
Engineering and Technology	Engineering Explorations I	Engineering Analysis and Applications II (Robotics)	Aerospace Technology I	Dual Enrollment Introduction to Engineering
Electronics Systems			Electronics Systems I	Electronics Systems II
Computer Systems Networking			Cybersecurity Fundamentals	CISCO Academy / Dual Enrollment Networking Hardware Operations I and II
Cybersecurity				
Cloud Computing		Sustainability and Renewable Technologies	Biotechnology and Forensics Foundations	
Sustainability/Biotechnology/Forensics		Technical Drawing and Design I	Advanced Engineering Drawing and Design II	Advanced Architectural Drawing and Design II
Architectural/Engineering Design				

RECOMMENDED STEM COURSE MAP WITH ADVANCED STUDIES DIPLOMA

SUBJECT	COURSES			
	9TH GRADE COHORT	10TH GRADE COHORT	11TH GRADE STUDENT CHOICE	12TH GRADE STUDENT CHOICE <i>*Available to seniors in 2020-21 school year.</i>
English Language Arts	Honors English 9	Honors English 10	Honors English 11: Survey of American Literature AP English Language and Composition Dual Enrollment College Composition 11	AP English Literature and Composition Dual Enrollment College Composition 12 Dual Enrollment Survey of World Literature
Mathematics	Algebra II / Geometry	Pre-Calculus Discrete Mathematics AP Statistics AP Computer Science AP Computer Science Principles Algebra II	AP Statistics AP Calculus AB AP Computer Science A AP Computer Science Principles Discrete Mathematics Pre-Calculus	AP Statistics AP Calculus BC AP Computer Science A AP Computer Science Principles Discrete Mathematics Dual Enrollment Calculus II
Science	Honors Biology I	Honors Chemistry I AP Physics 1	Physics I AP Biology AP Chemistry Honors Earth Science AP Environmental Science AP Physics 1	Physics I AP Biology AP Chemistry Honors Earth Science I AP Environmental Science AP Physics 1 AP Physics 2
Social Studies	Honors World History and Geography Part I AP Human Geography	Honors World History and Geography Part II AP World History: Modern	Honors Virginia and US History AP U.S. History Dual Enrollment U.S. History Grade 11	Honors Virginia and U.S. Government AP U.S. Government
CTE	CTE STEM Pathway Course: Engineering and Technology Electronics Systems Computer Systems Networking Sustainability / Biotechnology / Forensics Architectural / Engineering Design	CTE STEM Pathway Course: Engineering and Technology Electronics Systems Computer Systems Networking Sustainability / Biotechnology / Forensics Architectural / Engineering Design	CTE STEM Pathway Course: Engineering and Technology Electronics Systems Computer Systems Networking Sustainability / Biotechnology / Forensics Architectural / Engineering Design	CTE STEM Pathway Course: Engineering and Technology Electronics Systems Computer Systems Networking Sustainability / Biotechnology / Forensics Architectural / Engineering Design
Economics and Personal Finance			Economics and Personal Finance (This course can be taken either in grade 11 or 12) AP Economics and Personal Finance	Economics and Personal Finance (This course can be taken either in grade 11 or 12) AP Economics and Personal Finance
STEM Elective	(Advisory) STEM Explorations I		STEM Capstone or Science Research STEM Seminar or Science Research (one of these courses should be taken either in grade 11 or 12)	STEM Research: Independent Study including: a) apprenticeships, mentorships, job shadowing, internships, cooperative education b) project-based learning opportunities c) school, community, or service learning experiences d) culminating research project with an electronic portfolio and final STEM reflection presentation
Health and Physical Education	Health and Physical Education	Health and Physical Education		
World Language	Chinese I, II, III French I, II, III German I, II, III Latin I, II, III Spanish I, II, III	Chinese II, III, IV French II, III, IV German II, III, IV Latin II, III, IV Spanish II, III, IV	(Elective) Chinese III, IV, AP French III, IV, AP German III, IV, AP AP Latin III, IV, AP AP Spanish III, IV, AP	

GOVERNOR'S HEALTH SCIENCES ACADEMY AT T.C. WILLIAMS HIGH SCHOOL

The Governor's Health Sciences Academy at T.C. Williams High School is a school-within a school. The academy has been designed through a collaborative effort between Alexandria City Public Schools and The George Washington University. Through this collaboration, students will have the ability to receive up to 18 college credits from The GWU School of Medicine and Health Sciences. Students will have the opportunity to start a career pathway that leads to an Associate and/or Bachelor degree as well as earning career related industry certifications. Students who successfully complete an academy pathway meeting minimum credit and GPA requirements will be offered guaranteed admissions to the GWU School of Medicine and Health Sciences.

See the Academy web page at www.acps.k12.va.us/healthsciences.

ACADEMY GOALS:

- Provide expanded options for students' health science literacy and other critical knowledge, skills, and credentials that will prepare students for high-demand, high-wage, and high-skills health sciences careers in the Commonwealth of Virginia and will provide a comprehensive career readiness curriculum;
- Use hands-on collaborative learning and lab experiences to better prepare students for rapidly changing, technologically enhanced health science fields;
- Build on the strength of existing CTE program areas within the high school;
- Improve academic achievement of Academy students by increasing academic rigor and relevance within selected pathways;
- Increase completion of dual enrollment courses;
- Increase high school graduation rates; and reduce dropout rates;
- Increase enrollment and retention in postsecondary education;
- Reduce the proportion of student requiring remediation in college;
- Increase the number of industry certifications awarded to high school students; and
- Increase the number of graduates employed in high-wage, high-demand, high-skilled careers.

STUDENTS WILL:

- Gain a deeper understanding of the skills and knowledge incorporated in their health sciences fields of study;
- Benefit from specialized, project-based courses which develop critical-thinking, problem-solving, and decision-making skills;
- Acquire greater communication and collaborative skills;
- Develop workplace readiness skills;
- Receive opportunities to earn industry certifications preparing them to be more competitive in the workforce and when applying to advanced training schools or postsecondary institutions;
- Obtain meaningful hands-on experiences in their career pathway studies;
- Benefit from opportunities for internships, mentorships, clinical, and cooperative experiences, providing the student with an advantage when entering postsecondary education and/or the workplace; and
- Reduce post-secondary education costs and time for degree completion.

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CONTINUATION OF GOVERNOR'S HEALTH SCIENCES ACADEMY AT T.C. WILLIAMS HIGH SCHOOL

FRESHMAN APPLICATION PROCESS:

The first Academy class started in the Fall of 2018 with students in the class of 2022. The application will be available online in early February 2020 and will include three short essays, transcript, and three teacher or other recommendations. Applications will be due in late March or Early April 2020. After the applications have been received the academy team will review all applicants and make final decisions regarding admissions. Students will be notified by May 29 about their status. An academy orientation program will be offered in June and students will sign a commitment letter to complete the process.

Students selected for the Academy will be required to complete a 2-week Summer Bridge College Preparatory Program during the summer before they start the academy.

SOPHOMORE APPLICATION PROCESS:

During the first three years of the Academy students may apply to start the program during their sophomore year. The number of students selected will be determined by the number of available seats in the academy. A sophomore application will be available online in February 2020 and will include three short essays, transcript, three teacher or other recommendations. Applications will be due in April 2020. After the applications have been received the academy team will review them and identify the top candidates. These candidates will then be interviewed before a final decision is made. Students will be notified by May 29 about their status. An academy orientation program will be offered in June where students will sign a commitment letter to complete the process.

Students will be required to complete Dual Enrollment Introduction to Health and Medical Sciences during the summer. The course will be offered through a combination of face to face meetings and online assignments.

PROPOSED ACADEMY PATHWAYS:

All courses are offered for dual enrollment credit with the George Washington University School of Medicine and Health Sciences.

Academy Pathway	Year I 9th Grade	Year II 10th Grade	Year III 11th Grade	Year IV 12th Grade	Possible Degrees
Surgical	Dual Enrollment Introduction to Health and Medical Sciences *Students admitted to the program as rising sophomores complete this course the summer between grades 9-10	Dual Enrollment Medical Terminology with Anatomy and Physiology	Dual Enrollment Sterile Processing	Dual Enrollment Surgical Technologist II (3 credits)	Surgical Technology, A.A.S. Health Sciences, B.S.
Nursing			Dual Enrollment Nurse Aide I (2 credits)	Dual Enrollment Nurse Aide II (2 credits)	Nursing, A.A.S. Health Sciences, B.S.
Medical Laboratory Sciences			Dual Enrollment Medical Laboratory Technology I	Dual Enrollment Medical Laboratory Technology II	Medical Lab Tech, A.A.S. Medical Laboratory Sciences
Sports Medicine			Dual Enrollment Sports Medicine I	Dual Enrollment Sports Medicine II (2 credits)	Physical Therapy Health Sciences, B.S.
Pharmacy			Dual Enrollment Pharmacy Technician I	Dual Enrollment Pharmacy Technician II (2 credits)	Certificate of Pharmacy Tech Health Sciences, B.S.
Emergency Medical Services			Dual Enrollment Emergency Medical Technician I & II (2 credits)	Dual Enrollment Emergency Medical Technician III	Emergency Medical Services, A.A.S. Emergency Medical Services, B.S.
Biomedical Informatics			Dual Enrollment Biotechnology Foundations in Health and Medical Sciences	Dual Enrollment Health Informatics	Health Information Management, A.A.S. Medical Informatics, B.S.

SUMMER RESIDENTIAL GOVERNOR'S SCHOOL

The Virginia Governor's School Program is a state-sponsored summer residential program aimed at providing the state's most gifted students with highly challenging academic and artistic experiences. High school sophomores and juniors may apply to attend a summer residential program on a college campus for up to five weeks in visual performing arts; agriculture; humanities; mathematics, science and technology; world languages; life sciences and medicine; or mentorships in marine science or engineering.

The application process begins in October and is extremely competitive with high school sophomores and juniors from across the state vying for limited spaces in each program. Each Virginia school division is permitted a certain number of nominees based on school enrollment. For the Visual and Performing Arts program, T.C. Williams High School may nominate two students for visual arts, two for dance, two for instrumental music, two for vocal music and two for theatre. For the World Language Academies, T.C. Williams High School may nominate two per language including Japanese. T.C. may nominate up to seven students for the Academic program and up to four for the Agriculture program. If more than two students apply in an area, a selection committee for that subject area will meet to hold auditions (performing arts only), review applications and select the nominees. Once nominated, students then go through a selection process at the state level.

Teachers in specific subject areas generally recommend students for application to Visual Performing Arts and Academic Governor's Schools and Foreign Language Academies. Students may also apply by obtaining applications from the School Counseling Department.

The criteria for nomination to the Academic and Visual Performing Arts programs include:

- Participation in, or eligibility to participate in, the Talented and Gifted (TAG) program at T.C. Williams High School;
- Genuine interest in attending Governor's School, and the emotional maturity, stability and self-discipline to live away from home for an extended period;
- Recommendation by a teacher or other professional who is knowledgeable of the student's academic strength in the selected area;
- Application to only one Summer Residential Governor's program or foreign language academy per year;

- Attendance at only one Summer Residential Governor's program or foreign language academy during high school; and
- Eligibility for a free, public education in the Commonwealth of Virginia.

The criteria for nomination to the World Language academies include:

- Genuine interest in attending the Foreign Language Academies, and the emotional maturity, stability and self-discipline to live away from home for an extended period;
- Recommendation by a teacher or other professional who is knowledgeable of the student's academic strength in the selected area;
- Application to only one Summer Residential Governor's program or foreign language academy per year;
- Attendance at only one Summer Residential Governor's program or Foreign Language Academy during high school; and
- Eligibility for a free, public education in the Commonwealth of Virginia.

Additional criteria for students applying to the French, German and Spanish Academies include:

- Completion of at least level III of the language prior to the beginning of the academy
- Good proficiency using the language; and
- Willingness to use the target language for all social and academic interactions.

An additional criterion for students applying to the Latin Academy includes:

- Completion of at least level II of the language prior to the beginning of the academy.

An additional criterion for students applying to the Arabic, Chinese, Japanese and Russian Academies includes:

- Completion of at least level II of ANY language prior to the beginning of the academy, but are not required to have previously studied the academy languages. Students currently studying these languages are also encouraged to apply.

More information on the Governor's School program may be found at: http://www.doe.virginia.gov/instruction/governors_school_programs/index.shtml

NCAA CLEARINGHOUSE FOR COLLEGE-BOUND ATHLETES

Students who plan to participate as college freshmen in Division I or II athletic programs must register and be certified by the National Collegiate Athletic Association (NCAA) Initial Eligibility Clearinghouse. Students may register through the NCAA Eligibility website, www.eligibilitycenter.org. Students participating in the free/reduced lunch program are exempt from the registration fee.

NCAA eligibility requirements may change annually; therefore, future college athletes must regularly check the NCAA website for updates. Students should specifically review core course requirements, SAT/ACT requirements, recruiting rules and amateur status. There are specific GPA and SAT/ACT requirements for scholarships. For more information, see your counselor, the athletic department and www.ncaaclearinghouse.net.

DIPLOMA SEALS

Students meeting specific requirements for graduation and demonstrating exemplary performance may receive diploma seals for recognition. VDOE makes available to local school divisions the following seals:

Governor's Seal- Awarded to students who complete the requirements for an Advanced Studies Diploma with an average grade of "B" or better, and successfully complete college-level coursework that will earn the student at least nine transferable college credits in Advanced Placement (AP), or dual enrollment courses.

Board of Education Seal- Awarded to students who complete the requirements for a Standard Diploma or Advanced Studies Diploma with an average grade of "A" beginning with the ninth-grade class of 2006-2007 and beyond.

Board of Education's Career & Technical Education Seal - Awarded to students who:

- earn a Standard or Advanced Studies Diploma and complete a prescribed sequence of courses in a career and technical education concentration or specialization that they choose and maintain a "B" or better average in those courses

OR

- pass an examination or an occupational competency assessment in a career and technical education concentration or specialization that confers certification or occupational

competency credential from a recognized industry, trade or professional association

OR

- acquire a professional license in that career and technical education field from the Commonwealth of Virginia.

Board of Education's Seal of Advanced Mathematics and Technology – Awarded to students who earn a Standard or Advanced Studies Diploma and satisfy all of the mathematics requirements for the Advanced Studies Diploma (four units of credit including Algebra II; two verified units of credit) with a B average or better; and either:

- pass an examination in a career and technical education field that confers certification from a recognized industry, or trade or professional association;

OR

- acquire a professional license in a career and technical education field from the Commonwealth of Virginia;

OR

- pass an examination approved by the board that confers college-level credit in a technology or computer science area.

This seal is available to students who entered 9th grade in 2017-18 and prior.

Board of Education's Seal for Science, Technology, Engineering and Mathematics (STEM) – Awarded to

students who earn a Standard or Advanced Studies diploma and:

- satisfy all Math and Science requirements for the Advanced Studies diploma with a "B" average or better in all course work

AND

- successfully complete a 50 hour or more work-based learning opportunity in a STEM area

AND

- satisfy all requirements for a Career and Technical Education concentration. A *concentration* is a coherent sequence of two or more state-approved CTE courses

AND

- pass one of the following: a Board of Education CTE STEM-H credential examination, or an examination approved by the Board that confers a college-level credit in a STEM field.

Board of Education's Excellence in Civics Education Seal

– Awarded to students who meet each of the following four criteria:

- Satisfy the requirement to earn a Modified Standard Diploma, a Standard Diploma or an Advanced Studies Diploma,

- Complete Virginia & United States History and Government courses with a grade of “B” or higher,
- Complete 50 hours of voluntary participation in community service or extracurricular activities, such as volunteering for a charitable or religious organization that provides services to the poor, sick or less fortunate; participating in Boy Scouts, Girl Scouts or similar youth organizations; participating in Junior Reserve Officer Training Corps (JROTC); participating in political campaigns, government internships, Boys State, Girls State or Model General Assembly; and participating in school-sponsored extracurricular activities that have a civics focus. Any student who enlists in the United States military prior to graduation will be deemed to have met this community service requirement,
- Have good attendance and no disciplinary infractions as determined by local school board policies.

Board of Education's Seal of Biliteracy - Graduating high school students who achieve a high level of proficiency in English and in one or more languages other than English receive the Seal of Biliteracy. To attain this seal, the Virginia Board of Education requires students to meet the following criteria:

- Earn a Board of Education-approved diploma
- AND
- pass all required and End-of Course Assessments in in English reading and writing at the proficient or higher level
- AND
- be proficient at the intermediate mid-level or higher in one or more languages other than English, as demonstrated through an approved assessment.

POLICY IKC - GRADING

Alexandria City Public Schools (ACPS) requires that the evaluation of student progress is the responsibility of the professional staff. Grades should function:

1. As an evaluation tool for articulating the level of academic achievement of students in relationship to identified standards in ACPS curricula;
2. To communicate academic progress of students;
3. As a factor in promotion and retention; and
4. To inform the instructional planning of staff.

Adopted: January 9, 1997
 Amended: July 1, 2005
 Amended: June 1, 2006
 Amended: June 23, 2016

Cross Ref.: IKC-R Regulations Governing the Grading Policy
 IKE Academic Promotion and Retention
 IKE-R Regulations for Academic Promotion and Retention

REGULATIONS GOVERNING THE GRADING POLICY

I. INTRODUCTION

ACPS believes that the evaluation of students is the primary responsibility of the professional staff. Grades are a tool for communicating the level of academic achievement in relation to identified standards. These regulations aim to systematize grading and assessment practices across the school division. Grades serve as a means of establishing clear learning targets and provide students with feedback regarding their academic performance.

In accordance with Policy IKC the following regulations should guide and inform the evaluation of student progress as reflected in the grading process.

II. ELEMENTARY AND SECONDARY GRADING AND REPORT CARD FORMATS

The ACPS Kindergarten Progress Report is organized using a scoring rubric. The rubric reflects the student's progress toward mastering the specific skills taught during the kindergarten year.

ACPS uses a modified standards-based progress report for students in grades one through five. Its purpose is to provide parents and guardians meaningful feedback about how their child is doing in relationship to grade-level standards, including their child's progress over time. Aligned with the Virginia Standards of Learning and the ACPS Curriculum, the ACPS Elementary Progress Report provides parents and teachers with detailed information on the expected knowledge, skills and performance measures for students at each grade level and how individual children perform against those expectations.

Aligned with the Virginia Standards of Learning and the ACPS Curriculum, the Secondary Report Card provides parents/guardians with a letter grade detailing student performance for each quarter.

A. At the Kindergarten level, teachers shall give narrative feedback about students' standards-based progress within each identified area of the Kindergarten Progress Report. The range of performance indicators and the level of proficiency kindergarten students are expected to attain utilize the following scoring criteria:

Academic Areas Scoring Rubric

M	Meets the standard consistently and over time
P	Progressing toward meeting the standard
B	Beginning to demonstrate progress toward meeting the standard
N	Not demonstrating understanding of the standard
INA	Standard has been introduced but not assessed

B. On Elementary Progress Reports, (grades 1-5), teachers shall give rubric-based scores reflecting students' standards-based proficiency. Content areas assessed include Life, Work and Citizenship Skills, Language Arts, Social Studies, Mathematics, Science, Physical Education and Health, Art, General Music, and Band/Strings.

Academic Areas Scoring Rubric

4	Consistently demonstrates a high level of conceptual understanding and skills mastery of standards taught this quarter
3	Frequently demonstrates concepts and skills of standards taught this quarter
2	Sometimes demonstrates concepts and skills of standards taught this quarter
1	Seldom demonstrates concepts and skills of standards taught this quarter
NT	Not taught this quarter
NA	Introduced but not assessed this quarter

C. Teachers shall give letter grades on secondary-level (grades 6-12) report cards.

Secondary Grading: Final Grade Calculation

- All secondary final course grades will be calculated as the average of the numeric average earned each term.
 - Secondary Courses not Receiving High School Credit
(Q1 avg + Q2 avg + Q3 avg + Q4 avg)/4
 - High School Credit Courses
(Q1 avg + Q2 avg + Q3 avg + Q4 avg + Final Exam avg)/5
- The quarter average assigned to an F and factored into the final grade calculation will not go below a 50.

MIDDLE SCHOOL COURSE GRADING SCALE

(SECONDARY COURSES [6-12] NOT
RECEIVING HIGH SCHOOL CREDIT
GRADING SCALE)

QUARTER AVERAGE	LETTER GRADE
93-100	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
60-66	D
50-59	F
	I
	NR
	P
	WP
	WF

See page 49 for the High School Credit Course Grading Scale.

III. FREQUENCY OF GRADING

- A. The official reporting of grades shall be on a nine-week basis either through the Elementary Progress Report or the Secondary Report Card.
- Elementary: Using a combination of diagnostic and formative assessment feedback data and summative evaluation based upon standards-based tasks and assignments, students should earn at least nine grades in a nine-week period.
 - Secondary: Using a combination of formative assessment feedback data and summative evaluation tasks and assignments, students should earn at least nine grades in a nine-week period.
 - For students with disabilities who have an Individual Education Plan (IEP), the student's progress toward meeting the IEP goals and applicable objectives will be updated quarterly.
 - Grades for assignments should align with the sequence of

curriculum implementation and students' progress toward standards mastery, ensuring that those grades provide meaningful, valid, and reliable feedback to students, parents, and guardians as part of the progress-monitoring process.

IV. USE OF MULTIPLE MEASURES TO DETERMINE STUDENTS' GRADES

- Students will earn grades in alignment with the curriculum standards they are learning and meeting the evaluation criteria for which they are responsible.
- Grades shall reflect a student's progress in meeting the objectives of a course/curriculum through a variety of evaluative measures and accommodate different learning styles, such as but not limited to: text assignments (both oral and written), special assignments, research, tests/quizzes, out-of-class assignments, portfolios, essays, dramatizations, performance-assessment tasks, projects, and related student work products. Additionally, teachers may consider collaboration and participation as criteria when grading.

V. OBJECTIVITY OF THE GRADING PROCESS

- A grade should be precise, clear, and accurately reflect student learning.
- Teachers shall avoid any evidence of subjectivity or bias in determining grades.
- Grades shall reflect student achievement, student mastery of content, and not student behavior. Teachers shall not use grades to impose personal bias, to reward or discipline students.
- Grading criteria and processes should reflect Policy IFA: Assessment and Evaluation and its related regulations regarding the purpose of assessment and the need for a balanced approach to assessment.

VI. USE OF TRANSFER GRADES

Alexandria City Public Schools shall accept transfer grades provided that the courses taken by the student are compatible with local and state regulations.

VII. CALCULATING HIGH SCHOOL CLASS RANK AND GRADE-POINT AVERAGES

- A. During spring orientation or other scheduling-related sessions, ACPS staff shall advise parents/guardians and students entering the ninth grade and any middle school student taking a credit-bearing course for which credit shall be received, of the method used to calculate class rank and grade-point averages.
- B. Grades used to determine class rank shall be the final grades for any course.
- C. ACPS shall not include students with disabilities in self-contained programs that deliver the Aligned Standards of Learning curriculum in class rank.
- D. Beginning with students entering 9th grade in school year 2016-2017, students will be provided with a percentile rating on their transcript reflecting their GPA in relation to the graduating class.

VIII. SYLLABUS AND COURSE OUTLINE REQUIREMENTS

- A. In accordance with IFA-R: Regulations Governing the Assessment and Evaluation Policy, elementary school students shall receive an outline of each content area they will be studying at the beginning of the academic year or upon enrollment. This outline should include the grading criteria for each content area as well as a description of student responsibilities and content sequence.
- B. At the beginning of the academic year, secondary school students shall receive a formal syllabus for each course they are taking. This syllabus should be consistent with IFA-R: Regulations Governing the Assessment and Evaluation Policy and should include course expectations, grading criteria (on a quarterly basis), and a course sequence outline.

IX. WEIGHTED GRADES

- A. Designated Advanced Placement, Honors and college-level dual-enrollment courses receive weighted grades.

X. ASSIGNMENT OF GRADES AND MAINTENANCE OF ACCURATE RECORDS

- A. Teachers shall maintain accurate records that reveal how they determine each student's grades.
- B. Elementary teachers shall regularly update such records. Secondary teachers shall update such records at least every two weeks, including posting of grades on designated ACPS electronic platforms (e.g., PowerSchool).
- C. Although teachers assign student grades, principals have the final authority to amend grades with teacher consultation.
- D. Students and parents or guardians should be able to access information about the student's progress and related grades throughout the quarter and academic year.

Established: December 15, 2014
 Revised: June 23, 2016

Cross Refs.:	IKC	Grading
	IFA	Assessment and Evaluation
	IFA-R	Regulations Governing the Assessment and Evaluation Policy
	IGBI	Advanced Placement and Dual Enrollment Classes

HIGH SCHOOL CREDIT COURSE GRADING SCALE

Quarter Average	Letter Grade	Credit Awarded			Quality Point Applied to Cumulative High School Credit GPA		
		Receives Credit	Include in Cumulative High School Credit GPA	AP/DE/Honors Quality Point Weight Applied	Advanced Placement/Dual Enrollment Course Quality Point	Honors Course Quality Point	Standard Quality Point
93-100	A	Y	Y	Y	5.0	4.5	4.0
90-92	A-	Y	Y	Y	4.7	4.2	3.7
87-89	B+	Y	Y	Y	4.3	3.8	3.3
83-86	B	Y	Y	Y	4.0	3.5	3.0
80-82	B-	Y	Y	Y	3.7	3.2	2.7
77-79	C+	Y	Y	Y	3.3	2.8	2.3
73-76	C	Y	Y	Y	3.0	2.5	2.0
70-72	C-	Y	Y	N	1.7	1.7	1.7
67-69	D+	Y	Y	N	1.3	1.3	1.3
60-66	D	Y	Y	N	1.0	1.0	1.0
50-59	F	N	Y	N	0.0	0.0	0.0
	I	N	N	N			
	NR	N	N	N			
	P	N	N	N			
	WP	N	N	N			
	WF	N	N	N			

I	Incomplete	In accordance with Policy IFA an (I) may be assigned as a student's quarter average. These must be converted to an appropriate quarter grade prior to final grade calculation unless given for a medical or compelling reason with administrative approval.
NR	Not Required	If a student is not required to have a class average for a particular quarter (due to transfer or other circumstances) an NR may be awarded. This factors in as a null into the final course average.
P	Pass	Given for classes graded on a Pass/Fail scale. Secondary support classes/intervention programs and Driver's Education will be graded on a Pass/Fail scale.
WF	Withdraw Failing	Given when a student withdraws from a class with a current grade of F.
WP	Withdraw Passing	Given when a student withdraws from a class with a passing grade.

SEQUENTIAL ELECTIVE REQUIREMENTS

Students working towards a standard diploma, or students who entered 9th grade in 2018-19 and beyond working towards an advanced studies diploma, must take two electives that are sequential (coursework that builds similar skills, as defined by the Virginia Department of Education). A course may satisfy the Fine Arts or CTE course requirement and still meet the requirement for sequential electives. Example: Art I followed by Art II counts as a sequential elective and also meets the Fine Arts and CTE course requirement(s).

STANDARDS OF LEARNING, END-OF-COURSE TESTS AND VERIFIED CREDIT

The Virginia State Board of Education has established a set of K-12 subject-area Standards of Learning (SOL) with corresponding and end-of-course SOL tests. These SOLs are incorporated into the ACPS Essential Learning for each course. All middle school students shall take all applicable SOL tests following course instruction. Each high school student shall take all applicable SOL or approved substitute tests following course instruction that are needed to earn verified credit and/or that are required for federal accountability.

Remediation opportunities (before school, after school, during school and in summer school) will be provided in certain subject areas for students failing one or more SOL tests. Students and parents/legal guardians should check with their school counselors regarding participation in these programs.

A student who passes a course and achieves a passing score on the corresponding SOL test is awarded a Verified Credit in that course. A Verified Credit is defined as 140 clock hours of instruction, successful completion of the course requirements and the achievement of a passing score on the SOL test for that course or on a Substitute Assessment. (See “Substitute Assessments” in this section.)

The State Board has established the number of Standard Credits and Verified Credits required for the Standard Diploma and for the Advanced Studies Diploma. (See “Graduation Requirements” beginning on page 6).

LOCALLY AWARDED VERIFIED CREDITS

Students are eligible to earn locally awarded verified credits (LAVC) in English, Math, Science and History/Social Science. To be eligible to earn LAVC, a student must:

- Pass the high school course and not pass the related SOL test,
- Take the SOL test at least twice,
- Score within a 375-399 scale score range on at least one of the administrations of the SOL test and
- Demonstrate achievement in the academic content through an appeal process.

Please note:

- For students entering 9th grade in 2017-18 and prior, up to three LAVC may be applied towards graduation for the Standard Diploma only.
- For students entering 9th grade in 2018-19 and beyond, only one LAVC may be applied towards graduation for either the Standard or Advanced Studies Diploma.
- Students with disabilities found eligible for the use of credit accommodations may use LAVC to meet as many of the verified credit requirements of the Standard Diploma as needed as determined by the IEP team or 504 knowledgeable committee.

Appeal Process: A local review panel, appointed by the Alexandria City School Board, will review information that provides evidence of the student’s achievement of adequate knowledge of the SOL content. That information may include, but is not limited to, results of classroom assignments, division- wide exams, course grades and additional academic assignments (such as papers, projects, essays or written questions). Based on the evidence presented, the local review panel may award the LAVC, deny the LAVC, require participation in a remedial program and retesting, or make additional academic assignments prior to determining whether to award the LAVC.

SUBSTITUTE ASSESSMENT (FOR SOL TESTS)

As of October 13, 2000, the options for end-of-course tests to earn units of Verified Credit have been expanded. Students should keep in mind that the following information pertains to "Graduation Requirements" beginning on page 6. They should carefully read these topics before choosing substitute tests.

Assessments that substitute for SOL tests and enable students to earn Verified Credit must meet the following minimum criteria:

1. The substitute test must be standardized and graded

- independently of the school or school division in which the test is given.
- The substitute test must be knowledge-based.
 - The substitute test must be administered on a multi-state or international basis.
 - The substitute test must measure content that incorporates or exceeds the SOL content in the course for which Verified Credit is given.
 - The grade or cut score will be pre-determined for approved substitute tests.

The State Board of Education has approved various tests that may substitute for certain SOL tests. See details at: www.doe.virginia.gov/testing/substitute_tests/. Click the Substitute Assessment link to see current listings and minimum acceptable scores. Please see your counselor for more information.

VERIFIED CREDITS IN CAREER AND TECHNICAL EDUCATION (CTE)

Student-Selected Verified Credit

A student-selected Verified Credit can be earned in certain elective courses that include a test approved by the Virginia Board of Education. According to the Standards of Accreditation, a student may utilize additional tests for earning Verified Credit in Computer Science, Technology or other areas as prescribed by the Board.

The Board of Education has provided guidelines for awarding differentiated numbers of Verified Credit for CTE Certification and licensure examinations. The following guidelines shall be retroactive to students who first entered the 9th grade in 2000- 01. Verified credits earned in CTE may be used to satisfy student-selected Verified Credit requirements for the **Standard Diploma** or the **Advanced Studies Diploma**. Your counselor will assist you in determining your Verified Credit status.

Criteria for Awarding Student-Selected Verified Credit

Student-selected Verified Credit will be awarded for certification or licensure examinations that meet all of the following criteria:

- Industry certification or licensure examinations that are approved to satisfy the requirements for the Board of Education's CTE Seal and the Board of Education's Seal of Advanced Mathematics and Technology will satisfy requirements for student-selected Verified Credits

- The teacher and/or the CTE program must be certified by the issuing organization relative to the industry certification or license

- A standard credit may not be verified more than once. One student-selected Verified Credit will be awarded for passing each certification or licensure examination that meets all of the above criteria, and the student earns one standard unit of credit only in the CTE concentration or specialization.

COURSES THAT INCLUDE SOL TESTS

COURSE	PAGE NUMBER
English 11: Survey of American Literature	83
Honors English 11: Survey of American Literature	83
AP English Language and Composition	83
Dual Enrollment College Composition 11	84
Algebra I	93
Geometry	93
Algebra II	93
Biology I	95
Honors Biology I	95
Chemistry I	96
Honors Chemistry I	96
Earth Science I	97
Honors Earth Science I	97
World History and Geography Part I	99
Honors World History and Geography Part I	99
World History and Geography Part II	99
Honors World History and Geography Part II	99
AP World History: Modern	101
Virginia and U.S. History	99
Honors Virginia and U.S. History	99
AP United States History	100
Dual Enrollment College U.S. History	100

EARNING SCIENCE OR HISTORY/SOCIAL SCIENCE VERIFIED CREDIT IN CTE

Up to two Verified Credits will be awarded for passing each certification or licensure examination that meets all of the above criteria; and:

- The student meets program completion criteria listed in this course catalog; and
- The student earns at least two standard units of credit in the CTE program completion option.
- The student is working towards a Standard Diploma.

One student-selected Verified Credit will be awarded for students who entered 9th grade in 2017-18 and prior, and one Science or History/Social Science Verified Credit will be awarded for students regardless of year of 9th grade entry.

WORLD LANGUAGE CREDIT BY EXAM

Students in grades six through 12 with the ability to comprehend and communicate in languages other than English now have the opportunity to earn up to three high school credits for world languages. Assessments are available in over 100 languages, including American Sign Language. The World Language Credit by Exam is offered one time per year in the fall. For more information please visit the Alexandria City Public Schools website at www.acps.k12.va.us/worldlanguagecredit.

SPECIALIZED INSTRUCTION

The Office of Specialized Instruction encourages a collaborative relationship with parents/legal guardians, teachers, administrators and other staff members to support the academic, emotional and physical success of students with disabilities through a team concept focusing on the belief that all children can learn and achieve at high levels. This includes Honors and college level (AP and DE) classes. Specialized Instruction services provide support to students with varying disabilities. In order to meet the needs of all students with disabilities, a continuum of Specialized Instruction services is provided to students as required by the Individuals with Disabilities Education Act (IDEA 2004). These services are primarily delivered in the general education classroom. Based on the individual needs of the student, specially designed instruction may be necessary through the delivery of services in a resource room or a special education classroom for part or

all of the instructional day.

A transition plan plays a significant role as we prepare our students for post-secondary success. Beginning at age 14, a transition plan is developed as part of the student's Individualized Education Plan (IEP). The focus areas of the plan include independent living, post-secondary education, post-secondary training and employment. This plan, in conjunction with the course of study, leads students to positive outcomes for life after high school.

The course of study for students with disabilities can take a variety of paths dependent upon student goals and interests. Students with disabilities have an opportunity to receive Specialized Instruction services at the high school up to age 22. Most students receiving Specialized Instruction services obtain standard 01; advanced studies high school diplomas. Other diploma options available to students with disabilities are an applied studies diploma. All decisions pertaining to a student's diploma. All decisions pertaining to a student's diploma status are taken under consideration by the IEP team, which includes the student, parents/legal guardians and the school team.

CREDIT ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

A student who has an IEP or 504 plan with standards-based content goals is eligible for the consideration of credit accommodation. Informed written consent of the parent/legal guardian and the student to choose credit accommodations after a review of the student's academic record and full disclosure of the student's options is required.

IEPs and 504 plans must specify which credit accommodations are allowed and under what circumstances. A student must have a disability that precludes him or her from meeting grade-level expectations on grade-level content. The student must need significant instructional supports, and based on multiple measure of past performance, might not be able to achieve the required units of credits within the standard time frame.

Credit accommodations provide alternatives for students with disabilities in earning the standard and Verified Credits required to graduate with a Standard Diploma. Credit accommodations for students with disabilities or 504 plans may include the use of alternative courses, expanded use of locally awarded verified credits to include special permission locally awarded verified credits, and additional test options as

approved by the local board of education.

APPLYING FOR COLLEGE BOARD SPECIAL ACCOMMODATIONS

A student with a documented disability may be eligible for accommodations on College Board tests (SAT, AP or PSAT/NMSQT). Most students seeking accommodations on College Board tests work with their school officials to ensure that the disability documentation required by the College Board eligibility guidelines is complete and substantiates the need for the accommodations being requested. Every student requesting accommodations must submit a Student Eligibility Form. It requests detailed information relating to the student's name, address, disability, past testing and accommodations received at school.

Although students and parents/legal guardians can submit a request for accommodations without the involvement of the school, in most cases students will work with their school to submit a request for accommodations. The student/parent/legal guardian completes Section I of the Eligibility Form. The school test coordinator should ensure that the parent/legal guardian (or student, if 18 or older) signs it before the school forwards it to the College Board. In most cases, the school test coordinator completes Sections II and III of the form and forwards the form to the College Board.

MIDDLE SCHOOL

Grades 6-8

2020-21

PROGRAM OF STUDIES

A Planning Guide for Students and Parents

ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID)

AVID is a 6th-through 12th-grade elective to prepare students in the academic middle for four-year college eligibility. It has a proven track record in bringing out the best in students, and in closing the achievement gap.

Advancement Via Individual Determination (AVID) Grades 6-8

The three main components of this course are academic instruction, tutorial support and motivational activities. This course provides students with strategies to be successful in high school and to be well prepared for post-secondary opportunities. It emphasizes organizational skills, how to produce exemplary work, intellectual risk-taking, critical thinking skills, community involvement and the steps necessary to increase college access options and college success. AVID students are supported academically as they pursue Advanced Placement (AP) and other rigorous courses.

BUSINESS AND INFORMATION TECHNOLOGY

Make It Your Business Grade 6 | one semester

Students design, establish and operate a small group or class business, producing a service or product that meets an identified school or community need. Emphasis is placed on the introduction and application of business terminology, basic entrepreneurship concepts and fundamental business principles. Basic academic skills (Mathematics, Science, English and History/Social Science) are integrated into this course. Keyboarding and Workplace Readiness Skills (WRS) are embedded throughout the course.

Computer Solutions

Grade 7 | one semester

Students are introduced to the world of business using the computer as a problem-solving tool. Emphasis is placed on using basic touch keyboarding skills to complete a variety of projects incorporating word processing, database, presentation, and spreadsheet software. Basic Internet safety and computer maintenance issues are important components of this course. Workplace Readiness Skills (WRS) are embedded throughout the course.

Digital Technology Foundations

Grade 8 | one semester

This foundation course introduces the use of relevant and emerging technologies, tools, and applications to prepare students for current workplace practices and everyday life. Students will demonstrate information processing using a variety of hardware and software and Internet-based tools to produce and integrate data in various formats. This course is designed for students wishing to progress through more advanced business and information technology coursework. Keyboarding and Workplace Readiness Skills are embedded throughout the course.

FAMILY AND CONSUMER SCIENCES

Family and Consumer Sciences I

Grade 6 | one semester

Students gain a foundation for managing individual, family, career and community roles and responsibilities. Students focus on areas of individual growth such as personal goal achievement, responsibilities within the family and accountability for personal safety and health. They also explore and practice financial management, clothing maintenance, food preparation, positive and caring relationships with others and self-assessment as related to career exploration. Students apply problem-solving and leadership skills as they

progress through the course. Mathematics, Science, English, Social Sciences, Fine Arts and Technology are integrated throughout the course.

Family and Consumer Sciences II

Grade 7 | one semester

Students use higher order thinking skills to help them develop responsible and positive attitudes toward their societal roles. Through lab experiences and simulated activities with peers, students focus on their individual development as well as their relationships and roles within the family unit. Students use computers, technology, Math, Science and Language Arts to prepare for college and personal responsibilities. Emphasis is also placed on resource management, nutrition and wellness, goal setting and career exploration.

Family and Consumer Sciences III

Grade 8 | one semester

Students focus on their individual roles in the community as well as how the community influences individual development. Students develop change-management and conflict-resolution skills and examine how global concerns affect communities. In addition, students enhance their knowledge of nutrition and wellness practices and learn how to solve household problems by maximizing consumer and family resources. Students also increase their leadership abilities and explore how volunteerism aids communities. Mathematics, Science, Language, Social Science and Technology are integrated throughout the course.

VISUAL ARTS

Visual Arts 6

Grade 6 | one semester

During the rotation period for 6th grade, students express ideas and create images

in various media, using the principles of design. Students practice art techniques and develop art skills. Students also analyze, interpret and evaluate well-known works of art. The course also covers art history, including major art movements and the styles, materials, methods and subject matter of individual artists.

Art 7

Grade 7 | one semester

Students study two-dimensional, three-dimensional and graphic arts/multimedia visual arts. Students experiment with art techniques that emphasize creative expression and application of problem-solving skills to communicate ideas and emotions. Throughout all activities, instruction stresses art elements and principles of design. Students learn about the cultural context of art history and complete a project that integrates other fields of knowledge. Using appropriate art vocabulary and their own life experiences, students evaluate and analyze art, as well as explore art careers.

Art 8A

Grade 8 | one semester

This course is intended for students with a serious interest in art. Students develop design sensitivity and sophistication through a variety of art media. Creativity is encouraged with studies in two-dimensional and three-dimensional art, multimedia technology and design.

Art 8

Grade 8 | full year

Specific two-dimensional, three-dimensional and graphic arts/multimedia courses are offered in the 8th grade. In addition to the media and techniques taught in each area, students learn how to critique art and study various artists throughout history. Aesthetics are emphasized as students develop their artistic awareness and new way of looking at ordinary things in life. Full-year art students engage in large-scale projects to create an

aesthetic environment in the school. They learn about art careers and maintain both portfolios and sketchbooks.

THEATRE

Speech and Theatre I

Grade 6 | one semester

Speech and Theatre I is designed to provide students with an introduction to the study of theatrical production, theatre history and dramatic literature. Through research, planning, scripting, production and performance experiences, students acquire skills in communicating ideas, critical thinking and collaborative problem solving. This course prepares students for further theatrical study and nurtures an appreciation for the many forms of theatre.

Speech and Theatre II

Grade 7 | one semester

Students are taught basic theatre skills. The course includes units on history of theatre and the following units in acting skills: learning how to use one's voice, body, and imagination; the structure and analysis of plays; and the stage environment. Students learn how theatre reflects life, and they develop the self-discipline necessary for the study of theatre. Completion of Speech and Theatre I in grade 6 is not a prerequisite for this class.

Speech and Theatre III

Grade 8 | one semester

Students continue exploring theatre arts by examining theatre production through units on directing, playwriting and learning technical elements of theatre. Students also explore theatre in the community and as a venue for careers. A speech component is used to enhance oral-communication skills. Students learn how to construct and deliver various effective presentations. Completion of Speech and Theatre I in grade 6 and

Speech and Theatre II in grade 7 are not prerequisites for this class.

MUSIC

Beginning Band

Grades 6 or 7 | full year

Students learn the techniques of playing instruments, working to develop ensemble and solo performances. Tonal quality and technical facility are developed. Students discuss and constructively comment on their own performances and on the performances of the band.

Concert Band

Grades 6-8 | full year

Prerequisite: Previous music instruction or audition

Students with some playing experience are eligible for this course. Students develop individual and group performance skills, using various styles of band literature. Emphasis is placed on proper breathing, tone quality, intonation, articulation, development of range and music-reading skills. Successful completion of this course should prepare the student for placement in Symphonic Band.

Symphonic Band

Grades 6-8 | full year

Prerequisite: Concert Band or audition

Students study a variety of styles of music literature, emphasizing full band, solo and ensemble performance. Students continue to develop good tone, intonation, articulation and style. The Symphonic Band participates in school concerts and local, district and regional festivals. Students are introduced to the fundamentals of marching to prepare them for the high school marching band program. Some marching activities are provided. In addition to the regular class period, Symphonic Band students usually practice one day per week, either before or after school. Symphonic Band students may choose to participate in the

Jazz Band, which also practices one day per week, either before or after school.

Beginning Orchestra

Grade 6 | full year

Students develop skills in bowing and fingering and demonstrate a controlled tonal quality. They learn to perform an assigned part in ensemble playing. In addition, students learn to observe musical terms and apply them to a variety of music literature, developing an awareness of musical styles.

Concert Orchestra

Grades 6-8 | full year

Prerequisite: Previous music experience or audition

For students with some playing experience, this course continues to develop skills in bowing, fingering and reading music with good intonation and rhythm. Success in this course should lead to placement in Symphonic Orchestra.

Symphonic Orchestra

Grades 6-8 | full year

Prerequisite: Concert Orchestra or audition

This course provides students who have successfully completed one year or more of string study experience in performing music of various styles and periods as they continue to develop skills in fingering and bowing. Musical interpretation and ensemble playing are stressed, and opportunities for public performance are provided. Students continue to develop good tone, intonation, articulation and style of playing by studying solo, ensemble and orchestra literature. They will be able to sight read Grade II and III literature and identify music symbols, key signatures and tempo. Orchestra members participate in school concerts and local and regional festivals. In addition to the regular class period, Symphonic Orchestra students usually practice one day per week, either before or after school.

Beginning Chorus

Grade 6 | full year

Chorus is offered to students who want to sing for enjoyment while continuing to develop their musical knowledge and vocal skills. Emphasis is placed on reading octavo music and independent-part singing. Chorus members are required to perform in the winter and spring concerts and in local and district festivals, as determined by the music director.

Intermediate Chorus

Grades 7 or 8 | full year

Prerequisite: Previous music experience or audition

Intermediate Chorus is offered to qualified students who want to develop their vocal skills and perform. Emphasis is on the development of proper vocal techniques, rhythmic and melodic music-reading skills and ensemble singing. Members are required to perform in the winter and spring concerts and may be given the opportunity to participate in local and district festivals as determined by the director. Music performed covers a wide range of historical periods and musical styles.

Advanced Chorus

Grades 7 or 8 | full year

Prerequisite: Intermediate Chorus or audition

Advanced Chorus is offered to students who exhibit advanced skill levels in music literacy and vocal technique. The content of the course is designed to develop the students' technical, musical and performance skills. The music studied by this choir is challenging and requires a desire for excellence on the part of its members. Students are required to perform in the winter and spring concerts, local and district choral festivals and other performance opportunities. Music performed covers a wide range of historical periods and musical styles. In addition to the regular class period, Advanced Chorus stu-

dents often practice one day per week, either before or after school.

HEALTH, PHYSICAL EDUCATION AND FAMILY LIFE

The purpose of the Health, Physical Education and Family Life program is for students to develop the knowledge, skills and confidence to be physically active and healthy over their lifetime.

Physical Education provides standards-based instruction on motor/movement knowledge and skills, physical activity and fitness knowledge and skills, personal and social responsibility, and valuing physical activity for its many benefits.

ACPS offers students a rich program that targets individual fitness. Students use pedometers to measure the level of physical activity and heart rate monitors to learn about exercise intensity. Students are offered a variety of opportunities to practice and enjoy physical activity both within and outside school.

Health education provides standards-based instruction that focuses on the relationships among physical health, mental-emotional health and family-social health. Students become their own advocates for health promotion by learning and practicing skills that lead to healthy behaviors and reduce risky behaviors.

Health, Physical Education and Family Life 6

Grade 6 | full year

Students develop the skills, knowledge, attitudes and behaviors that lead to lifetime wellness and fitness. Activities include a variety of aerobic, movement, rhythm/dance and game experiences in which students learn the fundamental rules and practice the lead-up skills that encourage successful participation in

sports. Students work cooperatively, exhibit positive sportsmanlike conduct and promote a healthy lifestyle. Health and Family Life are included in the year-long course to present students with information on nutrition, safety and accident prevention, disease prevention and control, alcohol and drug abuse prevention and maintenance of personal health and fitness. The Family Life content focuses on family relationships, sexual safety, assertive behavior, emotional and physical aspects of puberty, human reproduction, and human growth and development.

Health, Physical Education and Family Life 7

Grade 7 | full year

Physical Education activities continue with skill progression through instruction and participation in rhythmic activities, dance and individual, dual and team sports. Concepts of personal fitness and wellness are developed through experiences in physical activities as well as in the health classroom. Health Education content gives students information on the interaction of body systems in maintaining good health, conflict-resolution skills and the life skills training to be better prepared to deal with the risk factors associated with drugs and alcohol. The Family Life unit covers human reproduction, communicable diseases, HIV/AIDS, abstinence, contraception, communication and personal goal setting.

Health, Physical Education and Family Life 8

Grade 8 | full year

Students develop personal fitness plans that stress involvement in physical activities that assist with physical, mental and social wellbeing. Skills are reviewed and enhanced through participation in more complex physical activities and sports to promote a healthy lifestyle. Health Education covers information on life-skills training, personal health and physical development, and preven-

tion of sexually transmitted diseases, including HIV/AIDS. The Family Life unit covers abstinence, contraception, peer pressure, sexual abuse and harassment and changing relationships, and helps students to match behavior to personal values.

Adapted Physical Education

Grades 6-8 | full year

This course is a supplement to General Physical Education. Students who are unable to participate in regular Physical Education classes may be offered this course of developmental activities, games, sports and rhythms. Active participation is encouraged in many recreational sports. Students learn rules and techniques for sports adapted to the participants' specific conditions. Students enrolled in this course may join with the regular Physical Education and/or Health Education classes when appropriate. The goal is to help students adapt their abilities to the demands of daily living. Middle school students have the opportunity to use traverse climbing walls, pedometers, heart rate monitors, inline skates, mountain bikes and outdoor adventure activities.

ENGLISH LANGUAGE ARTS

A standard program of study and an advanced (Honors) program of study are offered in English Language Arts. Students develop and refine:

- skills in listening, speaking, reading and writing
- vocabularies for reading, writing, listening and speaking
- the ability to analyze words using word context, origin and structure
- an understanding of relationships between words and ideas
- research and reference skills
- the ability to write clearly and effectively
- the ability to use writing to demonstrate learning, and for personal expression

- the ability to adjust written and oral communication to fit a variety of purposes and audiences

Students identified to receive Talented and Gifted (TAG) services in English Language Arts are scheduled into Honors sections of Language Arts 6, 7 or 8.

Language Arts 6

Grade 6 | full year

As students read and respond to classic and contemporary literature, they continue to develop reading, writing, listening and speaking skills. Students expand their understanding of and appreciation for literature's diverse origins, purposes and forms through textbooks and supplemental reading. Students also use reading and writing as learning tools and for demonstrating understanding while developing writing, grammar, spelling and vocabulary skills.

Language Arts Honors 6

Grade 6 | full year

The curriculum revolves around the theme of individual change. Students study the concept of change by reading autobiographies of writers and by looking at change in selected lives. To help students gain insight into the development of talent, the lessons encourage them to explore their own identities as talented learners through discussions and reflective writing. Additional selections and activities continue the emphasis on individual change as expressed by authors and students in their reading and writing.

Language Arts 7

Grade 7 | full year

Literature study in the seventh grade includes classical and contemporary works, sampling a variety of cultures. Students explore literary themes within all genres: poetry, autobiography, biography, fiction, non-fiction, drama, the short story and the novel. As often as possible, literature study explores and capitalizes on natural and thematic connections to other areas

of study (such as Social Studies, Science, and Fine Arts). Students' composition skills, vocabulary development, grammar usage and spelling proficiency are developed through both direct instruction and writing activities and responses to literature. By preparing and delivering class presentations, students develop oral-language skills.

Language Arts Honors 7

Grade 7 | full year

The curriculum revolves around the theme of societal change. Through the study of literature, students learn about change that happens in the world in general, and America in particular, and how the lives of ordinary people change even as the events of war unfold. Additional selections and activities continue the emphasis on societal change, and students are encouraged to research an issue of significance.

Language Arts 8

Grade 8 | full year

In the eighth grade, students continue the study of a rich, culturally diverse literary heritage that is expanding through the contributions of contemporary writers. Students use various forms of writing, class discussions, dramatizations and other projects to explore and demonstrate their comprehension of reading. Where parallels occur, interdisciplinary studies align literature with other content areas. Efficient writing strategies, accurate use of written language and effective oral-presentation skills are developed through active participation in individual, small-group and whole-class projects.

Language Arts Honors 8

Grade 8 | full year

The curriculum revolves around the theme of universal change. Students examine why the ideas about utopia undergo change, about the search through the ages for utopia and the struggles to grasp and maintain it on personal and

societal levels. Additional selections and activities continue the emphasis on universal change, and students are encouraged to explore utopia through personal dreams and goals.

Literacy Support 6

Grade 6 | full year

Students may register for this course or be recommended for enrollment. This course is for the student whose reading and writing performance indicates a need to strengthen basic reading and writing skills and strategies. Through direct instruction, multimedia applications and exposure to a variety of reading materials, including fiction and nonfiction, the student becomes more adept at meeting the reading and writing requirements of middle school. Classroom instruction supports and improves the reader's ability to decode words, comprehend text, expand reading and writing vocabularies and apply reading-to-learn strategies to other subject areas. Writing instruction and writing opportunities improve the student's ability to organize ideas and express them clearly. To ensure that the needs of individual students are met, several approaches to Literacy Support are available. These approaches may include Multimedia Literacy, Soar to Success or the Autoskills program.

Literacy Support 7

Grade 7 | full year

Students may register for this course or be recommended for enrollment. This course is for the student whose reading and writing performance indicates a need to strengthen basic reading and writing skills and strategies. Through direct instruction, multimedia applications and exposure to a variety of reading materials, including fiction and nonfiction, the student becomes more adept at meeting the reading and writing requirements of middle school. Classroom instruction supports and improves the reader's ability to decode words, comprehend text,

expand reading and writing vocabularies and apply reading-to-learn strategies to other subject areas. Writing instruction and writing opportunities improve the student's ability to organize ideas and express them clearly. To ensure that the needs of individual students are met, several approaches to Literacy Support are available. These approaches may include Multimedia Literacy, Soar to Success or the Autoskills program.

Literacy Support 8

Grade 8 | full year

Students may register for this course or be recommended for enrollment. This course is for the student whose reading and writing performance indicates a need to strengthen basic reading and writing skills and strategies. Through direct instruction, multimedia applications and exposure to a variety of reading materials, including fiction and nonfiction, the student becomes more adept at meeting the reading and writing requirements of middle school. Classroom instruction supports and improves the reader's ability to decode words, comprehend text, expand reading and writing vocabularies and apply reading-to-learn strategies to other subject areas. Writing instruction and writing opportunities improve the student's ability to organize ideas and express them clearly. To ensure that the needs of individual students are met, several approaches to Literacy Support are available. These approaches may include Multimedia Literacy, Soar to Success or the Autoskills program.

English for Academic Purposes (EAP)

Grades 6-8 | full year

EAP Algebra I

(1 high school elective credit)

EAP English Language Arts

EAP Mathematics

EAP (English for Academic Purposes) is a language development course that promotes the development of Academic English. The class is aligned with and supports the core English Language Arts course. This course is designed specifically to support English Language Learners (ELL) students in accessing the standard curriculum and developing academic language.

Reading for English Language Learners

Grades 6-8 | full year

This course promotes accelerated literacy and language acquisition for targeted EL students at the secondary level. The course is designed for adolescent emergent readers who are in the beginning stages of English language acquisition and need to develop foundational literacy skills such as phonological awareness, concepts of print, vocabulary development, reading comprehension and interpretation, writing, speaking and listening. The course supports students' move along a learning continuum from initial basic language acquisition toward increasing levels of guided and independent transfer in listening, speaking, reading and writing.

MATHEMATICS

The purpose of the middle school Mathematics program is to prepare students for successful study of Algebra and Geometry. Algebraic activities move from informal explorations of patterns, graphs, rules and solutions of equations to a more formalized understanding of algebraic processes. Geometric activities have a spe-

cial emphasis on spatial-reasoning skills and learning geometric relationships by visualizing, comparing, constructing, sketching, measuring, transforming, and classifying geometric figures. For sample Secondary Mathematics course sequences, see page 18.

Math 6

Grade 6 | full year

The Math 6 course is a balanced and comprehensive exploration of the 6th grade Virginia Mathematics Standards of Learning core content and process strands that begins to set the foundations for algebraic thinking. This course includes: number and number sense with a focus on the relationships among fractions, decimals and percents; computation and estimation with a focus on operations with rational numbers; measurement with a focus on problem solving with area, perimeter, volume and surface area; geometry with a focus on properties and relationships; probability and statistics with a focus on practical application of statistics; and patterns, functions and algebra with a focus on variables, equations and properties.

Math Honors 6

Grade 6 | full year

The Math Honors 6 course is a rigorous exploration of the 6th grade Virginia Mathematics standards of learning core content and process strands in mathematics. The course is taught at an accelerated pace to allow for deeper enrichment within the content area. Math Honors 6 emphasizes enhancements via problem solving and deeply enriched conversations and simulations. Focus is distributed across all context in number and number sense; computation and estimation; measurement and geometry; probability and statistics; and patterns, functions and algebra.

Math 7

Grade 7 | full year

Prerequisite: Math 6

The Math 7 course is a balanced and comprehensive exploration of the 7th grade Virginia Mathematics Standards of Learning core content and process strands in mathematics that further prepares students to study algebra. The course includes: number and number sense with a focus on proportional reasoning; computation and estimation with a focus on integer operations and proportional reasoning; measurement with a focus on proportional reasoning; geometry with a focus on relationships between figures; probability and statistics with a focus on their applications; and patterns, functions and algebra with a focus on linear equations.

Math Honors 7

Grades 6 or 7 | full year

Prerequisite: Math 6

The Math Honors 7 course is a rigorous exploration of the 7th grade Virginia mathematics standards of learning core content and process strands in mathematics. The course is taught at an accelerated pace to allow for deeper enrichment within the content area. Study includes authentic application and deeper problem solving of the Math 7 standards of learning with the intent to prepare the learner for the more abstract concepts of algebra and geometry.

Math 8

Grade 8 | full year

Prerequisite: Math 6 and 7

This course is for students working at grade level. While continuing to develop students' number sense and proportional reasoning, this course will focus on the foundations of Algebra, including: (1) investigating functions and their behavior; (2) graphing equations in two variables; (3) solving multistep linear equations using rational numbers; and (4) making inferences and predictions about real-life

data. Students take the eighth-grade SOL test. The goal for this course is to have a maximum number of students prepared for success in Algebra 1 in grade 9.

Mathematics Support

Grades 6-8 | full year

Through the use of manipulatives, models, sketches and diagrams, students develop an understanding of mathematical concepts and processes that help them retain and recall information. In so doing, students have the opportunity to experience mathematics in a rich and meaningful way while creating a conceptual basis for future study in algebra and geometry. Students may register for this course or be recommended for enrollment.

HIGH SCHOOL MATHEMATICS COURSES (ONE HIGH SCHOOL CREDIT EARNED PER COURSE)

Students in Algebra I and Geometry at the middle school level earn high school credit for these subjects. A grade earned by a student in these courses is used to calculate his or her high school grade point average (GPA). For any high school credit-bearing course taken in middle school, parents/ legal guardians may request, by August 1 of that year, that grades be omitted from the student's transcript and the student not earn high school credit or Verified Credit for the course.

Students are expected to complete three or more mathematics credit courses before graduation from high school. However, the readiness of students to think abstractly varies. Algebra I is a rigorous high school mathematics course. Abstract reasoning skills and good study skills are essential for success in this subject. All students are not ready to begin a formal study of Algebra I at the same time.

Algebra I

Grades 7 or 8 | full year

1 high school credit

Prerequisite: Math 6 and 7 or Math Honors 7 successfully completed in Grade 6

The Algebra I course is designed to engage students in the applications of advanced math concepts and processes applied to real-world problem-solving situations. The content of this course includes solutions of equations and inequalities, operations with polynomials, factoring, and the study of linear and quadratic equations. Problem-solving situations are emphasized.

Geometry

Grade 8 | full year

1 high school credit

Prerequisite: Algebra I

The content focuses on integrated plane, solid and coordinate geometry, along with the properties of geometric figures, trigonometric relationships and reasoning to justify conclusions. Methods of justification include paragraph proofs, two-column Middle School Grades 6-8 proofs, indirect proofs, coordinate proofs, algebraic methods and verbal arguments.

SCIENCE

The middle school Science program is designed to meet the needs of all students. A standard program of study and an advanced (Honors) program of study are offered. The focus at grade 6 is on the environment, water, Earth and space science. In grade 7, students are engaged in studies related to Life Science, with an emphasis on change, cycles, patterns and relationships in the living world. In grade 8, the nature and structure of matter, physics and energy are studied. Students take a cumulative SOL exam at the end of grade 8 that includes science content from grades 6, 7 and 8.

MIDDLE SCHOOL SCIENCE HONORS PROGRAM

As an alternative to the standard program of studies for middle school science, advanced or Honors options for each grade level are available. These courses follow the prescribed ACPS curriculum and the Virginia Science SOL. They are recommended for highly motivated students. Students use experimental design to conduct small-group and individual research projects related to real-world problems. Students develop an understanding of the role of science in their lives. Each student is required to propose and conduct a science project for possible entry into their school Science Fair and the ACPS Science Fair.

Students identified to receive Talented and Gifted (TAG) services in Science are scheduled into Honors sections of General Science, Life Science or Physical Science. For sample secondary Science course sequences, see page 19.

General Science 6

or

Honors General Science 6

Grade 6 | full year

General Science focuses on the role of the sun's energy on the Earth's systems, water in the environment, air and atmosphere and basic chemistry concepts. Students explore the concept of change through study of transformations of energy and matter. Instruction also focuses on a more detailed understanding of the solar system and space exploration; natural resource management, its relation to public policy and its cost/benefit trade-offs, and scientific methodology, emphasizing precision in stating hypotheses and defining dependent and independent variables. Students learn to test the validity of predictions and conclusions. Instruction focuses on inquiry through observing, experimenting and modeling. The impor-

tance of scientific research that validates or challenges ideas is emphasized; therefore, students are encouraged to develop research projects for entry into science fair competition.

Life Science 7

or

Honors Life Science 7

Grade 7 | full year

Life Science emphasizes a more complex understanding of change, cycles, patterns and relationships in the living world. Students build on basic principles related to these concepts by exploring the cellular organization and the classification of organisms; the dynamic relationships among organisms, populations, communities and ecosystems; and change as a result of the transmission of genetic information from generation to generation. Instruction focuses on inquiry through observing, experimenting and modeling. The importance of scientific research that validates or challenges ideas is emphasized; therefore, students are encouraged to develop research projects for entry into science fair competition.

Physical Science 8

or

Honors Physical Science 8

Grade 8 | full year

Physical Science continues to build on skills of systematic investigation, with a clear focus on variables and repeated trials that were studied in grades 6 and 7. Students also validate conclusions using evidence and data. Instruction stresses an in-depth understanding of the nature and structure of matter and the characteristics of energy, with considerable emphasis on the technological application of physical science principles. Major areas covered include periodicity (the Periodic Table); physical and chemical changes; nuclear reactions; temperature and heat; sound, light, electricity and magnetism; and work, force and motion. Instruction focuses on inquiry through observing,

experimenting and modeling. The importance of scientific research that validates or challenges ideas is emphasized; therefore, students are encouraged to develop research projects for entry into science fair competition.

SOCIAL STUDIES

A standard program of study and an Honors program of study are offered in Social Studies. Students identified to receive Talented and Gifted (TAG) services in Social Studies are scheduled into Honors sections of U.S. History 1, U.S. History II and Civics and Economics.

U.S. History I

Grade 6 | full year

This course focuses on United States history from the pre-Columbian era to 1865. Students explore the historical development of people, places and patterns of life, and learn, within the context of United States history, fundamental concepts in civics, economics and geography. This course continues in grade 7.

U.S. History II

Grade 7 | full year

Students continue the study of United States history begun in grade 6, examining major trends and events from 1865 to the present. Emphasis is placed on 20th-century events, including the Great Depression, World War II, the Cold War, the Civil Rights Movement and the Vietnam Conflict.

Civics and Economics

Grade 8 | full year

This course focuses on the structure and functions of government institutions at the national, state and local levels; the role of the citizen in the American political and economic systems; and the basic principles, structure and operation of the American economy.

MIDDLE SCHOOL SOCIAL STUDIES HONORS PROGRAM

Honors courses are offered in Social Studies at each level in middle school. The Honors Social Studies curriculum follows the prescribed Virginia Social Studies SOL while providing instruction in advanced content at an accelerated pace. Students engage in higher-level thinking and develop advanced reasoning and problem-solving strategies to enable them to analyze their own thinking and the thinking of others. Through the use of primary source documents, simulations of real-world events and above grade-level nonfiction materials (excerpts and books), students analyze historical, geographical and economic events to become informed citizens, motivated to participate in civic and community affairs. Students enrolled in Honors courses write extensively on a variety of topics in several formats, including responses to Document Based Questions (DBQs), a skill that is essential to their success in Advanced Placement or Honors courses at the high school level.

U.S. History I Honors

Grade 6 | full year

Students develop skills of historical and geographical analysis to study the early history of the United States, and understand the ideas and events that both strengthened and weakened the union. Students explore the fundamental concepts of civics, geography and economics within the context of the history of the United States by reading nonfiction material written at advanced levels. Using primary source documents, they analyze the people and events that shaped the United States. Students enrolled in Honors courses are introduced to the DBQ.

U.S. History II Honors

Grade 7 | full year

Students continue to develop their skills in historical and geographical analysis

as they study United States history into the 20th century. Building on the skills developed in U.S. History I, students analyze and evaluate the events of the late 19th and 20th centuries to reach a full understanding of how the development of the United States shaped the political and economic events of the world. Students use a variety of primary source documents in their written and oral analyses. Students respond to more advanced DBQs each quarter.

Civics and Economics Honors

Grade 8 | full year

Through Honors Social Studies curriculum for grade 8, students analyze social political, legal and economic systems according to their structures and functions. Throughout the year, students respond to increasingly complex DBQs. Students engage in thoughtful analysis and evaluation of news articles from several sources and draw connections between the topics in the news and the course content.

TECHNOLOGY EDUCATION

Introduction to Technology

Grade 6 | one semester

Students study the resources of all technology, including tools, energy, materials, people, time, information and systems. They investigate the impacts of technology by identifying emerging technologies and predicting future technological changes. The problem-solving process is utilized, and students produce small products using measuring, drawing and basic hand tool operations skills. They also work in teams using computers to explore rocketry, space, robotics and other forms of technology.

Inventions and Innovations

Grade 7 | one semester

Students explore inventions and innovations and explain how they relate to the

development of new products, processes and systems. After studying these developments, they explore contemporary technological problems facing them, their community or the world and apply systematic procedures to invent new products or innovations as solutions, applying the design process. Students construct a model or a prototype and evaluate the model through assessment or the prototype through testing.

Technological Systems

Grade 8 | one semester

Through a global view of technology, students combine resources and techniques to create systems, attaining comprehension of how technological systems work. Students explore, design, analyze and evaluate technological systems. By simulating systems and assessing their impacts, students gain insight into how to approach the problems and opportunities of a technological world. They also explore technology-oriented careers. Students design specific technological systems (information, communication, construction, transportation, energy and power or biotechnology) to solve a problem. Projects include photographic portfolios, video productions, magnetic levitation vehicles, telephones and construction models.

WORLD LANGUAGES

All courses are one full year. Students are strongly encouraged to begin or continue their study of World Languages during the middle school years. Colleges and universities look favorably upon applicants who complete three, four or five years of study of one or more world languages. Students enjoy a variety of opportunities to study a World Language (Chinese, French, German, Latin, and Spanish):

- Rising sixth-grade students may begin studying a world language in grade 6

and earn two high school credits by successfully completing three years of study of the same language. A student may also choose to study another subject in sixth grade and begin World Language study in grade 7, earning one high school credit after successfully completing two years of study of this course.

- Rising seventh-grade students may earn one World Language high school credit after successfully completing two years of study of this course.
- Rising eighth-grade students who are already enrolled in the study of a World Language should continue the second year of study to earn one World Language high school credit. Rising eighth-grade students who have not yet begun their study of World Languages may earn one high school credit through successful completion of Spanish I during the eighth-grade year.

For any high school credit-bearing course taken in middle school, parents/legal guardians may request that grades be omitted from the student's transcript and the student not earn high school credit or Verified Credit for the course.

For students transferring into ACPS from other school divisions, appropriate beginning language placement will be provided pending sufficient enrollment.

World Language Credit by Exam

Students in grades six through 12 with the ability to comprehend and communicate in languages other than English now have the opportunity to earn up to three high school credits for world languages. Assessments are available in over 100 languages, including American Sign Language. The World Language Credit by Exam is offered one time per year in the fall. For more information please visit the Alexandria City Public Schools website at www.acps.k12.va.us/worldlanguagecredit.

HIGH SCHOOL WORLD LANGUAGE COURSES (ONE HIGH SCHOOL CREDIT EARNED PER COURSE)

Chinese IA

Grades 6 or 7 | full year

0.5 high school credit for successful completion

In this course, students develop their ability to speak, read, write and comprehend Mandarin Chinese through the application of functional tasks. Emphasis is placed on the development of communication skills in the target language. By the end of the course, students should be able to hold a brief conversation about their families, friends, dates, times, the weather, school life and transportation. Using Simplified Chinese characters (in use in mainland China), students learn to read and write 150 characters.

Chinese 1B

Grades 7 or 8 | full year

0.5 high school credit for successful completion

Prerequisite: Chinese IA

Students continue to develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills: listening, speaking, reading and writing. The development of students' ability to communicate orally and in writing remains a focus of the course. Students continue to explore and study themes related to personal and family life, school life and community life. By the end of the course, students have an expanded knowledge of 300 Chinese characters, with the ability to read and write them in simple sentence structures.

Chinese II

Grade 8 | full year

1 high school credit

Prerequisite: Chinese IA and IB or equivalent

Students continue to develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills: listening, speaking, reading and writing, with emphasis on the ability to communicate orally and in writing. Students begin to show a greater level of accuracy when using basic language structures, as they are exposed to more complex features of the language. Students continue to focus on communicating about their immediate world and daily life activities. Emphasis continues to be placed on the use of the target language in the classroom as well as on the use of authentic materials to learn about the culture. Please note: some familiar themes and topics from level I may reoccur in level II. However, the spiraling nature of embedded theme-based instruction requires students to demonstrate their communicative skills and acquired linguistic knowledge at a new developmental level.

French IA

Grades 6 or 7 | full year

0.5 high school credit for successful completion

Students learn basic vocabulary and language structures for day-to-day situations. This course stresses communication and culture, making use of a variety of ancillary materials and appropriate technology applications to present the language in an authentic manner. Students attain language proficiency through acquired cultural knowledge and the development and application of the four language skills: listening, reading, speaking and writing.

French IB

Grades 7 or 8 full year

0.5 high school credit for successful completion

Prerequisite: French IA

Students continue the study of French language and culture, learning essential vocabulary and structures for day-to-day situations. Vocabulary and grammar structures are presented in real-life contexts and are developed around specific communicative functions. Topics focusing on adolescents' lives, needs and experiences, such as family, after-school activities and shopping, are integrated into instruction, as well as products, practices and perspectives drawn from the target culture. During the language-learning process, students gain insights into how their own language is structured, as well as an increased understanding of the relationship between culture and language. Students also develop an appreciation for the many recreational, educational and occupational uses of French beyond the classroom. This course stresses communication and culture, making use of a variety of ancillary materials and appropriate technology applications to present the language in an authentic manner. Students attain language proficiency through acquired cultural knowledge and the development and use of the four language skills: listening, reading, speaking and writing.

French I

Grade 8 | full year

1 high school credit

Students learn essential vocabulary and structures for day-to-day situations. Vocabulary and grammar structures are presented in real-life contexts and are developed around specific communicative functions. Topics focusing on adolescents' lives, needs and experiences, such as family, after-school activities and shopping, are integrated into instruction, as well as products, practices

and perspectives drawn from the target culture. During the language-learning process, students gain insights into how their own language is structured, as well as an increased understanding of the relationship between culture and language. Students also develop an appreciation for the many recreational, educational and occupational uses of French beyond the classroom. This course stresses communication and culture, making use of a variety of ancillary materials and appropriate technology applications to present the language in an authentic manner. Students attain language proficiency through acquired cultural knowledge and the development and application of the four language skills: listening, reading, speaking and writing.

French II

Grade 8 full year

1 high school credit

Prerequisite: French IA and IB or equivalent

Students continue the study of French language and culture, with emphasis on the development of communicative competence. French II centers on further development of students' reading, writing, listening and speaking skills in the target language. Students begin to show a greater level of accuracy when using basic language structures. They focus on communicating information about their immediate world and daily activities as they encounter more complex features of the language. Vocabulary, grammar and language structures are presented in real-life contexts and are developed around specific communicative functions. Emphasis continues to be placed on the use of French within and beyond the classroom, with the integration of authentic materials into instruction to learn about the cultures of the French-speaking world.

German I

Grade 8 | full year

1 high school credit

Level I German focuses on the development of communicative competence and on the understanding of German speaking cultures. Students develop a solid and comprehensive foundation in the target language in the domains of listening, speaking, reading and writing. Vocabulary and grammar structures are presented in real-life contexts and are developed around specific communicative functions. Topics focusing on adolescents' lives, needs and experiences, such as family, after-school activities and shopping are integrated into instruction, as well as products, practices and perspectives drawn from the target culture. During the language-learning process, students gain insights into how their own language is structured, as well as an increased understanding of the relationship between culture and language. Students also develop an appreciation for the many recreational, educational and occupational uses of German beyond the classroom.

German IA

Grades 6 or 7 | full year

0.5 high school credit for successful completion

Students learn basic vocabulary and language structures for day-to-day situations. This course stresses communication and culture, making use of a variety of ancillary materials and appropriate technology applications to present the language in an authentic manner. Students attain language proficiency through acquired cultural knowledge and the development and use of the four language skills: listening, reading, speaking and writing.

German IB

Grades 7 or 8 | full year

0.5 high school credit for successful completion

Prerequisite: German IA

Level I German focuses on the development of communicative competence and on the understanding of German-speaking cultures. Students develop a solid and comprehensive foundation in the target language in the domains of listening, speaking, reading and writing. Vocabulary and grammar structures are presented in real-life contexts and are developed around specific communicative functions. Topics focusing on adolescents' lives, needs and experiences, such as family, after-school activities and shopping, are integrated into instruction, as well as products, practices and perspectives drawn from the target culture. During the language-learning process, students gain insights into how their own language is structured, as well as an increased understanding of the relationship between culture and language. Students also develop an appreciation for the many recreational, educational and occupational uses of German beyond the classroom.

German II

Grade 8 | full year

1 high school credit

Prerequisite: German IA and IB or equivalent

In German II, students continue to develop their proficiency in the three strands of communicative competence: interacting with other speakers of German, understanding oral and written messages in German and making oral and written presentations in German. Students begin to demonstrate a greater level of accuracy when using basic language structures and are exposed to more complex features of the German language. Students continue to focus communication on their immediate world and daily life activities. Em-

phasis continues to be placed on the use of German in the classroom, as well as on the use of authentic materials to learn about the culture.

Latin IA

Grades 6 or 7 | full year

0.5 high school credit for successful completion

Students learn basic vocabulary and language structures for understanding life in Ancient Rome. This course stresses communication and culture, making use of a variety of ancillary materials and appropriate technology applications to present the language in an authentic manner. Students attain language proficiency predominantly through the development of reading and writing skills and acquired cultural knowledge.

Latin IB

Grades 7 or 8 | full year

0.5 high school credit for successful completion

Prerequisite: Latin IA

Students continue to focus on the development of communicative competence and their understanding of Roman culture. Students develop a solid and comprehensive foundation in the target language through the domains of listening, speaking, reading and writing. Vocabulary and grammar structures are presented in historical and real-life contexts and are developed around specific communicative functions. Topics focusing on history, culture, literature and daily life are integrated into instruction, as well as products, practices and perspectives drawn from the target culture. During the language-learning process, students gain insights into how their own language is structured, as well as an increased understanding of the relationship between culture and language. Students also develop an appreciation for the many recreational, educational

and occupational uses of Latin beyond the classroom.

Latin II

Grade 8 | full year

Middle School Grades 6-8 1 high school credit

Prerequisite: Latin IA and IB or equivalent

Students enrolled in Latin continue to develop their ability to comprehend written Latin texts with more complex grammar and syntax. The focus on comprehending Latin differs from the primary goal of the modern languages. Students read and comprehend adapted and/or authentic Latin from original sources. They learn about the perspectives, practices and products of the ancient Romans in areas such as architecture, art and history. Students compare these cultural and historical elements to those in their own culture, and find examples of the influence of Greco-Roman civilization in their own world. Students also compare effects of the geography of the ancient Roman world and that of the United States on aspects of culture such as food, dwellings, clothing and the arts.

Spanish IA

Grades 6 or 7 | full year

0.5 high school credit for successful completion

Students begin the study of Spanish acquiring basic vocabulary and language structures for day-to-day situations. This course stresses communication and culture, making use of a variety of ancillary materials and appropriate technology applications to present the language in an authentic manner. Students attain language proficiency through acquired cultural knowledge and the development of the four language skills: listening, reading, speaking and writing.

Spanish IB

Grades 7 or 8 | full year

0.5 high school credit for successful completion

Prerequisite: Spanish IA

Students continue the study of Spanish, learning basic vocabulary and language structures for day-to-day situations. This course places emphasis on the development of communicative skills and the expansion of cultural knowledge, making use of a variety of ancillary materials and appropriate technology applications to present the language in an authentic manner. Students attain language proficiency through the development and application of the four language skills: listening, reading, speaking and writing.

Spanish I

Grade 8 | full year

1 high school credit

Students begin the study of Spanish, learning basic vocabulary and language structures for day-to-day situations. This course places emphasis on the development of communicative skills and the expansion of cultural knowledge, making use of a variety of ancillary materials and appropriate technology applications to present the language in an authentic manner. Students attain language proficiency through the development and application of the four language skills: listening, reading, speaking and writing.

Spanish II

Grade 8 | full year

1 high school credit

Prerequisite: Spanish I, IA/IB, or equivalent

Students continue the study of Spanish language and culture, with emphasis on the development of communicative competence. Spanish II centers on further development of students' reading, writing, listening and speaking skills in the target language. Students begin to show a greater level of accuracy when

using basic language structures. They focus on communicating information about their immediate world and daily activities as they encounter more complex features of the language. Vocabulary, grammar and language structures are presented in real-life contexts and are developed around specific communicative functions. Emphasis continues to be placed on the use of Spanish within and beyond the classroom, with the integration of authentic materials into instruction to learn about the cultures of the Spanish-speaking world.

Spanish for Heritage Speakers IA
Grades 6 or 7 | full year
0.5 high school credit for successful completion

Prerequisites: Oral proficiency in spoken Spanish and limited proficiency in reading and writing Spanish. Proficiency to be determined by a placement test.

This course is designed for students who are orally proficient in Spanish, but have limited to no reading and writing ability. Emphasis is placed on familiarizing students with the structural and written aspects of the language to improve their reading and writing skills. Students will begin to develop written compositions and become familiar with various literary genres. Students will also increase their awareness and appreciation of differences and similarities among the Hispanic culture. Upon successful completion of this course, students may progress to Spanish for Heritage Speakers II. Spanish is used exclusively in the classroom.

Spanish for Heritage Speakers IB
Grades 7 or 8 | full year
0.5 high school credit for successful completion

Prerequisites: Successful completion of Spanish for Heritage Speakers IA or oral proficiency in spoken Spanish and basic proficiency in reading and writing

Spanish. Proficiency to be determined by a placement test.

This course is a continuation of Spanish for Heritage Speakers IA and is designed for students who are orally proficient in Spanish, but have limited reading and writing ability. Emphasis is placed on familiarizing students with the structural and written aspects of the language to improve their reading and writing skills. Students will begin to develop written compositions and become familiar with various literary genres. Students will also increase their awareness and appreciation of differences and similarities among the Hispanic culture. Upon successful completion of this course, students may progress to Spanish for Heritage Speakers II. Spanish is used exclusively in the classroom.

Spanish for Heritage Speakers II
Grade 8 | full year
1 high school credit

Prerequisites: Spanish for Heritage Speakers IB or oral proficiency in spoken Spanish and basic proficiency in reading and writing Spanish. Proficiency to be determined by a placement test.

In this course, students will continue to expand their skills in listening, reading, writing and speaking Spanish. Emphasis is placed on increased complexity of grammatical structures, literary genres, and multi-paragraph basic compositions. Students are expected to understand the main ideas and some detail of authentic Spanish texts as they begin to analyze and synthesize written information. In written assignments, students will learn to summarize information, express their opinions, and provide some details. Students will also continue to study Hispanic culture by learning about various Hispanic personalities and historic events in Spanish speaking countries. Upon successful completion of this course, students may progress to Spanish for

Heritage Speakers III. Spanish is used exclusively in the classroom.

DUAL LANGUAGE SPANISH

ACPS offers Spanish dual language programs at Francis C. Hammond and George Washington middle schools for the academic year 2020-21 for incoming 6th grade dual language students. Dual language students in the 6th grade receive Spanish Language Arts and Spanish Social Studies to refine their bilingual, biliteracy and social cultural competence skills. Participation in the program requires previous instruction in the ACPS Dual Language elementary programs at John Adams Elementary School or Mount Vernon Community School and prior experience in a dual language school/program.

Dual Language Spanish
Language Arts I
Grade 6 | full year
1 high school credit

In this course, students continue to improve their language proficiency through language study that includes:

- Reading increasingly more complex fiction and nonfiction text.
- Opportunities for discussions and conversations on assigned texts and/or current events on a variety of topics.
- Write descriptions, short narratives and poetry
- Developing research skills and present findings
- Comparing and contrast, culture, and perspectives of the target language, Spanish

Dual Language Spanish Social
Studies
Grade 6 | full year

Fully taught in Spanish, students receive the same content as monolingual language students. For a description of the

Social Studies course, please review the 6th grade Social Studies course U.S. History I description on page 62.

Dual Language Spanish B

Grade 7 | full year

1 high school credit

Prerequisite: Dual Language Spanish A

Students continue their study of the Spanish language as they advance and perfect their comprehension, speaking, reading and writing skills in the target language. Vocabulary, grammar and language structures are present in real-life contexts and are developed around specific communicative functions. Emphasis continues to be placed on the use of Spanish within and beyond the classroom, with the integration of authentic materials into instruction to aid students in learning more about the cultures of the Spanish-speaking world.

Dual Language Spanish C

Grade 8 | full year

1 high school credit

Prerequisite: Dual Language Spanish A

In this course, students continue to expand and refine their knowledge of the Spanish language and culture. Students are exposed to thematic units, emphasizing written and oral expression, reading comprehension and culture. The course is taught entirely in Spanish, and all materials are presented in the target language. Course content is enriched through the use of technology and authentic ancillary materials.

HIGH SCHOOL

Grades 9-12

2020-21

PROGRAM OF STUDIES

A Planning Guide for Students and Parents

HIGH SCHOOL COURSE DESCRIPTIONS

The availability of elective classes is dependent upon adequate enrollment to fund the teaching positions. Students who have requested an under-enrolled class will need to make another elective course selection. Counselors will notify and assist students and families with this process.

ACADEMY-SPECIFIC CLASSES

STEM Explorations I Grade 9 | 1 elective credit

Co-requisite: STEM Academy participation

This experiential course immerses students in the investigation of real-world engineering and technology problems and decisions affecting their local, state, national and global communities. The course encourages students to use the habits of mind employed by actual scientists, engineers, technology specialists and mathematicians. Students work in teams to identify a problem relevant to life in Alexandria and consistent with identified course themes. Each problem-solution, investigation and decision-making scenario makes use of a design cycle protocol and is conducted using a combination of laboratory and field experiences. Students' physical work space allows them to access support to gain hands-on experiences with a range of technologies and innovative processes related to designing and building projects. Partners with local STEM businesses and organizations bring industry experts into the classroom for collaboration in problem solving.

STEM Seminar Grades 11-12 | 1 elective credit

Prerequisite: STEM Explorations I, CTE STEM Pathway

STEM Seminar is a course intended to provide students with the opportunity for practical application of skills and knowledge learned in previous STEM courses. In addition to developing an understanding of the professional and ethical issues encountered by STEM

professionals, student learn to refine their skills in problem solving, research, communication, data analysis, teamwork, and project management. Instruction will be delivered through school laboratory training or through work-based learning arrangements such as internships, cooperative education, service learning, mentoring, and job shadowing. Students will also explore post-secondary study options in STEM fields. This course will include opportunities for: a) apprenticeships, mentorships, job shadowing, internships, cooperative education; b) project-based learning opportunities; c) school, community, or service learning experiences; d) a culminating research project with an electronic portfolio and final STEM reflection presentation.

Work-Based Learning and College Preparation

Grade 11-12 | 1 elective credit

Prerequisite: 11th and 12th grade students in the International Academy only.

Work-Based Learning and College Exploration combines academic study of college and workplace skills with a 16-week work-based learning experience. During Quarter 1, students conduct research, write resumes and engage in interviews to secure an internship placement for the second and third quarters. During their internships, students develop important workplace competencies while exploring particular career interests. Quarter 4 focuses on reflection of learning and essay writing for college applications. English language learners participating in the internship program have the opportunity to apply English language skills and academic knowledge to real-world situations and purposes that

prepare them for life beyond high school in post-secondary institutions and professional work environments.

Urban Alliance Internship I: College Success Skills

Grade 12 | 2 credits

This course is offered in collaboration with the Urban Alliance, a non-profit organization with a track record of effective programming to help high school seniors' transition to college and careers. It is also a college credit required course, SDVIOO, at NOVA. Topics covered in this course include: interview skills, resume writing, professional ethics, career assessment and exploration, study skills, time management, and financial literacy. Students receive six weeks of pre-work training to prepare them to be successful in their paid, professional internships and on-going training and support throughout the year. All students are mentored at their internships. Students work 12 hours/week during the school year and 32 hours/week in the summer after graduation. Interns are paid and evaluated, with the potential to receive up to two raises over the course of the program.

ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID)

AVID is a sixth- through 12th-grade system to prepare students in the academic middle for four-year college eligibility. It has a proven track record in bringing out the best in students, and in closing the achievement gap. The AVID program includes an elective course that earns one credit.

Advancement Via Individual Determination (AVID)

Grades 9-12 | 1 elective credit

The three main components of this course are academic instruction, tutorial support and motivational activities. This course provides students with strategies to be successful in high school and to be well prepared for post-secondary opportunities. It emphasizes organizational skills, how to produce exemplary work, intellectual risk-taking, critical thinking skills, community involvement and the steps necessary to increase college access options and college success. AVID students are supported academically as they pursue Advanced Placement (AP) and other rigorous courses.

CAREER AND TECHNICAL EDUCATION (CTE)

All CTE courses apply towards elective credit, except Economics and Personal Finance.

BUSINESS AND INFORMATION TECHNOLOGY

Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, internships, co-operative education and/or the Future Business Leaders of America (FBLA). The co-operative education method is available in most full-year business courses. A participating student combines classroom instruction and a minimum of 396 hours supervised on-the-job training in an approved position with continuing supervision throughout the school year. A student may receive an additional credit for their co-operative education experience.

Computer & Keyboarding Applications

Grades 9-11 | 1 credit

Prerequisite: Must be enrolled in the International Academy

This course is designed for secondary school students to introduce them to basic computer features and functions, as well as learning proper keyboarding skills using touch keyboarding. Students will learn basic word processing and presentation software and be able to compose and produce a variety of documents that include personal, educational, and professional. Additionally, students will work on speed and accuracy as well as spelling, grammar and punctuation.

Accounting I

Grades 10-12 | 1 credit

Students explore the accounting procedures and practices required for partnerships and corporations. Units of instruction include accounts receivable, accounts payable, payroll, taxes and financial statements. Federal tax laws are emphasized for payroll preparation. An automated integrated accounting system is used to reinforce accounting procedures.

Advanced Accounting II

Grades 11-12 | 1 credit

Prerequisite: Accounting I

Students gain in-depth knowledge of the accounting procedures and practices required for corporations and financial institutions. Students develop spreadsheets to analyze and solve financial reports. An integrated accounting software program is used to reinforce accounting fundamentals. Units include inventory maintenance, long-term and short-term investments, stock investments, distribution of dividends, cost and management accounting and tax preparation. Projects include maintaining financial records for a corporation and presenting a proposal to establish a subsidiary accounting firm.

Business Cooperative Internship Grades 11-12 | 1 credit

Prerequisite: Student must be concurrently enrolled in a business course

This course allows students to apply their acquired classroom knowledge to a real world work experience. The Internship experience combines a business course with employment in a business-related field that reflects the student's current career interest, and/or provides an opportunity for students to gain valuable work experience, enhance employment skills, and develop 21st century workplace skills. This course is taken in conjunction with another business course.

Business Law

Grades 10-12 | 0.5 credit

Students examine the foundations of the American legal system and learn the rights and responsibilities of citizens. Students gain practical knowledge and life skills by exploring economic and social concepts related to laws governing business and individuals. Focus areas include contracts, consumer protection, criminal law, tort law, international law, family/domestic law, employment law and careers in the legal profession. It is suggested that students enroll in Business Law to prepare for business college programs.

Business Management

Grades 10-12 | 0.5 credit

Students explore the principles and concepts required for business ownership, planning, operations, marketing, finance and human relations. Units of instruction also include forms of business ownership, management and financial responsibilities. Problem solving and ethical decision making are integral parts of the course. It is suggested that students enroll in Business Management to prepare for business college programs.

Computer Information Systems I Grades 9-11 | 1 credit

This course is part of the State Microsoft IT Academy, which includes classroom and online learning, hands-on labs and access to hundreds of courses, books and cutting-edge resources. These resources help prepare students for Microsoft Office Specialist (MOS) certification that can help students earn college credits and enhance their resumes with credentials recognized by employers around the world. Students apply problem-solving skills to real-life situations through word processing, spreadsheets, databases, multimedia presentations, and integrated software activities. Students work individually and in groups to explore computer concepts, operating systems, networks, telecommunications, and emerging technologies. Students take the MOS certification exam.

Advanced Computer Information Systems II Grades 10-12 | 1 credit

Prerequisite: Computer Information Systems I

This course is part of the State Microsoft IT Academy, which includes classroom and online learning, hands-on labs and access to hundreds of courses, books and cutting-edge resources. These resources help prepare students for Microsoft Office Specialist (MOS) certification that can help students earn college credits and enhance their resumes with credentials recognized by employers around the world. Students apply problem-solving skills to real-life situations through advanced integrated software applications, including printed, electronic and Web publications. Students work individually and in groups to explore advanced computer maintenance activities, website development, programming, networking, emerging technology and employability skills. Projects include spreadsheets, graphics and text layout, database, word

processing and charting. Students have the opportunity to take the MOS certification exam.

Economics and Personal Finance Grades 10-12 | 1 credit

This course meets the Economics and Personal Finance graduation requirement, the virtual course requirement, and the Industry Certification requirement.

Students explore the fundamentals of microeconomics and macroeconomics to practice decision-making skills for business and personal financial management. Units include apartment contracts, mortgages, car financing, banking, life and health care insurance, real estate, retirement plans, stocks, bonds, treasury notes, annuities, mutual funds, pensions, personal loans, credit cards, educational loans, consumer rights and awareness, and federal, state and city tax assessments. As a culminating project, students prepare financial plans that include saving, investing, borrowing, risk management, and retirement and estate planning. Students take the wise Financial Literacy Certification (FLC) Exam and the CTECS Workplace Readiness Skills Assessment.

Graphic Design and Multimedia I Grades 10-12 | 1 credit

Students develop proficiency in designing and creating desktop-published projects, multimedia presentations/projects and websites, using industry-standard application software. Students apply principles of layout and design in completing projects. Students create portfolios that include resumes and a variety of desktop-published, multimedia and website projects produced in the course.

Advanced Graphic Design and Multimedia II

Grades 11-12 | 1 credit

Prerequisite: Graphic Design and Multimedia I

Students develop advanced skills for creating desktop-published, interactive multimedia and website projects. Students work with sophisticated hardware and software, applying skills to real-world projects. Classroom instruction is combined with on-the-job training in an approved position, supervised continuously throughout the school year, to broaden the student's educational experiences.

Student Help Desk

Grades 10-12 | 1 credit

Co-requisite: Computer Information Systems I, Advanced Computer Information Systems II, Dual Enrollment Networking Hardware Operations I and II, Computer and Cybersecurity Solutions, or another related CTE course

Now offering a cooperative education experience through Student Helpdesk. The role includes trouble-shooting and serving at the student-run Student Helpdesk, trouble-shooting technical issues for peers and teachers, planning and creating student training resources, and planning for the annual Digital Learning Day and Coding Week.

ACADEMY OF FINANCE (AOF)

The AOF Program is sponsored by the National Academy Foundation (NAF). Students must be accepted into the AOF Program before enrolling in the following courses. An NAF Certificate in Financial Services is awarded upon successful completion of courses.

AOF Introduction to Financial Services

Grade 10 | 1 credit

Prerequisite: Acceptance into the Academy of Finance

Students learn about the career options available in the financial services industry and develop professional, transferable skills required for successful integration into the 21st-century workplace. Students create electronic portfolios, develop career plans, explore career clusters, identify short- and long-term goals, develop interpersonal skills, apply the decision making process and demonstrate time management, technology, teamwork and communication skills. Students learn about both the nature of the careers found in a particular sector and the scope of such careers as banking, management, finance, hospitality, insurance and real estate. Students work in the Commonwealth One Federal Credit Union.

AOF Economics and Personal Finance

Grade 11 | 1 credit 1

Prerequisite: AOF Introduction to Financial Services

This course meets the Economics and Personal Finance graduation requirement, the virtual course requirement and the Industry Certification requirement.

Students develop money management skills for savings, budgeting, credit and debt management and investing, in addition to planning for future expenses including education, transportation, housing, taxes, insurance, and retirement. Students analyze insurance as risk management, conduct tax functions and examine the financial implications of an inheritance. Students research investment instruments to include stocks, bonds, mutual funds, real estate, insurance and tax-sheltering devices. For a culminating project, students prepare financial plans that include saving, investing, borrowing, risk management, and retirement and estate planning. Students take the w/ise

Financial Literacy Certification (FLC) Exam and the CTECS Workplace Readiness Skills Assessment.

Dual Enrollment AOF Introduction to Business and International Finance

Grade 12 | 1 credit

Prerequisite: AOF Economics and Personal Finance, and meet all college placement requirements

This course introduces students to the roles of the major functional areas of business and interrelationships among them. Students also learn how international finance issues impact their lives and the world. Organizational theories and techniques are examined. Economic, cultural, political and technological factors affecting business organizations are evaluated. As a culminating project, students develop detailed feasibility and business plans.

FAMILY AND CONSUMER SCIENCES

Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, internships, co-operative education and/or the Family, Career and Community Leaders of America (FCCLA). The co-operative education method is available for all full-year courses. A full-year student combines classroom instruction and a minimum of 396 hours of supervised on-the-job training in an approved position with continuing supervision throughout the school year. The student may receive an additional credit for his or her co-operative education experience.

Child Development

Grade 9 | 1 credit

This course will provide an overview of key aspects of child development (physical, psychosocial, and cognitive) from theories and research that span conception to adolescence. Students will study

theories of development, related to cognitive, motor, social, linguistic, emotional, personality, and moral development. The conditions and environments within which development takes place will be discussed, including an emphasis on those factors, which promote positive development. Students enrolled will analyze roles and responsibilities of child care professionals and related fields; and evaluate practices that maximize human growth and development. Students will also focus on how these professionals meet the needs for healthy growth and development of a child.

Introduction to Early Childhood Education and Services I

Grades 10-12 | 1 credit

This course is for students who are interested in the Early Childhood Education profession and/or want to further their education while pursuing a related career in the field. The course introduces students to the child development theories and principles, current early childhood education issues, the role of the teacher working in special education programs, assessment/observation skills, and developmentally appropriate curricula and lessons. The program currently has a partnership with the Campagna Center of Alexandria, Virginia which is located on campus and services families in the community. Students also have the opportunity to work in Alexandria City Public Schools daycare classrooms. Students focus on career development and careers related to early childhood professionals through hands-on exploration, and special projects groups. Through combination of classroom instruction with an opportunity for service learning with our on-site preschool laboratory, students work with young children from the ages of six weeks to five-years old during the second quarter of this year long course. Students are required to have the updated tuberculosis (TB) shot, complete the

CPR and First Aid training provided on-site. Fees are associated with this course.

Dual Enrollment Advanced Early Childhood Education and Services II

Grades 11-12 | 2 credits

Prerequisite: Introduction to Early Childhood Education and Services I, and must meet all college placement requirements

The primary focus of this class is to complete steps to apply for the Child Development Associate (CDA) credential through hands-on, on site early childhood education experience(s). In depth concentration is on education and training and entrepreneurial opportunities, critical thinking and practical problem solving within the field of early childhood education. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. Students also have the opportunity to work in Alexandria City Public Schools daycare classrooms. Student experiences include but are not limited to: designing lesson plans that are developmentally appropriate and meet the needs and interest of all students; child monitoring and supervision; record keeping; and referral procedures. Students also participate in weekly lectures, peer observations, and presentations from guest speakers. The course prepares students for the transition from school to work and is recommended for those with a genuine interest in working with young children. A positive attitude, a good work ethic (in school and on the job), and good attendance are required. Students are required to have their updated tuberculosis (TB) shot, complete CPR and First Aid training on site, background check for working at their training stations. Students are required to take the National Occupational Competency Testing Institute (NOCTI) industry certification.

Students may receive three college credits with the successful passing rate of this certification test. Fees are associated with this course.

Dual Enrollment Teachers for Tomorrow

Grades 11-12 | 1 credit

Prerequisite: New students must apply and be accepted for this course and meet the state Virginia Teachers for Tomorrow program and college requirements.

Virginia Teachers for Tomorrow (VTfT) is a state program designed to foster student interest, understanding, and appreciation of the teaching profession and allows secondary students to explore careers in education. Students build a foundation for teaching; learn the history, structure and governance of teaching; apply professional teaching techniques in the VTfT classroom and field experience; and reflect on their teaching experiences. Additional educational leadership opportunities are offered through the student organization, Educators Rising. Students will be required to participate in an off-site supervised internship. This course can be a completer sequence with Introduction to Early Childhood Education and Services I.

Introduction to Culinary Arts I

Grade 11 | 1 credit

This course prepares students for entry-level employment in the hospitality/food service industry. Students are taught basic professional cooking skills, baking, foodservice sanitation, kitchen safety, catering, table service and menu planning. Students also acquire business skills for successful employment and develop and experience personal growth through goal setting and career development activities. Fees are associated with this course.

Culinary Arts II

Grade 12 | 2 credits

Prerequisite: Introduction to Culinary Arts I

Students receive instruction in classical cooking methods (broiling, sautéing, deep fat frying, steaming, poaching, roasting) and preparation of special dishes, ethnic cookery, U.S. regional cookery, soups, sauces and salads. Students also receive instruction in basic baking of yeast dough products, pastry and simple cake decorating. Students take the ServSafe Food Safety and NOCTI Cook II industry certifications upon completion of this course. Fees are associated with this course.

HEALTH AND MEDICAL SCIENCES

Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, internships, clinical experiences and/or Health Occupations Student Association (HOSA). A student may receive an additional credit for their co-operative education experience.

Students also have the opportunity to apply to be in the Governor's Health Sciences Academy at T.C. Williams, with courses offered in partnership with The George Washington School of Medicine and Health Science. See page 41 for more information.

Introduction to Health and Medical Sciences

Grades 10-11 | 1 credit

This course introduces the student to a variety of health care careers and develops basic skills required in all health and medical sciences. Topics include physical therapy, respiratory therapy, dental technician, pharmacist, pharmacy technician, medical assistant, EKG technician, physician and more. Students learn about human needs, theory, anatomy and

physiology, medical terminology, how to measure vital signs, job skills for success and how to conduct a career search. Field trips include visits to local hospitals and/or other medical related locations. Students may also earn First Aid and CPS certification. Fees are associated with this course.

Nurse Aide II

Grade 12 | 2 credits

Prerequisite: Nurse Aide I

Nurse Aide II is the second year of an occupational preparation course, emphasizing advanced skill training in areas such as catheter care, range of motion, bowel and bladder training, care of the dying, selected procedures for maternal and infant care, and admission and discharge procedures. Students learn diseases and body systems as related to advanced clinical care of the acute medical-surgical patient, the chronically ill, and the elderly. On-the-job instruction in a licensed nursing home is part of the course. Upon completion of the nurse aide program, the student is eligible to take the nurse aide certification exam that leads to employment as a certified nurse aide in hospitals and nursing homes. Students are required to complete required clinical hours needed for their licensing exam. During their clinical experience students will be required to be dressed in uniform and adhere to grooming standards. Fees are associated with this course.

Dual Enrollment Medical Terminology

Grade 11-12 | 1 credit

Prerequisite: Introduction to Health and Medical Sciences and meet all college entrance requirements

The Medical Terminology course is designed to help students learn common medical terms essential for safe patient care. Topics are presented in logical order, beginning with each body system's anatomy and physiology and progressing

through pathology laboratory tests and clinical procedures, therapeutic interventions, and pharmacology. Students learn concepts, terms, and abbreviations for each topic. This course is offered for dual enrollment credit through NOVA and all students must take this course for college credit.

Surgical Technologist I

Grade 12 | 3 credits

Prerequisite: Dual Enrollment

Introduction to Health and Medical Sciences and Dual Enrollment Medical Terminology

This comprehensive elective program offers one school year (nine months) of pre-clinical instruction followed by nine months of clinical instruction after high school graduation. Completion of the 18-month program prepares the graduates to sit for the Tech in Surgery-Certified (TS-C) exam and possible employment as surgical technicians. Students acquire knowledge and assisting-level skills to function in association with licensed nurses and surgeons/physicians, providing the best possible care of the surgical patient. Instruction emphasizes surgical procedures, instruments, sterile processing, cleanliness, asepsis, safety and efficiency in the operating room. Fees are associated with this course.

Dual Enrollment Introduction to Health and Medical Sciences

Grade 9 | 1 credit

Prerequisite: Accepted to the Governor's Health Sciences Academy and completed the Summer Bridge College Preparatory Program

This is the introductory course for students in the Governor's Health Sciences Academy and is offered in partnership with The George Washington University School of Medicine and Health Sciences for college credit. This course introduces the student to a variety of health care careers and develops basic skills required in all health and medical Sciences. Topics

include: physical therapy, respiratory therapy, dental technician, pharmacist, pharmacy technician, medical assistant, EKG technician, physician and more. Students learn about human needs, theory, anatomy and physiology, medical terminology, how to measure vital signs, job skills for success and how to conduct a career search. Field trips include visits to GW, local hospitals and/or other medical related locations. Students may also earn First Aid and CPS certification. Fees are associated with this course.

Dual Enrollment Biotechnology Foundations in Health and Medical Sciences

Grade 11 | 1 credit

Prerequisite: Dual Enrollment Medical Terminology with Anatomy and Physiology and part of the Governor's Health Sciences Academy

This is the first pathway course in the Biotechnology & Health Informatics sequence. The course focuses on various techniques that are used to modify living organisms, or parts of organisms, to improve plants and animals, and the development of microorganisms for specific purposes. Student activities range from bioprocessing and DNA analysis, to medicine, biomechanical systems, and the environment. Students gain insight and understanding about biotechnology career fields. Students will have the opportunity to partner with The George Washington University for special projects.

Dual Enrollment Emergency Medical Technician I & II

Grade 11 | 2 credits

Prerequisite: Dual Enrollment Medical Terminology with Anatomy and Physiology and part of the Governor's Health Sciences Academy

This is the first course in the Emergency Medical Science Pathway and represents the National and Virginia Emergency Medical Services (EMS) Educational Standards. Students apply and expand

the fundamental anatomy, physiology, and medical terminology learned previously while demonstrating skills in assessing and managing patient care, including assessing the scene and understanding shock, resuscitation, and trauma. Students build on their knowledge and foundation skills for providing basic life support by focusing on the areas of EMS operation, medical emergencies, and management of special patient populations. Students must complete a minimum of 85% of the didactic and lab aspects of the course, per 12VAC5-21-1501 in the Code of Virginia. Supervised field experience that includes at least 10 patient contacts outside of school hours is required. Successful completion of all course requirements and instructor endorsement may lead to eligibility to take the Virginia State Psychomotor Exam and the National Registry of Emergency Medical Technicians (NREMT) cognitive exam. Students must meet the requirements of the Functional Position Description for the Basic Life Support Provider (refer to EM.TR.14B and 12 VAC5-31-1501 in the Code of Virginia). Students will be required to dress in uniform and fees are associated with this course.

Dual Enrollment Nurse Aide I **Grade 11 | 2 credits**

Prerequisite: Dual Enrollment Medical Terminology with Anatomy and Physiology and part of the Governor's Health Sciences Academy

This is the first year of a two year occupational preparation program beginning in the 11th-grade level. The curriculum emphasizes the study of nursing occupations as related to the health care system. Students study normal growth and development, simple body structure and function, and medical terminology and are introduced to microbes and disease. They received elementary skill training in patient-nursing assistant relationships; taking and recording of vital signs; car-

diopulmonary resuscitation; and bathing, feeding, dressing, and transporting of patients in hospitals in hospitals and nursing homes. Students have the opportunity to earn the CPR certification. Students may take field trips to nursing homes and hospitals. This course prepares students for Nurse Aide II which includes the clinical experiences required to take the National Nurse Aide Assessment (NNAAP). Fees are associated with this course.

Dual Enrollment Medical Laboratory Technology I **Grade 11 | 2 credits**

Prerequisite: Dual Enrollment Medical Terminology with Anatomy and Physiology and part of the Governor's Health Sciences Academy

This is the first pathway course in the medical laboratory sequence. Students gain foundational knowledge and skills appropriate for a variety of medical-related career paths in the field of medical technology. They are introduced to diagnostic and therapeutic laboratory procedures that support medical research and practice, and investigate safety, quality assurance, and ethical concerns associated with the field of medical technology. Students may have the opportunity to partner with The George Washington University and participate in a summer program hosted at their Loudoun campus each summer.

Dual Enrollment Medical Terminology with Anatomy and Physiology **Grade 10 | 1 credit**

Prerequisite: Dual Enrollment Introduction to Health and Medical Sciences and part of the Governor's Health Sciences Academy

This is the second foundation course for students in the Governor's Health Sciences Academy. It is designed to help students learn common medical terms and anatomy essential for upper level academy courses. Topics are presented in logical

order beginning with each body system's anatomy and physiology and progressing through pathology, laboratory tests and clinical procedures, therapeutic interventions, and pharmacology. Students learn concepts, terms, and abbreviations for each topic.

Dual Enrollment Pharmacy Technician I

Grade 11 | 1 credit

Prerequisite: Dual Enrollment Medical Terminology with Anatomy and Physiology and part of the Governor's Health Sciences Academy

This is the first pathway course in the pharmacy sequence and is designed to provide students with the basic skills and knowledge to begin work as a pharmacy technician. The two-year coursework will fulfill the requirements of the Board of Pharmacy and prepare students to take either the state examination or the national examination administered by the Pharmacy Technician Certification Board. Trained, experienced pharmacy technicians who can demonstrate the right skills and knowledge should be able to pursue many exciting and respected career options or postsecondary study in the pharmacy field.

Dual Enrollment Sports Medicine I

Grade 11 | 1 credit

Prerequisite: Dual Enrollment Medical Terminology with Anatomy and Physiology and part of the Governor's Health Sciences Academy

This is the first pathway course in the sports medicine sequence; students may earn a certification in First Aid/CPR/AED. The course expands students' knowledge on topics such as human anatomy and physiology and medical terminology and introduces the topics of nutrition, biomechanics, injuries and illnesses, and legal and ethical issues in sports medicine. Students also examine prospective careers in the sports medi-

cine field. Upon successful completion of this course, students are eligible to take Dual Enrollment Sports Medicine II and pursue certification as a personal trainer. Students may have the opportunity to shadow and assist the ACPS athletic trainers at various events during the school year.

Dual Enrollment Sterile Processing

Grade 11 | 1 credit

Prerequisite: Dual Enrollment Medical Terminology with Anatomy and Physiology and part of the Governor's Health Sciences Academy

This is the first pathway course in the surgical technology sequence; students acquire knowledge of sterile processes and clean, disinfect, and distribute sterilized instruments and equipment in health-care facilities. Student instruction focuses on work in a sterile processing department and central service location, working as a team to maintain sterilization and storage, learning about microbiology and infection control, and apply principles and practices of sterile processing and decontamination. Students may choose to complete a 400 hour externship, which requires a minimum of 200 hours completion by high school graduation, after which students will be able to take the international certification for sterile processing technicians and hold a provisional certification. Full certification is awarded after completing the full 400 hours after graduation.

JUNIOR RESERVE OFFICERS' TRAINING CORPS (JROTC)

JROTC

Grades 9-12 | 1-4 credits

The Junior Reserve Officers' Training Corps (JROTC) program prepares high school students in grades 9 through 12 for responsible leadership roles while making them aware of their rights, re-

sponsibilities and privileges as American citizens. The Leadership Education and Training (LET) program consists of four years of instruction with a maximum of 108 core hours and 72 optional hours per year. One credit is awarded for each academic year. Core courses include Techniques of Communications, Leadership Lab, Map Reading, History, Citizenship, Drug and Alcohol Abuse Prevention and Cadet Challenge (physical training). Fees are associated with this course.

MARKETING

Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, internships, co-operative education and/or DECA. The co-operative education method is available for all full-year business courses. A participating student combines classroom instruction and a minimum of 396 supervised on-the-job training hours in an approved position with continuing supervision throughout the school year. The student may receive an additional credit for his or her co-operative education experience.

Marketing I

Grades 11-12 | 1 credit

Students examine activities in marketing and business importance for success in marketing employment and post-secondary education. Students learn how products are developed, branded and sold to businesses and consumers. Students analyze industry trends and gain hands-on experience in the marketing of goods, services and ideas. Topics include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues and the impact of technology on the marketplace.

Advanced Marketing II

Grades 11-12 | 1 credit

Prerequisite: Any Marketing course

This course provides more in-depth instruction into the field of marketing. Students participate in supervisory and management activities focusing on the marketing mix, purchasing, financing, human resources, global marketing, pricing and emerging technologies. Students prepare for advancement in marketing careers and post-secondary education. Students take the National Retail Federation Customer Service or Sales Exam.

Marketing Cooperative Internship

Grades 11-12 | 1 credit

Prerequisite: Student must be concurrently enrolled in a marketing course.

This course allows students to apply their acquired classroom knowledge to a real world work experience. The internship experience combines a marketing course with employment in a marketing-related field that reflects the student's current career interest, and/or provides an opportunity for students to gain valuable work experience, enhance employment skills, and develop 21st century workplace skills. This course is taken in conjunction with another marketing course.

Education for Employment I

Grade 12 | 0.5 credit

This course teaches students to make informed career and continuing education choices as they transition from school, gain technical skills, and adapt to the workplace. Students are taught ethical behaviors and career research, job acquisition, workplace communication, self-awareness, self-advocacy, customer-service, and life skills. Students will study the Virginia Workplace Readiness Skills in depth and take the CTECS Workplace Readiness Skills Assessment.

Education for Employment II**Grade 12 | 0.5 credit**

This course teaches students to make informed career and continuing education choices as they transition from school, gain technical skills, and adapt to the workplace. Students are taught ethical behaviors and career research, job acquisition, workplace communication, self awareness, self advocacy, customer service, and life skills. Students will study the Virginia Workplace Readiness Skills in depth and take the CTECS Workplace Readiness Skills Assessment.

Fashion Marketing I**Grades 10-12 | 1 credit**

This is a specialized course for students with a career interest in apparel and accessories marketing and merchandising. Students learn skills unique to employment in the apparel and accessories field in such areas as personal selling, sales promotion, purchasing, physical distribution, market planning and product/service technology.

Advanced Fashion Marketing II**Grades 11-12 | 1 credit**

Prerequisite: Fashion Marketing I

Students develop advanced skills unique to fashion marketing and advanced general marketing skills applied to the apparel and accessories industry. Students will study professional selling, sales promotion and buying, and merchandising and market research. Product service technology and supervision are emphasized. Students prepare for advancement in marketing careers and post-secondary education.

Introduction to Fashion Careers**Grades 9-10 | 1 credit**

Students in this course focus on identifying and exploring the individual careers within the apparel, accessory, and textile design, manufacturing, and merchandising industry. Units of study include the relationships that exists among all

areas of the clothing industry; related global and economic issues; apparel, accessory, and textile technology; exploration of careers, including entrepreneurial opportunities in related areas; and the skills and personal characteristics necessary for success in careers in the apparel, accessory, and textile design, manufacturing, and marketing industry.

Hospitality and Tourism Marketing**Grades 10-12 | 1 credit**

This course examines the components of the hospitality and tourism industry, including attractions, lodging, transportation, and food and beverage. Other topics include the history, political, social, and cultural impacts hospitality and tourism have had on local, state, and global environments. Students will develop competencies in the areas of communication, customer service, marketing, industry technology, economics, and management functions, and will be provided with opportunities for hands-on, real-world applications. Regional workforce investment boards will provide speaker to discuss local opportunities in these areas.

Sports and Entertainment Marketing**Grades 10-12 | 1 credit**

This is a specialized course for students with a career interest in the sports or entertainment industries. In addition to learning basic marketing concepts, the course provides students with the knowledge and skills unique to employment in the fields of sports and entertainment marketing in such areas as sponsorship, endorsements, event planning and promotion. Students develop and implement a school-related marketing activity. Students also obtain information regarding career opportunities in the sports and entertainment industries.

Sports and Entertainment Management**Grades 11-12 | 1 credit**

Prerequisite: Sports and Entertainment Marketing

Students will build on prior knowledge of sports, entertainment, and recreation marketing. This course focuses on the principles of management and planning supported by research, financial, economic, ethical, and legal concepts. Students will be able to plan and execute an event, established a sports, entertainment, or recreation marketing products/business, and develop a career plan. Academic skills (mathematics, science, English, and history/social science) related to the content are a part of this course. Computer/technology applications supporting the course are studied.

Dual Enrollment**Entrepreneurship: Business Ownership and Management****Grades 11-12 | 1 credit**

Prerequisite: Students must meet all college placement requirements.

This course is offered in partnership with the National Foundation for Teaching Entrepreneurship (NFTE). Entrepreneurship is a specialized course for students with an interest in one day owning and managing their own businesses. The course focuses on the development of a business plan, which requires determination of the type of business organization, legal and accounting considerations, location selection, financing and marketing. Students work with professional mentors to develop their business plans and have the opportunity to present their business plans in local, regional and national competitions.

Dual Enrollment Advanced Entrepreneurship**Grade 12 | 1 credit**

Prerequisite: Dual Enrollment

Entrepreneurship: Business Ownership

and Management, and meet all college placement requirements

This course is designed for students who wish to concentrate on advanced strategies for entrepreneurship. The focus of the course is on development of a business plan and small business management. Students will establish, market, and maintain a business. Students will be responsible for maintaining, marketing and growing the T.C. Williams High School Store.

TECHNOLOGY EDUCATION

Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, internships and/or student organizations such as Skills USA or the Technology Student Association (TSA). A student may receive an additional credit for their co-operative education experience.

Aerospace Technology I

Grades 10-11 | 1 credit

This course offers students an introduction to flight, space travel and supporting technologies. Students use a hands-on approach to study concepts including the history of aviation, aerodynamics, aircraft components, flight conditions, airport and flight operations, space, rocketry, and the aviation and space industries.

Aerospace Technology II

Grades 11-12 | 1 credit

This course provides an advanced exploration of flight, space travel, and supporting technologies through a practical approach centered around problem solving. Students explore concepts in aircraft operations; aircraft design, flight safety, and maintenance; airport infrastructure; and small unmanned aircraft systems (sUAS).

Biotechnology and Forensics Foundations

Grades 11-12 | 1 credit

Prerequisites: Algebra I, Biology I and Chemistry I

This course focuses on various techniques that are used to modify living organisms, or parts of organisms, to improve plants and animals, and the development of microorganisms for specific purposes. Student activities range from bioprocessing and DNA analysis, to medicine, biomechanical systems and the environment. Students gain insight and understanding about biotechnology career fields.

Technical Drawing and Design I

Grades 9-12 | 0.5 credit

In this foundation course, students learn the basic language of technical design using AutoCAD, while they design, sketch and make technical drawings, illustrations, models or prototypes of real design problems. Students develop spatial ability as they apply mathematical concepts to visual representations. This course is especially recommended for future engineering and architecture students.

Advanced Architectural Drawing and Design II

Grades 11-12 | 1 credit

Prerequisite: Technical Drawing and Design I

Students explore architectural design foundations and increase understanding of working drawings, construction techniques and codes regulating building design. They learn the design process and apply the elements and principles of design to architectural projects. Through producing models and illustrations of all aspects of a building, students create architectural design solutions using Computer Aided Drafting and Design (CADD). The course sequence focuses on duties and tasks performed by professionals in architecture, as well as pre-employment and employment skills.

Advanced Engineering Drawing and Design II

Grades 11-12 | 1 credit

Prerequisite: Technical Drawing and Design I

Students explore the engineering design process and use a graphic language for product design, technical illustration, assembly, patent and structural drawings. Students use computers, calculators, and descriptive geometry and adhere to established standards to solve design problems. Throughout the course, students hold seminars, meet engineers and tour technical design firms to learn about the benefits of the course on their future studies and careers.

Electronics Systems I

Grades 10-12 | 1 credit

Designed for students who wish to pursue careers in computer technology, electronic engineering or a related field, this course introduces electronic terms and components. Using algebraic formulas, students solve electronic circuit problems. They compare AC voltages to DC voltages and component reaction in each, use common electronic test equipment, and learn soldering techniques, circuit requirements and problem-solving skills. Students develop skills by constructing sample circuits, as well as by building several projects from the circuit board to completion. This course may be used as an introductory course to computer engineering, computer science or computer technology maintenance and repair.

Electronics Systems II

Grades 11-12 | 1 credit

Prerequisite: Electronics Systems I

This course places greater emphasis on semiconductors/solid state components. Students study the effects of amplifiers (transistors), SCRs, digital circuits, voltage dividers, power supplies and many other modern electronic devices. Students are exposed to shop techniques and in-depth use of test equipment. Addi-

tionally, students are trained in coax, category 5 and twisted pair block wire termination. Wire termination and testing certification through Lucent Technology is an option upon successful completion of this program. Students take the NOCTI Electronics Technology exam.

Engineering Explorations I **Grades 9-11 | 1 credit**

Students examine technology and engineering fundamentals in relation to solving real-world problems. Students investigate engineering history, including major engineering achievements, and they examine the principle engineering specialty fields and their related careers. Students practice engineering fundamentals using mathematical and scientific concepts, and they apply the engineering design process through participation in hands-on engineering projects. Students communicate project-related information through team-based presentations, proposals and technical reports.

Engineering Analysis and Applications II (Robotics) **Grades 10-12 | 1 credit**

Prerequisite: Engineering Explorations I

This is the second of a possible four-course pathway that allows students to examine systems, the interaction of technology and society, ethics in a technological world and the fundamentals of modeling while applying the engineering design process to areas of the design world. Students participate in hands-on projects in a laboratory setting as they communicate information through team-based presentations, proposals and technical reports.

Dual Enrollment Introduction to Engineering **Grades 11-12 | 1 credit**

Prerequisite: Placement into college level Calculus and English 111

This introductory Engineering course offered through NOVA provides students with at least 2 college credits. It intro-

duces the engineering profession, professional concepts, ethics, and responsibility. Reviews hand calculators, number systems, and unit conversions. Topics include: the personal computer, operating systems and processing, engineering problem solving and graphic techniques. Students will be expected to complete college level engineering assignments.

Sustainability and Renewable Technologies

Grades 10-12 | 1 credit

This course explores issues that affect global citizens in the areas of economics, culture and the environment. The course introduces students to the historic, economic, political, environmental and cultural issues that impact the global community and its future. Students address issues affecting the health of our environment and explore solutions offered by sustainable agriculture, energy-efficient building design and renewable energy sources.

TRADE AND INDUSTRIAL EDUCATION

Student leadership skills may be enhanced by participation in school-based or virtual enterprises, job shadowing, internships and/or Skills USA. A student may receive an additional credit for their co-operative education experience.

Automotive Technology I **Grades 10-11 | 1 credit**

Due to recent technological advancements in automobiles, it is crucial that technicians are prepared with the state-of-the-art technology and training. This course represents a large sampling of the competencies from the National Automotive Technician's Education Foundation's (CNATEF's) Maintenance and Light Repair accredited program. Students are provided instruction in all systems as they prepare for the ASE (Automotive Service

Excellence) Student Certification, "the first step in building a career as a service professional in the automotive industry. There are fees associated with this course.

Dual Enrollment Automotive Technology II **Grades 11-12 | 2 credits**

Prerequisites: Automotive Technology I

This course represents the advanced competencies from National Automotive Technician's Education Foundations (CNATEF's) Maintenance and Light Repair accredited program without redundancy from the prerequisite course. Students are provided instruction in all systems as they prepare for the ASE (Automotive Service Excellence) Student Certification, "the first step in building a career as a service professional in the automotive industry." Successful completion of this course will result in program completion and prepare students to pass the equivalent NATEF student exam and ultimately attain certification. There are fees associated with this course. Students may earn college credits through dual enrollment with Northern Virginia Community College.

Dual Enrollment Automotive Technology III **Grade 12 | 2 credits**

Prerequisite: Dual Enrollment Automotive Technology II

This course is available for students who have completed the first two courses of Automotive Technology and attained program-completed status. The tasks for this capstone course represent the middle-tier standards of the National Automotive Technician's Education Foundation's (NATEF's) Automobile Service Technology accredited program. Students are provided the instructions in all systems as they prepare for the ASE (Automotive Service Excellence) Student Certification, "the first step in building a career as a service professional in the automotive industry." There are fees as-

sociated with this course. Students may earn college credits through dual enrollment with Northern Virginia Community College.

Commercial Photography I

Grade 11 | 1 credit

The ability to apply principles of visual literacy to produce visual content gives students an advantage in today's global, multimedia society. Students are taught industry-relevant technical skills and have the opportunity to work with a variety of technology, including digital cameras, design software and editing tools to stage, shoot, process, print and present professional-grade images. In addition, students evaluate and critique photographic work and investigate the history of photography, including (optionally) the fundamentals of film and darkroom development.

Commercial Photography II

Grades 11-12 | 2 credits

Prerequisite: Commercial Photography I

The ability to apply principles of visual literacy to produce visual content gives students an advantage in today's global, multimedia society. In this final year of Commercial Photography, students are taught industry-relevant technical skills and have the opportunity to work with a variety of technology, including digital cameras, lighting, design software and editing tools to stage, shoot, process, print and present professional-grade images while developing portfolios for related careers. Students may have the opportunity to practice the skills learned in class at off-site locations.

Cybersecurity Fundamentals

Grades 9-11 | 1 credit

Cybersecurity affects every individual, organization, and nation. This course focuses on the evolving and all-pervasive technological environment with an emphasis on securing personal, organizational, and national information. Stu-

dents will be introduced to the principles of cybersecurity, explore emerging technologies, examine threats and protective measures, and investigate the diverse high-skill, high wage, and high demand career opportunities in the field of cybersecurity.

Dual Enrollment Networking Hardware Operations I and II

Grades 11-12 | 1 credit

Prerequisite: Cybersecurity Fundamentals or Electronics Systems I and meet all college entrance requirements

This two-semester course (0.5 credits per semester) covers general networking theory and the basics of routing, switching and advanced technologies within the context of environments ranging from home and small-office networks to more complex enterprise models. The curriculum helps students prepare for the industry-standard Cisco Certified Network Associate (CCNA) certification exams. T.C. Williams offers the first two courses of CCNA Discovery to prepare students for the Cisco CCENT certification for entry network technicians, an optional first step toward earning the CCNA certification. CCNA Discovery is delivered as an independent curriculum course of study. The curriculum consists of two courses delivered sequentially. Each course includes a troubleshooting chapter, and advanced technologies (voice, video, wireless and security) are introduced throughout the curriculum. Students take the NOCTI Computer Networking exams.

Cosmetology I

Grades 10-11 | 3 credits

This is the first year of a two-year sequential program. Students study hair, skin and nails and their related care. Students are grounded in theory as they prepare to practice procedures in a clinical lab setting or classroom, using mannequins for manipulative skill practice. The course emphasizes personal safety, professionalism

and sanitation of equipment and facilities. Students develop skills in shampooing and conditioning as well as styling and cutting hair. They also receive an introduction to manicure and pedicure procedures. Fees are associated with this course.

Cosmetology II

Grades 11-12 | 3 credits

Prerequisite: Cosmetology I

This is the second year of a two-year program. Students enhance their skills, knowledge and experience, and meet 1,080 hours of classroom experience required to qualify for a cosmetology license. Students study hair, skin and nails and their related care. Students are grounded in theory as they prepare to practice procedures in a clinical lab setting or classroom, using mannequins for manipulative skill practice. The course emphasizes personal safety, professionalism and sanitation of equipment and facilities. Students develop skills in shampooing and conditioning as well as styling and cutting hair. This program prepares students for the Virginia State Board of Cosmetology Examination. Fees are associated with this course.

Criminal Justice I

Grade 11 | 1 credit

This course prepares students for entry-level employment in the criminal justice system as well as for entrance into an institution of higher learning in the related fields of criminal justice, political science and law. Specific areas of training include investigation, security training, communications, court procedures and corrections.

Criminal Justice II

Grade 12 | 2 credits

Prerequisite: Criminal Justice I

This second-level course allows students to understand the rule of law, explore policing, investigate crime scenes, apply criminal justice communication skills and explore the corrections component

of the criminal justice services system. Students learn the principles, techniques and practices for pursuing careers within the criminal justice services system.

Television and Media Production I **Grades 9-11 | 1 credit**

In this course, students explore video technology and examine television as information media. Students learn the basic principles of video production, media literacy and legal aspects through classroom discussions, video screenings and actual hands-on activities. As they work through the production process (pre-production, production, post-production), students learn techniques in videography, editing, audio production, scriptwriting and on-camera performance. Students also gain experience in computer graphics, special effects applications and other techniques related to video production.

Dual Enrollment Television and Media Production II

Grades 10-12 | 2 credits

Prerequisite: Television and Media Production I and meet all college entrance requirements

Students continue to master the phases of the production process and focus on the television studio and new media applications of video production skills. They learn multi-camera studio set up for live-to-tape productions and gain experience in the operation of studio and control room equipment at the on-site television studio. In addition, students explore occupational opportunities in the areas of video, television and new media as well as internships, apprenticeships and post-secondary prospects. Students must maintain a C or better average in this course to be dual enrolled at the college. Students who do not maintain a C average at the end of the semester will be moved to a non-college level course. Students may have the opportunity to practice the skills learned in class at off-site locations.

Television and Media Production III

Grades 11-12 | 1 credit

Prerequisite: Dual Enrollment Television and Media Production II and meet all college entrance requirements

This course serves as the capstone course of the TV Production sequence and functions as a small production unit where students write, produce and distribute a variety of programs proposed by ACPS and nonprofit community agencies. Projects produced in this class are used for portfolio development and are televised throughout Alexandria on ACPS-TV. Through the use of individual and team-based projects, students experience all phases of production including client networking, project development, budgeting, scheduling, post-production of both picture and sound, and finally, presentation and distribution of the product. Students must maintain a C or better average in this course to be dual enrolled at the college. Students who do not maintain a C average at the end of the semester will be moved to a non-college level course. Students may have the opportunity to practice the skills learned in class at off-site locations.

ENGLISH

Standards of Learning (SOL) tests in reading/literature and writing are administered to all 11th-grade students. Passing scores on these tests result in two verified credits in English.

ENGLISH CORE COURSES

English 9

Grade 9 | 1 credit

This course presents a correlation of world history, world literature and the humanities. Students develop critical thinking skills, acquire historical knowledge and understanding, analyze

world literature from the ancient time period to the 16th century and compare it to modern world literature, and describe how historical events and political thinking influenced representative works from each era studied. Students also write interpretive papers to demonstrate knowledge of specific subjects and proficiency in composition skills. Additionally, students develop competency in grammar, research (including the use of technology), vocabulary, public speaking and test-taking skills.

Honors English 9

Grade 9 | 1 credit

This open enrollment Honors English course requires students to apply advanced levels of written and spoken communication as well as formal and informal discourse strategies required for college preparation work. This course analyzes world literature from early civilizations to the 16th century, comparing classical texts to examples from modern world literature. Students learn how historical events and political thinking influenced literature, as exemplified by major writers of various literary genres. Students develop a range of essay types (narrative, expository, persuasive) with emphasis on writing suitable for publication. They write essays that evaluate the merits of various components of literary works, including style, mood and significance of theme in literature. A major focus throughout the year is comparative text analysis, discerning areas of similarity and difference as well as universal patterns in world literature.

English 10

Grade 10 | 1 credit

Continuing the process that began in ninth grade, students further explore the association between world history and world literature. Students read and analyze literary works from the 16th century to the present, examining the influence of historical events and eras on literature.

Students develop skill in literary analysis through class discussions, various forms of writing and other activities, addressing similarities and differences of literary structures, images, themes and archetypes across many cultures and historical periods. Students read critically both literary excerpts and full texts, and strengthen oral language skills, through participation in and peer evaluation of individual and small-group activities. For in-class and out-of-class writing assignments, students generate and organize ideas, develop drafts, evaluate the clarity and accuracy of the writing and make revisions as appropriate. Students also continue to develop research strategies through direct instruction and the completion of research activities that require students to locate information using technology, verify the accuracy of the information, confirm its relevance to a specific topic and purpose and select the information to prepare a presentation of the research findings.

Honors English 10

Grade 10 | 1 credit

Students enrolling in this Honors course are advised to have taken the English 9 course and to have earned a final grade of B or better. As in the standard offering of English 10, students enrolled in this Honors course read and analyze literary works from the 16th century to the present, focusing on the study of world literature as influenced by the historical events and eras of the past four centuries. In addition, students in the Honors course pursue the required readings in greater breadth and depth. Students also read additional complete literary works, perform more extended written and oral critical analyses, and practice writing in the forms and styles of the studied authors.

English 11: Survey of American Literature

Grade 11 | 1 credit

Students investigate and compare the themes, viewpoints and techniques of American poets, playwrights and prose writers from the founding of this country to the present day. Through writings and projects that extend from the literature study, students develop composition skills, vocabulary, research strategies and oral presentation ability.

Honors English 11: Survey of American Literature

Grade 11 | 1 credit

Entry into this Honors-level course is open to any student willing to complete the required assignments. Students are advised to have taken English 10 and to have earned a B or better. Focusing on a chronological study of American Literature, this course strives to make students aware of the relationship between literary works and the conventions and fads in American civilization and intellectual history. Writing skills, critical thinking skills and vocabulary are stressed through the development of analytical essays.

English 12: British and World Literature

Grade 12 | 1 credit

In this course, students examine the development of all genres of British and world literature, as well as the writers who created them, from the Anglo-Saxon period to the 20th century. Study focuses on British literature but includes many multicultural texts. The course emphasizes vocabulary development and experiences with various kinds of written composition.

Honors English 12

Grade 12 | 1 credit

Entry into this honors-level course is open to any student willing to complete the required assignments. Students are advised to have taken English 11 and

to have earned a B or better. Students enrolled in this honors course will read and analyze fiction, nonfiction, poetry, drama and creative nonfiction works with an emphasis on modern British, American and world literature. This college preparatory course will culminate with a literary investigation seminar project and presentation to an audience that emphasizes the independent critical reading, writing and inquiry skills necessary for college success.

AP English Language and Composition

Grades 11-12 | 1 credit

Entry into this course is available to any student willing to complete the required assignments. Students are strongly advised to have taken ninth-and tenth-grade Honors English and to have earned a B or better. Students who enroll in AP courses must take the end-of-course AP exam. The cost of these exams is paid by ACPS.

The AP English Language and Composition course is the equivalent of an introductory college writing course. Its purpose is to enable students to understand complex texts and to write prose of sufficient richness and complexity to communicate effectively with mature readers. Students must have an above-average aptitude for writing effectively across the curriculum. Emphasis on expository, analytical and argumentative writing as well as personal and reflective writing heightens students' awareness of their composing processes and the way they explore ideas, reconsider strategies and revise their work. Students write a variety of papers, including researched argument papers, using information synthesized from complex nonfiction and fiction, primarily from American literature. Vocabulary study, writing, and grammar study development help students develop stylistic maturity.

AP English Literature and Composition

Grade 12 | 1 credit

Entry into this course is available to any student willing to complete the required assignments. Students are advised to have taken 9th, 10th, and 11th grade English Honors or DE or AP English and to have earned a B or better in these courses. Students who enroll in AP courses must take the end-of-course AP exam. The cost of these exams is paid by ACPS. The AP English Literature and Composition course is the equivalent of an entry-level college English course. Students must have an above-average aptitude for reading and interpreting literature and the motivation to complete the extensive and intensive readings. The course builds writing skills, develops dynamics of group discussion and concentrates on literary analysis, including research papers synthesizing information derived from fiction, poetry, and drama, from world literary traditions.

Dual Enrollment College Composition 11

Grade 11 | 1 credit

Prerequisite: Meets college entrance requirements

This is a two-semester dual enrollment course offered through NOVA. Students who successfully complete this course earn six college credits in English Composition. Students develop writing ability for study, work and other areas of writing based on experience, observation, research and reading of selected literature. This course guides students in learning writing as a process, understanding the audience and purpose, exploring ideas and information, composing, revising and editing, and supports writing by integrating experiences in thinking, reading, listening and speaking. This section is for students needing to take English SOL exams. The course will be supplemented to support the SOL tests. Students need a C or better at the end of the first se-

mester to enroll in the second-semester course. Students who do not have a C or better will be moved to a non-college-level course.

Dual Enrollment College Composition 12

Grade 12 | 1 credit

Prerequisite: Meets college entrance requirements

This is a two-semester dual enrollment course offered through NOVA. Students who successfully complete this course earn six college credits in English Composition. Students develop writing ability for study, work and other areas of writing based on experience, observation, research and reading of selected literature. This course guides students in learning writing as a process, understanding the audience and purpose, exploring ideas and information, composing, revising and editing, and supports writing by integrating experiences in thinking, reading, listening and speaking. Students need a C or better at the end of the first semester to enroll in the second-semester course. Students who do not have a C or better will be moved to a non-college-level course.

Dual Enrollment Survey of World Literature

Grade 12 | 1 credit

Prerequisite: Dual Enrollment College Composition 11

This is a two-semester dual enrollment course offered through NOVA. Students who successfully complete this course earn six college credits in English Literature. The course introduces students to selected major works that represent the development of world literature from the ancient world to the present. Topics include the recognition of cultural (philosophical, religious, political, etc.) movements that may influence or be influenced by the works studied. This course seeks to increase students' abilities in critical reading and writing. Students need a C or better at the end of the first semester to

enroll in the second-semester course. Students who do not have a C or better will be moved to a non-college-level course.

ENGLISH ELECTIVES

College Competencies for the 21st Century A

Grades 9-12 | 0.5 elective credit

In this practical course, students develop skills for success in school and in the work-place. Students apply reading, writing, speaking and listening skills to the course High School Grades 9-12 requirements of content-area classes. Students read for different purposes, summarize, paraphrase, compare and contrast and read critically. They apply writing skills and the writing process to study practices and research projects, and through presentations and demonstrations, develop effective oral communication skills. In addition, increased use of technology helps students access information and produce clearly written communication.

College Competencies for the 21st Century B

Grades 9-12 | 0.5 elective credit

In this practical course, students develop skills for success in school and in the work-place. Students apply reading, writing, speaking and listening skills to the course requirements of content-area classes. Students read for different purposes, summarize, paraphrase, compare and contrast and read critically. They apply writing skills and the writing process to study practices and research projects, and through presentations and demonstrations develop effective oral communication skills. In addition, increased use of technology helps students access information and produce clearly written communication.

Debate I**Grades 9-12 | 1 elective credit**

This class is intended for students interested in studying the structure and strategies associated with policy debate. Participants are involved in an intensive study of both the techniques used in debate and the research required for each year's specific debate topic. Student debate teams encourage collaboration in conducting research, formulating strategies and preparing arguments. Participants master basic speaking and researching skills as well as logic and reasoning. In addition to studying policy debate, students also study the history of debate and its modern applications.

Debate II**Grades 10-12 | 1 elective credit**

Prerequisite: Debate I

This course is for students who want to continue to build on their debate skills and knowledge. This course allows students to research and debate the national policy debate topic. Students in Debate II need to be able to work independently and be actively involved in course decisions.

Creative Writing**Grades 10-12 | 0.5 credit**

Prerequisite: Writing sample

This class is intended for students demonstrating a specific talent for writing poetry and prose. Participants are involved in an intensive study of the writing and publication processes, producing poetry, short fiction and drama. Student writing groups support peer-critique and the improvement of specific pieces of writing. Participants master basic techniques important to portraying characters, establishing settings, focusing narration and using symbolism. In addition to creating individual portfolios of written work, the class produces an anthology of student writings. Students are required to submit selected works to contests and magazines highlighting the works of young writers.

Journalism I**Grades 9-12 | 1 credit**

Students acquire journalistic skills needed to obtain accurate information and write precisely and succinctly. They examine various kinds of media in society. Students also learn the basic skills of interviewing, writing and layout for newspapers or yearbooks.

Journalism II: Magazine**Grades 10-12 | 1 credit**

Students are responsible for creating the school's literature and arts magazine, Labyrinth. Students manage all aspects of magazine creation and publication, including gathering written and visual submissions from T.C. students, selecting work for publication, designing the magazine, and doing publicity and fundraising. Staff members should be self-disciplined, self-motivated, team-oriented, curious, and creatively inclined. Writers, artists, photographers, and other creative persons are encouraged to join our staff. Graphic design is an important element of the course. Adobe InDesign and Photoshop are used.

Journalism II: Newspaper**Grades 10-12 | 1 credit**

Students are responsible for producing the school newspaper, Theogony. The newspaper is published every month in print and online. The newspaper is entirely student-run. Important skills used in this course include interviewing and writing clear, concise stories. Students must demonstrate proficiency in both writing and grammar. High grades in English courses are a prerequisite. Students registering for this course who have not taken Journalism I may be asked to take and pass a writing test. Staff writers must meet monthly deadlines and be prepared to correct their edited work. Photographers must meet the same deadlines. Graphic design is an important element of this course. Photoshop and InDesign are used.

Journalism II: Yearbook**Grades 10-12 | 1 credit**

Students are responsible for producing the school yearbook, which is entirely student run. Students must demonstrate proficiency in both writing and grammar. High grades in English courses are a prerequisite. Staff writers must also meet deadlines and be prepared to correct their edited work. Photographers must meet deadlines and must have their own cameras. Graphic design is also an important element of this course.

Public Speaking I**Grades 9-12 | 0.5 credit**

This course develops students' self-confidence, ability to organize ideas, and sensitivity to other people. Students work on interpersonal communication as they learn skills that will help them talk to friends, parents and teachers; participate in job and college interviews; and speak before groups. Students learn to select a topic; formulate, organize and support ideas; and forge these into an effective speech.

Public Speaking II**Grades 9-12 | 0.5 credit**

This course involves interpretive speaking and teaches the many areas of interpretation, from declamation and dramatic duo, to dramatic interpretation and original works. Extemporaneous speaking and impromptu work are also included. Public Speaking I is not a prerequisite for this course.

English for Academic Purposes (EAP)**Grades 9-12 | 1 elective credit**

EAP Algebra I

EAP Algebra Functions and

Data Analysis

EAP Algebra II

EAP Biology

EAP Earth Science

EAP Ecology

EAP English

EAP Geometry**EAP Technology*****EAP U.S./Virginia History****EAP World Civilizations I****EAP World Civilizations II**

English for Academic Purpose (EAP) courses are English language development classes designed specifically for English Language Learners and run side-by-side with core content courses. In EAP, students receive direct language instruction to aid them in acquiring content knowledge, in producing and understanding texts in various genres within the content area and in becoming proficient in the areas of the five college competencies. Students only take an EAP class if they are enrolled in the matching SOL or core class and it is determined that they need additional support based on examining a body of evidence (for example, school history, grades, teacher recommendation, ACCESS for ELLs level, SRI score and writing samples).

**EAP Technology does not support a matching SOL course. This is a hands-on course for beginning English Language Learners with limited experience with computer programs.*

Literacy for English Language Learners**Grades 9-12 | 1 elective credit**

Prerequisite: Targeted EL students requiring tier III intervention

This course promotes accelerated literacy and language acquisition for targeted EL students at the secondary level. According to MTSS, this is a Tier III intervention course. The course is designed for adolescent emergent readers who are in the beginning stages of English language acquisition and need to develop reading comprehension, writing, speaking and listening. The course supports students' movement along a literacy continuum from initial basic language acquisition toward increasing levels of guided and in-

dependent transfer in listening, speaking, reading, and writing.

Bridges**Grade 9 | 1 credit****Bridges Civics****Bridges English****Bridges History****Bridges Science**

Bridges courses are English language development classes designed specifically for English language learners who have had long-term breaks or interruptions in their formal education (SLIFE) and test significantly below grade level in their native language literacy. The Bridges program is an intensive and individualized intervention for SLIFE students that provides a tailored cohort of classes that utilize translanguaging to build English literacy skills through a year-long, thematic-based approach.

Foundations of Literacy**Grades 9 | 1 elective credit**

This course helps students improve functional reading skills and develop new strategies, enabling them to be more successful in their high school classes. The curriculum expands vocational and academic literacy and promotes personal security by enhancing fundamental reading proficiency. Instruction utilizes research-based methods in the area of active literacy. Students develop and implement skills in reading, writing, speaking, listening and thinking. An important objective of this course is to encourage students to read independently for enjoyment.

Literacy**Grades 9-12 | 1 credit**

Prerequisite: The student has an Individualized Education Program (IEP). Students in this class learn basic skills including, but not limited to, letter identification, word attack skills, sight word recognition, language development and sentence structure. These literacy skills

are needed to access public transportation, seek employment opportunities and live independently.

Advanced Literacy Strategies A (Semester 1)**Grades 9-12 | 0.5 elective credit**

Using research-based programs, this course strengthens skills in reading, writing, speaking, listening and thinking. Students learn strategies to develop vocabulary, increase fluency and improve reading comprehension and writing skills in all curriculum areas. An important objective of this course is to encourage students to read independently for enjoyment. Coursework is differentiated to meet individual student needs.

Advanced Literacy Strategies B (Semester 2)**Grades 9-12 | 0.5 elective credit**

Using research-based programs, this course strengthens skills in reading, writing, speaking, listening and thinking. Students learn strategies to develop vocabulary, increase fluency and improve reading comprehension and writing skills in all curriculum areas. An important objective of this course is to encourage students to read independently for enjoyment. Coursework is differentiated to meet individual student needs.

Writing Center Peer Tutor**Grades 10-12 | 1 elective credit**

Prerequisite: Application and acceptance to tutoring program

This course equips student writers to become peer tutors. The beginning of the course covers writing center theory and basic tutoring approaches. After a training period, tutors spend the rest of the course tutoring, working on individual projects to enhance the Writing Center, and developing their own writing. Tutors also have opportunities to present at writing center conferences, work with teachers in the classroom, and submit their writing to writing center publications. Tutors will

develop interpersonal skills, improve their writing skills, gain leadership experience, and have opportunities to become part of the writing center community. Interested students will need to submit an application (with English teacher approval) to the Writing Center director.

FINE ARTS

All Fine Arts courses apply toward elective credit.

VISUAL ART

Art I

Grades 9-12 | 1 credit

Designed as a foundation for those who intend to pursue art as a career or for cultural enrichment, this course emphasizes the fundamentals of drawing, sculpture and painting in a variety of media. Weekly homework assignments aid in acquisition and development of basic observational skills. Higher-order thinking skills such as analysis, problem solving and evaluation are emphasized. The course also incorporates the study of art history, criticism, aesthetics and additional enrichment experiences such as museum field experience, artists-in-residence and student workshops.

Art II

Grades 10-12 | 1 credit

Prerequisite: Art I

Art II emphasizes the elements and principles of design and their conscious application. Students learn techniques and processes in a variety of media, including painting, drawing, sculpture and printmaking. The course also incorporates the study of art history, criticism and aesthetics. Higher-order thinking skills, such as analysis, problem solving and evaluation, are emphasized throughout this course.

Art III

Grades 11-12 | 1 credit

Prerequisite: Art II

Art III offers four major areas of concentration: landscape, the human figure, still life and abstraction. Each area includes experience with a broad mix of media and focuses upon development of composition, creative and technical skills. Higher-order thinking skills, such as analysis, problem solving and evaluation are emphasized throughout the course.

Art IV

Grades 11-12 | 1 credit

Prerequisite: Art III

Art IV is designed for the serious, motivated student who is considering entering an art program beyond high school or who desires further artistic growth. Each student develops a well-rounded portfolio suitable for college or employment review.

AP Art History

Grades 10-12 | 1 credit

Students who enroll in AP courses must take the end-of-course AP exam. The cost of these exams is paid by ACPS.

This course is intended for students with exceptionally high commitments to academic study. The history of art from before the Common Era (B.C.E.) to the present day is taught. Lecture, video, class discussion, museum work and multimedia study aids reinforce reading and writing assignments. Students examine the major forms of artistic expression (including architecture) of past and distant cultures, as well as those of our own time and environment. They learn to look at works of art critically, with intelligence and sensitivity, and to articulate and appreciate the art they experience. Students are expected to complete all reading assignments, keep a notebook, contribute to class discussions and complete all museum assignments and all written work.

AP 2-D Art and Design

Grades 11-12 | 1 credit

Prerequisite: Art I, Art II, and/or permission of instructor

The AP Art and Design program consists of three different courses and AP portfolio exams – AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing – corresponding to college and university foundation courses. Students create a portfolio of work to demonstrate inquiry through art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

AP 3-D Art and Design

Grades 11-12 | 1 credit

Prerequisite: Art I, Art II, and/or permission of instructor

The AP art and design program consists of three different courses and AP portfolio exams – AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing – corresponding to college and university foundations courses. Students create a portfolio of work to demonstrate inquiry through art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any or all of the AP Portfolio Exams.

AP Drawing**Grades 11-12 | 1 credit***Prerequisite: Art I, Art II and/or permission of instructor*

The AP art and design program consists of three different courses and AP portfolio exams – AP 2-D Art and Design, AP 3-D Art and Design, and AP Drawing – corresponding to college and university foundations courses. Students create a portfolio of work to demonstrate inquiry through art and design, process documentation, and written information about the work presented. In May, students submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students may choose to submit any of all of the AP Portfolio Exams.

Ceramics I**Grades 10-12 | 1 credit***Prerequisite: Art I*

This course explores 3-D clay forms by creating both functional and decorative ceramic works of art. Students use various techniques in hand-building and wheel throwing. Students think creatively and critically to solve ceramic problems in unique ways. Each student will maintain a developmental workbook (sketchbook) of ideas and processes.

Ceramics II**Grades 11-12 | 1 credit***Prerequisites: Art I and Ceramics I*

Complex problem-solving skills will be used in the construction of a variety of hand-built and wheel thrown projects. The in-depth focus will be on design, construction, and craftsmanship skills. Students will be required to keep a sketchbook along with a digital portfolio, which will record images and reflections of their created art works.

Design**Grades 10-12***Prerequisites: Art I and II. If scheduling necessitates, Art II and Design may be taken in the same school year.*

This third-level art course serves as an introduction to a broad range of commercial art applications, including graphics and animation, fabric, fashion and costume design, furniture, and interior and industrial design. Emphasis is placed upon the elements of art and principles of design, with students using both computer and hand-building techniques. Projects are undertaken with client presentations in mind and are accomplished both individually and in collaborative teams.

MUSIC**Music of Our Lives****Grades 9-12 | 1 credit**

This course provides students with the opportunity to explore contemporary issues, styles, and genres of music and the music industry, as well as gain an appreciation for music through understanding of basic music concepts. Focus will be placed on critical listening skills and music technology. This course is designed to enable students to become intelligent, life-long consumers of music, regardless of their musical background.

Concert Band**Grades 9-12 | 1 credit**

The Concert Band performs Level II - IV literature. Students work to develop skills in tone production, intonation, technique, rhythm, balance and musicianship. The Concert Band presents a minimum of two concerts a year, participates in the State Concert Assessment (when appropriate). Successful participation in this course will prepare students for Symphonic Band and/or Wind Ensemble.

Wind Ensemble**Grades 10-12 | 1 credit (0.5 honors credit)***Prerequisite: Successful audition*

Students in this course form the representative performing band for the school. Emphasis is placed on the sequential development of advanced technical skills and on the study of related literature. Marching band techniques, rehearsals, and performances are required in this course. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course. The Virginia standards for High School Instrumental Music, Artist Level enable students to acquire technical and expressive skills at an artist level of musicianship. Students are provided with opportunities to participate in local, district, regional, and state events.

Jazz Ensemble**Grades 9-12 | 1 credit***Co-requisite: Concert, Symphonic or Wind Ensemble*

This group studies and performs a variety of literature, including swing, jazz, and rock. Each year, the group performs at concerts, adjudicated festivals, and various civic occasions. Special emphasis is placed on developing improvisation skills and ensemble playing. Membership requires a high degree of musical skill and personal discipline. This class may be taken for a grade or pass/fail.

Advanced Orchestra I**Grade 9 | 1 credit***Prerequisite: Prior participation in an Orchestra course*

This course is offered for 9th-grade students able to play successfully at Grade IV and V levels of the VBODA rating system. Students with advanced playing experience continue to develop skills in bowing, fingering and reading music, with

good intonation, rhythm and musicianship. Success in this course should lead to participation in Chamber Orchestra.

String Orchestra I

Grade 9 | 1 credit

Prerequisite: Prior participation in an Orchestra course

This course is offered for ninth-grade students who wish to continue their study in orchestral music and advance their performance skills in bowing, fingering and reading music, with good intonation and rhythm. This course is offered for students able to play successfully at Grade III and IV levels of the VBODA rating system.

String Orchestra II

Grades 10-12 | 1 credit

Prerequisite: Prior participation in String Orchestra I or Advanced I

Students with some playing experience continue to develop skills in bowing, fingering and reading music, with good intonation and rhythm. This course is offered for students able to play successfully at Grade III and IV levels of the VBODA rating system. Success in this course should lead to participation in Chamber Orchestra.

Chamber Orchestra

Grades 10-12 | 1 credit (0.5 honors credit)

Prerequisite: Successful audition

Students in this course form the representative performing string orchestra for the school. Emphasis is placed on the sequential development of advanced technical skills and on the study of related literature. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course. The Virginia standards for High School Instrumental Music, Artist Level enable students to acquire technical and expressive skills at an artist level of musicianship. Students are provided with

opportunities to participate in local, district, regional, and state events.

Music Theory I

Grades 10-12 | 1 credit

Music Theory provides students with the necessary tools to work with music from creative and performance viewpoints. The course stresses the fundamentals of music reading, with emphasis on scales, intervals, chords, four-part writing and form. Ear training is an important part of the course. Music Theory is most helpful for students who plan to major in music in college or those interested in performance/composition.

AP Music Theory

Grades 11-12 | 1 credit

Students who enroll in AP courses must take the end-of-course AP exam. The cost of these exams is paid by ACPS.

This course is intended for advanced music students who have completed Music Theory I. Fundamental to success in this course is the student's ability to read and write musical notation. Musicianship skills such as dictation, sight-singing and musical analysis are sharpened. Skills in original composition, vocal/instrumental arrangement techniques, advanced part-writing, instrumental transpositions and score analysis are emphasized. Students become familiar with music-writing computer software and with the MIDI/synthesizer. This course replaces Music Theory II.

Music Laboratory/Guitar

Grades 10-12 | 0.5 credit

This course is designed to reach students who have never played guitar. Emphasis is placed on learning to play melodies and a few chords. Students learn music fundamentals such as note reading, theory and related musical knowledge. The course acquaints students with various styles of music, including folk, classical, jazz and rock; provides opportunities

for group playing; and, although there are some basic minimum expectations, lets students advance at their own rates. Students provide their own instruments. This course provides an additional option for students taking half-year courses, with the potential for the music department to reach an even greater number of non-performance-oriented students.

Mixed Choir

Grades 9-12 | 1 credit

Prerequisites: Previous choral instruction

This is a beginning choral course taught at the instructional level of the Concert Choir course. Choir students are provided the opportunity to concentrate on the varying demands of vocal technique for each piece of repertoire that is studied. Music performed covers a wide range of historical periods and styles. Difficulty ranges from Grades II to IV of the Virginia Choral Directors' Association (VCDA) rating system. Choir members are expected to perform in the fall, winter and spring concerts and participate in local/district festivals as determined by the director.

Advanced Choir

Grades 10-12 | 1 credit (0.5 honors credit)

Prerequisites: Successful audition

The Virginia standards for High School Vocal/Choral Music, Artists Level enable students to refine musicianship skills in individual and ensemble performance. Students continue to develop the ability to evaluate musical performances and articulate preferences and choices through the use of cognitive skills and analytical thinking. They expand their connections to music in the community and the world and develop individual performance portfolios. In-depth experience in solo and/or ensemble singing and the use of foreign languages assist in preparing the student for future musical and vocal development and career opportunities.

Performance Ensemble/Show Choir - Eighth Period

Grades 9-12 | 1 credit

Co-requisite: Concert Choir

Singers/Show Choir provides a medium for performing more challenging, difficult choral music in the school and the community. Choir students are provided the opportunity to explore other genres of music, which include but are not limited to Broadway show tunes and various styles in the gospel realm. Choir students are also provided the opportunity to learn various types of choreography that are set to the various pieces they perform. Choir members are expected to perform in the fall, winter and Spring Concerts, and are encouraged to audition for musicals, Christmas in Washington/Kennedy Center Honors televised productions, District Chorus and VMEA Honor Choir. This class may be taken for a grade or pass/fail.

Concert Choir

Grades 9-12 | 1 credit

Prerequisites: Previous choral instruction

Concert Choir provides a medium in which all choral disciplines can study and perform together in preparation for major concerts and community events. It is also open to students who have not registered for any choral course due to scheduling. Choral students in Concert Choir explore every genre of music from Western European Classical to Broadway and Gospel. It is in this course where students learn to master the mass ensemble sound. Attendance is mandatory. Choir members are expected to perform in the fall, winter and spring concerts, and are encouraged to audition for musicals, Christmas in Washington/Kennedy Center Honors televised productions, District Chorus and VMEA Honor Choir.

Chamber Music - Eighth Period

Grades 9-12 | 0.5 credit

Prerequisite: Prior participation in the Orchestra Course

This course is offered during Eighth period after school. Chamber Music is designed to provide students with a performance opportunity in small ensemble repertoire. Various ensembles will be formed using the available personnel of string trio, quartets and other various ensembles based on the selected repertoire. This class may be taken for a grade or pass/fail.

Percussion Ensemble

Grades 9-12 | 1 credit

This course is offered to provide students with the fundamental skills and knowledge to successfully perform both concert and marching percussion repertoire. As members of this course, students will have the opportunity to learn about and perform on a wide range of percussions instruments. These instruments include, but are not limited to snare drum, bass drum, cymbals, marimba, glockenspiel, congas and bongos. In addition, this course will feature a focused emphasis on the development of music literacy skills that are required of all percussionists. This course will operate as a performance ensemble depending on the given enrollment for the school year. Furthermore, students in this class are also members of the Concert Band, Symphonic Band or Wind Ensemble and will abide by the rules and policies for those ensembles. Percussion Ensemble students will perform with the band classes on concerts. In addition, the percussion ensemble will occasionally have their own performances.

Symphonic Band

Grades 9-12 | 1 credit

Prerequisites: Successful audition

The Symphonic Band performs music at the VBODA Level III-V. Emphasis is placed on the sequential development of advanced technical skills and on the

study of related literature. Based on successful completion of sequential concepts for each level, students will continue as specified in course level. Marching band techniques, rehearsals, and performances are required in this course. Students must meet both the school day and outside of the school day participation requirements to receive credit for the course. The Virginia standard for High School Instrumental Music, Advanced Level enables students to acquire more advanced technical and expressive skills and demonstrate a mature level of musicianship. Students are provided with opportunities to participate in local, district, regional, and state events.

THEATRE

Theatre Practicum: Tech

Grade 9-12 | 0.5 credit | one semester

Students enrolled in this section of Theatre Practicum 8th period class are electing to participate in the technical aspects of the T.C. Williams Main Stage show that occurs during the semester, in which they are enrolled (fall play or spring musical). Students may work on the set, lighting, costumes, sound, props, publicity, and/or marketing. Class will be a combination of independent study, small-group instruction, and full class. Specific meeting times will be published at the start of each semester.

Theatre Practicum: Acting and Directing

Grade 9-12 | 0.5 credit | one semester

Students enrolled in this section of Theatre Practicum 8th period class are electing to participate in the performance aspects of the T.C. Williams Main Stage show that occurs during the semester, in which they are enrolled (fall play or spring musical). Students will participate as actors, student director, or stage manager. Class will meet daily for rehearsals.

Successful audition and/or interview required for participation.

Introduction to Theatre: Character Creation and Theatre Appreciation

Grades 9-12 | 1 credit

In this class, students gain an appreciation for the theatre, its history, literature and performance. Students read and act out scenes and plays from the beginning of time through the Renaissance, focusing on the creation of character, utilizing voice and body movement. Students review dramatic performances in and out of class to develop their ability to thoughtfully analyze the performances of themselves and others. Students also gain practical experience in the theatre by serving as ushers for one of T.C. Williams High School's dramatic productions.

Intermediate Theatre: From Page to Stage

Grades 10-12 | 1 credit

Prerequisite: Introduction to Theatre or audition

In this class, students further their knowledge of theatre, theatre history, dramatic literature and especially performance. Students read and act out scenes, plays, and monologues from the modern era. In addition, students explore the process of creating a character through writing their own scenes, monologues and short plays. Students also gain practical experience in the theatre by writing a play or plays to be performed at the end of the school year. This class may be repeated for credit.

Advanced Theatre: Theatre for Competition and Community Performance

Grades 10-12 | 1 credit

Prerequisite: Audition

Students at the advanced level continue to polish their acting skills through performance and study. Students in this class are required to participate in a play eligible for the Virginia High School

League (VHSL) District One-Act Competition, either as actors or through direction or stage management. Students also gain practical experience in the theatre by participating in various aspects of producing shows in the high school. This course offers enrichment experiences through Lincoln Center for the Arts Institute Teaching Strategies workshops, stage management, artists-in residence, acting, makeup and costuming. This class may be repeated for credit.

Stagecraft I

Grades 9-12 | 1 credit

Students in Stagecraft focus on the non-performance-related areas of theatre, focusing on scenic design and construction, but also including costume, makeup and lighting design. Students engage in hands-on activities such as building sets for school shows. Further enrichment supports master class sessions, teacher workshops, artists-in-residence and technical support clinics.

Stagecraft II

Grades 10-12 | 1 credit

Prerequisite: Stagecraft I or teacher recommendation based on previous technical experience.

Stagecraft II furthers the theatrical design and construction skills established in Stagecraft I. Students are expected to take leadership roles and assist in guiding new students in design technique, tool use and other aspects of the Stagecraft course. Students are asked to assume more responsibility in assisting in the technical aspects of school theatre and music functions.

HEALTH AND PHYSICAL EDUCATION

All health and physical education courses apply toward elective credit.

Health and Physical Education

Grade 9 | 1 credit

Physical education in ninth grade is required for graduation and offers students an elective approach to physical literacy and laying the groundwork for leading an active life. Roughly every two weeks students register for an activity strand (team sports, individual sports, outdoor recreation or exploratory activities). All students are given the Virginia Wellness Related Physical Fitness tests during the year to assist them with determining their personal fitness levels and as a means of measuring personal improvement. Health education instruction takes place on a rotating basis throughout the year and focuses on nutrition education, consumer health, mental health, substance abuse, community health, fitness principles, and AED, CPR and First Aid instruction. In addition, students will receive age-appropriate Family Life Education instruction in this course. Content will be based on state Standards of Learning, and parents/guardians will have the opportunity to opt their children out of instruction.

Health and Physical Education

Grade 10 | 1 credit

Prerequisite: Physical Education Grade 9
Physical education in tenth grade is required for graduation and offers students an elective approach to physical education. At the beginning of each quarter, students register for an activity strand (team sports, individual sports, outdoor recreation or exploratory activities). Once a week, students participate in health lessons/activities that incorporate the Virginia Health Standards of Learning and the Virginia Wellness Related Physical Fitness tests. Students develop personal fitness plans, use pedometers to measure activity and use heart rate monitors to measure the intensity of physical activity. Driver Education is taught during the second and third quarters only and meets the 36-hour instructional period requirement for classroom instruction. CPR in-

struction typically takes place during the fourth quarter.

In addition to the 36 classroom hours ACPS provides, persons under 18 years of age must also complete 14 in-car training sessions with a privately hired instructor and 45 hours of certified driving with a parent or guardian in order to get a driver's license. For more information go to the Virginia DMV website.

An amendment to § 22.1-205 Driver education programs, House Bill 1782, passed by the General Assembly of Virginia, calls for an additional parent/student driver education component to be included as part of the in-classroom portion of the driver education curriculum. In compliance with the new legislation, ACPS requires a 90-minute parent/student traffic safety presentation, to include a) parental responsibilities regarding juvenile driver behavior, b) juvenile driving restrictions pursuant to the Code of Virginia, and c) the dangers of driving while intoxicated and underage consumption of alcohol.

In addition, students will receive age-appropriate Family Life Education instruction in this course. Content will be based on state Standards of Learning, and parents/guardians will have the opportunity to opt their children out of instruction.

Issues Facing Today's Teens Grades 9-12 | 1 credit

This comprehensive human growth and development course offers a unique opportunity for serious consideration and discussion of the family, relationships, dating violence, human sexuality, parenting, child development, and adolescence through adulthood. Content and activities are intended for ninth-grade students; however, the course may be taken in grades 9-12, as well as in summer school prior to grades 9-12. Students who wish to take this course in

the 9th grade, but are having difficulty scheduling the course, may create room by taking Health and Physical Education 9 if offered in summer school or as an early bird class.

25th Hour Health and Physical Education

Grade 9-10 | 1 credit

25th Hour Physical Education is an independent course that fulfills the 9th-10th-grade physical education requirement. Students enrolled in this course use heart rate monitors (provided) to analyze and record their workouts that take place independently before or after school hours. All students are given the Virginia Wellness Related Physical Fitness tests during the year to assist them with determining their personal fitness levels and as a means of measuring personal improvement to develop a personal fitness plan. Correspondence with the instructor takes place during individual meetings before school and during lunch time; Blackboard is also used for communication, assignments, and assessments. For 10th graders only: The driver education portion of the curriculum is taught daily from 7:30 to 8:25 a.m. for one quarter of the school year. The Virginia Health Standards of Learning are taught via Blackboard during one quarter. Due to limited enrollment, students are required to attend an after-school orientation where class contracts are distributed. The first 60 students to return the completed contracts will be placed in the class. After the 60 spots are filled, a waiting list will be created.

In addition to the 36 classroom hours ACPS provides, persons under 18 years of age must also complete 14 in-car training sessions with a privately hired instructor and 45 hours of certified driving with a parent or guardian in order to get a driver's license. For more information go to the Virginia DMV website.

An amendment to § 22.1-205 Driver education programs, House Bill 1782, passed by the General Assembly of Virginia, calls for an additional parent/student driver education component to be included as part of the in-classroom portion of the driver education curriculum. In compliance with the new legislation, ACPS requires a 90-minute parent/student traffic safety presentation, to include a) parental responsibilities regarding juvenile driver behavior, b) juvenile driving restrictions pursuant to the Code of Virginia, and c) the dangers of driving while intoxicated and underage consumption of alcohol.

In addition, students will receive age-appropriate Family Life Education instruction in this course. Content will be based on state Standards of Learning, and parents/guardians will have the opportunity to opt their children out of instruction.

Physical Education: Fitness and Strength Training

Grades 11-12 | 1 credit

The year-long Fitness and Strength Training course is designed to improve student fitness through a variety of training methods, with an emphasis on proper technique. Strength training uses four core lifts, including the flat bench press, push press, power cleans and back squats. Fitness training includes a multitude of aerobic, anaerobic, plyometric and agility exercises. The course also stresses the importance of maintaining and increasing flexibility through dynamic stretching (Pilates) for a warm-up and static stretching for a cool-down (yoga). Proper nutrition and its relationship to overall fitness is another key component to the course. This class is open to all male and female students who have completed ninth- and tenth-grade Physical Education.

Adapted Physical Education**Grades 9-12 | full year**

This course is a supplement to General Physical Education. Students who are unable to participate in regular Physical Education classes may be offered this course of developmental activities, games, sports and rhythms. Active participation is encouraged in many recreational sports. Students learn rules and techniques for sports adapted to the participants' specific conditions. Students enrolled in this course may join with the regular Physical Education and/or Health Education classes when appropriate. The goal is to help students adapt their abilities to the demands of daily living.

World Dance**Grades 11-12 | 1 credit**

Students explore and examine a variety of rhythmic movements and dance genres. The course emphasizes Latin, Hip-Hop and Social dance. Students develop proficiency in technique, performance and choreography. Students also focus on the historical and cultural implications of dance around the world. Proper dance attire, including footwear, is required and may be purchased through the instructor.

MATHEMATICS

A verified unit of credit for graduation is based on a student's satisfactory completion of a course and a passing score on the end-of-course Standards of Learning (SOL) test for that course. Currently, there are SOL Mathematics tests for Algebra I, Geometry and Algebra II.

MATHEMATICS CORE COURSES**Math****Grades 9-12 | 1 credit**

Prerequisite: The student has an Individualized Education Program (IEP). Students in this class learn basic skills including, but not limited to, math operations, counting money and management. These functional math skills are needed to access public transportation, seek employment opportunities and live independently.

Algebra I**Grades 9-12 | 1 credit**

The Algebra I course is designed to engage students in the applications of advanced math concepts and processes applied to real-world problem-solving situations. The content of this course includes solutions of equations and inequalities, operations with polynomials, factoring, and the study of linear and quadratic equations. Problem-solving situations are emphasized.

Geometry**Grades 9-12 | 1 credit**

Prerequisite: Algebra I This course focuses on integrated plane, solid and coordinate geometry, along with the properties of geometric figures, trigonometric relationships and reasoning to justify conclusions. Methods of justification include paragraph proofs, two-column proofs, indirect proofs, coordinate proofs, algebraic methods and verbal arguments.

Algebra, Functions and Data Analysis**Grades 9-12 | 1 credit**

Prerequisite: Algebra I and Geometry Within the context of mathematical modeling and data analysis, students study functions and their behaviors, systems of inequalities, probability and ex-

perimental design and implementation. Data are generated by practical applications arising from science, business and finance. Students solve problems that require the formulation of linear, quadratic, exponential or logarithmic equations or a system of equations.

Algebra II**Grades 9-12 | 1 credit**

Prerequisite: Algebra I A thorough treatment of advanced algebraic concepts is provided through the study of functions, "family of functions," equations, inequalities, systems of equations and inequalities, polynomials, rational and radical equations, complex numbers and sequences or series.

Discrete Mathematics**Grades 10-12 | 1 credit**

Prerequisite: Algebra I or Geometry and either Algebra Functions, Data Analyst or Algebra II

This course is the study of mathematical properties of sets and systems that have a countable (discrete) number of elements. Topics in the course include election theory, fair decision, apportionment, graph theory and recursion.

Probability and Statistics**Grades 10-12 | 1 credit**

Prerequisite: Geometry and either Algebra II or Algebra, Functions, and Data Analysis This introductory statistics and probability course focuses on collecting and analyzing data, making predictions and organizing and graphing data in meaningful ways. Topics include counting rules permutations and combinations analysis of univariate and bivariate data, normal distribution and survey analysis.

Pre-Calculus**Grades 10-12 | 1 credit**

Prerequisite: Geometry and Algebra II A study of functions, analytic geometry and trigonometry precedes a formal study of Calculus.

AP Statistics**Grades 10-12 | 1 credit***Prerequisite: One year of Mathematics beyond Algebra II***Students who enroll in AP courses must take the end-of-course AP exam.****The cost of these exams is paid by ACPS.**

Students use graphical and numerical techniques to analyze data, determine appropriate methods of data collection and analysis, learn to anticipate what a distribution of data should look like, and use statistical inference to guide the selection of appropriate models. Course content closely follows that of the Advanced Placement Probability and Statistics exam. Students should be aware that knowledge of probability and statistics is becoming increasingly important to greater numbers of college majors. Students use TI-83 or TI-84 calculators in this course.

AP Calculus AB**Grades 10-12 | 1 credit***Prerequisite: Pre-Calculus***Students who enroll in AP courses must take the end-of-course AP exam.****The cost of these exams is paid by ACPS.**

This course teaches topics in calculus, including limits, derivatives and integrals, and their applications. Colleges may grant higher placement or credit to students who score well on the AP exam.

AP Calculus BC**Grades 10-12 | 1 credit***Prerequisite: Pre-Calculus***Students who enroll in AP courses must take the end-of-course AP exam.****The cost of these exams is paid by ACPS.**

This AP course provides an intensive study of the calculus of functions of a single variable. Course content includes topics in infinite series and polar and parametric equations, as well as the topics covered in AP Calculus AB. The course

represents college-level mathematics for which colleges may grant higher placement or credit to students who score well on the AP exam.

Dual Enrollment Calculus II**Grades 11-12 | 1 credit***Prerequisite: Scoring 4 or better on AP Calculus AB exam and meet all college entrance requirements*

This is a college semester course that is spread out over the high school year. Students who successfully complete this course will receive 4 college credits. This course continues the study of calculus of algebraic and transcendental functions including rectangular, polar, and parametric applications. Instruction features for mathematical, physical and engineering science programs. Students who take this course can take the AP Calculus BC exam. This course may be offered only online, via independent study.

AP Computer Science A**Grades 10-12 | 1 credit***Prerequisite: Algebra II***Students who enroll in AP courses must take the end-of-course AP exam.****The cost of these exams is paid by ACPS.**

In this course, students design and write sophisticated programs, using Java. Emphasis is placed on program design, methodology, data types and structures, classes, algorithms, computer systems and applications used in the computing field, such as sorting and searching techniques. Students develop many advanced data types, using classes and pointers, and implement those data types in real-world simulations. The course content closely follows that of the Advanced Placement Computer Science curriculum and prepares the student to take the AP Computer Science A Exam.

Dual Enrollment Calculus III & Differential Equations**Grades 11-12 | 1 credit***Prerequisite: Scoring 4 or better on AP Calculus BC exam and meet all college entrance requirements*

This is a two-semester dual enrollment course offered through NOVA. Students who successfully complete this course will receive 7 college credits. The first semester of the course focuses on extending the concepts of function, limit, continuity, derivative, integral, and vector from the plane to the three dimensional space. Topics include: vector functions, multivariate functions, partial derivatives, multiple integrals and an introduction to vector calculus. The second semester introduces ordinary differential equations. Topics include: first order differential equations, second and higher order ordinary differential equations with applications and numerical methods. This course may be offered only online, via independent study.

MATHEMATICS ELECTIVES**Algebra Readiness I****Grades 9-12 | 1 elective credit**

The instructional goal of this course is to prepare English Learner (EL) students with interrupted education to be successful in Algebra I. Students test into this course through a math assessment given at the Office of English Learner Services.

Algebra Readiness II**Grades 9-12 | 1 elective credit**

The instructional goal of this course is to prepare English Learner (EL) students with interrupted education to be successful in Algebra I. Students test into this course through a math assessment given at the Office of English Learner Services.

Introduction to Computer Science

Grades 10-12 | 1 elective credit

In this course, students gain an understanding of the different disciplines of Computer Science, with a focus on programming. Computer Science is a field of study that focuses on the theory and application of computers as computational tools to solve real-world problems. This course narrows students' focus on the use and implementation of computers by investigating the design and development of programs. Specifically, students learn to create their own programs and applications in a variety of languages.

AP Computer Science Principles

Grades 9-12 | 1 elective credit

Prerequisite: Algebra I

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

This course introduces students to the foundations of Computer Science while exposing them to programming and the impact of computers in today's society. The course focuses on problem solving and real world applications. The units of study include: digital representation of information and data manipulation, algorithms, the Internet, and programming and performance tasks, among others. This course is designed to broaden participation in computer science and STEM fields, and is highly supported by the National Science Foundation. The course serves as a precursor to AP Computer Science A.

Math Center Peer Tutor

Grades 10-12 | 0.5-1 elective credit

Co-requisites: Pre-Calculus, AP Statistics or AP Calculus

The T.C. Math Center Peer Tutor opportunity encourages, promotes and fosters students' independent learning and academic achievement in math courses.

The typical duties of a Math Center Peer Tutor include:

- Participating in training sessions. Peer tutors attend a six-week training session in which students are taught tutoring techniques to assist learners in developing a deeper understanding of mathematics as well as techniques for working with students who may have gaps in learning.
- Providing academic support to fellow students and communicating an enthusiasm for mathematics.
- Regularly meeting with individuals and small groups to work collaboratively on classwork/homework problems, course content, transfer tasks and study for unit exams.
- Conducting outreach with the school environment to promote student use of the T.C. Williams Math Center.

SCIENCE

A verified unit of credit for graduation is based on a student's satisfactory completion of a course and a passing score on the end of-course (EOC) Standards of Learning (SOL) test for that course. Currently, there are EOC SOL Science tests for Earth Science, Biology and Chemistry. See page 19 for sample course sequences in science. Students enrolled in AP Science courses must also co-enroll in the 1.0-credit AP Science Lab Seminar aligned with the AP Science course. In every science course, the importance of scientific research that validates or challenges ideas is emphasized. Therefore, students are encouraged to develop research projects for entry into the city science fair competition.

SCIENCE CORE COURSES

Biology I

Grades 9-12 | 1 credit

In this laboratory-based course, students develop skills needed to understand, explain, analyze and communicate about scientific phenomena and living organisms. Students also explore the history of scientific thought and the evidence that supports it by investigating biomolecules, cells, heredity, evolution and ecology. This curriculum aligns with the Virginia Biology Standards of Learning with a focus on observing, experimenting and modeling.

Honors Biology I

Grades 9 | 1 credit

This inquiry-based laboratory course is for students who want to learn Biology at an accelerated pace leaving time to conduct more laboratory investigations and research-based projects. It is designed to prepare students for AP Biology or a first-year college course in Biology. Students also explore the history of scientific thought and the evidence that supports it by investigating biomolecules, cells, heredity, evolution and ecology. This curriculum aligns with the Virginia Biology Standards of Learning with a focus on observing, experimenting and modeling. Students also investigate the dynamic relationship of science, technology and society by examining historical perspectives and current news topics. Students are required to develop research projects using Intel ISEF guidelines for entry into the city science fair competition.

Biology I (IA)

Grades 9-12 | 1 credit

Students in the International Academy (IA) will complete this course in a 2 year sequence with Environmental Science (IA) Grade 9. In this laboratory-based course, students, develop skills needed to understand, explain, analyze and com-

municate about scientific phenomena and living organisms. Students also explore the history of scientific thought and the evidence that supports it by investigating biomolecules, cells, heredity, evolution and ecology. This curriculum aligns with the VA biology standards of learning with a focus on observing, experimenting and modeling.

Biology II: Ecology

Grades 10-12 | 1 credit

Prerequisite: Biology I

Note: Students who did not pass the EOC SOL for Biology will have the opportunity to re-take the exam at the end of this course.

In this laboratory-based course, students develop skills needed to understand, explain, analyze and communicate about environmental concerns. Students learn about the human impact on the Earth by analyzing scientific data related to climate change, populations, and the natural world. Students also investigate the dynamic relationship of science, technology and society by examining historical perspectives and current news topics related to environmental science.

Biology II: Human Anatomy and Physiology

Grades 11-12 | 1 credit

Prerequisite: 2 science credits

In this laboratory-based course, students develop skills needed to understand, explain, analyze and communicate about human structures and functions with an in depth study of anatomical concepts. The course includes several dissections of mammals and their organs, which supplements the study of topics including the integumentary, muscular, nervous, digestive, respiratory, circulatory, excretory, endocrine and reproductive systems. Students also investigate the dynamic relationship of science, technology and society by examining historical perspectives and current news topics related to the human body.

AP Biology

Grades 11-12 | 1 credit

Prerequisites: Chemistry I and Biology I

Co-requisite: AP Science Lab Seminar.

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

Note: Students who did not complete Biology I in Virginia must take the EOC SOL test in Biology.

In this college-equivalent course, students investigate, in depth, the phylogenetic survey of basic physiological functions, modern molecular genetics, developmental biology and the biochemistry of living systems. Students extend their understanding of biology with an emphasis on cytology, cellular respiration and photosynthesis, enzymology, vertebrate anatomy and physiology and ecology. Through extensive laboratory work, students develop important laboratory skills, problem-solving techniques, research techniques and higher-order thinking skills.

Chemistry I

Grades 10-12 | 1 credit

Prerequisite: Algebra I

Co-requisite: Geometry, however Algebra II is strongly recommended.

In this laboratory-based course, students develop skills needed to understand, explain, analyze and communicate about scientific phenomena, matter, and energy. Mathematics is emphasized in this course and through the manipulation of chemical quantities and formulas, students learn about laboratory safety and equipment, atoms, bonding, chemical reactions, moles, and gases. Students use technology, including graphing calculators, computer simulations and probe ware, to explore these concepts. This curriculum aligns with the Virginia Chemistry Standards of Learning with a focus on observing, experimenting and modeling.

Honors Chemistry I

Grades 10-12 | 1 credit

Prerequisite: Algebra I

Co-requisite: Algebra II

This inquiry-based laboratory course is for students who want to learn Chemistry at an accelerated pace, leaving time to conduct more laboratory investigations and research-based projects. It is designed to prepare students for AP Chemistry or a first-year college course in Chemistry. Mathematics is emphasized in this course and through the manipulation of chemical quantities and formulas, students learn about laboratory safety and equipment, atoms, bonding, chemical reactions, moles, and gases. Students use technology, including graphing calculators, computer simulations and probe ware, to explore these concepts. This curriculum aligns with the Virginia Chemistry Standards of Learning with a focus on observing, experimenting and modeling. Students also investigate the dynamic relationship of science, technology and society by examining historical perspectives and current news topics. Students are required to develop research projects using Intel ISEF guidelines for entry into the city science fair competition.

AP Chemistry

Grades 10-12 | 1 credit

Prerequisites: Algebra II and Chemistry I

Co-requisite: AP Science Lab Seminar.

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

Note: Students who did not complete Chemistry I in Virginia must take the EOC SOL test in Chemistry.

This college-equivalent course begins by allowing students to extend their understanding of Chemistry I concepts and skills, including significant figures, atoms, moles, chemical reactions and gases. The remainder of the year allows for an in depth investigation of chemical topics including thermochemistry, bonding, ki-

netics, equilibrium and electrochemistry. An understanding of chemistry through mathematical formulas and particle modeling is emphasized. Through extensive laboratory work and mathematical analysis, students develop important laboratory skills, problem-solving techniques, research techniques and higher-order thinking skills.

Earth Science I

Grades 10-12 | 1 credit

In this laboratory-based course, students develop skills needed to understand, explain, analyze and communicate about the Earth's compositions, structure, processes and history. Topics are studied through a systems-based approach and include astronomy, meteorology, geology, oceanography and environmental science. This curriculum aligns with the Virginia Earth Science Standards of Learning with a focus on observing, experimenting and modeling with practical applications.

Honors Earth Science I

Grades 10-12

Prerequisite: Algebra I

Co-requisite: Geometry

This inquiry-based laboratory course is for students who want to learn Earth Science at an accelerated pace leaving time to conduct more laboratory investigations and research-based projects. It is designed to prepare students for AP Environmental Science or a first-year college course in Earth Science. Topics are studied through a systems-based approach and include astronomy, meteorology, geology, oceanography and environmental science. This curriculum aligns with the Virginia Earth Science Standards of Learning with a focus on observing, experimenting and modeling with practical applications. Students also investigate the dynamic relationship of science, technology and society by examining historical perspectives and current news topics such as climate change, conservation, the Space Age, and

the use of GPS. Students are required to develop research projects using Intel ISEF guidelines for entry into the city science fair competition.

Earth Science II: Astronomy

Grades 11-12 | 1 credit

Prerequisite: 2 science credits

Note: Students who have not completed Earth Science I have the option of taking the SOL test in Earth Science and earning a verified science credit. This course is a higher-level science that can be considered by students with mathematics competency.

In this laboratory-based course, students develop skills needed to understand, explain, analyze and communicate about the natural world from planet Earth to the edge of our universe. Mathematics is emphasized in this course through the study Earth Science from an astronomical perspective, exploring constellations, the sun and moon, planets, asteroids, comets, the structure and evolution of the stars, pulsars, black holes, gaseous nebulae, star clusters, galaxies, and quasars. Extensive laboratory work includes the integration of mathematical principles and visual observations of astronomical objects in the T.C. Williams High School Planetarium.

Earth Science II: Oceanography

Grades 11-12 | 1 credit

Prerequisites: Junior Classification with any two of the following science courses completed: Earth Science I, Biology I,

Chemistry I or Physics I

In this laboratory-based course, students develop skills needed to understand, explain, analyze and communicate about students explore the environmental interactions between humans and the oceans. Students study oceanography from an Earth Science perspective, exploring biodiversity, the geology of the ocean floor and sea floor spreading, continental drift and the biology of plant and animal communities in the oceans.

Laboratory work is supplemented with project-based learning the opportunity to explore current news topics related to the Earth's oceans.

Environmental Science (IA)

Grade 9 | 1 credit

Students in the International Academy (IA) will complete this course in a 2 year sequence with Biology I grades 9-12. In this laboratory-based course, students develop and continue laboratory skills from grades K-8. This course integrates the study of many components of our environment, including human impact on our planet. The skills gained by students in this course will prepare them to take Biology or Earth Science Standards of Learning with a focus on laboratory experiences and field investigations in the local community.

AP Environmental Science

Grades 10-12 | 1 credit

Prerequisite: Biology I, Algebra I, and Geometry

Co-requisite: AP Science Lab Seminar

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

This college-equivalent course provides students with the opportunity to study, in depth, the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world. Students extend their understanding by identifying and analyzing environmental problems, both natural and human-made, evaluating the relative risks associated with these problems, and examining alternative solutions for resolving and/or preventing them. Through extensive laboratory work and mathematical analysis, students develop important laboratory skills, problem-solving techniques, research techniques and higher-order thinking skills.

Physics I

Grades 11-12 | 1 credit

Prerequisite: Algebra I and Geometry

Co-requisite: Algebra II or higher level math class

In this laboratory-based course, students develop higher-order thinking skills needed to understand, explain, analyze and communicate about force and motion, forces, and energy. Students will use multiple representations including diagrams, graphs, algebra, and written descriptions to model first-year physics concepts. Units of study include motion, forces, energy and momentum, mechanical and electromagnetic waves and electric circuits. Students use technology including graphing calculators, computer simulations, and probe ware to explore these concepts. This curriculum aligns with the Virginia Physics Standards of Learning with a focus on observing, experimenting, and modeling.

AP Physics 1

Grades 10-12 | 1 credit

Prerequisite: Algebra II

Co-requisite: Pre-Calculus or higher level math class

Students who enroll in AP courses must take the end-of-course AP exam. The cost of these exams is paid by ACPS.

This inquiry-based laboratory course is for students who want to learn first-year physics at an accelerated pace. It is designed to prepare students for college-level physics. Students will explain, analyze, and communicate about motion, forces, and energy. Though mathematics such as algebra and trigonometry are emphasized in this course through problem-solving. Students will use multiple representations including diagrams, graphs, and written descriptions to model physics concepts. Units of study include kinematics, Newtonian dynamics, energy and momentum, rotational motion, mechanical and electromagnetic waves and electric circuits. Students use technology

including graphing calculators, computer simulations, and probe ware to explore these concepts. Students who have previously taken AP Physics C may not take this course.

AP Physics 2

Grades 11-12 | 1 credit

Prerequisite: Pre-Calculus and AP Physics 1

Students who enroll in AP courses must take the end-of-year AP exam. The cost of these exams is paid by ACPS.

This inquiry-based laboratory course is for students who want to learn physics at an accelerated pace. It is designed to prepare students for college-level physics. This is a second-year physics course and should only be taken after students have successfully completed AP Physics I. Though mathematics such as algebra and trigonometry are emphasized in this course through problem-solving, students will use multiple representations including diagrams, graphs, and written descriptions to model physics concepts. Units of study include fluid mechanics, thermodynamics, electricity and magnetism, optics, atomic physics, and nuclear physics. Students use technology including graphing calculators, computer simulations, and probe ware to explore these concepts.

AP Physics C: Electricity and Magnetism; Mechanics

Grades 11-12 1 credit

Prerequisites: AP Calculus AB or BC

Co-requisites: AP Science Lab Seminar

Students who enroll in AP courses must take the end-of-year AP exam. The cost of these exams is paid by ACPS.

This college-equivalent course begins by allowing students to build on their own understanding attained in a first course in physics. Therefore, it is strongly recommended that Physics C be taken as a second-year physics course. During

the second semester, students will complete a study of college-level Electricity and Magnetism. In May, students will complete two end-of-course AP exams, each corresponding to approximately one semester of college work. This course is rigorous, mathematically-intensive, and conceptually-abstract. Calculus is used whenever appropriate in formulating physical principles and in applying them to physical problems. Strong emphasis is placed on solving a variety of unique, challenging problems. Students who are co-enrolled in AP Calculus BC or who have never taken a physics course may take the course with instructor approval.

Science Research

Grades 10-12 | 1 credit

Prerequisite: One honors or AP science course

This course gives students the opportunity to pursue their own scientific questions and skills through authentic research in science. Students are expected to develop their own projects and write scientific papers suitable for presentation at the city science fair and VJAS. Students are encouraged to pursue discussions, internships and/or mentorships with scientists and professionals based on the nature of their selected projects. Students may participate for multiple years; 10th- and 11th- grade students are encouraged; 12th-grade students need instructor approval. This course includes a summer assignment where students develop a topic for study. Students should contact the instructor for this assignment.

SCIENCE ELECTIVES

AP Science Lab Seminar

Grades 11-12 | 1 elective credit

Co-requisites: AP Biology, AP Chemistry, AP Environmental Science and/or AP Physics II(C)

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

Students are required to take this one credit laboratory course as a component of AP Biology, AP Chemistry, AP Physics II (C) and AP Environmental Science. Grades from the class and the lab will be averaged and assigned for both portions of the course.

SOCIAL STUDIES

A verified unit of credit for graduation is based on a student's satisfactory completion of a course and a passing score on the end-of-course Standards of Learning (SOL) test for that course. Currently, there are SOL History and Social Sciences tests for U.S. History, World History Part I and World History Part II. The number of verified credits required depends on the graduation year and type of diploma. See page 50.

SOCIAL STUDIES CORE COURSES

World History and Geography Part I

Grade 9 | 1 credit

This course explores world history from the ancient time period to 1500 A.D. Through a study of world civilizations and their historical development, students gain an understanding of contemporary global issues. Students examine distinguishing characteristics of cultures through literature, art, architecture, music, religion, philosophy and geography.

Honors World History and Geography Part I

Grade 9 | 1 credit

Entry into this Honors-level course is open to any student willing to complete the required assignments.

This course explores world history from the ancient time period to 1500 A.D.

Through a study of world civilizations and their historical development, students gain an understanding of contemporary global issues. Students examine distinguishing characteristics of cultures through literature, art, architecture, music, religion, philosophy and geography. The Honors sections are more reading intensive and require independent thought and sustained effort. This course incorporates strategies and skills to help students prepare for AP World History: Modern and Geography II in 10th grade.

World History and Geography Part II

Grade 10 | 1 credit

This course is a survey of world history circa 1400 through the post-Cold War world of the early 21st century. The course helps students form connections between time periods and diverse areas of the world by analyzing social, cultural, political, economic, environmental, and intellectual movements. This course emphasizes the development of reading, writing, analytical, communication, and research skills.

Honors World History and Geography Part II

Grade 10 | 1 credit

Students enrolled in this Honors course are advised to have taken World History and Geography Part I and to have earned a B or better.

This high school Honors World History course provides students with a comprehensive, intensive study of major events and themes in world history geared toward preparing the students for the academic rigors of college, AP and Dual Enrollment courses. This course is a survey of world history starting in circa 1500 with the Renaissance through the post-Cold War of the early 21st century. Students at this level should have reading and composition skills appropriate to their grade level. The course emphasizes

the development of reading, writing, analytical and research skills necessary for understanding historical materials. Students are required to complete several comprehensive writing assignments based on the 11th-grade AP History and English models.

AP Human Geography

Grade 9 | 1 credit

Students who enroll in AP courses must take the end-of-course AP exam. The cost of this exam is paid for by ACPS. Additionally, students will take the Virginia Department of Education World Geography end-of-course SOL.

This college level course is designed to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alterations of the Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. The curriculum reflects the goals of the National Geographic Standards (2012).

Virginia and U.S. History

Grade 11 | 1 credit

In this course, students examine American history from exploration to the present, focusing on political and economic history. Students also explore American culture through a chronological survey of major issues, movements, people and events in United States and Virginia history.

Honors Virginia and U.S. History

Grade 11 | 1 credit

In this course, students examine American history from exploration to the present, focusing on political, social, and economic history. Students also explore American culture through a chronological survey of major issues, movements,

people and events in United States and Virginia history. Students enrolling in the course at this level should have reading and composition skills appropriate to their grade level. The course emphasizes the development of reading, writing, analytical and research skills necessary for understanding historical materials. Students encounter a variety of activities and materials including maps, college-level readings, document-based question essays, Socratic seminars, analysis of primary and secondary historical documents, free response research papers, and library sources. Students are required to complete several comprehensive writing assignments throughout the school year.

AP United States History

Grade 11 | 1 credit

Students who enroll in AP courses must take the end-of-course AP exam. The cost of these exams is paid by ACPS.

Using a college-level text, students study the major themes, events and ideas that have shaped the history of the United States. Students probe, in depth, the dynamics of American political and diplomatic decision making, national and sectional interests and a variety of personalities and social movements related to the historical development of the nation. Emphasis is placed on themes of American history, their relationship to contemporary events, and the skills needed for the AP United States History test.

Dual Enrollment College U.S. History

Grade 11 | 1 credit

Prerequisite: Meets college entrance requirements

This is a two-semester dual enrollment course offered through NOVA. Students who successfully complete this course earn six college credits in History. This course surveys United States history from its beginnings to the present. HIS 121 begins in the pre-Columbian period and

ends with the Reconstruction period. HIS-122 begins with the Gilded Age and ends in the present. Students use college-level texts and historical documents to study the themes, events and ideas that have shaped the history of the United States. Emphasis is placed on college-level reading and writing assignments including essays and research papers, and the skills needed for the AP United States History Exam. Students need a C or better at the end of the first semester to enroll in the second-semester course. Students who do not have a C or better will be moved to a non-college level-course.

Virginia and U.S. Government Grade 12 | 1 credit

This course examines the origins and workings of the United States and Virginia governments. Students analyze the United States and Virginia Constitutions and the structure and operation of our federal system, including policy-making, economics, foreign affairs and civil rights. Students explore the impact of the general public, political parties, interest groups and the media on policy decisions. Further, the United States' political and economic systems are compared with the economic systems of other nations, with an emphasis on the relationship between economic and political freedoms. An economics unit covers the United States' market system, the fundamentals of supply and demand and the role of government in the economy.

Honors Virginia and U.S. Government - We the People Grades 12 | 1 credit

This course fulfills the U.S.VA

Government graduation requirement.

This course will appeal to students who like demonstrate skills in debate and public speaking, and have an interest in law, public policy the U.S. Constitution and government. Students will gain an in-depth knowledge of our Constitution

and political system while working towards the following goals:

1. Prepare to participate in the district and state-wide "We the People" competitions, and/or showcase.
2. Empower students to think about the world in which they live, and study specific public policy issues with an eye toward affecting change in the community. Students pick an issue they believe is in need of change. Then thoroughly research the topic to determine alternatives to the current situation, costs of the change and which public officials are responsible for decision-making, then construct an action plan designed to bring about change. Students will be inspired to contact government officials, present testimony at public hearings and lobby for proposed change.

AP United States Government and Politics

Grade 12 | 1 credit

Students who enroll in AP courses must take the end-of-course AP exam. The cost of these exams is paid by ACPS.

Students examine the principles and processes of government, particularly of the United States government at the national, state and local levels. Topics include political heritage, the Constitution, politics, civil rights and civil liberties, the institutions of government, law and the justice system, basic economics and current domestic and foreign policy. Intended for highly motivated students, this course uses college-level materials and includes a summer reading requirement. Students complete challenging assignments involving reading, analysis, writing and speaking in preparation for the AP test.

SOCIAL STUDIES ELECTIVES

AP World History: Modern

Grade 10 | 1 credit

Grades 11-12 | 1 elective credit

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

Modern is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

AP European History

Grades 11-12 | 1 credit

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

This college-level course is designed to develop greater understanding of the context of modern-day political, diplomatic, social, economic, artistic, intellectual and cultural institutions through the study of European history since 1450 B.C.E. Such understanding is advanced through a combination of selective factual knowledge and appropriate analytical and interpretative skills, focusing on primary and secondary source documents.

AP Comparative Government and Politics

Grades 12 | 1 credit

Comparative Government and Politics is an incredibly important field of study for students in our modern, interconnected world. Globalization and other events over the past several decades have drawn the countries of the world closer together than at any other point in history. Events

around the globe now directly impact our lives, and it is the job of students, our future leaders, to understand the similarities and the differences of these countries. In this course, students compare and contrast the government and politics of each of the countries studied and analyze both commonalities and differences among modern political systems throughout the world. The six countries studied are Great Britain, Iran, Russia, China, Mexico and Nigeria.

AP Microeconomics

(one semester)

Grades 11-12 | 0.5 elective credit

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

Microeconomics provides a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. These consumers and producers include households, business firms, government and community organizations. The course places primary emphasis on the nature and functions of product markets, and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy.

AP Macroeconomics

(one semester)

Grades 11-12 | 0.5 elective credit

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

Macroeconomics is designed to give students a thorough understanding of the principles of economic analysis that apply to an economic system as a whole. Macroeconomics places particular emphasis on the study of economic institutions, issues of public policy, national income and price determination. Emphasis will

be placed on the following: basic economic concepts, measurement of economic performance and national income analysis, including Classical, Keynesian and Monetarist views of the economy, including fiscal and monetary policy. International economics, trade issues and banking policies will be discussed.

Global Majority Studies

Grades 10-12 | 0.5 elective credit

This semester course surveys the minority experience in the United States and how it affects all citizens. Issues of race, gender and culture are discussed and analyzed for political, cultural and socioeconomic impact on American society. Strategies such as action research, Socratic seminars, data interpretation, primary and secondary source readings, oral presentations, research papers and written response are used to guide students in their study. Students participate in positive discourse in preparation for success in the 21st-century global community.

Personal Living and Finance

Grades 10-12 | 1 credit

Prerequisite: 3 standard credits in History and Social Studies

The Personal Living and Finance objectives require instruction in those skills necessary to handle personal business and finances and include, but need not be limited to, opening a bank account and judging the quality of a bank's services; balancing a checkbook; completing a loan application; the implications of an inheritance; the basics of personal insurance policies; consumer rights and responsibilities; dealing with salesmen and merchants; debt management, including retail and credit card debt; state and federal tax computation; local tax assessments; computation of interest rates by various mechanisms; understanding simple contracts; and how to contest an incorrect bill. The course includes the 21 work readiness skills and students take the Workplace Readiness Skills for

the Commonwealth Exam and/or w/le Exam. This course is only available to students with disabilities where credit accommodation is documented in the IEP.

Psychology

Grades 10-12 | 0.5 elective credit

This course introduces students to the goals and principles of psychology. Students examine the history, theorists, theoretical approaches and research methods of psychology. They learn how biological factors affect behavior, attitudes and motivation and examine types of abnormal behaviors. They discover how to better communicate with and relate to peers and how to achieve greater awareness and understanding of self, family and friends. This course also focuses on the ethical standards governing the work of psychologists.

AP Psychology

Grades 10-12 | 1 elective credit

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

This course is designed to introduce students to a comprehensive and in-depth scientific study of behavioral and mental processes of human beings and other animals. Students are exposed to current trends in psychological research and the facts, principles and phenomena associated with each subfield within psychology. They also learn about the ethics and methods psychologists use in their science and practice. AP Psychology is a good option for students who are interested in learning about the methods psychologists use to explore the processes involved in normal and abnormal perceptions, thoughts, feelings and actions.

Social Justice

Grades 10-12 | 0.5 elective credit

Any student interested in social issues, such as violence, peace and war, the environment or human rights, should find

this course valuable. The focus is divided between the theoretical and the practical. Students learn the history, philosophy and methods of non-violence and investigate present day applications of the non-violence philosophy. Additionally, students examine the causes of conflict in their relationships and in the larger society.

Sociology

Grades 10-12 | 0.5 elective credit

This course introduces students to the basic principles of sociology and its many related fields and careers. Students examine social problems, such as cultural and ethnic relations, delinquency, crime and community problems as presented through surveys, case histories and exam of selected current topics. Probation officers, religious leaders, social service workers and other resource persons offer a wide range of topics to examine and discuss. Students also examine the functions of social institutions, changing sex roles, changes related to education and human growth and the experiences of minorities. Students are introduced to the study of ethnography and social stratification.

ADVANCED PLACEMENT CAPSTONE

AP Research

Grade 10-12 | 1 credit

Prerequisite: AP Seminar

AP Research, the second course in the AP Capstone Diploma program, allows students to explore an academic topic of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, students further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly

work through their reflection portfolio. The course culminates in an academic paper of 20+ pages and a presentation with an oral defense.

AP Seminar Year 1

Grades 10-12 | 1 credit

In AP Seminar, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments. In AP Research, students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis.

WORLD LANGUAGES

All World Languages courses apply toward elective credit.

World Language Credit by Exam

Students in grades six through 12 with the ability to comprehend and communicate in languages other than English now have the opportunity to earn up to three high school credits for world languages. Assessments are available in over 100 languages, including American Sign Language. The World Language Credit by Exam is offered one time per year in the fall. For more information please visit the Alexandria City Public Schools website at www.acps.k12.va.us/worldlanguagecredit.

Chinese I

Grades 9-12 | 1 credit

Students develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills: listening, speaking, reading and writing. The development of students' ability to communicate orally and in writing remains a focus of the course. Students continue to explore and

study themes related to personal and family life, school life and community life. By the end of the course, students will have an expanded knowledge of 300 Chinese characters, with the ability to read and write them in simple sentence structures.

Chinese II

Grades 9-12 | 1 credit

Students continue to develop the ability to communicate about themselves and their immediate environment using simple sentences containing basic language structures. This communication is evidenced in all four language skills: listening, speaking, reading and writing, with emphasis on the ability to communicate orally and in writing. Students begin to show a greater level of accuracy when using basic language structures, as they are exposed to more complex features of the language. Students continue to focus on communicating about their immediate world and daily life activities. Emphasis continues to be placed on the use of the target language in the classroom as well as on the use of authentic materials to learn about the culture. Some familiar themes and topics from level I may reoccur in level II. However, the spiraling nature of embedded theme-based instruction requires students to demonstrate their communicative skills and acquired linguistic knowledge at a new developmental level.

Chinese III

Grades 9-12 | 1 credit

Students continue to develop and refine their proficiency in all four language skills: listening, speaking, reading and writing, with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics, moving from concrete to more abstract concepts. At this level, students comprehend the main ideas of the authentic materials that they read and hear, and they are able

to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying rights and responsibilities, future plans and choices, teen culture, the environment and humanities. Some familiar themes and topics from levels I and II may reoccur in level III. However, the spiral nature of the theme-based instruction requires students to demonstrate their communicative skills and linguistic sophistication at a new developmental level.

Chinese IV Honors

Grades 10-12 | 1 credit

Students continue to develop and refine their proficiency in all four language skills: listening, speaking, reading and writing, with emphasis on the ability to interact orally and in writing. They communicate using more complex language structures on a variety of topics, focusing on abstract concepts. At this level, students comprehend the main ideas of the authentic materials that they read and hear, and they are able to identify significant details when the topics are familiar. Students gain a deeper understanding of the world around them while studying Beijing, facets of China's traditional culture, social life, hobbies, the environment, work and college. Some familiar themes and topics from Chinese I, Chinese II and Chinese III may reoccur, however, the spiral nature of theme-based instruction requires students to demonstrate their communicative skills and sophistication at a new developmental level.

AP Chinese Language and Culture

Grades 10-12 | 1 credit

Prerequisite: Chinese IV Honors or equivalent

AP Chinese Language and Culture focuses on refining skills in reading, writing and listening in Chinese. Special emphasis is placed on improving speaking proficiency. Cultural topics such as his-

tory, civilization, philosophy, music and art are studied in depth. In addition, students read and analyze several works/excerpts from various genres of literature. Intense vocabulary and grammar review prove integral parts of this course, which is conducted almost entirely in Chinese.

Advanced Topics in Chinese Language and Culture VI

Grades 11-12 | 1 credit

AP/DE 1.0 additional Quality Point

Prerequisite: AP Chinese Language and Culture

This full-year course is taught in Chinese and is thematic in nature. It assumes strong foundational skills in speaking, listening, reading and writing, and will expand upon the AP themes introduced during the previous two years of study. As such, it covers a wide range of topics related to the history of China, contemporary Chinese life, and the Chinese speaking world. Specific units may vary from year to year depending upon current events. Course goals: Advanced Topics in Chinese Language and Culture seeks to provide students with a means of maintaining and building upon the fluency they have worked to gain during their years in ACPS. The study of content-rich topics organized around themes will provide students with the opportunity to broaden their understanding of the world and in particular that of the Chinese speaking world. Providing an uninterrupted sequence of language study will maximize the potential for student success at college.

French I

Grades 9-12 | 1 credit

Students learn essential vocabulary and structures for day-to-day situations. Vocabulary and grammar structures are presented in real-life contexts and are developed around specific communicative functions. Topics focusing on adolescents' lives, needs and experiences, such as family, after-school activities

and shopping, are integrated into instruction, as well as products, practices and perspectives drawn from the target culture. During the language-learning process, students gain insights into how their own language is structured, as well as an increased understanding of the relationship between culture and language. Students also develop an appreciation for the many recreational, educational and occupational uses of French beyond the classroom. This course stresses communication and culture, making use of a variety of ancillary materials and appropriate technology applications to present the language in an authentic manner. Students attain language proficiency through acquired cultural knowledge and the development and application of the four language skills: listening, reading, speaking and writing.

French Conversation and Culture I - Summer School

Grades 9-11 | 1 credit

Prerequisite: French I

This is an intensive situation-oriented conversation course, with a cultural component, based on practical application. The course is intended for students participating in our exchange with a partner school in Caen, France. Pre-departure instruction prepares students to function in everyday situations and conversational exchanges to be encountered during a two-to three-week home-stay with a French family. While in France, students attend regularly scheduled classes and immerse themselves in the French language and culture. This course offering is dependent upon student interest and the availability of qualified teacher chaperones. Each student produces and submits a project upon completion of the home-stay.

French II

Grades 9-12 | 1 credit

Prerequisite: French I

Students continue the study of French language and culture, with emphasis on

the development of communicative competence. French II centers on further development of students' reading, writing, listening and speaking skills in the target language. Students begin to show a greater level of accuracy when using basic language structures. They focus on communicating information about their immediate world and daily activities as they encounter more complex features of the language. Vocabulary, grammar and language structures are presented in real-life contexts and are developed around specific communicative functions. Emphasis continues to be placed on the use of French within and beyond the classroom, with the integration of authentic materials into instruction to learn about the cultures of the French-speaking world.

French III

Grades 9-12 | 1 credit

Prerequisite: French II

In the French III course, students continue to focus on the development of communicative competence in the target language, while enhancing their productive and receptive skills. Students will understand oral and written messages in French, and will interact with each other and with the teacher, both orally and in writing. During the third level of language study, students begin to use more complex structures and are able to communicate about an increasingly wider range of topics. Units of study are thematic in nature and grammatical concepts are presented and practiced in context. Thematic units include contemporary life, choices and future plans, teen culture, the environment and the humanities. The level III class is conducted largely in French.

French IV Honors

Grades 10-12 | 1 credit

Prerequisite: French III

Level IV French reviews and recycles some of the essential structures intro-

duced in levels I, II and III. As students revisit these key concepts, focus is on the development of communicative competence, both in writing and in speaking. Units of study are thematic in nature and grammatical points are presented and practiced in context throughout the year. Vocabulary is introduced via short readings, contemporary articles, songs and films. During the course of the year, students refine their control of the major verb tenses and focus on clear and consistent use of tense in sequencing events. The course is conducted in French and students are expected to use the target language with the instructor and with each other in the classroom.

AP French Language and Culture

Grades 10-12 | 1 credit

Prerequisite: French IV Honors or equivalent, and/or permission of instructor.

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

AP French V focuses on refining skills in reading, writing and listening in French. Special emphasis is placed on improving speaking proficiency. Cultural topics such as history, civilization, philosophy, music and art are studied in depth. In addition, students read and analyze several works/ excerpts from various genres of literature. Intensive vocabulary and grammar review prove integral parts of this course, which is conducted entirely in French.

Advanced Topics in French Language and Culture VI

Grades 11-12 | 1 credit

AP/DE 1.0 additional Quality Point

Prerequisite: AP French Language and Culture

This full-year course is taught in French and is thematic in nature. It assumes strong foundational skills in speaking, listening, reading and writing, and will

expand upon the AP themes introduced during the previous 2 years of study. As such, it covers a wide range of topics related to the history of France, contemporary French life, and the Francophone world. Specific units may vary from year to year depending upon current events. Course goals: Advanced Topics in French Language and Culture seeks to provide students with a means of maintaining and building upon the fluency they have worked to gain during their years in ACPS. The study of content-rich topics organized around themes will provide students with the opportunity to broaden their understanding of the world and in particular that of the Francophone world. Providing an uninterrupted sequence of language study will maximize the potential for student success at college.

German I

Grades 9-12 | 1 credit

Level I German focuses on the development of communicative competence and on the understanding of German-speaking cultures. Students develop a solid and comprehensive foundation in the target language in the domains of listening, speaking, reading and writing. Vocabulary and grammar structures are presented in real-life contexts and are developed around specific communicative functions. Topics focusing on adolescents' lives, needs and experiences, such as family, after-school activities and shopping are integrated into instruction, as well as products, practices and perspectives drawn from the target culture. During the language-learning process, students gain insights into how their own language is structured, as well as an increased understanding of the relationship between culture and language. Students also develop an appreciation for the many recreational, educational and occupational uses of German beyond the classroom.

German Conversation and Culture 1 - Summer School

Grades 9-11 | 1 credit

This is an intensive situation-oriented conversation course, with a cultural component, based on practical application. The course is intended for students participating in our student exchange with a partner school in Austria. Pre-departure instruction prepares students to function in everyday situations and conversational exchanges likely to be encountered during their two-week home-stay with an Austrian family. While in Austria, students attend regularly scheduled classes and immerse themselves in the German language and culture. Field trip locations include Munich, Salzburg and Vienna. This course offering is dependent upon student interest and the availability of qualified teacher chaperones. Students produce and submit projects upon completion of the course.

German II

Grades 9-12 | 1 credit

Prerequisite: German I

In German II, students continue to develop their proficiency in the three strands of communicative competence: interacting with other speakers of German, understanding oral and written messages in German and making oral and written presentations in German. Students begin to demonstrate a greater level of accuracy when using basic language structures and are exposed to more complex features of the German language. Students continue to focus communication on their immediate world and daily life activities. Emphasis continues to be placed on the use of German in the classroom, as well as on the use of authentic materials to learn about the culture.

German III

Grades 9-12 | 1 credit

Prerequisite: German II

Students continue the development of communicative competence as they enhance productive and receptive skills. Units of study are thematic in nature and grammatical concepts are presented and practiced in context. Thematic units include contemporary life, choices and future plans, teen culture, the environment and the humanities. Students understand oral and written messages in German and interact with each other and with the teacher, both orally and in writing. During the third level of language study, students begin to use more complex structures and are able to communicate about an increasingly wider range of topics. The level III class is conducted largely in German.

German IV Honors

Grades 10-12 | 1 credit

Prerequisite: German III

In this pre-AP course students continue to develop their proficiency in the three strands of communicative competence: interacting with other speakers of the language, understanding authentic oral and written messages in the target language and making oral and written presentations in the target language. This highly rigorous curriculum requires students to analyze and synthesize authentic materials and exchange and support opinions on a variety of topics related to contemporary and historical events and issues, at a proficiency level commensurate with their study. Students comprehend spoken and written texts from a variety of authentic sources as well as produce compositions containing well-developed ideas on various topics. Units of study are thematic in nature and grammatical points are presented and practiced in context throughout the year. Vocabulary is introduced via short readings, ranging from the radio play "Das Mysteriose Kon-

zett” by Hans Konig to contemporary articles, interviews, songs, film and the popular children’s novel “Emil und die Detektive” by Erich Kastner. During the course of the year, students refine their control of the major verb tenses (present, past, future and conditional) and focus on clear and consistent use of tense in sequencing events. The course is taught in German and students are expected to use German with the instructor and with each other in the classroom.

AP German Language and Culture

Grades 10-12 | 1 credit

Prerequisite: German IV Honors or equivalent

Students who enroll in AP courses must take the end-of-course AP exam. The cost of these exams is paid by ACPS.

In AP German Language and Culture, students refine reading, writing and listening skills, with special emphasis on improving speaking proficiency. Students examine cultural topics such as history, civilization, philosophy, music and art in depth, and read and analyze several works/excerpts from various genres of literature. Students read one radio play, several short stories and poems and three short novels in German. Intensive vocabulary and grammar review is an integral part of this course, which is conducted entirely in German.

Advanced Topics in German Language and Culture VI

Grades 11-12 | 1 credit

AP/DE 1.0 additional Quality Point

Prerequisite: German Language and Culture

This full-year course is taught in German and is thematic in nature. It assumes strong foundational skills in speaking, listening, reading and writing, and will expand upon the AP themes introduced during the previous two years of study. As such, it covers a wide range of topics

related to the history of Germany, contemporary German life, and the German speaking world. Specific units may vary from year to year depending upon current events. Course goals: Advanced Topics in German Language and Culture seeks to provide students with a means of maintaining and building upon the fluency they have worked to gain during their years in ACPS. The study of content-rich topics organized around themes will provide students with the opportunity to broaden their understanding of the world and in particular that of the German speaking world. Providing an uninterrupted sequence of language study will maximize the potential for student success at college.

Latin I

Grades 9-12 | 1 credit

In this course, students focus on the development of communicative competence and their understanding of Roman culture. Students develop a solid and comprehensive foundation in the target language in the domains of listening, speaking, reading and writing. Vocabulary and grammar structures are presented in historical and real-life contexts and are developed around specific communicative functions. Topics focusing on history, culture, literature and daily life are integrated into instruction, as well as products, practices and perspectives drawn from the target culture. During the language-learning process, students gain insights into how their own language is structured, as well as an increased understanding of the relationship between culture and language. Students also develop an appreciation for the many recreational, educational and occupational uses of Latin beyond the classroom.

Latin II

Grades 9-12 | 1 credit

Prerequisite: Latin I

Students enrolled in Latin II continue to develop their ability to comprehend

written Latin texts with more complex grammar and syntax. The focus on comprehending Latin differs from the primary goal of the modern languages. Students read and comprehend adapted and/or authentic Latin from original sources. They learn about the perspectives, practices and products of the ancient Romans in areas such as architecture, art and history. Students compare these cultural and historical elements with those in their own culture, and find examples of the influence of Greco-Roman civilization in their own world. Students also compare effects of the geography of the ancient Roman world and that of the United States on aspects of culture such as food, dwellings, clothing and the arts.

Latin III

Grades 9-12 | 1 credit

Prerequisite: Latin II

Students continue the development of linguistic skills applied in the comprehension of authentic Latin texts with complex linguistic structures. Students expand their knowledge of archaeological evidence, art and literature as reflections of Greco-Roman perspectives and practices. They examine the Roman political system, multi-cultural aspects of the Roman Empire, and the role of geography in military history, and compare these with similar aspects of United States history and geography.

Latin IV Honors

Grades 10-12 | 1 credit

Prerequisite: Latin III

In Latin IV, students refine their skills in translation and interpretation of Roman poetry. Because the focus on comprehending Latin differs from the primary goal of the modern languages, the course centers on the interpretation of texts rather than on person-to-person communication. Students analyze the effects of features of style, such as figures of speech, word choice and meter, on a given author’s work. They expand their knowl-

edge of the perspectives and practices of Greco-Roman civilization by examining its philosophy, religion, mythology and standards of personal conduct. Students also discuss the contributions of the Romans to modern law, government, art and architecture.

AP Latin

Grades 11-12 | 1 credit

Prerequisite: Latin IV Honors

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPS.

In AP Latin, students refine their skills in translation and interpretation of Roman poetry. Students practice oral reading and study cultural topics, such as history, civilization and various philosophies, as they apply to the poetry and selected authors. Students also review grammar structures and learn new vocabulary, figures of speech and rhetorical devices.

Advanced Topics in Latin Language and Culture VI

Grades 11-12 | 1 credit

AP/DE 1.0 additional Quality Point

Prerequisite: AP Latin

Advanced Topics in Latin continues the study of Latin through reading selections of authentic, unadapted classical Latin prose and poetry from authors whose use of Latin is more rigorous and challenging. Building on their successes in their previous Latin courses students will continue to develop their fluency skills in reading and comprehending Latin prose and poetry from a variety of authors. At the same time, students will learn the political, economic, social, intellectual, cultural, and religious aspects of classical antiquity. Students will also have the opportunity to compare the Latin selections to literature from other cultures, in addition to reading contemporary scholarship.

Spanish I

Grades 9-12 | 1 credit

Students begin the study of Spanish, learning basic vocabulary and language structures for day-to-day situations. This course places emphases on the development of communicative skills and the expansion of cultural knowledge, making use of a variety of ancillary materials and appropriate technology applications to present the language in an authentic manner. Students attain language proficiency through the development and application of the four language skills: listening, reading, speaking and writing.

Spanish Conversation and Culture 1 - Summer School

Grades 9-11 | 1 credit

Prerequisite: Spanish I

This is an intensive situation-oriented conversation course, with a cultural component, based on practical application. The course is intended for students participating in our exchange with a partner school in Lima, Peru. Pre-departure instruction prepares students to function in everyday situations and conversational exchanges to be encountered during their two- to three-week home-stay with a Peruvian family. While in Peru, students attend regularly scheduled classes and immerse themselves in Spanish language and culture. This course offering is dependent upon student interest and the availability of qualified teacher chaperones. Each student produces and submits a project upon completion of the home-stay.

Spanish II

Grades 9-12 | 1 credit

Prerequisite: Spanish I

Students continue the study of Spanish language and culture, with emphasis on the development of communicative competence. Spanish II centers on further development of students' reading, writing, listening and speaking skills in the target language. Students begin to

show a greater level of accuracy when using basic language structures. They focus on communicating information about their immediate world and daily activities as they encounter more complex features of the language. Vocabulary, grammar and language structures are presented in real-life contexts and are developed around specific communicative functions. Emphasis continues to be placed on the use of Spanish within and beyond the classroom, with the integration of authentic materials into instruction to learn about the cultures of the Spanish-speaking world.

Spanish III

Grades 9-12 | 1 credit

Prerequisite: Spanish II

In Level III Spanish, students continue to develop their proficiency in the three strands of communicative competence: interacting with other speakers of the language, understanding oral and written messages in the target language and making oral and written presentations in the target language. They communicate at a level commensurate with their study, using more complex structures in the language on a variety of topics and moving from concrete to more abstract concepts. Students comprehend the main ideas of authentic materials they listen to and read, and are able to identify significant details when the topics are familiar. Students develop the ability to discuss in the target language topics related to historical and contemporary events and issues.

Advanced Spanish Dual Language

Grade 9 | 1 credit

Prerequisite: Dual Language C or equivalent

This course is the continuation of the Spanish Dual Language program from middle school. In this course students will improve their skills in interpretive, interpersonal and presentational communication as well as their knowledge of Hispanic cultures. Emphasis is placed on

content rich materials, including novels, news articles, non-fiction texts, and authentic audio-visual materials. There is a congruent review of grammar themes from Dual Language A-C. This includes the present, preterit, imperfect, present progressive, conditional, future, and subjunctive tenses. In addition to learning more complex grammar structures, students will also increase their vocabulary to enrich and improve their communication skills in Spanish.

Spanish IV Honors

Grades 10-12 | 1 credit

Prerequisite: Spanish III

Students continue to develop their proficiency in the three strands of communicative competence: interacting with other speakers of the language, understanding oral and written messages in the target language and making oral and written presentations in the target language. They are able to exchange and support opinions on a variety of topics related to contemporary and historical events and issues, at a proficiency level commensurate with their study. Students comprehend spoken and written texts from a variety of authentic sources as well as produce compositions containing well-developed ideas on various topics. Class is conducted exclusively in Spanish. Students use the target language to access information in other subject areas and to compare and contrast cultural elements in the countries where the language is spoken with their own.

AP Spanish Language and Culture

Grades 10-12 | 1 credit

Prerequisite: Spanish IV Honors or equivalent

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPs.

In AP Spanish Language and Culture, students refine language skills, with

emphasis on improving speaking proficiency. Students study cultural topics, such as history, civilization, philosophy, music and art, in depth. In addition, students read and analyze several works/excerpts from various genres of literature. Intensive vocabulary and grammar review prove integral parts of this course, which is conducted entirely in Spanish.

AP Spanish Literature and Culture

Grades 10-12 | 1 credit

Prerequisite: Spanish IV Honors or equivalent

Students who enroll in AP courses must take the end-of-course AP exam.

The cost of these exams is paid by ACPs.

The AP Spanish Literature and Culture course introduces students to the formal study of a representative body of Peninsular and Latin American literary texts. Students study a variety of genres and types of discourse, enabling them to trace the history of Spanish prose from Don Juan Manuel to modern times. Throughout the course, students engage in extensive analysis, critique, and discussion of authentic literary works. Students learn to read more critically, and write and speak clearly in Spanish, while becoming acquainted with major movements in Hispanic Literature. The course is conducted completely in Spanish.

Spanish for Heritage Speakers I

Grades 9-12 | 1 credit

This course is designed for students who are orally proficient in Spanish, but have limited to no reading and writing ability. Emphasis is placed on familiarizing students with the structural and written aspects of the language to improve their reading and writing skills. Students will begin to develop written compositions and become familiar with various literary genres. Students will also increase their awareness and appreciation of differences and similarities among the Hispanic cul-

ture. Upon successful completion of this course, students may progress to Spanish for Heritage Speakers II. Spanish is used exclusively in the classroom.

Spanish for Heritage Speakers II

Grades 9-12 | 1 credit

Prerequisite: Spanish for Heritage Speakers I or oral proficiency in spoken Spanish; limited proficiency in reading and writing Spanish. Proficiency to be determined by a placement test.

In this course, students will continue to expand their skills in listening, reading, writing and speaking Spanish. Emphasis is placed on increased complexity of grammatical structures, literary genres, and multi-paragraph basic compositions. Students are expected to understand the main ideas and some detail of authentic Spanish texts as they begin to analyze and synthesize written information. In written assignments, students will learn to summarize information, express their opinions, and provide some details. Students will also continue to study Hispanic culture by learning about various Hispanic personalities and historic events in Spanish speaking countries. Upon successful completion of this course, students may progress to Spanish for Heritage Speakers III. Spanish is used exclusively in the classroom.

Spanish for Heritage Speakers III

Grades 9-12 | 1 credit

Prerequisite: Spanish for Heritage Speakers II or oral proficiency in spoken Spanish; limited proficiency in reading and writing Spanish. Proficiency to be determined by a placement test.

This course concentrates on enhancing the students' existing competencies in listening, reading, writing and speaking Spanish through exposure to Hispanic history, geography, culture, and current events. Students will be able to express facts, ideas, and feelings in a variety of higher level speaking and writing tasks. Students will read, analyze, and interpret

a variety of authentic texts and improve their knowledge and application of grammatical structures. Students will share cultural perspectives and practices and develop a deeper understanding through the context of literature. Through reading, listening, and discussion activities, students will also continue to develop their vocabulary. Upon successful completion of this course, students may progress to Spanish IV or Spanish V/AP Spanish Language and Culture. Spanish is used exclusively in the classroom.

Multilingual Teacher Assistant

Grades 9-12 | 1 credit

This elective honors students who bring multilingual skills into the T.C. Williams High School global community. Students who are bilingual can serve as teacher assistants in content area classrooms or World Language classrooms to aid the teachers in strategic use of students' native languages or as language models in World Language classes.

COLLEGE TEST PREPARATION

College Test Preparation

Grades 11-12 | 0.5 elective credit

This course is designed to expose students to the format and structure of the SAT/ACT, provide students with targeted test strategies, prepare students to strengthen physical and mental preparedness and review key content for each test section. All test sections are covered in this course. Course content also improves basic math, grammar and reading skills. Participants also learn goal-setting, time management and college essay strategies and techniques.

Participants are expected to complete about 60 minutes of independent test practice weekly. In addition, participants receive an opportunity to take an actual conditions exam to practice test strategies

and target content preparation. Students who register for this course are expected to register for the SAT or ACT on a date scheduled toward the end of the semester.

COLLEGE SUMMIT

College Summit

Grade 12 | 1 elective credit

Students who enroll in this course will work with peer leaders to strengthen their college readiness skills and to receive support through the college selection and application process, including resume development, financial aid information and high performance in academic courses.

LEADERSHIP

Leadership Development I

Grades 10-11 | 1 credit

This course is designed for students who are active in school and community organizations and who need to identify and apply leadership skills. Students who are accepted into the Leadership Program learn the basic principles that will help them effectively function in academic, athletic, social and professional (career) environments. This course helps students promote responsible and ethical behavior in leadership positions. Students develop and implement several school-related marketing activities.

Leadership Development II

Grades 11-12 | 1 credit

Prerequisite: Leadership Development I

Students develop competencies in identifying individual aptitudes in relation to effective leadership skills, understanding organizational behavior, using effective communication in the workplace, handling human resources and organizational problems, supervising and training employees, resolving conflict and planning for the future. Continuing education in leadership is emphasized, as well as practical leadership experiences in

cooperation with school and community leaders.

Advanced Leadership Development III

Grade 12 | 1 credit

Prerequisite: Leadership Development II

This is the final course in the Leadership sequence. Students mentor new students in the program and serve as role models. Students take the lead in planning and organizing school programs and events. Students may initiate new programs and learn how to implement ideas.

ONLINE AND SATELLITE CAMPUS COURSES

The ACPS Online Learning Program (ACPS-OLP) provides opportunities for students to take Credit Recovery, Advanced Placement (AP), Elective and Original (first time) Credit Courses. Students who entered ninth grade for the first time in 2013-14 have a virtual course experience required in order to earn a Standard or Advanced Studies Diploma. ACPS students may take a course listed here through the ACPS-OLP to fulfill this requirement.

The Economics and Personal Finance course has been designed to be taught in a blended environment, thereby meeting the ACPS board approved definition to meet the online course requirement.

All courses offered through the ACPS-OLP provide individualized, self-paced instruction and take place on a learning management system (such as Blackboard). Upon enrollment, students are assigned a site based mentor to support their course enrollment as well as an online teacher to support the content. Courses are available for students in grades 9-12 and 6-8 (when deemed appropriate by school administration). Similarly, AP courses are available for grades 10-12 and as deemed appropriate by school administration for 9th graders.

Course credit varies and is dependent upon the course, however, electives are typically worth 0.5 credits, and core courses are worth 1.0 credit. Most courses are offered with rolling admissions (students can enroll at any time throughout the school year). Course offerings and availability fluctuate throughout the year per Virginia legislation. While online courses provide a wonderful flexibility for students to complete their coursework, students must stay on pace to complete the course on time. Therefore, a student's quarterly grade (appearing on his or her quarterly report card) is derived from a formula that is inclusive of both pace and performance.

A limited number of spaces are available each semester for online courses, and priority is given to near-term graduates.

Online courses are subject to vendor availability and VDOE approval status. Please note that not all courses listed below may be available, due to the prior reasons. Please check with Izora Everson, Director of Online Learning, regarding course availability.

For further information, please contact ACPS Director of Online Learning, Izora Everson at izora.everson@acps.k12.va.us or 703-619-8400.

For a full description of all courses, please go to: www.acps.k12.va.us/onlinelearning

ADVANCED PLACEMENT COURSES

Social Studies:

AP Art History
AP Human Geography
AP Macroeconomics
AP Microeconomics
AP Psychology
AP United States Government and Politics
AP United States History
AP World History: Modern

Science:

AP Biology
AP Environmental Science

Math:

AP Calculus AB
AP Calculus BC
AP Statistics

Technology:

AP Computer Science A

Language Arts:

AP English Language
AP English Literature

World Language:

AP French Language V

ORIGINAL CREDIT/ FOUNDATIONAL CREDIT CLASSES

Math:

Algebra I, Algebra I Honors
Algebra II, Algebra II Honors
Algebra II and Trigonometry
Algebra, Functions and Data Analysis
Calculus
Geometry
Pre-Algebra
Pre-Calculus
Probability & Statistics

Language Arts:

English 9, English 9 Honors
English 10, English 10 Honors
English 11, English 11 Honors
English 12, English 12 Honors
Journalism

Science:

Biology, Biology Honors
Chemistry, Chemistry Honors
Earth Science
Ecology
Environmental Science
Physical Science
Physics

Social Studies:

U.S. V.A. Government, U.S. V.A. Government Honors
U.S. V.A. History, U.S. V.A. History Honors
Civics
Economics
Economics and Personal Finance
Psychology
Sociology
World History and Geography (to 1500), World History and Geography (to 1500) Honors

World History and Geography
(1500-present), World History and
Geography (1500-present) Honors

World Languages:

French I
French II
French III
German I
German II
Latin I
Latin II
Latin III
Mandarin (Chinese) I
Mandarin (Chinese) II
Mandarin (Chinese) III
Spanish I
Spanish II
Spanish III

ELECTIVES

Anthropology (0.5 credit)
Art Appreciation (0.5 credit)
Art History (0.5 credit)
Astronomy: Exploring the Universe
(0.5 credit)
Anatomy (0.5 credit)
Biotechnology (0.5 credit)
Biotechnology: Unlocking Nature's
Secrets (0.5 credit)
Careers in Criminal Justice (0.5 credit)
Career Planning (0.5 credits)
Computer Applications - Office 2010
Concepts in Fitness (0.5 credit)
Cosmetology: Cutting Edge Styles
(0.5 credit)
Cybersecurity I (0.5 credit)
Cybersecurity II (0.5 credit)
Drugs and Alcohol (0.5 credit)
Family and Consumer Science
(0.5 credit)
Family Living and Relationships
(0.5 credit)
Forensic Science I: Secrets of the Dead
(0.5 credit)
Forensic Science II: More Secrets of the
Dead (0.5 credit)
Gothic Literature: Monster Stories
(0.5 credit)

Health Grade 9 (0.5 credit) — taken in
conjunction with Physical Education
9 to comprise HPE 9
Health Grade 10 (0.5 credit) —
taken in conjunction with Physical
Education 10 to comprise HPE 10
Health and Personal Wellness (0.5 credit)
History of the Holocaust (0.5 credit)
Homebound PE and Health (0.5 credit)
International Business: Global Commerce
in the 21st Century (0.5 credit)
Introduction to Nursing I (0.5 credit)
Introduction to Nursing II (0.5 credit)
Introduction to Coding (0.5 credit)
Introduction to Communications and
Speech (0.5 credit)
Introduction to Women's Studies:
A Personal Journey through Film
(0.5 credit)
Law and Order: Introduction to Legal
Studies (0.5 credit)
Law Studies (0.5 credits)
Literacy and Comprehension 1 (0.5 credit)
Literacy and Comprehension 2 (0.5 credit)
Marine Science I (0.5 credit)
Marine Science II (0.5 credit)
Medical Terminology I (0.5 credit)
Mythology and Folklore: Legendary
Tales (0.5 credit)
Online Learning and Digital
Citizenship (0.5 credit)
Peer Counseling (0.5 credit)
Personal Finance (0.5 credit)
Personal Training (0.5 credit)
Physical Education 9 (.5 credit) —
taken in conjunction with Health 9
to comprise HPE 9
Physical Education Grade 10 (0.5
credit) — taken in conjunction with
Health 10 to comprise HPE 10
Physiology (0.5 credit)
Reading for College Success (0.5 credit)
Renewable Technologies (0.5 credit)
Social Problems I: Crisis, Conflicts, and
Challenges (0.5 credit)
Social Problems II: Crisis, Conflicts,
and Challenges (0.5 credit)
Sports and Entertainment Marketing
(0.5 credit)

Strategies for Academic Success
(0.5 credit)
Theater, Cinema, and Film Production
World Religions: Exploring Diversity
(0.5 credit)

CREDIT RECOVERY COURSES

Credit Recovery Algebra I
Credit Recovery Algebra II
Credit Recovery Algebra II
and Trigonometry
Credit Recovery Algebra Functions and
Data Analysis
Credit Recovery Geometry
Credit Recovery Probability & Statistics
Credit Recovery American Government
Credit Recovery American History
Credit Recovery Economics and
Personal Finance
Credit Recovery Geography
Credit Recovery World History
Credit Recovery Biology
Credit Recovery Chemistry
Credit Recovery Earth Science
Credit Recovery Ecology
Credit Recovery Physical Science
Credit Recovery Physics
Credit Recovery English 9
Credit Recovery Health Grade 9 (0.5
credit) — taken in conjunction with
Credit Recovery Physical Education 9
to comprise CR HPE 9
Credit Recovery Physical Education 9
(0.5 credit) — taken in conjunction
with Credit Recovery Health 9 to
comprise CR HPE 9
Credit Recovery English 10
Credit Recovery English 11
Credit Recovery English 12
Credit Recovery Health 10 (0.5 credit)
— taken in conjunction with Credit
Recovery Physical Education 10 to
comprise CR HPE 10
Credit Recovery Physical Education 10
(0.5 credit) — taken in conjunction
with Credit Recovery Health 10 to
comprise CR HPE 10

PROFILE OF A SUCCESSFUL ONLINE STUDENT

Students who choose to participate in online courses need to examine their personal skills and aptitudes for taking a class online. The following attributes will greatly contribute to a student's success:

Proficient Reading Level—Students should have an assessed Lexile level of 900 or greater on the Scholastic Reading Inventory.

Self-motivation—Students can direct their own learning environments and methods to fulfill course requirements and achieve individual academic success.

Independent learner—The online environment enables students to learn at their own paces, relieving the stress of feeling rushed or pressured and providing enjoyment in the learning process.

Computer literate—Although they do not need to have advanced computer skills, students should possess a working knowledge of email and the Internet, as well as basic keyboarding skills.

Time management—Students must be able to organize and plan their own best times to learn. There is no one best time for everyone, but the key to learning is to make the time to learn.

Effective written communication skills—Students must use email and discussion forums to communicate with their peers as well as the instructors. The ability to write clearly to communicate ideas and assignments is essential. This method provides the learner with rapid feedback as well as a means to inform instructors of any concerns or problems that he or she may be experiencing.

Personal commitment—Because there are no bells that begin and end classes, students must have a strong desire to learn and achieve knowledge and skills via online courses. Making a commitment to learn in this manner is a very personal decision and requires a strong commitment to perform to achieve academic success.

Last but not least, successful online students are students who decide for themselves that online learning is a choice that they want to make.

SPECIAL NOTE: Students may actually learn and hone the above skills by taking an online course. Be careful not to deny a student's request and interest in online learning simply because he or she has not mastered all of the above skills. These are merely considerations.

When may it be in the best interest of a student to enroll in an online course?

- To resolve scheduling conflicts at school or meet the needs of different schedule configurations
- To allow a student flexibility in use of time to meet other school/family/work commitments
- To take courses not available at the student's home school
- To make up a credit
- Online may be a better-suited learning environment
- Student desires the experience of taking a distance education course
- To provide opportunity for a student to complete course(s) at an accelerated pace
- To provide extended time to complete coursework for students who need additional time
- To meet the needs of a transferring student
- To assist students who have medical conditions that may not allow them to be present for a full day

When may it not be in the best interest of a student to enroll in an online course?

- The student does not meet the profile of a successful online student
- The student requires a remedial program, not an entire course
- The student will not have reliable access to the appropriate computer hardware
- Taking an online course is not the student's choice. Students should desire to take course(s) online rather than have significant adults choose the online courses for the students

ACADEMIC SUPPORT COURSES

Peer Mentoring for Students with Disabilities

Grades 9-12 | 1 credit

Peer mentoring is a course in which general education students are able to become more aware of various disabilities, learn to advocate for people with disabilities and interact with the students in the Small Group Classroom at our school. Peer mentors are responsible for providing assistance to students with disabilities in daily living, social, academic, vocational and community skills. As peer mentors, students are taught how to instruct students with disabilities in various settings and activities. As advocates, peer mentors set an example to others that people with disabilities have the same right to consideration and respect that all people are given.

Catapult Course

Grades 9-12 | No credit

This course is an opportunity for students to strengthen their study skills and complete assignments independently and with assistance, as needed. Students have time to continuously work on assignments, transfer tasks, prepare for assessments and work on projects currently in progress. Students also are able to receive academic support from tutors. An additional focus of this course is on organizational skills. Students have an

opportunity to plan ahead on projects and keep an updated homework/assignment calendar. Students enrolled in the Catapult Course are expected to work on materials that support their academic classes, and are encouraged to do revision and additional study on assignments in which they have received feedback from their teachers. If students are caught up on homework, assignments and projects, there will be other materials for them to

work on to strengthen reading, writing, math and organizational skills.

Life Skills

Grades 9-12 | 1 credit

Prerequisite: Student must be participating in the Career Preparation Curriculum.

This course will focus on four core areas including Health and Nutrition, Occupational Preparation, Home Maintenance, and Community Exploration. Concepts to be covered include but are not limited to basic personal health and awareness of the world, strengthening employment behaviors, menu planning, food preparation and establishing social relationships. This course may be taken more than one time for credit.

Programming for students who require support in acquiring independent living and functional skills is provided as a part of a comprehensive academic program for students with disabilities. Academic and functional skills are derived from standards aligned with the core curriculum offered to all students.

Specialized instruction is provided to ensure that students received explicit instruction in all areas of need outlined in their Individualized Education Programs (IEPs) and the Aligned Standards of Learning which supports the Virginia Alternative Assessment Program (VAAP). These classes provide students opportunities to practice the skills that are important for success in the community and future work place, such as communication, cooperation, following a schedule, problem solving, self-initiation and independent living. Students with disabilities are provided with opportunities to learn and practice independent living skills that align with the transition plans within students' IEPs. Instruction is delivered in general education or special education classes. Additional opportunities to use communication and other skills

are provided in the community through job sampling and internships.

Resource for Academic Purposes (RAP)

Grades 9-12 | 1 credit

Prerequisite: The student has an Individualized Education Program (IEP).

Students in the Resource for Academic Purposes (RAP) class participate in small group content instruction lessons that pre-teach key vocabulary, concepts, skills and targeted content to front load information prior to engaging with the content during instruction in the general education content classes. Based on progress in core content classes, students also have re-teaching opportunities to address student needs. Additionally, students learn and implement effective learning strategies while developing enhanced executive functioning skills. Placement in the RAP class is made through the IEP process in a collaborative decision making process incorporating school personnel and parents.

Social Skills - Autism

Grades 9-12 | 1 credit

Prerequisite: The student has an Individualized Education Program (IEP).

This course is specifically designed to meet the needs of learners identified as moderate to high-functioning autism or Asperger Syndrome to address both organizational and social skill deficits. The course focuses on increasing personal problem-solving and social relatedness skills. Students engage in various activities to increase their understanding and competence in social interactions with peers and authority figures as they approach graduation.

Social Skills - Emotional Disability

Grades 9-12 | 1 credit

Prerequisite: The student has an Individualized Education Program (IEP).

The cornerstone of the instructional program is the Skillstreaming model. This research-based program is designed to help students develop competence in dealing with interpersonal conflicts, learn to use self-control and contribute to a positive classroom atmosphere.

CAREER PREPARATION COURSES

Career Preparation 9

Grades 9 | 1 credit

Prerequisite: The student has an Individualized Education Program (IEP). Students in this class will learn to identify their own job skills through a variety of assessments. They will also learn the process of building a resume' and locating and applying for employment, as well as skills needed to maintain employment.

Career Preparation 10

Grade 10 | 1 credit

Prerequisite: Career Preparation 9 Students in this class will rotate every three to four weeks through jobs within the confines of T. C. Williams High School. At the job site, students work on various job skills, including following directions, social skills and independence.

Career Preparation 11

Grades 11 | 1 credits

Prerequisite: Career Preparation 10 Students in this class will continue to learn work readiness skills needed to maintain employment. Students will rotate every three to four weeks through jobs within the community. At the job site, students will work on various skills, including accessing public transportation, money skills and scheduling, as well

as following directions, communication, social skills, and independence.

Career Preparation 12

Grades 12

Prerequisite: Career Preparation 11

Students in this class will continue job sampling by participating in various job rotations lasting between six to eight weeks. In the process of their work experience, students will continue learning and acquiring work readiness skills that will help them to maintain employment. Students have been placed in internships that have led to employment.

Career Preparation-Post Graduate

Prerequisite: Career Preparation 12

The Career Preparation-Post-Graduate course is designed to prepare post-graduate students who have already had an initial exposure to job sampling experiences and instruction on building essential skills that allow them to gain meaningful and satisfying jobs after they graduate from T. C. Williams High School. This course incorporates a combination of functional, academic, and experiential activities. It is designed to help students refine their vocational and travel skills and assist them in gaining independence. Students engage in internships and/or competitive employment, participate in field trips and attend presentations by invited speakers from various local agencies to gain information that will impact decision making toward life goals. This class may be taken for a grade or pass/fail.

Employment Training I

Grades 10-11 | 1 credit

Prerequisite: The student has an Individualized Education Program (IEP). Students investigate daily living skills, personal-social skills and occupational fields within the classroom setting. They examine occupational requirements, explore career pathways, conduct

job searches, learn interview skills and demonstrate positive work traits and attitudes. This course is designed for students who plan to enter the work- force after high school.

Employment Training II

Grades 11-12 | 4 credits

Prerequisite: The student has an Individualized Education Program (IEP).

Students receive the opportunity to participate in a work setting while continuing with their employment training. Students participate in work training that is supervised or monitored by ACPS staff during the school day, and may rotate jobs in order to receive a sampling of different job types and work opportunities. Students receive additional classroom instruction when needed. Students are required to travel independently to and from their job sites.

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