

Course Description Guide for High School Students

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<u>①①/NorfolkPublicSchools</u>

NPS Mission Statement

The mission of Norfolk Public Schools, the cornerstone of a proudly diverse community, is to ensure that all students maximize their academic potential, develop skills for lifelong learning and are successful contributors to a global society, as distinguished by:

- Courageous advocacy for all students
- Family and community investment
- ❖ Data-driven personalized learning
- Strong and effective leadership teams
- Shared responsibility for Teaching and Learning
- * Access to rigorous and rewarding college and career readiness opportunities

NPS Board and Division Priorities

- Ensure full accreditation
- ❖ Increase academic achievement of all students − raise floor and ceiling simultaneously to close achievement gaps
- Improve climate, safety and attendance
- ❖ Become a School Board of Distinction
- ❖ Promote Norfolk Public Schools to reflect outstanding accomplishments of staff, teachers and students
- Develop and coordinate a capital improvement plan for facilities and technology to enhance teaching and learning
- Attract, retain, and help to develop strong academic families and highly qualified teachers and staff

NPS School Counseling Mission Statement

The school counseling program, based on national, state, and local standards in collaboration with all stakeholders (students, parents, faculty, community members, and local businesses), has been developed to ensure that all students (K-12) regardless of individual differences acquire the academic, career and personal/social competencies needed to access exciting options and opportunities upon graduation in order to become successful, productive contributors to society.

The Division thanks the Course Description Book Committee for their efforts to produce and update this handbook. Thanks to the Committee Members:

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School Year 2018-2019

Dear Students,

This high school course description guide is designed to provide you and your parents/guardians information that will assist in choosing courses that lead to a meaningful high school education and fulfill your graduation requirements. Whether you plan to enter community college, a four-year institution, the military, a workforce training program or the job market, choosing beneficial courses now will establish a strong foundation for your future college and career goals.

You are encouraged to take advantage of every opportunity available to you during your educational career. Take some time to review this course description book and the options available to you. Meet with your school counselor, your parents, and your teachers to discuss what education and marketable skills you'll need to achieve your goals. Remember, this is a time to build your foundation for future success. Don't be afraid to stretch your mind and take courses that will challenge and better prepare you for the exciting world you will enter after high school.

While the administration and the entire Norfolk Public Schools staff recognize the importance of being consistent in applying the procedures of this handbook, we also recognize the great diversity in our students' needs and the multiple career pathways available. As such, we will continue to work collaboratively to identify the courses to best meet student's needs. We will also continue to work towards providing engaging educational opportunities to prepare students for life after Norfolk Public Schools.

You have a team of administrators, counselors, teachers, and staff who are committed to make sure you receive the necessary skills and knowledge to prepare you for a rewarding career and to be active participants in the economy and the community. If you have any questions, please contact the school counseling and guidance department at your school for assistance. We are here to help you set your goals and to ensure you receive the best education possible. Always strive to better yourself and know that you can accomplish your dreams!

Sincerely,

Melinda J. Boone, Ed. D.

Superintendent

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GENERAL INFORMATION



Graduation Requirements at a Glance

Subjects	Advanced	Standard
	Studies Credits	Credits
English	4 (Including one credit from English 9, 10, 11, and 12)	(Including one credit from English 9, 10, 11, and 12)
Mathematics	4 (Including 1 credit at or above Algebra I and 3 different courses from among Algebra I, Geometry, Algebra II, or any other mathematics courses higher than Algebra II)	3 (Including one credit at or above Algebra I and from two courses from Algebra I, Geometry, Algebra Functions and Data Analysis, Algebra II or higher)
History / Social Science	4 (Including two credits from World History/ Geography, 1 credit from US/VA History and 1 credit from US/VA Government)	3 (Including one credit each from World History/ Geography, US/VA History and US/VA Government)
Science (Laboratory)	4 (From three different science disciplines)	3 (From two different science disciplines)
Health & Physical Education	2 (Including certification in First Aid/CPR/AED)	2 (Including certification in First Aid/CPR/AED)
Foreign Languages	3 (3 credits from one language or 2 from 2)	0
Fine Arts or Career & Technical Education	1	2 (Credits from Foreign Language, Fine Arts or CTE)
Economics and Personal Finance	1	1
Electives	3	4 (Including 2 sequential electives or a coherent sequence of career & technical courses)
Virtual Course	1 (Credit or non-credit)	1 (Credit or non-credit)
Career and Technical Education Credential		1
Standard Units of Credit	26	22
Verified Credits	9	6

Passing grades earned in high school credit-bearing in seventh and eighth grade courses count toward the credit requirements for high school graduation. These credits are included in a student's high school grade-point average and class rank. Parents can request the removal of these credit-bearing courses taken in middle school. However, this request must be done the summer of the 9th grade year.

Beginning with first-time ninth-grade students in the 2016-2017 school year, students shall 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 as a requirement for high school graduation.

Advanced Studies Diploma: Minimum Course & Credit Requirements

Discipline Area	Standard Credits Revised Advanced Studies Diploma Effective with ninth graders in 2011-2012	Verified Credits
English	4	2
Mathematics	4	2
Laboratory Science	4	2
History & Social Science	4	2
Foreign Languages	3	
Health & Physical Education	2	
Fine Arts or Career & Technical Education	1	
Economics and Personal Finance	1	
Electives	3	
Student Selected Test		1
Beginning with the 9th grawhich may be non-credit	nde class of 2013 – 2014 and beyond students bearing.	s must also complete one virtual course,
Total	26	9

Electives

Fine Arts and Career and Technical Education – Both the Standard and the Advanced Studies Diploma contain a requirement for one standard unit of credit in Fine Arts or Career and Technical Education. The Standards of Accreditation do not require that courses used to satisfy the requirement of Fine Arts or Career and Technical Education be approved by the Board. Therefore, local school officials should use their own judgment in determining which courses students take to satisfy the requirement of a unit of credit in Fine Arts or Career and Technical Education for the Advanced Studies and Standard.

Foreign Language – The Advanced Studies Diploma contains a requirement for three years of one foreign language or two years of two different languages. In March 1998, the Board of Education approved the provision of three years of instruction in American Sign Language (ASL) for foreign language credit toward an Advanced Studies Diploma; other foreign languages will satisfy this requirement as well. Details of this action are available in: Superintendent's Memo, Interpretive, #1, June 12, 1998.



Standard Diploma: Minimum Course & Credit Requirements

STANDARD DIPLOMA CO	OURSE REQUIRE	MENTS	
Discipline Area	Standard Credits Effective with ninth grade classes of 2003-04 through 2010-2011	Standard Credits Revised Standard Diploma Effective with ninth graders in 2011-2012	Verified Credits - Effective for ninth graders: 2003-04 and beyond
English	4	4	2
English: 4 credits in English including o	ne credit from English 9, 10,	11, and 12	
Mathematics	3	3	1
Mathematics: Courses completed to sa among Algebra I, Geometry, Algebra, Fo level of Algebra II.			
Laboratory Science	3	3	1
Laboratory Science: Courses complete different science disciplines: earth scien courses required for the International Barequirement. Note 1—see below	ces, biology, chemistry, or p	hysics or completion of the se	equence of science
History & Social Science	3	3	1
History & Social Science: Courses cor and Virginia Government, and one cours additional courses to satisfy this require	se in either world history or g		•
Health & Physical Education	2	2	
Fine Arts or Career & Technical Education	1		
Foreign Language, Fine Arts or Career & Technical Education		2	
Foreign Language, Fine Arts or Caree credits earned for this requirement shall			
Economics and Personal Finance		1	
Electives	6	4	
Electives : Courses to satisfy this require Standards of Quality.	ement shall include at least t	wo sequential electives as re	quired by the
Student Selected Test			1
Student Selected Test: A student may career and technical education, econom		•	
Beginning with the 9 th grade class of which may be non-credit bearing and			
Total	22	22	6

To graduate with a Standard Diploma, a student must earn at least 22 standard units of credit by passing required courses and electives, and earn at least six verified credits by passing end-of-course SOL tests or other assessments approved by the Board of Education.

The school counselor can advise on available courses to fulfill the requirements for a Standard Diploma.

Note 1

Effective with the 2010-2011 academic year and beyond: Students who complete a career and technical [education] program sequence and pass an examination or occupational competency assessment in a career and technical education field that confers certification or an occupational competency credential from a recognized industry, or trade or professional association or acquires a professional license in a career and technical education field from the Commonwealth of Virginia may substitute the certification, competency credential, or license for (1) the student selected verified credit and (2) either a science or history or social science verified credit when the certification, license, or credential confers more than one verified credit. The examination or occupational competency assessment must be approved by the Board of Education as an additional test to verify student achievement.

Electives

Sequential Electives – Effective with the graduating class of 2003, students who wish to receive a Standard or Modified Standard Diploma must successfully complete two sequential electives. On February 5, 2002, the Board of Education approved <u>Guidelines for Sequential Electives for the Standard and Modified Standard Diploma</u> (PDF).

- Sequential electives may be in any discipline as long as the courses are not specifically required for graduation.
- Courses used to satisfy the one unit of credit in a fine arts or career and technical education course may be used to partially satisfy this requirement.
- For career and technical education electives, check with the Office of Career and Technical Education at (804) 225-2051.
- An exploratory course followed by an introductory course may not be used to satisfy the requirement.
- An introductory course followed by another level of the same course of study may be used.
- Sequential electives do not have to be taken in consecutive years.

Fine Arts and Career and Technical Education – The Standard, Advanced Studies, and Modified Standard Diplomas each contain a requirement for one standard unit of credit in Fine Arts or Career and Technical Education. The Standards of Accreditation do not require that courses used to satisfy the requirement of Fine Arts or Career and Technical Education be approved by the Board. Therefore, local school officials should use their own judgment in determining which courses students take to satisfy the requirement of a unit of credit in Fine Arts or Career and Technical Education for the Standard, Advanced Studies, and Modified Standard Diplomas.

Other Diplomas & Certificates

Applied Studies Diploma

Available to students with disabilities who complete the requirements of their IEP and who do not meet the requirements for other diplomas.

General Achievement Diploma (GAD)

Available to students 18 years or older who meet the criteria set by the Board of Education.

Superintendent's Memo – Informational #123, August 1, 2003

Requirements for the General Achievement Diploma

General Education Development Certificates (GED)

Refer to Regulations Governing General Education Development Certificates (8 VAC 20-360-10, et. seq.)

Superintendent's Memo – Informational #131, June 30, 2006

General Educational Development (GED) Testing Eligibility, effective July 1, 2006

Certificate of Program Completion

Available to students who complete prescribed programs of studies defined by a local school board but who do not qualify for diplomas.

Information for Transfer Students

First-Time Transfers to a Virginia Public School

Graduation requirements (in compliance with 8VAC 20-131-60) for a student transferring into a Virginia public school for the first time in grades 9-12, depends on the grade the student is transferring into **and** when in the school year the student is transferring.

A student is considered to have transferred at the **beginning** of the school year if 20 or fewer hours of instruction have been completed. A student is considered to have transferred **during** the school year if more than 20 hours of instruction have been completed.

Standard Diploma Verified Credit Requirements for Transfer Students

STUDENTS TRANSFERRING INTO A VIRGINIA PUBLIC SCHOOL FOR THE FIRST TIME

Ouring 9th Grade or Beginning of 10th Grade	Must Earn	Ninth Graders in 2000-01, 2001-02, 2002-03	Ninth Graders in 2003-04 and beyond
6 Verified Credits			
	English	2	2
	Mathematics		1
	Science		1
	History & Social Science		1
	Student Selected	4	1
During 10th Grade or Beginning of 11th Grade	Must Earn	Ninth Graders in 2000-01, 2001-02, 2002-03	Ninth Graders in 2003-04 and beyond
4 Verified Credits			
	English	2	1
	Mathematics		1
	Science		1
	History & Social Science		1
	Student Selected	2	
During 11th Grade or Beginning of 12th Grade	Must Earn	Ninth Graders in 2000-01, 2001-02, 2002-03	Ninth Graders in 2003-04 and beyond
2 Verified Credits			
	English	1	1

Advanced Studies Diploma Verified Credit Requirements for Transfer Students

STUDENTS TRANSFERRING INTO A VIRGINIA PUBLIC SCHOOL FOR THE FIRST TIME

During 9th Grade or Beginning of 10th Grade	Must Earn	Ninth Graders in 2000-01 and beyond
9 Verified Credits		
	English	2
	Mathematics	2
	Science	2
	History & Social Science	2
	Student Selected	1
During 10th Grade or Beginning of 11th Grade	Must Earn	Ninth Graders in 2000-01 and beyond
6 Verified Credits		
	English	2
	Mathematics	1
	Science	1
	History & Social Science	1
	Student Selected	1
During 11th Grade OR Beginning of 12th Grade	Must Earn	Ninth Graders in 2000-01 and beyond
4 Verified Credit		
	English	1
	Student Selected	3
During 12th Grade	possible, the school division	ery opportunity to earn a diploma; if this is not should arrange to have the previous school award of the verified credit requirement from VDOE.

Graduation (Diploma) Seals of Achievement

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), International Baccalaureate (IB), Cambridge, 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.

The Board of Education shall approve all professional licenses and examinations used to satisfy these requirements.

Board of Education's Advanced Mathematics & Technology Seal – Awarded to students who earn either 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.

The Board of Education shall approve all professional licenses and examinations used to satisfy requirements.

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 Standard Diploma or an Advanced Studies Diploma
- Complete Virginia & United States History and Virginia & United States 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 schoolsponsored 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.

Local school divisions may award other diploma seals or awards for exceptional academic, CTE, citizenship or other exemplary performance in accordance with criteria defined by the local school board. The design, production and use of those seals are the responsibility of the local school boards awarding the seal.

An explanation of all seal requirements can also be found on page 10 of the <u>Guidance Document</u> <u>Governing Certain Provisions of the Regulations Establishing Standards for Accrediting Public Schools in Virginia</u>.



Early College Scholars Program

The Early College Scholars program allows eligible high school students to earn at least 15 hours of transferable college credit while completing the requirements for an Advanced Studies Diploma. The result is a more productive senior year and a substantial reduction in college tuition. Students earning a college degree in seven semesters instead of eight can save an average of \$5,000 in expenses.

To qualify for the Early College Scholars program, a student must:

- Have a "B" average or better;
- Be pursuing an Advanced Studies Diploma and
- Take and complete college-level course work (i.e., Advanced Placement, International Baccalaureate, Cambridge, or dual enrollment) that will earn at least 15 transferable college credits.

Early College Scholars are supported by Virtual Virginia and the Commonwealth College Course Collaborative. Virtual Virginia provides statewide access to college-level courses while the Commonwealth College Course Collaborative defines the subjects high school students can complete and receive college degree credit from participating public and private colleges and universities.

Virginia Plan for Dual Enrollment between Virginia Public Schools and Community Colleges

In the summer of 2008, a revised collaborative agreement entitled the "Virginia Plan for Dual Enrollment between Virginia Public Schools and Community Colleges" was signed. This agreement provides a statewide framework for dual enrollment arrangements between Virginia public schools and community colleges.

These arrangements may be made at the local level, i.e., between the representatives of boards of the participating public school and the participating community college authorized to contract such agreements. They may be formed in three distinct ways:

- First, high school students may be enrolled in the regularly scheduled college credit courses with the other students taught at the community college.
- Second, high school students may be enrolled in specially scheduled college credit courses conducted exclusively for high school students taught at the high school.
- Third, high school students may be enrolled in specially scheduled college credit courses conducted exclusively for high school students taught at the community college.

For further information, see:

Virginia Plan for Dual Enrollment between Virginia Public Schools and Community Colleges (PDF)

All dual enrollment courses may be counted toward the 15 college credits required for a student to become an "Early College Scholar." Certain dual enrollment courses may also qualify as part of the Commonwealth College Course Collaborative. This collaborative, involving all Virginia two- and four-year colleges and universities, with the exception of Virginia Military Institute, provides a set of academic courses that fully transfer as core requirements and degree credits.

Virtual Virginia

Middle school and high school students currently have the option of enrolling in VDOE's Virtual Virginia classes. This web-based/online delivery program provides course offerings that include pre-Advanced Placement (AP), honors and AP classes as well as academic core classes, electives and world languages. The primary mission of the program is to serve rural and underserved students with courses that are unavailable because of the lack of highly qualified instructors or because there are too few students interested for the local school to offer the course.

Each course contains video segments, audio clips, whiteboard and online discussions as well as text. Teachers are available for telephone conversations with students throughout the school day via toll-free numbers. Virtual Virginia classes offer a rich multimedia learning environment that appeals to a variety of learning styles. Courses can be scheduled flexibly throughout the day, as courses do not have to be taken in "real" time.

Eligible students may enroll in Virtual Virginia through their local schools. The deadline for registering is the end of the first week of the local school calendar. The deadline for spring semester 4X4 block courses is the end of the first week of the local school spring semester.

Visit Virtual Virginia

(http://www.doe.virginia.gov/home_files/leaving/redirect.cfm?url=http://www.virtualvirginia.or g/) for details about the program, including the course catalog, school registration information and more.

High School Specialty Programs

Granby High School -International Baccalaureate Diploma Program

Granby High School is a member of the International Baccalaureate Organization (IBO) and has been authorized to offer the International Baccalaureate Diploma Program since 1998. This program is a two-year academically rigorous curriculum intended for juniors and seniors who desire in-depth scholastic preparation for college or university. The International Baccalaureate Organization "aims to develop inquiring, knowledgeable, and caring young people with adaptable skills to tackle society's complex challenges and who will help to make a better and more peaceful world". The IB program emphasizes teaching students how to learn and encourages them to "value learning as an essential, integral part of their everyday lives," and cultivates students' intellectual, social, emotional, and physical well-being in addition to their cognitive development. Students who complete the IB Diploma Program enter college with the communication and critical thinking skills needed to be successful in our global society (IB Parent Pack, 2015). Teaching in the program is based on inquiry, focused on conceptual understanding, developed in local and global contexts, focused on effective teamwork and collaboration, differentiated to meet the needs of all learners, informed by formative and summative assessment (IB Approaches to Teaching).

Lake Taylor High School Academy of Leadership and Military Science

The Academy of Leadership and Military Science is a collaborative venture between Norfolk Public Schools and a number of community, private sector, government, higher education, and military agencies.

The small learning community of the Academy is comprised of cluster scheduling of all core, foreign language, naval science, leadership, and dual credit college classes as well as year-round internships with community partners.



Maury High School The Medical and Health Studies Program

Entering its thirty-first year, the Medical and Health Specialties Program at Maury High School was formed in 1986 to initiate early preparation of junior and senior level students, particularly minorities and females, for careers in health professions through academic coursework and motivational counseling. Through a special collaboration between Norfolk Public Schools and the Eastern Virginia Medical School many unique experiences enrich and enhance the science coursework for select students. Admission to this program is by application and entry occurs ONLY for rising freshmen students.

Norview High School -The Leadership Center for the Sciences and Engineering

LCSE is a smaller learning community within Norview High School, which consists of high-performing students enrolled in a rigorous curriculum with considerable emphasis in math and science content. LCSE students also receive formal instruction in leadership development. Although designed to guide students toward possible college degrees and careers in engineering, scientific research, math and technology, the ultimate goal of LCSE is to graduate students equipped with the knowledge and skill to serve in leadership roles in their community.

Booker T. Washington High School - Academy of the Arts

The Visual and Performing Arts Academy of Booker T. Washington High School, offers the opportunity for students who have an interest in the arts to select courses that prepare them for postsecondary advanced studies or for a faster entry into arts-related occupations. The balance between artistic development and academic preparation is at the heart of the Academy program. Students are exposed to the humanities and have the opportunity to select a course of study that will best meet their needs and interests.

Rigorous Extra-Curricular Activities in Arts and Sciences

The Arts and Sciences Extended Day Program

The Arts and Sciences Extended Day Program provides an array of enrichment courses in each high school for gifted and advanced students after the school day. Students are surveyed each year in their schools to determine courses of interest. Offerings may include advanced courses in the visual arts, theater, music, science, math, literature, history, leadership, and intellectual development topics. Students receive elective credit upon completing 75 hours of satisfactory participation, accumulated from course to course and year-to-year.

NORSTAR Research Institute

The award-winning Norfolk Science and Technology for Advanced Research (NORSTAR) program has a 25 year rich history of excellence for students. It is a collaboration between the offices of Career and Technical Education and Academic Rigor. NORSTAR is a STEM infused program that nurtures each student's ability to become leading inventors and innovators of the future. The NORSTAR learning environment empowers each student to develop in-demand knowledge and skills for success within the 21st Century. Through independent or collaborative work, NORSTAR students think creatively and critically to problem solve solutions to real-world challenges. By using emerging technology, students are able to research, design, prototype, and create products or robots for national level competitions, challenges, and events. This process allows students to be facilitators of learning and leading with peers. NORSTAR students make a difference within the global community as change-makers who work to create real solutions to real needs.

The *Invention and Research Division* provides opportunities for students to follow their own interests in developing original research and invention projects. Projects, funded by NASA and MIT grants, include using NASA satellite images to compare pollution caused by agricultural waste runoff to lowered oxygen levels and fish kills; and, developing a science website for middle school students.

In the *Robotics Division* students follow a curriculum of study, which includes building SUMO and mobile robots, basic electricity, electronics, BASIC/C++ stamp programming, Computer Aided Design (CAD), Computer Aided Manufacturing (CAM), and simple logic control programming. Eventually, students build industrial robotic work cells. Their products are evaluated at the local, state, and national levels through recognized robotic competitions such as Skills USA, First Robotics, and the Society of Manufacturing Engineers Competition.

NORSTAR instructors provide professional mentorships; and establish and maintain liaisons with local university faculty and research staff. **NORSTAR** students go on to a range of highly ranked colleges and universities, such as, MIT, University of Virginia, University of North Carolina, Carnegie-Mellon University, Columbia University, and Cornell University.

Governor's School for the Arts

The Governor's School for the Arts (GSA) is a center for innovation that develops excellence, nurtures creativity, inspires artistic vision and builds communities with a passion for the arts.

GSA offers premiere training in Hampton Roads in six departments: Dance, Instrumental Music, Musical Theatre, Theatre & Film, Visual Arts and Vocal Music. Each department trains students to develop in their art form with a focus on conservatory style study. Students take academic classes at their regular high schools in the morning and attend GSA in the afternoon for three hours daily during the regular academic year. Transportation to and from GSA is provided by NPS. Each department at GSA is tailored to meet the demanding needs of each art form. The unique nature of the school provides a variety of arts experiences in both traditional and non-traditional environments. Classes may be individual lessons, small or large groups, or rehearsals. The average class size is 12. Students may earn three credits for each year they attend GSA. There is no tuition charge. Admission to GSA is by audition and any students in grades 8-11 can apply. Applications are available from school counselors or gifted resource teacher.

Strolling Silver Strings

Any member of a NPS high school orchestra may audition for this prestigious program which has performed locally, nationally and internationally. The students' repertoire ranges from classical themes to popular melodies. Students are expected to perform as soloists on various selections and the entire repertoire is to be performed from memory. Students may contact their school's music instructor to schedule an audition.

Jazz Ensemble

Any member of a NPS high school band may audition for this program. These students study jazz, theory, literature, and improvisation in the context of a performing ensemble. Repertoire encompasses all styles of jazz music idiom, from big band to combo playing. All students are expected to perform as soloists on various selections. Since the jazz program is a showcase performing ensemble, participants must play with near professional tone and must be able to exhibit advanced proficiency on their instruments. Students may contact their school's music instructor to schedule an audition.



Athletics and Other Extracurricular Activities

Norfolk Public Schools offers a variety of opportunities for students to participate in extracurricular activities on the school, district, state, and national levels. Students should check with their school Athletic Director, Career and Technical Education Teachers, Fine Arts Teachers, and School Counselors at their schools for specifics.

Virginia High School League (VHSL) Scholarship Rule

The VHSL regulates a variety of interschool competitions across the state of Virginia for activities including theater, scholastic bowl, literary publications, forensics, cheerleading, and other athletic competitions.

Students should check with their school athletic director, coach, or activity sponsor about specific eligibility rules. At a minimum:

A student shall not have reached the age of 19 on or before August 1 of the school year in which he/she wishes to compete.

Norfolk Public School's 2.0 Grade Point Average (GPA) Requirement:

- A 2.0 GPA will be required for participation in all VHSL sanctioned activities.
- GPA will be based on all courses taken for credit.
- GPA will be based on semester grades.
- The grading scale shall be the current scale used by NPS, including weighted classes.

Credit for summer school must be applied to the preceding semester. Transfer students should check with the Athletic Director for specific eligibility requirements

Students shall have one appeal or probation period during their middle school eligibility (8th grade only) and one appeal or probation period during their high school eligibility (11th or 12th grade only) if they fall below the minimum GPA requirements to meet VHSL standards. Tutorial classes will be available for all student athletes and attendance shall be mandatory for those who have GPA's below the 2.0 average and using a waiver. The tutorial classes shall have tutors available to assist students. Each school shall hire an academic advisor who is paid a supplement to monitor grades and attendance weekly and supervise the study halls. Coaches will also assist with the monitoring of grades and the supervision of tutorial classes. The tutorial classes are held Monday through Thursday throughout the school year.

Students who are classified as having a disability whose eligibility must be determined according to applicable federal and state laws, who fall below the 2.0 average, will be examined on an individual basis. Waivers shall only be granted by the superintendent or his designee.

Students with disabilities who request a waiver must be making standard progress in courses taken as determined by the student's Individual Education Plan (IEP).

Students, who have a cumulative average above the 2.0, but fall below a 2.0 for the semester, will be allowed to average the semester average with the cumulative average. If the cumulative average is still above 2.0, the student shall be allowed to participate.

Ninth graders are encouraged to try out for high school sports. Fall sports begin in August, winter sports begin in November, and spring sports begin in February. Each student must have a physical before participating in a Norfolk Public Schools sports program. The physical may be given by the student's doctor or by a doctor employed by the high school. Students should check with their school for a schedule of when physicals are offered. A fee is required for all physicals.

First time ninth grade students will be eligible to participate in VHSL extracurricular activities using the VHSL requirements for one (1) academic year only. At the end of their first year of high school, the students must meet the increased academic requirements (2.0 GPA) of Norfolk Public Schools to participate.

Athletes are eligible to ride the late bus home after each day's practice. Usually, these buses leave the high school from 5:30 to 7:00 p.m.

For more specific details, see your high school's athletic director, school counselor, or the NPS Website.

NCAA Eligibility

Students planning to participate in intercollegiate activities at an NCAA Division I or II institution must have their academic and amateurism status certified by the NCAA Eligibility Center. The NCAA recommends you register during your sophomore year of high school. Check with your school counselor for details.



Division I Core Academic Requirements

To be eligible to practice, receive athletic scholarships, and/or compete in your first full-time year at a Division I school, a student must graduate from high school and meet ALL the following requirements:

- 1. Complete 16 NCAA core courses:
 - o 4 years of English
 - o 3 years of math (Algebra I or higher)
 - o 2 years of natural/physical science (including one year of lab science if your high school offers it)
 - o 2 years social science
 - o 1 additional year of English, math or natural/physical science
 - o 4 additional years from the areas of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
- 2. Complete 10 core courses, including seven in the areas of English, math or natural/physical science, before the start of the student's seventh semester of high school. A student must have more than 10 core courses completed to be able to repeat or replace any of the 10 courses used to meet the 10/7 requirement.
- 3. Earn a minimum 2.3 GPA in NCAA core courses.
- 4. Earn an SAT combined score or ACT sum score that matches your core-course GPA on the Division I sliding scale.

Division II Core Academic Requirements

To be eligible to practice, receive athletic scholarships, and/or compete in your first full-time year at a Division II school, a student must graduate from high school and meet ALL the following requirements:

- 1. Complete 16 core courses
 - o 3 years of English
 - o 2 years of math (algebra 1 or higher)
 - 2 years of natural/physical science (including one year of lab science if your high school offers it)
 - o 2 years of social science
 - o 3 additional years of English, math or natural/physical science
 - o 4 additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
- 2. Earn a minimum 2.2 GPA in NCAA core courses.
- 3. Earn an SAT combined score or an ACT sum score that matches your core-course GPA on the Division II sliding scale.

Division III does not use the NCAA Eligibility center. Students should check with the school to determine amateurism and eligibility requirements for sports.

Division III does not use the NCAA Eligibility Center. Please contact the Division III college regarding their academic and amateurism standards for athletics.

Please visit the NCAA Eligibility Center for additional information at eligibilitycenter.org or NCAA.org/playcollegesports.

Twelfth-Grade Transfer Student

To be eligible to earn a diploma from Norfolk Public Schools, a twelfth-grade transfer student must be enrolled in Norfolk Public Schools for a minimum of one semester and must earn a minimum of two and one-half credits.

Summer School

Norfolk Public School offers summer classes for students needing additional instruction beyond the regular school year. All classes meet the same requirements as the regular term classes including the end of course SOL test, where appropriate.

Evening School

Granby High Evening School is located at Granby High School and operates on the regular school year calendar during evening hours Monday through Thursday. The Evening School offers additional opportunities for NPS senior students to obtain credits needed for graduation. Requirements for evening school classes are the same as regular day classes including end-of-course SOL tests where appropriate. Students are referred by their home school counselors. There is a fee associated with enrolling in evening school courses. Visit the Granby Evening School web site for classes and fees.

Credit Recovery

Credit recovery is offered via an online, self-paced program to students who have passed the Virginia SOL (Standards of Learning) test (if applicable), completed the required course hours (seat time), but failed one or more semesters of a course.

Attendance

Historical data has proven that regular school attendance will result in better grades and greater success in high school. High school students are responsible for attending school regularly. Norfolk Public Schools has an attendance policy that states:

- Students must attend school regularly. Students assigned to classes that meet daily and who are
 absent ten (10) or more days (excused or unexcused) in a semester course, or twenty (20) or
 more days (excused or unexcused) in a school year, will not earn credit for the class regardless
 of earned grades.
- Students assigned to block schedule and who are absent seven (7) or more days (excused or unexcused) in a semester course, or fourteen (14) or more days (excused or unexcused) in a school year, will not earn course credit regardless of earned grades.

- If your absence is excusable, bring a note (or other verification) signed by your parent or
 guardian to school. Present this note to your teachers to sign, allowing you to make up work
 you missed. Without an excuse, you will not be allowed to make up missed assignments. If
 you are in the hospital or have a long-term illness, have your parent or guardian call your
 school counselor for additional services or supports.
- Parents may request an administrative review by the principal when there are extenuating
 circumstances that prevent the student from meeting the guidelines. Academic credit may be
 approved if the principal determines there to be sufficient evidence presented that the student
 has mastered the standards/objectives for the grade level or for a specific course.

Homework and Grading

Homework is required at all levels and is assigned a minimum of four nights a week. However, in some content areas homework may not be appropriate. Because homework is an extension of class work at an independent level, students should be held accountable for completing homework assignments and given credit for fulfilling the required tasks. Homework should be reviewed, marked, and returned within a reasonable period of time (not to exceed **two to three class periods/meetings/blocks** for secondary). Homework assignments should be reasonable in length, academically based, and meaningful to student learning.

All homework will be counted. Because of the variety of assignments that may be included as homework, some homework assignments may receive grades and some may receive checks for completion. The way in which homework is evaluated will be based on teacher discretion and should be clearly communicated to parents and students. In order to ensure that grading and accounting for homework assignments will be consistent across the district the following guidelines have been developed:

Homework will be assigned, in accordance with School Board Policy, and students will be held accountable for homework assignments. Teachers will maintain records of homework assignments (e.g. grades and/or frequency of completion). Teachers will also use the "Comments" section of the report card to note a concern or need for improvement.

Promotion Standards

Students will be classified as 9th, 10th, 11th and 12th graders on the basis of earning the required number of course and verified credits for the grade level. Course credit is earned on the basis of achieving and/or exceeding course standards.

Grade 9: To be classified a ninth grader a student must satisfy the requirements for promotion from the eighth grade.

Grade 9 to 10: To be classified a tenth grader a student must earn at least five (5) course credits at the end of 9th grade and one (1) verified credit.

Grade 10 to 11: To be classified an eleventh grader a student must earn at least ten (10) course credits at the end of 10th grade which include:

English	(2) credits
Math	(1) credit

Earn Two (2) Verified Credits

Grade 11 to 12: To be classified a twelfth grader a student must have earned at least fifteen (15) course credits at the end of 11th grade which include:

English	(3) credits
Math	(2) credits

Earn Four (4) Verified Credits

Students must also be able to complete the requirements for graduation by the following June.

Definitions

Standard Unit of Credit

A standard unit of credit for graduation is based on a minimum of 140 clock hours of instruction and successful completion of the requirements of the course.

Verified Unit of Credit

A verified unit of credit for graduation is based on a minimum of 140 clock hours of instruction, successful completion of the requirements of the course and the achievement of a passing score on the end-of-course SOL test for that course or additional tests by the student. (8 VAC 20-131-110)

Grading Scale

Grade	100% Scale	Definition
A -	93-100	Designates the status of a student who consistently demonstrates a thorough understanding and skill application in the content area (e.g., SOL and curriculum objectives for the grade/course level.)
A-	30-32	and curriculum objectives for the grade/course level.)
B+	87-89	
В	83-86	Designates the status of a student who demonstrates a high degree of understanding and skill application in the content area (e.g., SOL and curriculum objectives for the grade/course level).
B-	80-82	
C+	77-79	Designates the status of a student who demonstrates a satisfactory
С	73-76	understanding and skill application in the content area (e.g., SOL and curriculum objectives for the grade/course level).
C-	70-72	
D+	67-69	Designates the status of a student who needs significant practice and instructional experiences to acquire the knowledge of basic content and
D	64-66	skills specified in the content area (e.g., SOL and curriculum objectives for the grade/course level).
E	63 and below	Designates the status of a student who has not demonstrated the basic knowledge of content and/or skills specified and requires additional practice and instructional experiences in order to succeed (e.g., SOL and curriculum objectives for the grade/course level).

Honor Roll

The honor roll is a list of students who make exceptional grades each semester. Students will be included if:

- They earn no grade lower than an A- (A Honor Roll)
- They earn no grade lower than a B- (B Honor Roll)
- They earn no grade lower than a C- and have an overall GPA of 3.0 (B Average Honor Roll)

Grade-Point Average | Class Rank

High school students earn grades in each subject they take. These grades are recorded on the credit sheet or high school transcript each semester. Grades are averaged to determine a grade-point

average (GPA) for all students taking 61 percent of their courses in regular education at a school site. The cumulative grade-point average is recorded on each semester's credit sheet.

A student's junior grade-point average is tabulated in October after the beginning of their senior year for the purpose of class rank. This grade-point average includes grades earned in all high school credit-bearing courses taken, beginning in middle school. The junior grade-point average is sent to colleges, the military, and scholarship sources at the student's request.

A student's senior grade-point average is tabulated after the first semester of the senior year and is recorded on the first semester credit sheet. This grade-point average is then forwarded to colleges, the military, and scholarship sources at the student's direction. A student's grade-point average determines his/her rank or class standing when graduating from high school. To be an honor graduate, you must earn a 3.0 grade-point average. The Valedictorian and Salutatorian of the graduating class are determined by the class rank as calculated after the first semester of the senior year.

Scheduling

Norfolk Public Schools encourages students and parents to familiarize themselves with the graduation requirements and the course offerings in this guide. Students' academic plans are developed and revised throughout their high school years to take into account each individual's unique career and academic aspirations, their performance in previous classes, as well as, funding and staffing constraints. Counselors enter course requests in the spring for the following fall based on student and parent feedback as well as teacher recommendations. The master schedule is built over the summer based on these requests and the actual schedules are created before the fall term. Parents should review these schedules with their student before the start of classes to ensure the selection meets the student's post-graduation plans.

Students are expected to carry a full schedule of eight classes unless special circumstances warrant a student being excused for part of the day. Classes are scheduled on an alternating A/B block schedule with all the even block classes scheduled one day followed by the odd block classes the next. This allows students choosing to attend the Norfolk Technical Center to have a full day of classes at their home school and attend NTC on the alternating day.

Students are scheduled to attend classes for the entire year to get a full credit. In some cases, a course may be changed due to not passing a pre-requisite, a schedule conflict, the class selection does not meet graduation requirements or other such circumstances. In no case may a class be changed after the end of the first interim grading period unless extenuating circumstances are established. The principal shall determine if the circumstances are extenuating.

Repeating Courses Previously Passed

Students may repeat a credit-bearing course previously passed in an effort to improve a grade earned as well as their grade point average. The grade earned in a course taken the second time will be recorded in the student's grade point average. The earlier grade will be replaced on the credit sheet with an "R" (repeated at a later date) and will not be counted in the grade point average. Credit will be counted only once. Repeating a course for a higher grade does not count in the five classes an athlete must take to be eligible for VHSL competition.

Repeatable Courses

There is a selection of approved courses that may be taken in multiple years to develop and enhance skills, which are identified in the course offering section. The student will be awarded credit for each semester where he/she earns a passing grade.

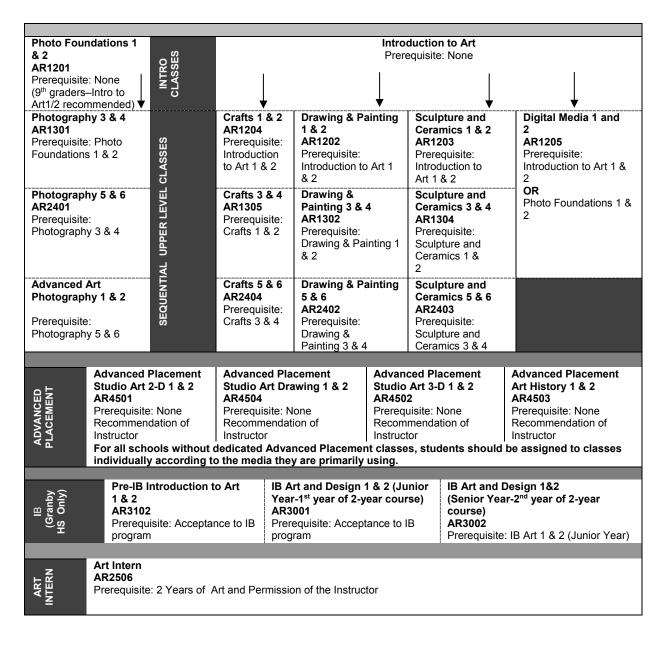
COURSE SEQUENCE/ COURSE OFFERINGS



Art

Through the art curriculum, students use the artistic process and various media to explore big ideas and to make personal connections to them. They also examine traditional and contemporary works of art to understand how artists communicate visually across time and cultures, learn to critique their own work and that of others and develop visual literacy. As students' progress through upper level courses, they explore media and ideas more deeply and independently, leading to, where applicable, Advanced Placement studio courses for college credit and the development of a portfolio for career or higher education submission. For all students, the skills and understandings gained in art will help them persist in solving open-ended problems and give additional ways of making sense of their world.

Art Course Sequence



	ART						
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)		
AR1101	05154	INTRO TO ART 1 & 2	FY	1	Intro to Art 1: None Intro to Art 2: Intro to Art 1		
course cor criticism.	ntent includ This course	This preparatory course exposes the se journal writing/ sketchbook, drawing may be used to satisfy the graduation. It may also be used to partially satisfy	ng, painting, s on requireme	sculpture, crat nt of one stan	ts, printmaking, art history and art		
AR1201	05167	PHOTOGRAPHY FOUNDATIONS 1 & 2	FY	1	Photo 1: None Photo Foundations 1 Only 9 th graders with successful math background should be placed in Photo 1		
includes p design. St one standa	icture takin udents will ard unit in F	This course introduces students to g, processing of film, and basic darkr begin a negative file and notebook. Tine Arts or Career and Technical Ed of two sequential electives.	oom procedu his course m	res as well as ay be used to	foundational instruction in art and satisfy the graduation requirement o		
AR1301	05167	PHOTOGRAPHY 3 & 4	FY	1	Photo 3: Photo 1/2 Photo 4: Photo 3		
in exhibition	ons. When t	ation techniques and skills. Students aken in sequence with Photography of two sequential electives.					
AR2401	05167	PHOTOGRAPHY 5 & 6	FY	1	Photo 5: Photo 3/4 Photo 6: Photo 5		
Course Do	escription:	PHOTOGRAPHY 5 & 6 Students will develop personal focubice, and work in series based on the participation in exhibitions is expe	is in art makii	ng, select pho	Photo 3/4 Photo 6: Photo 5 tographic materials and processes to		
Course Do	escription:	Students will develop personal focu- bice, and work in series based on the	is in art makii	ng, select pho	Photo 3/4 Photo 6: Photo 5 tographic materials and processes to		
Course D support the will be emp	escription:	Students will develop personal focu- bice, and work in series based on the	is in art makii	ng, select pho	Photo 3/4 Photo 6: Photo 5 tographic materials and processes to		
support the will be employed AR4502 Course Describences	escription: eir vision/vo phasized an 05170 escription: e, innovatio	Students will develop personal focu- pice, and work in series based on the and participation in exhibitions is expe	rate personal d techniques.	ng, select pho ts or technical 1 artistic directic Students wil	Photo 3/4 Photo 6: Photo 5 tographic materials and processes to approaches. Portfolio preparation Adv. Art Photo 1: Photo 5/6 Adv. Art Photo 2: Adv. Art Photo 1 on, quality, concentration, breadth of I develop a portfolio suitable for a job		
Course Do support the will be employed AR4502 Course Do experience	escription: eir vision/vo phasized an 05170 escription: e, innovatio	Students will develop personal focupice, and work in series based on the nd participation in exhibitions is expended. ADVANCED ART PHOTOGRAPHY 1 & 2 Students are expected to demonstrin, and refined photographic skills and	rate personal d techniques.	ng, select pho ts or technical 1 artistic directic Students wil	Photo 3/4 Photo 6: Photo 5 tographic materials and processes to approaches. Portfolio preparation Adv. Art Photo 1: Photo 5/6 Adv. Art Photo 2: Adv. Art Photo 1 on, quality, concentration, breadth of I develop a portfolio suitable for a job		
Course Do support the will be employed and a support the will be employed and a support the course Do painting us and are experience and are experienced as a support to the course of t	escription: eir vision/vc phasized an 05170 escription: e, innovation n and consi	Students will develop personal focupice, and work in series based on the not participation in exhibitions is expended and provided and participation in exhibitions is expended and participation in exhibition in	FY FY Tate personal d techniques on to expression at media or on to expression sequence	ng, select pho ts or technical 1 artistic directic Students will articipate on e 1 a, techniques, ss ideas. Stur with Introduct	Photo 3/4 Photo 6: Photo 5 tographic materials and processes to approaches. Portfolio preparation Adv. Art Photo 1: Photo 5/6 Adv. Art Photo 2: Adv. Art Photo 1 on, quality, concentration, breadth of I develop a portfolio suitable for a job xhibitions. Draw/Paint 1: Intro. to Art 1/2 Draw/Paint 2: Draw/Paint 1 and tools to develop basic drawing, dents will begin to develop a portfolio		

	ART							
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)			
materials a	Course Description: Students will develop personal focus in art making, select drawing, painting, and printmaking naterials and processes to support their vision/voice, and work in series based on themes, concepts or technical pproaches. Portfolio preparation will be emphasized and participation in exhibitions is expected.							
AR2402	05154	DRAWING AND PAINTING 5 & 6	FY	1	Draw/Paint 5: Draw/Paint 3/4 Draw/Paint 6: Draw/Paint 5			
experience	e, innovatio	: Students are expected to demons in, and refined two-dimensional med lication and consideration at the pos	lia skills and te	chniques. Stu				
					II			
AR4502	99014	ADVANCED PLACEMENT ART STUDIO 2-D 1 & 2	FY	1	None Recommendation of Instructor (especially without Draw/Paint 3/4 or Photo 5/6)			
expected directed a specified exhibition:	to demonst rtistic exploit by the Colle s is require epending of	a: Students will use advanced level trate mastery of a variety of skills and pration. Students will develop a port ege Board, which will be submitted for d. on prior study, students should be aphy classes.	d techniques as folio, which me or College Boa	s well as deve ets the AP 2- rd assessme	elop a concentration based on self- D Studio Art requirements as nt. Participation in high school art			
AR4504	05172	ADVANCED PLACEMENT STUDIO ART DRAWING	FY	1	None Recommendation of Instructor (especially without Draw/Paint 3/4)			
Course Description: Students will use advanced level skills and concepts in drawing media. Students are expected to demonstrate mastery of a variety of skills and techniques as well as develop a concentration based on self-directed artistic exploration. Students will develop a portfolio, which meets the AP Drawing Studio Art requirements as specified by the College Board, which will be submitted for College Board assessment. Participation in high school art exhibitions is required. NOTE: Students should be scheduled with Advanced Drawing/Painting classes.								
directed as specifi art exhibit	artistic expl ed by the (tions is req	loration. Students will develop a po College Board, which will be submi juired.	ortfolio, which tted for Colleg	meets the AF e Board asse	concentration based on self- P Drawing Studio Art requirements essment. Participation in high school			
directed as specifi art exhibit	artistic expl ed by the (tions is req	loration. Students will develop a po College Board, which will be submi juired.	ortfolio, which tted for Colleg	meets the AF e Board asse	concentration based on self- P Drawing Studio Art requirements essment. Participation in high school			
directed a as specifi art exhibit	artistic expl ed by the (tions is req	loration. Students will develop a po College Board, which will be submi juired.	ortfolio, which tted for Colleg	meets the AF e Board asse	concentration based on self- P Drawing Studio Art requirements essment. Participation in high school			
directed a as specifi art exhibit NOTE: St	estription and ceramic. When take	oration. Students will develop a portion of the Submitted	ortfolio, which tted for Colleg ed Drawing/P FY mensional med rill begin to device the control of the control	meets the AF e Board asse ainting class 1 iia, techniques yelop a portfol	Concentration based on self- Drawing Studio Art requirements Essment. Participation in high school Ses. Sculpture/Ceramics 1: Intro. to Art 1/2 Sculpture/Ceramics 2: Sculpture/ Ceramics 1 s, and tools to develop basic skills in lio and are expected to participate in			
directed a as specifi art exhibit NOTE: St	estription and ceramic. When take	loration. Students will develop a portion of the college Board, which will be submiquired. SCULPTURE AND CERAMICS 1 & 2 Students will use various three-direct and to express ideas. Students with the college of the	ortfolio, which tted for Colleg ed Drawing/P FY mensional med rill begin to device the control of the control	meets the AF e Board asse ainting class 1 iia, techniques yelop a portfol	Concentration based on self- Drawing Studio Art requirements Essment. Participation in high school Ses. Sculpture/Ceramics 1: Intro. to Art 1/2 Sculpture/Ceramics 2: Sculpture/ Ceramics 1 s, and tools to develop basic skills in lio and are expected to participate in			
directed a as specificant exhibit NOTE: So AR1203 Course Do sculpture a exhibitions requirement AR1304 Course Do processes	ostistic expled by the obtions is required to see tudents shape of the obtions of two sees of the obtions of two supports	coration. Students will develop a portion of the subminiment of the su	ed Drawing/P FY mensional med vill begin to dev Art 1 and 2, th FY cus in art making based on their	meets the AF e Board asse ainting class 1 iia, techniques velop a portfol is course con 1 ng, select scu mes, concept	Concentration based on self- D Drawing Studio Art requirements Essment. Participation in high school Ses. Sculpture/Ceramics 1: Intro. to Art 1/2 Sculpture/Ceramics 2: Sculpture/ Ceramics 1 s, and tools to develop basic skills in ito and are expected to participate in inpletes the standard diploma Sculpture/Ceramics 3: Sculpture/ Ceramics 1/2 Sculpture/Ceramics 3: Sculpture/ Ceramics 4			
directed a as specificant exhibit NOTE: So AR1203 Course Do sculpture a exhibitions requirement AR1304 Course Do processes	ostistic expled by the obtions is required to see tudents shape of the obtions of two sees of the obtions of two supports	coration. Students will develop a portion of their vision/voice and work in series.	ed Drawing/P FY mensional med vill begin to dev Art 1 and 2, th FY cus in art making based on their	meets the AF e Board asse ainting class 1 iia, techniques velop a portfol is course con 1 ng, select scu mes, concept	Concentration based on self- D Drawing Studio Art requirements Essment. Participation in high school Ses. Sculpture/Ceramics 1: Intro. to Art 1/2 Sculpture/Ceramics 2: Sculpture/ Ceramics 1 s, and tools to develop basic skills in ito and are expected to participate in npletes the standard diploma Sculpture/Ceramics 3: Sculpture/ Ceramics 1/2 Sculpture/Ceramics 3: Sculpture/ Ceramics 4 Ipture and ceramics materials, and			

			ART		
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
experience	, innovation	Students are expected to demonstra , and refined three-dimensional media d consideration at the post-secondary	a skills and te	chniques. Stu	dents will develop a portfolio suitable
AR4503	99015	ADVANCED PLACEMENT STUDIO ART 3-D 1 & 2	FY	1	None Recommendation of Instructor (especially without Sculpture/ Ceramics 3/4 or Crafts 3/4)
expected to self-director specified be art exhibition NOTE: De	to demonstred artistic e by the Colle ons is requ	ge Board and which will be submitt ired. n prior study, students should be s	d techniques portfolio, wh ed for Colleg	as well as de ich meets the e Board asse	evelop a concentration based on AP Studio Art 3-D requirements as essment. Participation in high school
AR1204	05165	CRAFTS 1 & 2	FY	1	Crafts 1: Intro. to Art 1/2 Crafts 2: Crafts 1
techniques making, ar	s in crafts ar nd so on. St	Students will use various three-dim nd to express ideas. Craft art making udents will begin to develop a portfoction to Art 1 and 2, this course com	g may include lio and are ex	calligraphy, to pected to par	ile painting, silk-screening, mask ticipate in exhibitions. When taken in
AR1305	05165	CRAFTS 3 & 4	FY	1	Crafts 3: Crafts 1/2 Crafts 4: Crafts 3
support th	eir vision/vo	Students will develop personal foo bice and work in series based on th nd participation in exhibitions is exp	emes, conce		afts materials, and processes to al approaches. Portfolio preparation
AR2404	05154	CRAFTS 5 & 6	FY	1	Crafts 5: Crafts 3/4 Crafts 6: Crafts 5
portfolio	Through ind	The main focus for all students will ividual exploration of materials and ebitions is required.			artworks that will be part of a erfect craft techniques. Participation
AR4501	05153	ADVANCED PLACEMENT ART HISTORY 1 & 2	FY	1	None Recommendation of Instructor
multiple ar prepare st	t forms from udents to qu		day across a vaking the Adva	variety of cultu anced Placem	enjoyment and critical examination of ures within historical context. This wi nent Exam. Serious art studio,
AR1205	05169	DIGITAL MEDIA 1 & 2	FY	1	Introduction to Art OR Photo Foundations

			ART		
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
and other o	current digital m	nedia and design application	s. When taken in	sequence w	, animation, computer graphic desigr th Introduction to Art 1 and 2 or diploma requirement of two sequentia

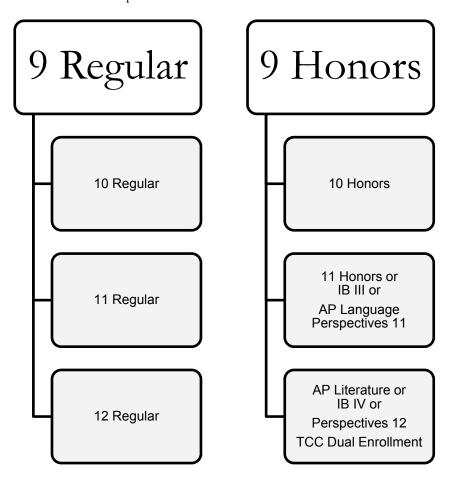
Course Description: As an art intern, the student will gain competence in technical processes, display and exhibition methods, demonstration and tutoring procedures, and leadership strategies. Career opportunities in fine arts and curatorial management will be explored. This course may be repeated for credit.

English

The English curriculum provides a progression of course expectations for student learning and understanding in English Language Arts. By the time students graduate from high school, they will have been exposed to essential skills, content knowledge, and critical thinking processes required for 21st Century Literacies. Students in grades 9 through 12 will learn skills aligned with the Virginia Standards of Learning in the following four strands: Communication (Speaking, Listening, and Media Literacy), Reading, Writing, and Research. Students are expected to continue to apply knowledge, skills, and processes from Standards of Learning presented in previous grades as they build expertise in English.

English Course Sequence

Students can enroll in an Honors English class from a Regular English class by following prerequisites listed in the Course Description Guide.



		ENG	GLISH		
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
LA1100	01001	ENGLISH 9	FY	1	None

Course Description: In English 9, students read and analyze a variety of literary and nonfiction texts, exploring the characteristics of different forms and the techniques authors use to achieve their intended purpose. Language study extends students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure and paragraphing to varied and frequent writing assignments. Through narrative, expository, and persuasive writings, students build on their understanding of writing as a process of prewriting, drafting, revising, and publishing. In the research process students find, evaluate and select appropriate sources to access information to create a research product. In addition, students will develop communication skills through listening to and speaking via oral presentations.

LA2100	01001	HONORS ENGLISH 9	FY	1	Student must have a grade of "B" or better in English 8 or have teacher and/or administrator recommendation.
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Course Description: English 9 Honors deepens and advances the curriculum of English 9. Students read and analyze a variety of literary and nonfiction texts, exploring the characteristics of different forms and the techniques authors use to achieve their intended purpose. Language study extends students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure and paragraphing to varied and frequent writing assignments. Through narrative, expository, and persuasive writings, students build on their understanding of writing as a process of prewriting, drafting, revising, and publishing. In the research process, students find, evaluate, and select appropriate sources to access information to create a research product. In addition, students will develop communication skills through listening and speaking via oral presentations.

LA1200 01002 ENGLISH 10	FY 1	1 credit of English
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Course Description: In English 10, students read and analyze a variety of literary and nonfiction texts, comparing and contrasting the techniques authors use in literature of different cultures and eras. Language study continues to extend students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to varied and frequent writing assignments. With an emphasis on expository and analytic writing, students expand their understanding of writing as a process and develop their skills in revising to address a specific audience and purpose. In the research process, students collect, evaluate, organize, and present accurate and valid information to create a research product. They also improve communication and collaboration skills through small and large group discussion and presentations.

LA2200	01002	HONORS ENGLISH 10	FY	1	Student must have a grade of "B" or better in Honors English 9 or have teacher and/or administrator recommendation.
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Course Description: English 10 Honors deepens and advances the curriculum of English 10. Students read and analyze a variety of literary and nonfiction texts, comparing and contrasting the techniques authors use in literature of different cultures and eras. Language study continues to extend students' vocabulary through learning about connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure and paragraphing to varied and frequent writing assignments. With an emphasis on expository and analytic writing, students expand their understanding of writing as a process and develop their skills in revising to address a specific audience and purpose. In the research process, students collect, evaluate, organize, and present accurate and valid information to create a research product. They also improve communication and collaboration skills through small and large group discussion and presentations.

Note: This course is a prerequisite for AP English.

LA1300 01003 ENGLISH 11 FY 1 2 Credits of English		
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Honors English 9, 10, and 11 or

teacher recommendation

ENGLISH Number Credits SCED **NPS NPS** Prerequisite(s) of Per Course Title Code Code Semesters Year Course Description: In English 11, students read and analyze a variety of literary and nonfiction texts, comparing themes of various works of American literature. Students will use nonfiction texts to draw conclusions and make inferences citing textual support. Language study extends students' vocabulary through applying understanding of connotations, denotations, word origins, and structures. Students apply their understanding of grammar, capitalization, punctuation. spelling, sentence structure, and paragraphing to write clear and accurate personal, professional, and informational correspondence and reports for research and other applications. With an emphasis on persuasive writing, students apply their skills and adapt content, vocabulary, voice, and tone to a specific audience and purpose. The student will develop informative and persuasive writings by locating, evaluating, synthesizing, and documenting information following ethical and legal guidelines. The student will be able to make and analyze informative and persuasive oral presentations, with attention to the accuracy of evidence and the effectiveness of delivery. Students are required to take the Standards of Learning End of Course Test. Student must have a grade of "B" or better in Honors English 10 or have teacher and/or administrator LA2300 01003 **HONORS ENGLISH 11** FY recommendation if below "B" in Honors 10 or if having passed English 10 with a "B" or better or parent request. Course Description: Pre-AP English 11 deepens and advances the curriculum of English 11. Students read and analyze a variety of literary and nonfiction texts, comparing themes of various works of American literature. Students will use nonfiction texts to draw conclusions and make inferences citing textual support. Language study extends students' vocabulary through applying understanding of connotations, denotations, word origins and structures. Students apply their understanding of grammar, capitalization, punctuation, spelling, sentence structure, and paragraphing to write clear and accurate personal, professional and informational correspondence and reports for research and other applications. With an emphasis on persuasive writing, students apply their skills and adapt content, vocabulary, voice and tone to a specific audience and purpose. The student will develop informative and persuasive writings by locating, evaluating, synthesizing and documenting information following ethical and legal guidelines. The student will be able to make and analyze informative and persuasive oral presentations, with attention to the accuracy of evidence and the effectiveness of delivery. Students are required to take the Standards of Learning End of Course Test. Note: This course is a prerequisite for AP English. LA1400 01004 **ENGLISH 12** FΥ 3 Credits of English Course Description: In English 12, students read and analyze British literature and literature of other cultures. recognizing major forms and their stylistic elements. Using nonfiction texts, students will analyze and synthesize information to solve problems. The student will use organizational skills and both verbal and nonverbal presentation skills to plan and deliver an effective oral presentation, choosing language, and tone appropriate to the audience and purpose. Students will use technology and understanding of media to create, organize, and display knowledge in ways others can access, view and use. Language study expands students' general and specialized vocabulary through speaking, listening, reading, and viewing. Writing will include the production of informational, expository, and persuasive/argumentative papers, logically organized demonstrating knowledgeable judgments, and effective conclusions. The student will also produce a well-documented major research product by locating, evaluating, synthesizing, and documenting information following ethical and legal guidelines. The student will demonstrate advanced knowledge of grammatical conventions through writing, editing and speaking.

FΥ

ADVANCED PLACEMENT

ENGLISH LITERATURE

01006

LA4450

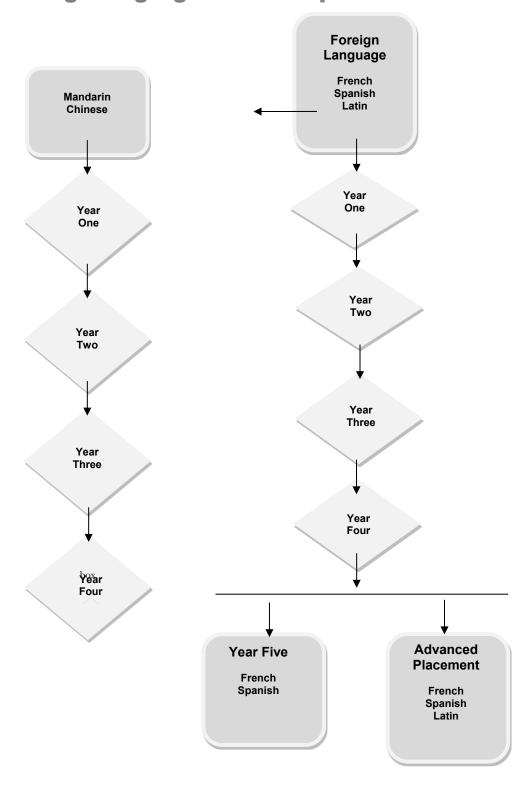
ENGLISH Number Credits SCED **NPS NPS** of Per Prerequisite(s) **Course Title** Code Code Semesters Year Course Description: The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. ADVANCED Honors English 9, 10, and 11 or LA4350 01005 PLACEMENT ENGLISH-FY 1 teacher recommendation LANGUAGE & COMPOSITION Course Description: The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. CREATIVE WRITING LA1502 01104 FΥ None Course Description: In this course students will write various types of poetry and prose. They will draw on memories, emotions, experiences, and images to produce writing in various literary forms. Students will also share their writing through group interaction, oral readings, and publication. LA1509 11101 JOURNALISTIC WRITING FΥ English 9 Course Description: Students in this course may function as the editorial-managerial staff of the school newspaper. In addition to the primary role of publishing, students will refine the techniques of basic news writing by employing different rhetorical and journalistic styles. Students will also explore journalistic ethics, First Amendment guarantees, and aspects of high school and professional journalism. LA1507 01002 **NEWS PRODUCTION** None Course Description: This course introduces students to the skills and steps involved in the production of the school newspaper. In addition to basic news writing, students in this course will learn the techniques involved in all stages of the publication field: advertising, graphic arts, business management, layout design, photography, and word processing. Teacher recommendation/ FΥ LA1508 01151 ORAL COMMUNICATION 1 approval Course Description: This course will help students refine their speaking skills. Through writing and presenting speeches, participating in discussion groups and debates, and practicing reading aloud, students will learn to communicate their thoughts and feelings in a variety of ways to a variety of audiences. They will critique their own speeches as well as those of their classmates. 01066 FY LA1602 READING FOR IMPROVEMENT 1 Gates Testing Results

ENGLISH Number Credits SCED **NPS** Prerequisite(s) of Per **Course Title** Code Code Semesters Year Course Description: This course is designed to provide direct, explicit and intensive reading instruction to students who are reading two or more years below grade level. Basic objectives of this reading course are focused on closing the gap between the student's present level of performance and the level of performance needed to successfully access the general curriculum. Instruction focuses on increasing students decoding, fluency, and comprehension skills of fiction and nonfiction materials. SAT LA1505 22999 FΥ 10th, 11th, or 12th grade status PREP Course Description: In this course, which consists of two verbal segments and two math segments alternating every 4 ½ weeks, students will develop and practice the skills and strategies necessary for completing the verbal and math items on the Scholastic Aptitude Test. **MULTIMEDIA** LA1506 99013 FΥ Teacher recommendation/approval **PRODUCTION** Course Description: This course provides students with a basic understanding of the technology behind video production and some of the ways it is created to achieve the desired effect on the audience. Emphasis will be on acquiring the principles and skills relating to visual communication. The program development components include selecting and developing topics, using interviews and other research techniques for gathering background information, writing scripts, and developing graphics, speaking on camera, and evaluating work. Example formats include producing a school news program; video, annual team sports highlights, documentaries, and promotional advertising commercials. LA1602 05099 **THEATRE** FY Teacher recommendation/approval Course Description: In this course, students will examine the historical framework of theater and of selected plays. Students will be involved in performance activities, participate in production activities to mount the plays, and write about varied aspects of theater, including reviews of plays. Teacher recommendation/ YEARBOOK PRODUCTION LA1501 11104 approval Course Description: In this course students will study the various elements for publication of the school yearbook. The staff will master various skills in writing, layout, graphics, photography, and business management that are essential in mass production.

Foreign Language | ESL

Learning a second language provides the learner with skills and experiences in another language and culture and provides a valuable 21st Century skill in an increasingly diverse world.

Foreign Language Course Sequence



		FOREIGN LANG	SUAGE		
NPS Code	SCED Code	NPS Course Title	Number of Semest ers	Credits Per Semester	Prerequisite(s)
FL1101	06121	FRENCH YEAR 1	FY	1	None
writing. Students learn to m	anipulate im	duces the fundamentals of French by portant structures of the language wit oriate. The foundation of the French p	hin a basic	vocabulary an	nd idiom range. Relevant aspects of
FL1102	06122	FRENCH YEAR 2	FY	I	Sucessful completion of French Year 1
speaking, reading, and writi are introduced and mastere	ng. Structure d. Culture ar	inues introducing the fundamentals of es and vocabulary studied in French \nderpression nd customs of French speaking peopl he foundation of the French program	rear One a es also cor	re reviewed. A	dditional structures and vocabulary
FL1103	06123	FRENCH YEAR 3	FY	1	Successful completion of French Year 2
A general review of appropr	riate aspects in spoken ar	er develops the skills of listening, spe of French Year One and Two is pres nd written form. Oral expression will b	ented. Stud	dents will expa	
FL1104	06124	FRENCH YEAR 4	FY	1	Successful completion of French Year 3
study of culture. Reviewing French at an advanced level	of material for	rom French Year One, Two, and Thre	ee will be do nmunication	one according	and writing and further reinforces the to individual needs. Self-expression in ment of proficiency in language usage
FL4106		Advanced Placement French	FY	1	Successful completion of French Year 4 and teacher recommendation
and reflective writing. The f	focus of the vition and a co	writing is on rhetoric, style, richness, a procentration on authors' use of langua	and comple	xity. In addition	

FL1301	06301	LATIN YEAR 1	FY	1	None
placed on those of reading idiom range. Source mater	and writing. Sial for this intr	duces the fundamentals of Latin. The Students learn to manipulate importar oductory course centers around the coing concepts, skills, and positive atti	it structures ustoms and	s of the langua d history of the	age within a basic vocabulary and e Roman people. The foundation of the
FL1302	06302	LATIN YEAR 2	FY	1	Successful completion of Latin Year 1
reviewed. The skills of read grammatical structures. Re	ding and writir eadings reflect ment of conce	nues introducing the fundamentals of ng are emphasized as sentences and t the legendary history of Rome and i pts, skills, and positive attitudes in the	reading se s actual mi	lections are us litary expansio	on, in conjunction with social
FL1303	06303	LATIN YEAR 3	FY	1	Successful completion of Latin Year 2
structures, and includes a	general reviev	v of material from Latin One and Latin			will develop and expand grammatical nue to develop concepts and skills in
the areas of language usag	ge, cuiture, ar				
	06304	LATIN YEAR 4	FY	1	Successful completion of Latin Year
FL1304 Course Description: This Three will be done according vocabulary, and techniques	06304 s course enhang to individuals of style through	LATIN YEAR 4 nces and refines the fundamental ski al needs. Students will obtain a broad	lls of Latin. er knowled orks. The d	Reviewing of ge of advance	material from Latin Year One, Two, and sentence structures of grammar,
FL1304 Course Description: This Three will be done according vocabulary, and techniques in the areas of language us	06304 s course enhang to individuals of style through	LATIN YEAR 4 nces and refines the fundamental ski al needs. Students will obtain a broad ugh study of both prose and poetic w	lls of Latin. er knowled orks. The d	Reviewing of ge of advance	material from Latin Year One, Two, and sentence structures of grammar, concepts, skills, and positive attitudes
FL1304 Course Description: This Three will be done according vocabulary, and techniques	06304 s course enha ng to individua s of style thro sage, culture,	LATIN YEAR 4 nces and refines the fundamental ski al needs. Students will obtain a broad ugh study of both prose and poetic wand literature remains the basis of the ADVANCED PLACEMENT	lls of Latin. er knowled orks. The d e Latin prog	Reviewing of ge of advance evelopment of gram.	concepts, skills, and positive attitudes Successful completion of Latin Year
FL1304 Course Description: This Three will be done according vocabulary, and techniques in the areas of language us FL4306 FL1401 Course Description: This writing. Students learn to make the second state of the second stat	06304 s course enhang to individuals of style throus sage, culture, 06313 06101 s course introducinanipulate imparts	LATIN YEAR 4 nces and refines the fundamental ski al needs. Students will obtain a broad ugh study of both prose and poetic wand literature remains the basis of the ADVANCED PLACEMENT LATIN SPANISH YEAR 1 duces the fundamentals of Spanish be portant structures of the language with the structure of the language with the structure of the structure of the language with the structure of the structure of the language with the structure of the structure of the language with the structure of the	er knowled orks. The do e Latin prog FY FY	Reviewing of ge of advance evelopment of gram. 1 the four skills vocabulary an	material from Latin Year One, Two, and sentence structures of grammar, concepts, skills, and positive attitudes Successful completion of Latin Year and teacher recommendation None Of listening, speaking, reading, and

Course Description: This course continues introducing the fundamentals of Spanish by stressing the development of the skills of listening. speaking, reading, and writing. Structures and vocabulary studied in Spanish Year One are reviewed. Additional structures and vocabulary are introduced and mastered. Culture and customs of Spanish speaking peoples also continue as a focus of learning. The development of proficiency in language usage remains the foundation of the Spanish program. Successful completion of FL1403 06103 SPANISH YEAR 3 FY Spanish Year 2 Course Description: This course further develops the skills of listening, speaking, reading, and writing and reinforces the study of culture. A general review of appropriate aspects of Spanish Year One and Two is presented. Students will expand their knowledge of idiomatic expression and vocabulary in spoken and written form. Oral expression will be expected and encouraged. The program is based on proficiency in the use of Spanish. Successful completion of FL2404 06104 FY SPANISH YEAR 4 Spanish Year 3 Course Description: This course expands upon and refines the skills of listening, speaking, reading, and writing and further reinforces the study of culture. Reviewing of material from Spanish Year One, Two, and Three will be done according to individual needs. Self-expression in Spanish at an advanced level will be emphasized for both oral and written communication. The development of proficiency in language usage remains the basis of the Spanish program. This is an honors level class with weighted credit. Successful completion of FL2405 06105 FY SPANISH YEAR 5 Spanish Year 4 Course Description: This course is the most advanced refinement of the skills of listening, speaking, reading, and writing and the most concentrated study of culture. Necessary aspects of Spanish Year One, Two, Three, and Four will be reviewed. Emphasis will be placed on versatility of spoken and written Spanish while expanding the literary, cultural, and historical knowledge of Spanish-speaking areas. The program is directed toward developing proficiency in students' use of the language. This is an honors level class with weighted credit. Successful completion of Spanish ADVANCED PLACEMENT FL4406 06112 FY year 4 or Spanish year 5, and teacher **SPANISH** recommendation. Course Description: This course is designed for students of exceptional ability who have a genuine interest in Spanish. Students are required to participate in intensive, teacher-directed, and independent study. This study is based on the introduction of specific materials and the development of specific skills as delineated in the Course Description for Advanced Placement Spanish. Students are strongly encouraged to take the examination for Advanced Placement in Spanish which may qualify them for college and/or advanced class standing and carries weighted credit. English as a Foreign Language 1 FL1601 5710 (EFL Year 1) FΥ None Newcomer

Students placed in this course are newly arrived to the US schools and score between a 1.0-1.8 on a WIDA assessment. This intensive course emphasizes social and academic survival skills and is designed for accelerated English acquisition. There is explicit, systematic instruction on literacy skills such as phonemic awareness, decoding, spelling, and high-frequency words. There is an emphasis on speaking and listening skills. Students gain an understanding of social behaviors and instructional phrases for school settings and integration into American society. Academic Language is taught via content. Students will practice and be assessed in the domains of listening, speaking, reading and writing.

FL1602	5720	English as a Foreign Language 2 (EFL Year 2) Beginner	FY	1	Completion of EFL Year 1 or relevant ACCESS score
ssessment. This intensiv vriting. The course further anguage. Students begin	re course conti r builds on the to see a bridg		ains of the ency and co other core	English langua emprehension subjects such	age, listening, speaking, reading and
FL1603	5730	English as a Foreign Language 3 (EFL Year 3) Intermediate	FY	1	Completion of EFL Year 2 or relevant ACCESS score
efine the academic langu eavy and begins to focus ecomes more content he ommunication and acade	lage with all do s on higher leve eavy in regards emic language	students who score between a 2.3-2. mains of the target language, listeninel thinking strategies, and emphasize to the core classes which are integrals correlated to the student. English I locademic classes and students will have	g, speaking s reading cated with the anguage lea	g, reading and omprehensior eir English dev arners in this o	writing. Instruction is vocabulary and writing skills. The course velopment. An increased emphasis o course will be on their way to
FL1604		English as a Foreign Language 4 (EFL Year 4)	FV.		Completion of EFL Year 3
This course is for students mprove academic English academic subjects found in English information. Stude	n through readi in the core curr ents will be res	Advanced overall comprehensive score of a 3.0 ing, writing, listening and speaking skriculum. Students will use strategies to ponsible for the creation and delivery	ills. Studen o increase of oral pres	ts will integrate their speed an sentations and	ent. The course is designed to help e their English skills with other id accuracy to listen and read acaden I projects in English. Language learne
This course is for students mprove academic English academic subjects found in English information. Stude will be expected to performess ESL support.	s who earn an n through read in the core currents will be res	Advanced overall comprehensive score of a 3.0 ing, writing, listening and speaking skriculum. Students will use strategies to ponsible for the creation and delivery in core classes and on the Virginia Senglish as a Foreign Language (EFL Year 5)	-3.5 on a W ills. Studen o increase of oral pres	/iDA assessm ts will integrat their speed an sentations and	ent. The course is designed to help e their English skills with other id accuracy to listen and read academ I projects in English. Language learne
This course is for students mprove academic English academic subjects found is English information. Stude will be expected to performess ESL support. FL2605 This is an elective course. Students will use fiction are students will present creat stening and speaking. Students ypository essays. Students	s who earn an har through reading the core currents will be reson successfully ? Students are and nonfiction mative ideas and udents will focus	Advanced overall comprehensive score of a 3.0 ing, writing, listening and speaking skriculum. Students will use strategies to ponsible for the creation and delivery in core classes and on the Virginia Senglish as a Foreign Language	-3.5 on a Wills. Studen o increase of oral preson. Studento of oral preson. FY	/iDA assessm ts will integrate their speed and sentations and ments within the 1 3.5-4.3 parame anding of the A s. Students will uage through	or relevant ACCESS score ent. The course is designed to help the their English skills with other and accuracy to listen and read acaden the projects in English. Language learned the target language and subject with Completion of EFL Year 4 or relevant ACCESS score eters of the WIDA proficiency scale. American culture through writings. I continue to advance their skills in persuasive, comparing/contrasting,
This course is for students mprove academic English academic subjects found is English information. Stude will be expected to performess ESL support. FL2605 This is an elective course. Students will use fiction are students will present creat stening and speaking. Students ypository essays. Students	s who earn an har through reading the core currents will be reson successfully ? Students are and nonfiction mative ideas and udents will focus	Advanced overall comprehensive score of a 3.0 ing, writing, listening and speaking skriculum. Students will use strategies to ponsible for the creation and delivery in core classes and on the Virginia S English as a Foreign Language (EFL Year 5) Advanced II at the most advanced level and fall be lodern American texts to create a bet beliefs in the target language about the sond their writing skills to prefect the	-3.5 on a Wills. Studen o increase of oral preson. Studento of oral preson. FY	/iDA assessm ts will integrate their speed and sentations and ments within the 1 3.5-4.3 parame anding of the A s. Students will uage through	or relevant ACCESS score ent. The course is designed to help the their English skills with other and accuracy to listen and read academ the projects in English. Language learned the target language and subject with Completion of EFL Year 4 or relevant ACCESS score eters of the WIDA proficiency scale. American culture through writings. I continue to advance their skills in persuasive, comparing/contrasting,
This course is for students improve academic English academic subjects found in English information. Stude will be expected to performess ESL support. FL2605 This is an elective course. Students will use fiction and Students will present creat istening and speaking. Students.	s who earn an har through reading the core currents will be reson successfully ? Students are and nonfiction mative ideas and udents will focus	Advanced overall comprehensive score of a 3.0 ing, writing, listening and speaking skriculum. Students will use strategies to ponsible for the creation and delivery in core classes and on the Virginia S English as a Foreign Language (EFL Year 5) Advanced II at the most advanced level and fall be lodern American texts to create a bet beliefs in the target language about the sond their writing skills to prefect the	-3.5 on a Wills. Studen o increase of oral preson. Studento of oral preson. FY	/iDA assessm ts will integrate their speed and sentations and ments within the 1 3.5-4.3 parame anding of the A s. Students will uage through	or relevant ACCESS score ent. The course is designed to help the their English skills with other and accuracy to listen and read academ the projects in English. Language learned the target language and subject with Completion of EFL Year 4 or relevant ACCESS score eters of the WIDA proficiency scale. American culture through writings. I continue to advance their skills in persuasive, comparing/contrasting,
This course is for students mprove academic English academic subjects found it English information. Stude will be expected to performess ESL support. This is an elective course. Students will use fiction and Students will present creat stening and speaking. Students emails. FL1501 Course Description: In Chinese speakers. Students the struction according to the struction according to the	s who earn an in through reading the core currents will be resensuccessfully ? Students are and nonfiction mittive ideas and udents will focusts will also begin the core in	Advanced overall comprehensive score of a 3.0 ing, writing, listening and speaking skriculum. Students will use strategies to ponsible for the creation and delivery in core classes and on the Virginia S English as a Foreign Language (EFL Year 5) Advanced II at the most advanced level and fall be lodern American texts to create a bet beliefs in the target language about the soort of the course on skills associated with a manual ma	FY etween the ter understance readings target languapplications FY competence opics that a ituations in	/iDA assessm ts will integrate their speed and sentations and ments within the 1 3.5-4.3 parame anding of the Assessments will uage through the resumes, co 1 are meaningfu which students	ent. The course is designed to help their English skills with other d accuracy to listen and read academ projects in English. Language learne the target language and subject with Completion of EFL Year 4 or relevant ACCESS score eters of the WIDA proficiency scale. American culture through writings. I continue to advance their skills in persuasive, comparing/contrasting, wer letters, interviews, memos and None their understanding of the culture(s) of to them Grammar is integrated into ts are required to communicate. The

writing with other speakers of the target language, understanding oral and written messages in the language, and making oral and written presentations in the language. They begin to show a greater level of accuracy when using basic language structures, and they are exposed more complex features of the language. Students continue to focus on communicating about their immediate world and daily activities. They read material on familiar topics and write short, directed compositions. Emphasis continues to be placed on use of the target language in the classroom as exclusively as possible, as well as on use of authentic materials to learn about the Chinese language and culture(s).
FL1503 06403 MANDARIN CHINESE YEAR 3 FY 1 Successful completion of Mandarin Chinese Year 2
Course Description: In Chinese III, students continue to develop their communicative and cultural competence by interacting orally and in writing with other speakers of Chinese. Understanding oral and written messages in the language, and making oral and written presentations in the language. They communicate on a variety of topics, using more complex structures in the language and moving from concrete to more abstract concepts in a variety of time frames. They 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 Chinese, topics related to historical and contemporary events and issues. Emphasis continues to be placed on use of Chinese in the classroom as exclusively as possible, as well as on use of authentic materials to learn about the Chinese language and culture
FL2504 MANDARIN CHINESE YEAR 4 FY 1 Successful completion of Mandarin Chinese Year 3
Course Description: In Chinese Level IV, students continue to develop their communicative and cultural competence in the interpersonal, interpretive, and presentational modes of communication. They are able to exchange information and express opinions on a variety of topics at a proficiency level commensurate with their study. Students comprehend and produce information drawn from a variety of authentic sources. Students will continue to expand their repertoire of Chinese characters. Emphasis continues to be placed on use of Chinese in the classroom as exclusively as possible, as well as on use of authentic materials to learn about the Chinese language and culture(s).

ESL

FL1603

01008

NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
FL1601	01008	ENGLISH AS A SECOND LANGUAGE 1	FY	1	Identified English Language Learners
earn English	as rapidly as	s is a course for foreign students w s possible to be successful in school hasis is placed on spoken English i	ol programs. St	tudents will d	evelop skills in listening, speakir
learn English reading, and v	as rapidly as writing. Emp	s possible to be successful in school	ol programs. St n everyday siti	tudents will duations, on p	evelop skills in listening, speakir

Course Description: This course is designed for students with limited English proficiency who need additional assistance in refining their listening, speaking, reading, and writing skills and who wish to prepare for immediate employment. Students will improve their English skills as they prepare for a job, which suits their interest and aptitude. This course is offered at Madison Career Center.

FY

1

ESL teacher recommendation

ENGLISH

AS A

SECOND LANGUAGE 3

Health, Safety and Physical Education

Physical education provides students with an ongoing commitment to ensure rigorous, relevant physical education standards that reflect disciplinary knowledge and research to prepare all students to be capable, responsible, and self-reliant citizens in a global society. Students will learn essential health concepts, develop understanding of health information, and actively advocate for their own health as well as the health of their peers, families, and communities. The goal of driver education is to transfer the skills and competencies necessary to become a proficient user of the highway transportation system.

		HEALTH, SAFETY AN	ID PHYSI	CAL ED	UCATION
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
PE1100	08052	HEALTH, SAFETY, AND PHYSICAL EDUCATION 9	FY	1	None

Course Description: The Health and Safety curriculum in the first semester of the ninth grade include the Endocrine System, Fitness, Preventing Infectious and Life Style Diseases, and Mental Health and Stress. Personal Safety and Violence, Basic First Aid/CPR/AED and Family Life Education. Physical Education is an academic discipline that involves the study of human movement and its impact of health and quality of life. The grade is an average of the students' performance in classroom health and physical education. This course meets the graduation requirements for Health & Physical Education.

PE1200 08201 CLASSROOM DRIVER EDUCATION AND PHYSICAL EDUCATION	FY	1	Completion of PE1100
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Course Description: Classroom driver education is taught as part of health education during the first semester of the tenth grade year. Driver literacy is an important life skill. The classroom driver education standards are intended to help students develop conceptual understanding of safe driving practices and skill-based performance. The standards also stress the abilities to reason and connect safe driving skills with safe driving attitudes. Emphasis is placed on linking the skills of visual search, managing time and space, and maintaining vehicle balance. Significant attention is given to awareness of risk, maintenance of alertness, driver distractions, and protection of occupants. Satisfactory completion of this course is required to take Behind-the-Wheel instruction. Physical Education is an academic discipline that involves the study of human movement and its impact of health and quality of life. This course meets the graduation requirements for Health & Physical Education.

The student will receive one grade for Classroom Driver Education and Physical Education.

PE1201	08151	CLASSROOM DRIVER EDUCATION	FY	Completion of PE1200

Course Description: Classroom driver education is taught within the health education curriculum during the first semester of the tenth grade year. Driver literacy is an important life skill. The classroom and in-car driver education standards are intended to help students develop conceptual understanding of safe driving practices and skill-based performance. The standards also stress the abilities to reason and connect safe driving skills with safe driving attitudes. Emphasis is placed on linking the skills of visual search, managing time and space, and maintaining vehicle balance. Significant attention is given to awareness of risk, maintenance of alertness, driver distractions, and protection of occupants.

		HEALTH, SAFETY AN	ID PHYSI	CAL ED	UCATION
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
PE1300	08005	ELECTIVE - HEALTH, SAFETY, AND PHYSICAL EDUCATION 11	FY	1	Successful completion of PE1100 and PE1200
		Elective health, safety and physic ports, introduction to Physical Edu			
PE1301	08005	PHYSICAL EDUCATION LEADERSHIP TRAINING AND PEER FACILITATOR (11 th grade)	FY	1	Successful completion of PE1100 and PE1200. and teacher recommendation
					who wish to pursue leadership train
eleventh a PELT stud PELT is de PELT prog verbal/non consequer students w	nd twelfth g ents receive esigned to m gram is designed commently, being m vill assist wit	rade physical education students to e instruction and supervision from to hake unique contributions to each in gned to provide diversified career of munication training. The program we notivated to continue their education	o assist with in the physical ed individual's me opportunities th vill enable stud on. Upon compl	struction in e ucation staff ntal, physica rough the de ents to deve etion of requ	elementary, middle, and high schools and cooperating classroom teachers I, emotional, and social health. The evelopment of leadership skills and lop positive self-concepts, irements established for the progran
eleventh a PELT stud PELT is de PELT prog verbal/non consequer students w	nd twelfth g ents receive esigned to m gram is designed commently, being m vill assist wit	rade physical education students to e instruction and supervision from to hake unique contributions to each in gned to provide diversified career of munication training. The program we notivated to continue their education the instruction in assigned schools.	o assist with in the physical ed individual's me opportunities th vill enable stud on. Upon compl	struction in e ucation staff ntal, physica rough the de ents to deve etion of requ	elementary, middle, and high schools and cooperating classroom teachers in emotional, and social health. The evelopment of leadership skills and lop positive self-concepts, irements established for the program in the program will receive a grade as Successful completion of PE1100
eleventh a PELT stud PELT is de PELT prog verbal/non consequer students w outlined fo PE1400 Course De for selecte health, saf	nd twelfth g ents receive esigned to n pram is designed to n pram	rade physical education students to instruction and supervision from the instruction and supervision from the instruction and supervision from the instruction training. The program who instruction in assigned schools. It is represented by the instruction in assigned by the instruction in assi	o assist with in the physical ed individual's meropportunities the will enable studen. Upon compleach student per FY FY Training (PE ohysical education. Students and Studen	struction in e ucation staff ntal, physica irough the de ents to deve etion of requ articipating in	evelopment of leadership skills and lop positive self-concepts, irements established for the program in the program will receive a grade as Successful completion of PE1100 PE1200, and PE1300, and teached

Course Description: Students in elective physical education will demonstrate the knowledge and understanding necessary to analyze movement performance in weight lifting/conditioning using scientific principles, and implement effective practice procedures for skillful performance in specialized movement forms.

recommendation

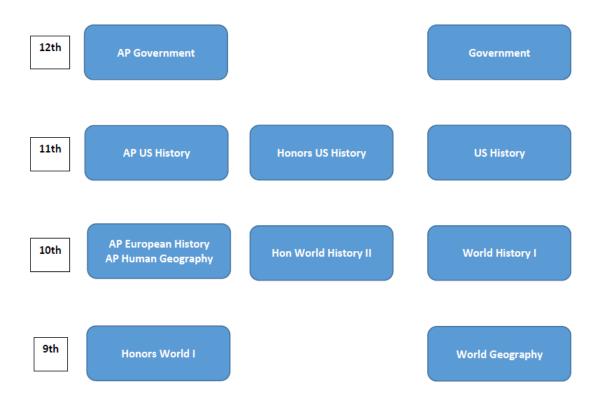
History | Social Science

WEIGHT LIFTING

The history and social science instructional program, in keeping with the Standards of Quality and the

Standards of Learning, seeks to assist students in acquiring the skills, knowledge, and attitudes necessary for effective citizen participation in a pluralistic American society and the global community. The program is designed to meet the varying needs, abilities, and interest of students. In grades nine through twelve, course offerings include: World Geography, World History and Geography to 1500 A.D., World History: 1500 A.D. to Present, Virginia and U.S. History, Virginia and U.S. Government and electives in Sociology, Psychology and Economics. In addition, several advanced placement courses are available. In light of the distribution of history and social science courses to meet the Virginia Standards of Learning Assessment and graduation requirements, the following planning options are offered:

History & Social Science Course Sequence



		HISTORY/SO	OCIAL SO	CIENCE	
NPS Code	State Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
SS1100	04001	WORLD GEOGRAPHY	FY	1	None

Course Description: The focus of this course is the study of the world's peoples, places and environments with an emphasis on world regions. The knowledge, skills, and perspectives of the course are centered on the world's peoples and their cultural characteristics, landforms and climates, economic development and migration, and settlement patterns. Spatial concepts of geography will be used as a framework for studying interactions between humans and their environments. Using geographic resources, students will employ inquiry, research, and technology skills to ask and answer geographic questions. Particular emphasis will be placed on students understanding and applying geographic concepts and skills to their daily lives. An SOL end-of-course test will be given. This course meets the graduation requirement for World Studies credit.

SS4250	04056	ADVANCED PLACEMENT EUROPEAN HISTORY	FY	1	There are no prerequisites. Students are expected to read a college-level textbook and to possess strong writing skills.
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Course Description: Advanced Placement European History is a year-long college level course that focuses on cultural, economic, political and social developments. These focus areas provide context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. This course prepares students to take the Advanced Placement exam administered in May. An SOL end-of-course test may be given. This course carries weighted credit and meets the graduation requirement for World Studies credit.

SS1200	04052	WORLD HISTORY to 1500 A.D.	FY	1	None
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Course Description: This course will enable students to explore the historical development of people, places, and patterns of life from ancient times until 1500 A.D. (C.E.) in terms of the impact on Western civilization. The study of history rests on knowledge of dates, names, places, events, and ideas. Historical understanding, however, requires students to engage in historical thinking, raise questions, and marshal evidence in support of their answers. Students engaged in historical thinking draw upon chronological thinking, historical comprehension, historical analysis and interpretation, historical research, and decision making. These skills are developed through the study of significant historical substance from the era or society being studied. An SOL end-of-course test will be given. This course meets the graduation requirement for World Studies credit.

SS2101	04052	HONORS WORLD HISTORY to 1500 A.D.	FY	1	Student should have a grade of "B" or better in most recent history/ social science course taken or have teacher and/or administrator recommendation or parent request.
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Course Description: This course will enable academically talented students to explore the historical development of people, places, and patterns of life from ancient times until 1500 A.D (C.E.) in terms of the impact on Western civilization. The study of history rests on knowledge of dates, names, places, events, and ideas. Historical understanding, however, requires students to engage in historical thinking, raise questions, and marshal evidence in support of their answers. Students engaged in historical thinking draw upon chronological thinking, historical comprehension, historical analysis and interpretation, historical research, and decision making. These skills are developed through the study of significant historical substance from the era or society being studied. An SOL end-of-course test will be given. This course carries weighted credit and meets the graduation requirement for World Studies credit.

SS4150	04004	ADVANCED PLACEMENT HUMAN GEOGRAPHY	FY	1	There are no prerequisites. Students are expected to read a college-level textbook and to possess strong writing skills.
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HISTORY/SOCIAL SCIENCE Number Credits **NPS** State NPS Per Prerequisite(s) οf Code Code **Course Title** Semesters Year Course Description: The AP Human Geography course is equivalent to an introductory college-level course in human geography. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. This course prepares students to take the Advanced Placement exam administered in May. An SOL end-of-course test may be given. This course carries weighted credit and meets the graduation requirement for World Studies credit. WORLD HISTORY: SS1201 04052 None 1500 to Present Course Description: This course enables students to examine history and geography from 1500 A.D. (C.E.) to the present, with emphasis on development of the modern world. Geographic influences on history will continue to be explored, but increasing attention will be given to political boundaries that developed with the evolution of nations. Significant attention will be given to the ways in which scientific and technological revolutions created new economic conditions that in turn produced social and political changes. Noteworthy people and events of the nineteenth and twentieth centuries will be emphasized for their strong connections to contemporary issues. An SOL end-of-course test will be given. This course meets the graduation requirement for World Studies credit. Student should have a grade of "B" or better in the most recent history/ HONORS WORLD SS2201 FY 04052 social science course taken or have 1 HISTORY: 1500 to Present teacher and/or administrator recommendation or parent request Course Description: This course enables the academically talented student to examine history and geography from 1500 A.D. (C.E.) to the present, with emphasis on development of the modern world. Geographic influences on history will continue to be explored, but increasing attention will be given to political boundaries that developed with the evolution of nations. Significant attention will be given to the ways in which scientific and technological revolutions created new economic conditions that in turn produced social and political changes. Noteworthy people and events of the nineteenth and twentieth centuries will be emphasized for their strong connections to contemporary issues. An SOL end-of-course test will be given. This course carries weighted credit and meets the graduation requirement for World Studies credit. Student should have a grade of "B" or better in the most recent history/ **HONORS** SS2300 04101 FY social science course taken or have VA/U.S. HISTORY teacher and/or administrator recommendation or parent request Course Description: This course expands upon the foundational knowledge and skills previously introduced to include the historical development of American ideas and institutions from the Age of Exploration to the present. While continuing to focus on political, geographic, and economic history, the standards provide students with a basic knowledge of American culture through a chronological survey of major issues, movements, people, and events in Virginia and United States history. As a foundation to develop historical thinking skills, students will apply social science skills to understand the challenges facing the development of the United States. These skills will support the investigation and evaluation of the fundamental political principles, events, people, and ideas that developed and fostered our American identity and led to our country's prominence in world affairs. An SOL end-of-course test will be given. This course carries weighted credit and meets the graduation requirement for US/VA History credit. SS1300 04101 VA/U.S. HISTORY None

HISTORY/SOCIAL SCIENCE Number Credits **NPS** State NPS Prerequisite(s) οf Per Code Code **Course Title** Semesters Year Course Description: This course expands upon the foundational knowledge and skills previously introduced to include the historical development of American ideas and institutions from the Age of Exploration to the present. While continuing to focus on political, geographic, and economic history, the standards provide students with a basic knowledge of American culture through a chronological survey of major issues, movements, people, and events in Virginia and United States history. As a foundation to develop historical thinking skills, students will apply social science skills to understand the challenges facing the development of the United States. These skills will support the investigation and evaluation of the fundamental political principles, events, people, and ideas that developed and fostered our American identity and led to our country's prominence in world affairs. An SOL end-of-course test will be given. This course meets the graduation requirement for US/VA History credit. There are no prerequisites. ADVANCED PLACEMENT Students are expected to read a 04104 FY SS4350 U.S. HISTORY college-level textbook and to possess strong writing skills. Course Description: AP U.S. History is designed to be the equivalent of a two-semester introductory college or university U.S. history course. The course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and an understanding of content learning objectives organized around seven themes, such as identity, peopling, and America in the world. This course prepares students to take the Advanced Placement exam administered in May. This course carries weighted credit and meets the graduation requirement for US/VA History credit. An SOL end-ofcourse test may be given. 04151 GOVERNMENT SS6400 None Course Description: This course addresses the knowledge that enables citizens to participate effectively in civic and

Course Description: This course addresses the knowledge that enables citizens to participate effectively in civic and economic life in an increasingly diverse democratic society. Students will apply social science skills as a foundation to examine fundamental constitutional principles, the rights and responsibilities of citizenship, the political culture, the organization and policy-making process at each level of government, the development of U.S. foreign policy, and the principles and practices of the American economic system. The course also compares the evolving political and economic roles of Virginia and the United States to various types of governments and economic systems in the global community. This course meets the graduation requirement for US/VA Government credit

SS4450 0415	ADVANCED PLACEMENT AMERICAN GOVERNMENT AND POLITICS	FY	1	There are no prerequisites. Students are expected to read a college-level textbook and to possess strong writing skills.
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Course Description: AP United States Government and Politics is a college-level course that introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning assess causes and consequences of political events, and interpret data to develop evidence-based arguments. This course prepares students to take the AP exam administered in May. This course carries weighted credit and meets the graduation requirement for US/VA Government credit.

Course Description: AP Comparative Government and Politics is a college-level course that introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures; policies; and the political, economic, and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. This course carries weighted credit but does NOT meet graduation requirements for US/VA Government credit

		HISTORY/SO			
NPS Code	State Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
SS1301	04254	INTRODUCTION TO PSYCHOLOGY	FY	1	None
discipline. Manguage, conow the working theories and the fact will be empty	Major learning treativity, mem reativity, mem rld is perceived ists will be relations which influ- nasized. Com	ory, and intelligence on thought d and the factors that affect perc ted to the student's individual per lence this period. The measurer	I be illustrated will be demore eption. : The ersonality groment of persovill be a review	d. The process nstrated. Addit development wth. An emplorality and how w of personality	s of thought and the influence of tional emphasis will be placed on of personality as explained by hasis will be placed on adolescence when be be be better and emotions interact the disorders and abnormal behavior.
SS4351	04254	ADVANCED PLACEMENT PSYCHOLOGY	FY	1	There are no prerequisites. Students are expected to read a college-level textbook and to possess strong writing skills.
sychology hey use the	Throughout the scientific met	ne course, students employ psyc thod, analyze bias, evaluate clair	chological res ms and evide	earch method nce, and effec	of abnormal behavior, and social is, including ethical considerations, ctively communicate ideas. This level course and carries weighted
osychology hey use the	Throughout the scientific met	ne course, students employ psycthod, analyze bias, evaluate clain to take the AP exam administer	chological res ms and evide	earch method nce, and effec	s, including ethical considerations,
osychology. hey use the course preparedit. SS1302 Course Des nivestigated other culture social aspeciacical aspeciacical cological	Throughout the scientific metal ares students 04258 scription: In the scription of American Students 1. Through the less, the student of class strip of the scriptions of American Students of Class strip of the scription of American Students of Class strip of American Students of American Students of Class Strip of American Students of Class Strip of American Students of American St	ine course, students employ psychod, analyze bias, evaluate claim to take the AP exam administers. INTRODUCTION TO SOCIOLOGY this course, man as a part of sociuse of case studies depicting valuate sociological data at the course, man as a part of sociuse of case studies depicting valuate sociological data at the course, man as a part of sociuse of case studies depicting valuate sociological data at the course, man as a part of sociuse of case studies depicting valuate sociological data at the course of the course	chological resms and evide ed in May. The FY siety and the entrous aspects and analyze the form of society will	earch method nce, and effectis is a college 1 1 elements that is of American ne importance I be discussed	s, including ethical considerations, ctively communicate ideas. This level course and carries weighted None influence society will be culture and comparative views of of the study of sociology. The discourse and comparative views of the study of sociology. The discourse are considered to the study of sociology. The discourse weights are considered to the study of sociology.
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osychology. hey use the course preparedit. SS1302 Course Des nivestigated other culture social aspeciacial aspeciacial osociological sociological sociological cociological dispersion of the course Des economics is amiliarity with government analyze, des	Throughout the excientific metal ares students 04258 scription: In the excitor of class strip problems of Afactors. 04203 scription: AP that apply to the ith the operation in promoting excitor in promoting excitors.	INTRODUCTION TO SOCIOLOGY this course, man as a part of soc use of case studies depicting value and the basic institutions where and the student's ability ADVANCED PLACEMENT MICROECONOMICS Microeconomics is an introductive functions of individual economic on of product and factor markets greater efficiency and equity in tiplain economic concepts. Studentics, evaluate claims of the student of the student of the functions of the student of the functions of the student of the stude	FY FY ciety and the entrious aspects and analyze the of society will to project solution discrete the circumstance of the ci	earch method nce, and effectis is a college 1 elements that is of American ne importance in the impor	Is, including ethical considerations, ctively communicate ideas. This level course and carries weighted None Influence society will be culture and comparative views of of the study of sociology. The diagram of the study of sociology of the study of sociology. The diagram of the study of sociology of the study of sociology. The diagram of the study of sociology. The
psychology. hey use the course preparedit. SS1302 Course Des nivestigated other culture social aspecial aspecial cociological sociological sociological cociological cociological aspecial sociological sociologica	Throughout the excientific metal ares students 04258 scription: In the excitor of class striptoblems of Afactors. 04203 scription: AP that apply to the in promoting excitor, and experience and experience and experience are the excitor of the	INTRODUCTION TO SOCIOLOGY this course, man as a part of soc use of case studies depicting value and the basic institutions where and the student's ability ADVANCED PLACEMENT MICROECONOMICS Microeconomics is an introductive functions of individual economic on of product and factor markets greater efficiency and equity in tiplain economic concepts. Studentics, evaluate claims of the student of the student of the functions of the student of the functions of the student of the stude	FY FY ciety and the entrious aspects and analyze the of society will to project solution discrete the circumstance of the ci	earch method nce, and effectis is a college 1 elements that is of American ne importance in the impor	Is, including ethical considerations, ctively communicate ideas. This level course and carries weighted None Influence society will be culture and comparative views of the study of sociology. The discourse and carries weighted on the problems considering There are no prerequisites. Students should be able to read a college-level textbook and should possess basic mathematics and graphing skills. In the focuses on the principles of course also develops students and the role of the touse graphs, charts, and data to the college of the colle

HISTORY/SOCIAL SCIENCE Number Credits **NPS** State NPS Prerequisite(s) Per οf Code Code **Course Title** Semesters Year Course Description: AP Macroeconomics is an introductory college-level course that focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. Students are prepared to take the AP exam administered in May. This course carries weighted credit. SEMINAR IN AFRICAN SS1401 04107 FΥ VA/US History **AMERICAN STUDIES** Course Description: This two-semester course offers the academically advanced student the opportunity to focus on the impact of African American history, literature and arts on the overall history of the United States. Emphasis will be placed on developing research and presentation skills. Community resources and special projects will be an integral part of this course

Course Description: Is designed to be the equivalent of a two-semester introductory college or University World History course. Students investigate significant events, individuals, developments, and processes in in six historical periods. From approximately 8000 B.C.E. to the present. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures.

FY

WORLD HISTORY

ADVANCE PLACEMENT

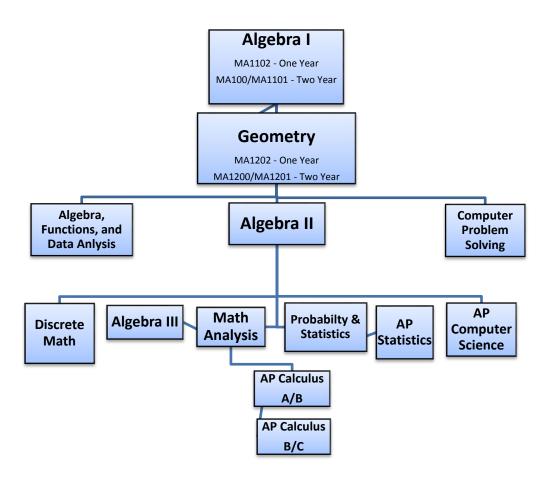
WORLD HISTORY

SS4251

Mathematics

Mathematics curricular choices are designed to provide extensive opportunities which meet a variety of student needs for college and career readiness. The academic sequence begins with Algebra I and culminates with three Advanced Placement courses. While there are limited options below the level of Geometry, there are several pathways for students above the level of Algebra II.

Mathematics Recommended Course Sequence



MATHEMATICS									
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)				
MA1102	02052	ALGEBRA I A	FY	1	Pass Math 8 375 on Math 8 SOL				
Course Description: This is the first semester of a two-semester course which' is the first rigorous study of formal algebra and begins the college preparatory sequence. In the first semester, emphasis is placed on the real number system, deductive and inductive reasoning as applied to algebraic proofs, and precision of language. These are develope systematically with a proper balance between theory and practice essential for true understanding. The topics to be studied within the framework of the real number system include solving equations and inequalities, evaluating formulas, simple operations with polynomials and related problem solving. Graphing calculators and computer software will be used as a primary tool for investigations, to assist in problem solving and for verifying an algebraic solution. An SOL Algebra I end-of-course test will be given.									
MA1100	02053	ALGEBRA I A-2 2-yr. Sequence	FY	1	Math 8				
Course Description: This is the second part of a 2-year sequence to complete Algebra 1. Students with an IEP that expressly states the need will receive 2 credits upon completion of the 2-year sequence. Students without an IEP will receive 1 math credit at the completion of the 2-year sequence.									
		ALGEBRA I B-1	->.	_					
MA1101	02054	ALGEBRA I B-1 2-yr. Sequence	FY	1	Algebra 1A				
Course Des	cription: Thates the need		ence to comp	lete Algebra 1	. Students with an IEP that e. Students without an IEP will				
Course Des	cription: Thates the need	2-yr. Sequence is is the third part of a 2-year sequ I will receive 2 credits upon comple	ence to comp	lete Algebra 1	. Students with an IEP that e. Students without an IEP will				
expressly st	cription: Thates the need	2-yr. Sequence is is the third part of a 2-year sequ I will receive 2 credits upon comple	ence to comp	lete Algebra 1	. Students with an IEP that e. Students without an IEP will				
Course Deserversely streetive 1 ma	cription: The ates the need at the credit at	2-yr. Sequence is is the third part of a 2-year sequence of the 2-year sequence completion of the 2-year sequence of 2-year sequence of 2-year sequence of 2-year sequence of 2-year s	ence to comp tion of the 2-y ice. A SOL Al	lete Algebra 1 /ear sequence gebra I end-of	. Students with an IEP that e. Students without an IEP will focurse test will be given. Algebra 1 Students with an IEP that				
Course Deserversely streetive 1 ma	cription: The ates the need at the credit at	2-yr. Sequence is is the third part of a 2-year sequence of the completion of the 2-year sequence of the 2-year sequence of the 2-yr. Sequence is is the first part of a 2-year sequence of the completion of the 2-year sequence of the 2-y	ence to comp tion of the 2-y ice. A SOL Al	lete Algebra 1 /ear sequence gebra I end-of	. Students with an IEP that e. Students without an IEP will focurse test will be given. Algebra 1 Students with an IEP that				
Course Deserversely streed of the course Deserversely street of the course	ozorption: The ates the need ath credit at the ozorp ozorp ozorption: The ates the need ath credit at the ozorp ozorp ozorption: The ates the need ozorp ozorption: The ates the need ozorp ozorp ozorption: The ates the need ozorp ozorption: The ates the need ozorp ozorp ozorption: The ates the need ozorp ozorp ozorp ozorption: The ates the need ozorp oz	2-yr. Sequence is is the third part of a 2-year sequence will will receive 2 credits upon complete the completion of the 2-year sequence GEOMETRY A-1 2-yr. Sequence is is the first part of a 2-year sequence will receive 2 credits upon complete the completion of the 2-year sequence the completion of the 2-year sequence.	ence to complition of the 2-year. FY ence to complition of the 2-year. FY ence to complition of the 2-year.	lete Algebra 1 /ear sequence gebra I end-of 1 ete Geometry /ear sequence	. Students with an IEP that e. Students without an IEP will f-course test will be given. Algebra 1 Students with an IEP that e. Students without an IEP will Geometry A-1				
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Course Description: This is, the first semester of a two-semester course addressing the formal study of plane and spatial geometry. The student analyzes, makes and tests conjectures, and draws conclusions based on definitions, postulates, and theorems. Students investigate and interpret two- and three- dimensional objects; represent problem situations using geometric models; classify and apply relationships for congruent figures using properties of transformations; deduce properties of figures using transformations and coordinates. Students develop an appreciation for an axiomatic system as they compare and contrast intuitive, inductive, and deductive reasoning. Students must bring a compass, protractor, and ruler to this course.

	MATHEMATICS									
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)					
MA1400	99001	ALGEBRA, FUNCTIONS AND DATA ANALYSIS	FY	1	Geometry					
One and Germathematical nvestigate fund analysis regression e	ometry. Alge al ideas withi unctions and of data. Stu quations, an	nis course is designed for students where, Functions, and Data Analysis per the context of solving real-world per their behaviors, systems of inequal udents will use graphing calculators do to predict the placement of data per symbols to represent and communications.	provides an op problems. Wit lities, probabil and other tec points. Studer	oportunity for hin these real ity, experimen hnology tools ats will be imn	students to develop and strength l-world problems, students will ntal design, and implementation to analyze data, to determine nersed in the language of					
MA1300	02106	ALGEBRA II	FY	1	Geometry and Algebra 1 450 on Algebra SOL or AFDA					
computer so	ftware will be	d determinates, and quadratic functer used as primary tools for investigated the function of the state of the	ations, to assis	st in problem :	solving and for verifying algebrai					
MA2300	02056	HONORS ALGEBRA II	FY	1	Geometry and teacher recommendation					
number theo quadratic tra	ry, linear and nsformations nd compute	pics are explored in depth by applyid quadratic relations and functions, s, and linear programming. A strongress software will be used as primary to ons.	linear inequal algebra and	ities, matrices geometry bac	s and their applications, linear an ekground is required. Graphing					
verifying alge										
	02057	ALGEBRA III	FY	1	Algebra II					
MA1900 Course Desc	cription: This e course add	ALGEBRA III s offering builds on the study of Alge ls extensive study in trigonometry a will best prepare a student for enro	ebra II and exp nd some intro	pands on the ductory study	understanding of various function of math analysis. Successful					
families. The completion of MA1500	cription: This e course add f this course	s offering builds on the study of Alge s extensive study in trigonometry a	ebra II and exp nd some intro ollment in a Pr	pands on the ductory study e-Calculus / N	understanding of various functio of math analysis. Successful Math Analysis course. Algebra II or Honors Algebra II					

ANALYSIS WITH TRIGONOMETRY

FY

1

MA2700

02104

Algebra II or Honors Algebra II

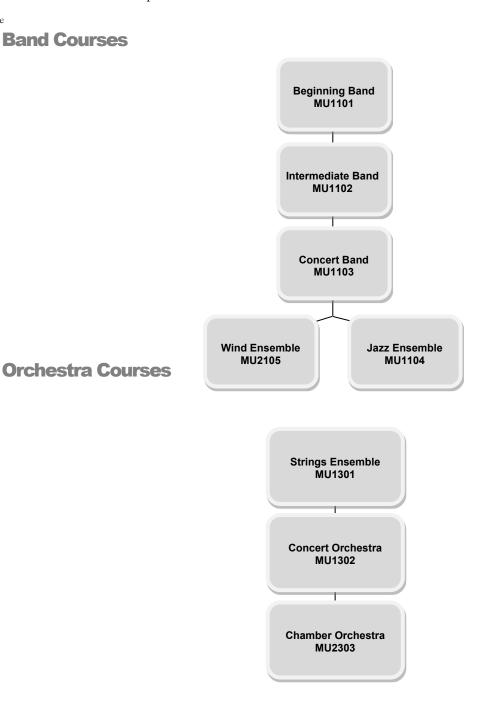
MATHEMATICS									
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)				
Course Description: Analysis is designed as a pre-calculus course for the student whose future goals or interests may require the study of calculus. Students will use graphing calculators to extend the study of functions and related topics. The study will include polynomial, rational, exponential, and logarithmic functions. Methods of proof using logic, deductive reasoning, and mathematical induction are used. A graphing calculator is required for this course.									
MA4702	02124	ADVANCED PLACEMENT CALCULUS	FY	1	Analysis with Trigonometry (MA2700)				
who have co	mpleted four definite inte	nis offering continues the two-seme units of college preparatory mathe egral, e.g., area and volume; techni Optional topics include hyperbolic f	matics. Mathe	ematical topication; transce	s included are applications of the				
MA4703	02125	ADVANCED PLACEMENT CALCULUS BC	FY	1	Advanced Placement Calculus B				
MA4600	02203	ADVANCED PLACEMENT STATISTICS	FY	1	Honors Algebra II A or Algebra II B				
understandir luctuations,	ng of statistic associated w terpret these	ne extensive use of statistics in our s. The students will recognize and with problematic mathematical mode happenings. The materials and con	understand the	e kinds of reg rence in the re	ularity that occurs amid random eal world, and use the mathematic				
MA4801	10157	ADVANCED PLACEMENT COMPUTER SCIENCE	FY	1	Algebra II B or Honors Algebra II B				
Course Description: The major emphasis in this course is on programming methodology, algorithms, and data structures. Applications of computing provide the context in which these subjects are treated. A particular programming language constitutes the vehicle for implementing computer-based solutions to particular problems. Treatments of computer systems and the social implications of computing are integrated into the course and not isolated as separate units. This course is designed to prepare students for entry into programs in Computer Science and Information Science.									
LA1505	22999	SAT PREPARATION	FY	1	10 th , 11 th or 12 th grade status				
alternating e	very 4 ½ wee	nis is a one semester course which eks. The course is designed to devid math items on the Scholastic Apti	elop and prac						

Music

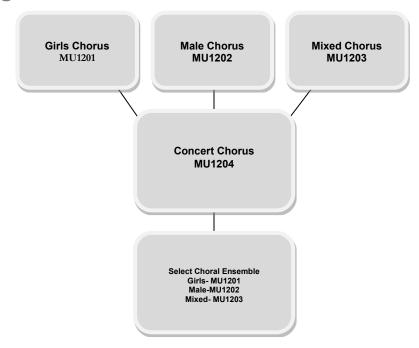
The goal of music education in NPS is to ensure that all interested students have the opportunity for meaningful musical experiences incorporating knowledge and skill for successful learning. The program is sequentially structured in order to provide high quality music instruction and cultural enrichment focused on student achievement, performance skills, life-long learning connections and personal accomplishment. Opportunities are available for students who have interest in nonperforming courses as well as those who plan to make music education a career.

Music Course Sequence

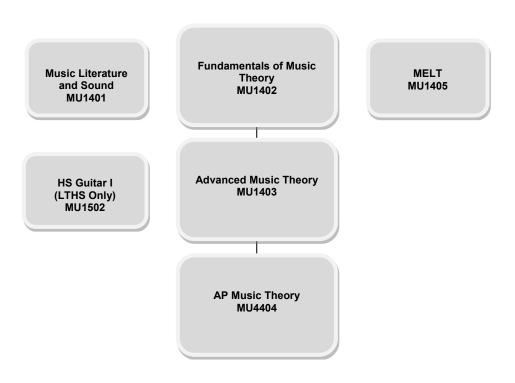
Band Courses



Chorus Courses



Non-Performance Courses



	MUSIC							
NPS Code	SCED	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)			
MU1201	05110	GIRLS CHORUS	FY	1	None			

Course Description: This is a preparatory class for concert chorus or select ensemble. No previous choral experience is necessary. Emphasis is placed on learning to use the voice correctly and strengthening part singing. Instruction includes development of basic music skills and choral techniques. Performances are scheduled during each semester. These performances include classroom performances, school assemblies, annual winter and spring concerts, and any other concert dates which the group accepts. On the recommendation of the director, students may be eligible for District Chorus audition. Special uniforms may be necessary and performance requirements may include in-school and out-of-school hours. This course meets the requirements for Fine Arts credit. This course may be repeated for credit.

MU1202	05110	MALE CHORUS	FY	1	None	
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Course Description: This is a preparatory class for concert chorus or select ensemble. No previous choral experience is necessary. Emphasis is placed on learning to use the voice correctly and strengthening part-singing. Instruction includes development of basic music skills and choral-techniques. Performances are scheduled during each semester. These performances include classroom performance, school assemblies, annual winter and spring concerts, and any other concert dates which the group accepts. On recommendation of the instructor, students may be eligible to audition for District Chorus. Special uniforms may be necessary and performance requirements may include in-school and out-of-school hours. This course meets the requirements for Fine Arts credit. This course may be repeated for credit.

MU1203	05110	MIXED CHORUS	FY	1	None
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Course Description: This class is offered without audition. No previous choral experience is required. Its purpose is to prepare the students for more advanced singing experience. Classroom instruction includes basic elements of music, choral techniques, choral disciplines and group deportment. This chorus participates in school performances as designated by the teacher. Performances are scheduled during each semester. These performances include classroom performance, school assemblies, annual winter and spring concerts, and any other concert dates which the group accepts. Members may be eligible to audition for District Chorus. Special uniforms may be necessary and performance requirements may include inschool and out-of-school hours. This course meets the requirements for Fine Arts credit. This course may be repeated for credit.

MU1204 05110 CONCERT CHORUS	FY	1	Approval of instructor
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Course Description: This is an advanced choral performing group. It is an advanced training level for all students enrolled Membership is by audition or by choral teacher recommendation. Performances are scheduled during each semester. These performances include classroom performance, school assemblies, annual winter and spring concerts, and any other concert dates which the group accepts. Attendance outside of school hours is required. Optional opportunities available through audition are: District Chorus, All-Virginia Chorus for selected eligible juniors and seniors who have participated in the District event, and Honors Choir for eligible seniors. Special uniforms may be necessary. This course meets the requirements for Fine Arts credit. This course may be repeated for credit.

GIRLS MU2205 MALE MU2206	05111	SELECT CHORAL ENSEMBLE	FY	1	Audition and/or approval of instructor
MIXED MU2207					

MUSIC									
NPS Code	SCED	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)				
Course Description: Membership in these small groups, which are limited by vocal balance and by established numbers, is by audition and approval of the instructor. This group assumes most of the responsibility for serving civic and community organizations. Required performances will be numerous and will contain a high degree of seasonal demands. Special uniforms may be necessary and attendance outside of school hours is required. Optional opportunities available through audition are: District Chorus, All-Virginia Chorus for selected eligible juniors and seniors who have participated in the District event, and Honors Choir for eligible seniors. This course meets the requirements for Fine Arts credit. This course may be repeated for credit.									
MU1101	05101	BEGINNING BAND	FY	1	None				
percussion ins Performances assemblies, a	struments. Ins are schedule innual winter a	class provides an opportunity for struction includes basic elements d during each semester. These p nd spring concerts, and any othe ts credit. This course may be rep	of music and erformances or concert dat	I basic band ir include class es which the g	nstrument techniques.				
MU1102	05101	INTERMEDIATE BAND	FY	1	Approval of instructor				
understanding groups. It also instruments n Performances assemblies, a	g of music fund o provides and ot considered s are schedule innual winter a ssary and perfo	class provides an opportunity for stamentals which will prepare ther opportunity for students who were as basic but needed for completed during each semester. These pand spring concerts, and any othe ormance requirements may include	m for participa e started on be instrumenta erformances er concert dat	ation in the sc pasic instrume ition in all instr include classi es which the ç	hool's advanced performing nts to select one of many other rumental music organizations. room performances, school group accepts. Special uniforms				
MU1103	05101	CONCERT BAND	FY	1	Approval of instructor				
Course Description: The membership of this organization consists of the advanced performers in the school. Students in this group have demonstrated knowledge of the basic skills necessary for performance and have been recommended for membership by their instrumental music teacher. The organization will provide an opportunity for students to participate in the musical activities of their school, city, and throughout the Tidewater area sponsored by local and state organizations. The basic fundamentals of marching techniques will be incorporated in the instructional program of the band class. Students will be provided an opportunity to participate in local and school sponsored parades. Attendance outside of school hours is required. Additional performances are scheduled during each semester. These performances include classroom performances, school assemblies, annual winter and spring concerts, and any other concert dates which the group accepts. This course meets the requirements for Fine Arts credit.									
MU2105	05101	WIND ENSEMBLE	FY	1	Audition and approval of instructor				

MUSIC Number Credits **NPS NPS** SCED of Per Prerequisite(s) **Course Title** Code Semesters Year Course Description: This course is an advanced performance class for brass and woodwind instrumentalists who desire additional instruction in concert performance skills. Emphasis include study of scales and technique as well as solo ensemble literature. Students in this class will be expected to participate in all after school Concert Band rehearsals and performances. Performances are scheduled during each semester. These performances include classroom performances, school assemblies, annual winter and spring concerts, and other concert dates that the group accepts. Performance requirements may include in-school and out-of-school hours. This course meets the requirements for Fine Arts credit. This course may be repeated for credit. Audition and FΥ MU1104 05106 JAZZ ENSEMBLE approval of instructor Course Description: This course is an advanced performance class for band instrumentalists who desire additional instruction in jazz performance skills. Emphasis will include study of scales and technique as well as jazz ensemble literature. Students in this class will be expected to participate in all after school rehearsals and performances. Performances are scheduled during each semester. These performances include classroom performances, school assemblies, annual winter and spring concerts, and any other concert dates which the group accepts. Performance requirements may include in-school and out-of-school hours. This course meets the requirements for Fine Arts credit. MU1301 05104 STRING ENSEMBLE FΥ Middle School Orchestra Course Description: This class provides an opportunity for students who have had minimal orchestra instruction in middle school. Instruction includes elements of music and intermediate orchestra techniques. Performances are scheduled during each semester. These performances include classroom performances, school assemblies, annual winter and spring concerts, and any other concert dates which the group accepts. Special uniforms may be necessary and performance requirements may include in-school and out-of-school hours. This course meets the requirements for Fine Arts credit. This course may be repeated for credit. MU1302 05104 CONCERT ORCHESTRA FΥ 1 Approval of instructor Course Description: This orchestra is for the more advanced string players. In schools with more than one level of orchestra, enrollment may be limited to sophomores, juniors, and seniors. A wide range of orchestral music literature is studied and performed. Required activities may include participation in school concerts, District Festival and Regional Orchestra Auditions. Advanced members are encouraged to audition for and participate in the Strolling Strings. Home practice and attendance outside of school hours/concerts are required. Special uniforms may be necessary. This course meets the requirements for Fine Arts credit. This course may be repeated for credit. MU2303 05104 CHAMBER ORCHESTRA FΥ 1 Approval of instructor Course Description: Chamber Orchestra is designed for the self-motivated string player. The teacher selectively controls membership, which is limited by instrumental balance. This is an advanced performing ensemble and students must be able to exhibit advanced technical proficiency on their instruments. These students will already exhibit motivation, self-discipline, and responsibility to the group. The Chamber Orchestra will assume many responsibilities for serving community and civic organizations. Required activities may include District Festival and Senior Regional Orchestra. Students are encouraged to study privately and to audition for and participate in the Strolling Strings. Home practice and attendance outside of school hours/concerts are required. A spring trip/competition may be scheduled. This course meets the requirements for Fine Arts credit. This course may be repeated for credit. **FUNDAMENTALS OF** MU1402 05116 FY 1 None MUSIC THEORY

MUSIC									
NPS Code	SCED	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)				
Course Description: This course provides study of: the structure of music (notation, scales, intervals, chords, part-writing, form); rhythm and meter, basic sight-singing and ear training skills; introductory harmony and composition; exposure to keyboard and conducting. Students in all grades are eligible. This course is of particular value to prospective music majors and is useful to all music performers (instrumental and vocal). This course meets the requirements for Fine Arts credit.									
MU1401	05149	MUSIC LITERATURE AND SOUND	FY	1	None				
include: lister experimentin acquainted w	ning to different g with making r vith how elemer	kinds of music; comparing styles nusic through the use of various	s and national equipment, treate compos	alities; studying echnology, an sitions; explori	ng students' special interest areas				
MU1403	05113	ADVANCED MUSIC THEORY	FY	1	Successful completion of Fundamentals of Music Theory				
Fundamenta	ls of Music The	class is for the second year musi ory. More emphasis will be place ors. This course meets the requir	ed on hármon	y and compos	sition. It will be especially valuable				
MU4404	05114	ADVANCED PLACEMENT MUSIC	FY	1	Successful completion of Fundamentals of Music Theory				
the talented to pass the A ultimate goal understandin acquaintance	music student a dvanced Place is to develop u g of musical stre with a variety		nt with a musiby the Collegond fully to multiple to multiple to multiple to multiple to the devocabulary appropriately.	ic background e Entrance Ex Jusic. The cou velopment of r	rse stresses aural and visual rigorous listening techniques;				
MU1502	05108	BEGINNING GUITAR	FY	1	NONE				
Course Description: The standards for High School Guitar I enable students to begin receiving instruction on acoustic guitar at any high school grade level. Students demonstrate proper care of the instrument and become familiar with its history and technology, including different types of guitars. They demonstrate basic positions, right-hand and left-hand techniques, and tone production. Students read and perform music of varying styles and levels of difficulty. They describe, respond to, interpret, and evaluate works of music and create basic variations of simple melodies. They investigate career options in music. Students may use standard method books in class settings. This course meets the requirements for Fine Arts credit. This course may be repeated for credit.									
MU1405	05149	MUSIC EDUCATION LEADERSHIP TRAINING (MELT)	FY	1	Successful completion of at least 2 years in most advanced level band, orchestra, or chorus; current enrollment in advanced music class; recommendation of teacher, senior status				

NPS Code SCED NPS Course Title NPS Course Title Number of Semesters Per Year Prerequisite(s)

Course Description: Music Education Leadership Training (MELT) is an elective course designed specifically for students who have successfully completed at least two years of the most advanced level of band, orchestra, or chorus and completed the MELT preparation program; have director's recommendation; and wish to pursue leadership training in the Music Education and Peer Facilitator program. The MELT program provides leadership opportunities for eligible twelfth grade music students to assist with instruction in elementary, middle, and high schools. Music Education Leadership Training students receive training and supervision from their music director and the cooperating music teacher. The MELT program is designed to further the development of students' musical training by providing opportunities for leadership and communication skills development. The program enables students to grow in confidence and self-concept while providing younger music students individualized assistance. Upon completion of requirements established for the program, students will assist with instruction in an assigned school. Participants will receive a grade as outlined for the regular grading period. Full elective credit for graduation may be earned. This course meets the requirements for Fine Arts credit.

Science

The *Science Standards of Learning* for Virginia Public Schools identify academic content for essential components of the science curriculum which progress in complexity as they are studied at various grade levels. Standards are identified for a core set of high school courses — Earth Science, Biology, Chemistry, and Physics. Additionally, the high school science curriculum includes five key components of the science standards – 1) Goals; 2) K-12 Safety; 3) Instructional Technology; 4) Investigate and Understand; and 5) Application – which are critical to student success in achieving science literacy.

Science Course Sequence

	Option 1											
Year 1					Env	ironn	nental Scien	ice				
Year 2						Eartl	n Science					
Year 3						В	iology					
Year 4	Ch	emistry			tronomy teorology		Fore	nsics		(Oceano	ography
					(Optio	on 2					
Year 1						Eartl	n Science					
Year 2						В	iology					
Year 3		Cł	nemis	stry			ironmental Science		ronomy eorology	For	rensics	Oceanography
Year 4	Physics	AP Environme Science		AP Biology	AP Chemistry				Chemi	stry		
					C	Optio	on 3					
Year 1	_	Honors Honors Environmental Astronomy Earth Science Biology Science Meteorology Forensics Oceanography										
Year 2						Ch	emistry					

	Option 1							
Year 3	Physics	AP Environmental Science	AP Biology	AP Chemistry				
Year 4		AP	Physics					

SCIENCE							
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)		
SC1100	03001	EARTH SCIENCE	FY	1	None		

Course Description: Earth Science involves the study of the earth and those areas directly associated with it. This course of study deals with materials of our natural environment, and the processes that bring about changes. Geology, map reading, surface processes, plate tectonics, and environmental resources are covered extensively. Process skills and critical thinking will be emphasized throughout the study of the content. Laboratory investigations, problem solving activities, classroom discussions, demonstrations, lecture and research (during the instructional period and at home) are used to explore major Earth Science concepts. This course meets the graduation requirement for science. An SOL Earth Science end-of course test will be given.

SC2100	03001 HONORS EARTH SCIENCE	FY	1	Student must have a grade of "B" or better in 8 th grade science and teacher and/or administrator recommendation if below "B"
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Course Description: Honors Earth Science is a rigorous curriculum designed to allow highly motivated students to conduct an in-depth study of our natural environment, and the processes that bring about changes. In Honors Earth Science, students are expected to work independently on a variety of assignments and accept greater responsibility for their learning. In order to develop a greater understanding of the processes that shape our everyday lives, the curriculum will integrate inquiry investigations and a variety of technologies with the study of the earth as a system. The impacts of human activities on the earth systems will also be a focus. The results of student investigations are communicated through student presentations and formal laboratory reports. This course meets the graduation requirement for science. A Standard of Learning (SOL) Earth Science end-of course test will be given.

Course Description: Astronomy is the study of the origin and history of the Universe, the formation of the Earth and the solar system, stellar evolution, solar and lunar cycles, constellations and their mythological stories, planetary comparisons, the tools astronomers use, and current topics such as black holes, the expansion of the universe and the search for water on other planets. Meteorology topics introduced include atmospheric properties and processes that control temperature, wind, precipitation, and storm systems, weather forecasting and warning systems, air pollution, and climate change. This course also includes current topics such as global warming, ozone depletion, El Nino/La Nina, and the impacts of climate change on human society.

	SCIENCE						
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)		
SC1200	03051	GENERAL BIOLOGY	FY	1	None		
ncluded. activities,	life, system These topic demonstrati	s in plants and animals, reproduces will be explored through lectu	iction and dev re, laboratory i with an emph	relopment, grant nvestigations asis on the d	or topics as the cellular and chemenetics, evolution, and ecology are, critical thinking and problem solvevelopment of scientific process and of course test will be given.		
SC2200	03051	HONORS BIOLOGY	FY	1	Student must have a grade of "B" of better in 8 th grade science or have teacher and/or administrator recommendation if below "B"		
evelopm aboratory vith an er	ient, geneti investigation phasis on	cs, evolution, and ecology are	included. Thes solving activiti ocess skills. S	se topics will es, demonsti tudent initiat	rations, and classroom discussior ed investigations are strongly		
	03056	ADVANCED PLACEMENT BIOLOGY Advanced Placement Biology is a	FY college-level c	1 ourse design	One unit of Chemistry and one un of Biology		
Course De alented st Entrance E blacement acts into d	escription: cudent and to Examination in an advant	Advanced Placement Biology is a prepare him/her to pass the Adva Board in May. Depending upon th	college-level canced Placeme e test score, th be placed on tentific composit	ourse designont examinatione student manhe development	of Biology ed to challenge the academically in administered by the College by be granted college credit and/or ent of the student's ability to organize		
Course Do alented st Entrance E blacement acts into c ndepende	escription: cudent and to Examination in an advant	Advanced Placement Biology is a prepare him/her to pass the Adva Board in May. Depending upon the ded biology course. Emphasis will do express these concepts in scients.	college-level canced Placeme e test score, th be placed on tentific composit	ourse designont examinatione student manhe development	of Biology ed to challenge the academically in administered by the College by be granted college credit and/or ent of the student's ability to organization for the AP Biology exam.		
alented st Entrance E Dlacement acts into c ndepende SC2202 Course De Anatomy a nolecules	escription: udent and to Examination in an advant concepts and ent student re 03053 escription: and physiolog, cells, body	BIOLOGY Advanced Placement Biology is a prepare him/her to pass the Adva Board in May. Depending upon the five discourse. Emphasis will do to express these concepts in scients are a requirement for the concept is a requirement for the concept in scients.	college-level canced Placeme e test score, the beplaced on tentific compositionrse. FY FY rse designed for pased study of the pased study of th	ourse designent examination e student manhe development ion, in preparation of the student manhe development in those interesting the human bout organisms of	of Biology ed to challenge the academically n administered by the College be granted college credit and/or ent of the student's ability to organization for the AP Biology exam. One unit of Biology and one unit of Earth Science sted in science-related fields. dy. The study will range from compliments course work. This		
Course Do alented st Entrance E placement acts into c ndepende Course Do Anatomy a nolecules	escription: udent and to Examination in an advant concepts and ent student re 03053 escription: and physiolog, cells, body	Advanced Placement Biology is a prepare him/her to pass the Adva Board in May. Depending upon the local biology course. Emphasis will do to express these concepts in science are a requirement for the concepts in a requirement for the concepts i	college-level canced Placeme e test score, the beplaced on tentific compositionrse. FY FY rse designed for pased study of the pased study of th	ourse designent examination e student manhe development ion, in preparation of the student manhe development in those interesting the human bout organisms of	of Biology ed to challenge the academically in administered by the College by be granted college credit and/or ent of the student's ability to organization for the AP Biology exam. One unit of Biology and one unit of Earth Science sted in science-related fields. dy. The study will range from compliments course work. This		

FY

Completion of or enrollment in Algebra II required

SC1400

03151

PHYSICS

SCIENCE								
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)			
energy and investigation	Course Description: Physics will introduce students to the fundamental laws of their physical environment. Mechanics, energy and matter, electricity and magnetism, heat, light, sound, and nuclear physics will be explored through laboratory investigations, various technologies, problem-solving activities and independent research. Critical thinking and process skills will be emphasized. This course meets the graduation requirement for science.							
SC4451	03155	ADVANCED PLACEMENT PHYSICS 1: Algebra-Based	FY	1	Geometry and completion of or enrollment in Algebra II			
physics. T and power:	Course Description: Advanced Placement Physics 1 is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It also introduces electric circuits. The curriculum is devised by College Board to prepare students to take the Advanced Placement Examination in May each year.							
SC4452	03155	ADVANCED PLACEMENT PHYSICS 2: Algebra-Based	FY	1	AP Physics 1 and Math Analysis			
based phys	Course Description: Advanced Placement Physics 2 is equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. The curriculum is devised by College Board to prepare students to take the Advanced Placement Examination in May each year.							
SC4450	03156	ADVANCED PLACEMENT PHYSICS C: Mechanics (Calculus-Based)	FY	1	AP Physics 1 and Calculus			
devised by covers kine	Course Description: Advanced Placement Physics C is a second level physics course which follows the curriculum devised by College Board to prepare students to take the Advanced Placement Examination in May each year. This course covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motic and rotation; and oscillations and gravitation.							
SC4450	03156	ADVANCED PLACEMENT PHYSICS C: Electricity and Magnetism (Calculus-Based)	FY	1	AP Physics C: Mechanics and Calculus			
curriculum This course	Course Description: Advanced Placement Physics C is a full year second level physics course which follows the curriculum devised by College Board to prepare students to take the Advanced Placement Examination in May each year. This course covers electrostatics; conductors; capacitors and dielectrics; electric circuits; magnetic fields; and electromagnetism.							
SC1201	03999	FORENSICS SCIENCE	FY	1	Biology and Chemistry			
Course Description: The Forensic Science course is designed around the idea that in the real world all learning is interrelated and interdependent. This class blends all of the sciences with the core subject areas. Students will be asked to read, research, hypothesize, interview, compute and use deductive reasoning to propose crime solutions. With an ever increasing use of technology, the students will record data, draw conclusions, and formulate the best method for communicating results.								
SC1101	03003	ENVIRONMENTAL SCIENCE	FY	1	None			

SCIENCE Number Credits **NPS SCED NPS** of Per Prerequisite(s) Code Code **Course Title** Semesters Year Course Description: Environmental Science allows students to explore the environment and consider environmental issues. It includes the mathematical, ethical, and economic concepts needed to develop a basic understanding of current environmental problems facing today's society. Students will use current technology and problem-solving techniques to gather and interpret real data. Seven cohesive units include epistemology, systems thinking, earth's systems, population dynamics, environmental quality, and social, economic, and political factors. Activities include laboratory and field research and the construction and manipulation of models. With additional technical training in the environmental field, students will be qualified to take advantage of local employment opportunities. One unit of Earth Science, one unit ADVANCED PLACEMENT SC4150 03207 FY of Biology and one unit of 1 **ENVIRONMENTAL SCIENCE** Chemistry Course Description: The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Research is a major emphasis of this course of study. Due to the interdisciplinary nature of this course, it embraces a wide variety of topics from different areas of study. Yet there are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science. The curriculum devised by College Board prepares students to take the Advanced Placement Examination in May each year. Completion of or enrollment in FY SC1300 03101 CHEMISTRY Algebra II Course Description: This course is designed for students to gain a better understanding of the world of matter and energy. Through extensive research and individual effort, students will study: measurement, metrics, atomic structure, the periodic table, bonding, states of matter, solutions, equilibrium, kinetics, gasses, thermodynamics, oxidation-reduction, organic, and acid-base chemistry. Honor students are expected to perform intricate lab procedures with accuracy. A strong math background is recommended for chemistry. This course meets the graduation requirement for science. A Standard of Learning (SOL) Chemistry end-of course test will be given. Completion of or enrollment in SC2300 03102 HONORS CHEMISTRY FY Algebra II Course Description: This course is designed for advanced students to gain a better understanding of the world of matter and energy. Through extensive research and individual effort, students will study: measurement, metrics, atomic structure, the periodic table, bonding, states of matter, solutions, equilibrium, kinetics, gasses, thermodynamics, oxidation-reduction, organic, and acid-base chemistry. Honor students are expected to perform intricate lab procedures with accuracy. A strong math background is recommended for honors chemistry. A Standard of Learning (SOL) Chemistry end-of course test will be given. This course meets the graduation requirement for science. ADVANCED PLACEMENT One unit of Chemistry, one unit of SC4350 03106 FY CHEMISTRY Biology, and one unit of Algebra II

Course Description: Advanced Placement Chemistry is a second level chemistry course which follows the curriculum devised by the College Board to prepare students to take the Advanced Placement Examination in May of each year. Laboratory investigations, computer applications, problem-solving activities, and independent research assignments to be completed outside of the instructional setting will be used to develop scientific process skills and concepts.

Career and Technical Education

Career and Technical Education (CTE) programs provide students with an array of rigorous and relevant education options and opportunities that support their college and career readiness journeys. All of our CTE programs, which are aligned with the National Career Clusters® Model, integrate academic and technical content while providing real-world experiences. Each program is based on national and statewide research that allows us to prepare our students for high-skill, high-demand, and high-wage postsecondary endeavors. Graduation requirements related to this include:

- Economics and Personal Finance (Required of all students)
- A Virtual Experience (Required of all students, embedded in Economics and Personal Finance course)
- One Industry Certification (Required for Standard Diploma)
- Student choice for completion of a CTE course sequence

Business & Information Technology and Marketing

BUSINESS & INFORMATION TECHNOLOGY AND MARKETING						
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)	
FI1204	22210	ECONOMICS AND PERSONAL FINANCE	FY	1	None	
interconnected with the global economy. Additionally, students learn how to navigate the financial decisions they must face and to make informed decisions relating to career exploration, budgeting, banking, credit, insurance, spending, financing postsecondary education, taxes, saving and investing, buying/leasing a vehicle, and living independently. They also learn the importance of investing in themselves in order to gain the knowledge and skills valued in the marketplace. Development of financial literacy skills and an understanding of economic principles will provide the basis for responsible citizenship, more effective participation in the workforce, and career success. The course incorporates all economics and financial literacy objectives included in the Code of Virginia §22.1-200-03B. Recommended for grades 10-12. This course is a graduation requirement. A Virtual Experience is offered in this course. The WISE Financial Literacy Certification test is available.						
FI1205	12104	ACCOUNTING	FY	1	None	
Course Description: Students study the basic principles, concepts, and practices of the accounting cycle for a service business and a merchandising business. Topics covered include analyzing transactions, journalizing and posting entries, preparing payroll records and financial statements, and managing cash systems. Ethics and professional conduct are emphasized. Students learn fundamental accounting procedures using both manual and electronic systems. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. Recommended for grades 10-12.						
FI1206	12104	ADVANCED ACCOUNTING	FY	1	Accounting	

BUSINESS & INFORMATION TECHNOLOGY AND MARKETING Number Credits **NPS** SCED **NPS** of Per Prerequisite(s) Code Code **Course Title** Semesters Year Course Description: Students gain knowledge of advanced accounting principles, procedures, and techniques used to solve business problems and to make financial decisions. Students use accounting and spread-sheet software to analyze, synthesize, evaluate, and interpret business financial data. Students work in a technology-integrated environment using authentic workplace industry scenarios that reflect current industry trends and standards. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. Recommended for grades 11-12. Certifications are offered FΥ **BA1207** 12054 **BUSINESS LAW** None Course Description: 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. Recommended for grades 9-12. COMPUTER INFORMATION IT1212 10005 None **SYSTEMS** Course Description: 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. Recommended for grades 9-12. Certifications are offered. ADVANCED COMPUTER IT1213 10005 FY 1 Computer Information Systems INFORMATION SYSTEMS Course Description: 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. Recommended for grades 10-12. Certifications are offered. DESIGN, MULTIMEDIA AND IT1202 10203 FY None WEB TECHNOLOGY Course Description: Students develop proficiency in creating desktop publications, multimedia presentations/projects, and Web sites using industry standard application software. Students incorporate principles of layout and design in completing publications and projects. Students design portfolios that may include business cards, newsletters, mini-pages, Web pages, multimedia presentations/projects, calendars, and graphics. The cooperative education model is available for this course. Recommended for grades 10-12. MOS certifications are offered. ADVANCED DESIGN, Design, Multimedia, and Web IT1203 10203 MULTIMEDIA AND WEB FY Technologies **TECHNOLOGY** Course Description: Students develop advanced skills in creating interactive media, web sites, and publications for print and electronic distribution. Students work with sophisticated hardware and software, applying skills learned to real-world projects. The cooperative education model is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision throughout the school year. Recommended for grades 11-12. Certifications are offered. **BA1208** 12052 **BUSINESS MANAGEMENT** FY None

BUSINESS & INFORMATION TECHNOLOGY AND MARKETING Number Credits **NPS** SCED **NPS** of Per Prerequisite(s) Code Code **Course Title** Semesters Year Course Description: Students study basic management concepts and leadership styles as they explore business ownership, planning, operations, marketing, finance, economics, communications, the global marketplace, and human relations. Quality concepts, project management, problem solving, and ethical decision making are an integral part of the course. Offered in Evening School Only. COMPUTER INFORMATION IT5801 10005 SYSTEMS (DUAL FΥ Approval Required **ENROLLMENT**) Course Description: 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 who successfully complete this sequence (IT5801) will earn college credit through TCC. Recommended for grades 11-12. Certifications are offered. ADVANCED COMPUTER CIS (Dual Enrollment) Approval IT5802 10005 INFORMATION SYSTEMS FY Required (DUAL ENROLLMENT) Course Description: 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. Upon completion of this sequence (IT15802) students will be awarded college credit through TCC. Recommended for grades 11-12. Certifications are offered. SPORTS, ENTERTAINMENT, HT1607 12163 AND RECREATION FΥ None MARKETING Course Description: This introductory course helps students develop a thorough understanding of fundamental marketing concepts and theories as they relate to the sports, entertainment, and recreation industries. Students will investigate the components of branding, sponsorships and endorsements, as well as promotion plans needed for sports, entertainment and recreation events. The course also supports career development skills and explores career options. Work-based learning may be taken in sequence with this course. Recommended for grades 10-12. Certifications are offered. **ENTREPRENEURSHIP** BA1200 12053 FY None **EDUCATION** Course Description: This course introduces students to the exciting world of creating, owning, and launching a business. Students will learn concepts and techniques for planning an innovative business and living the entrepreneurial lifestyle. Work-based learning may be taken in sequence with this course. Recommended for grades 9-12. Certifications are offered MK1601 12164 **MARKETING** FY None 1 Course Description: Students examine activities in marketing/business important for success in employment and postsecondary 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 will include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues, and the impact of technology on the marketplace. This course reinforces mathematics, science, English, and history/social science SOL's Work-based learning may be taken in sequence with this course. Recommended for grades 11-12. MK1602 12152 ADVANCED MARKETING FY 1 Marketing

BUSINESS & INFORMATION TECHNOLOGY AND MARKETING Number Credits SCED **NPS NPS** of Per Prerequisite(s) Code Code **Course Title** Semesters Year Course Description: Students pursue in greater depth the development 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 will prepare for advancement in marketing careers and postsecondary education. Work-based learning may be taken in sequence with this course. Recommended for grade 12. The NRF Customer Service Certification is offered. MK1606 pending MARKETING MANAGEMENT FΥ None Course Description: This course is designed for high school seniors who plan to attend college with a concentration in marketing, business, or management and/or who have plans to manage or own a business. Students will be exposed to all aspects of marketing and management. These skills will translate to small and large businesses, nonprofit organizations, service industries, and government agencies. This course will prepare students for the CLEP examination to earn potential college credit at many accredited colleges and universities across the country. MK1603 12153 **FASHION MARKETING** FY None Course Description: In this specialized course, students gain basic knowledge of the apparel and accessories industry and skills necessary for successful employment in apparel businesses. Students develop general marketing skills necessary for successful employment in fashion marketing, general marketing skills applicable to the apparel and accessories industry, and specialized skills unique to fashion marketing. Personal selling, sales promotion, purchasing. physical distribution, market planning, and product/service technology as well as academic skills (mathematics, science, English, and history/social science) related to the content are part of this course. Computer/technology applications supporting this course are studied. Work-based learning may be taken in sequence with this course. Recommended for grades 10-12. ADVANCED FASHION 12513 MK1604 **Fashion Marketing** MARKETING Course Description: Students with a career interest in apparel and accessories marketing gain in-depth knowledge of the apparel and accessories industry and skills important for employment in apparel businesses and ownership. They develop advanced skills unique to fashion marketing and advanced general marketing skills applied to the apparel and accessories industry. Professional selling, sales promotion, buying, merchandising, marketing research, product/service technology, and supervision as well as academic skills (mathematics, science, English, and history/social science) related to the content are part of this course. Computer/technology applications supporting this course are studied. Work-based learning may be taken in sequence with this course. Recommended for grades 11-12. The NRF Customer Service Certification is offered. PRINCIPLES OF BUSINESS MK1608 12051 None & MARKETING Course Description: Students discover the roles of business and marketing in the free enterprise system and the global economy. Basic financial concepts of banking, insurance, credit, inheritance, taxation, and investments are investigated to provide a strong background as students prepare to make sound decisions as consumers, wage earners, and citizens. The real-world impact of technology, effective communication, and interpersonal skills is evident throughout the course. This course also supports career development skills and explores career options. Recommended for grades 9-10. MK1605 12162 **DIGITAL MARKETING** FY 1 None

BUSINESS & INFORMATION TECHNOLOGY AND MARKETING

NPS Code SCED Code NPS Course Title Number of Semesters Credits Per Year

Prerequisite(s)

Course Description: Students receive an introduction to marketing functions and the business plan and study Internet marketing's role in the global economy. Students gain knowledge of the tools and techniques used in Internet marketing and learn how to design a website. They explore ethical, legal and security aspects and prepare for a career in Internet marketing. Work-based learning may be taken in sequence with this course. Certifications are offered.

WB1225 WB1226 WB1229

22999

COOPERATIVE OFFICE EDUCATION (WORK-BASED LEARNING)

FY

1

Enrolled in a business course

Course Description: Cooperative Office Education (COE) is a method of instruction that combines career and technical classroom instruction with paid employment directly related to the classroom instruction. Both student instruction and employment are planned and supervised by the school and the employer so that each contributes to the student's career objectives and employability.

WB1625	
WB1626	
WB1627	
WB1628	

WB1629

22999

COOPERATIVE ON-THE-JOB TRAINING (WORK-BASED LEARNING)

FY

Enrolled in a Marketing Course

Course Description: Work based learning is offered in Marketing, Advanced Marketing, and Advanced Fashion Marketing. The student is given the opportunity to expand or reinforce what has been learned in the classroom through supervised, paid, on-the-job training in a local marketing business. A minimum of 180 hours per semester is required for credit.

Family & Consumer Sciences Education

	FAM	IILY AND CONSUMER	SCIENCI	ES EDUC	CATION
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
HT1401	16051	INTRODUCTION TO CULINARY ARTS	FY	1	None
career options sanitation, exp styles, investig	s and entreprolore culinary gate nutrition	Introduction to Culinary Arts curric eneurial opportunities within the for preparation foundations, practice and menu development, and exar- ice and mathematics knowledge and	od service indu basic culinary s nine the econor	stry. Student skills, explore mics of food.	s investigate food safety and diverse cuisines and service The curriculum places a
HT1402	16052	CULINARY ARTS I	FY	1	Introduction to Culinary Arts
ne purchasing reparation tec	and receivin chniques, stud places a stro	en and food safety, kitchen sanitation g of goods and study fundamental dents practice applying these technong emphasis on science and mated.	nutritional princ niques to the pr	ciples and gureparation and	idelines. As they explore food- d serving of basic food products
IT1403	16052	CULINARY ARTS II	FY	1	Culinary Arts I
comprehensive safety and san ood-preparation perform on-site	knowledge itation, apply on techniques and off-site emphasis on	Culinary Arts II curriculum provides of the food service industry as well nutritional principles to food prepas including garden manager and bacatered functions, and strengthen science and mathematics knowled	as to expand the ration and stora aking, refine the their business a	heir technica age, perform eir dining roor and math skil	I skills. Students practice kitcher a wide range of more advanced m serving skills, develop menus, lls. The curriculum continues to
IU1404	22202	NUTRITION AND WELLNESS	FY	1	None
of nutrition, usi	ng science a	ents enrolled in Nutrition and Welli nd technology in food managemen field of nutrition and wellness. Re	it, ensuring food	d safety, plan	ining menus and preparing food
HU1451	22201	RESOURCE MANAGEMENT	FY	1	None
participating in the areas of environment. Note: This co	n practical pr apparel, nut	course allows students to explore oblem solving focusing on relating trition and housing, planning for conferred to middle school students or 8th grade students.	g to others, ap careers and ma	plying financ king consum	cial literacy, managing resource her choices in a global

STEM (Technology Education)

ST1307 21005 ENGINEERING EXPLORATION FY 1 None Course Description: In Engineering Explorations, students examine technology and engineering fundamer o solving real-world problems. Students investigate engineering history, including major engineering achieve they examine the principle engineering process they examine the principle engineering process they examine the principle engineering process they examine the principle engineering projects. Students and their related careers. Students practice engineering traditionation in hands- on engineering projects. Students communicate project-related information through tear properties. Students communicate project-related information through tear prepares students by emphasizing integration of mathematics, science, and English concepts and skills into problems in a curriculum demanding rigorous study habits and other college-level skills. Students are encount or communication of technical information while applying the engineering design process to complete an engineering excemmended for grades 10-12. Certifications are offered. ST1309 21005 ENGINEERING ANALYSIS FY I Engineering Explication of technical information while applying the engineering design process to complete an engine Recommended for grades 10-12. Certifications are offered. ST1309 21005 ENGINEERING ANALYSIS FY I Engineering Explications are offered. ST1309 ENGINEERING ANALYSIS FY I Engineering Explications are offered. ST1309 ENGINEERING CONCEPTS FY I Engineering Explications are offered. ST1309 ENGINEERING CONCEPTS FY I Engineering Students will participa based, hands-on projects as they communicate information through team-based presentations, proposals, a eports. Recommended for grades 10-12. Certifications are offered. Pending ENGINEERING CONCEPTS FY I Engineering Students will participa based, hands-on projects as they communicate information through team-based presentations, proposals, a eports. Recommended for 11-12 grades. Certifications are offered. T1209 6670 FUNDAMENTALS I FY I None		TION	EDUCA	TECHNOLOGY		
Course Description: In Engineering Explorations, students examine technology and engineering fundamer os osiving real-world problems. Students investigate engineering history, including major engineering achieve hey examine the principle engineering specialty fields and their related careers. Students practice engineering duradmentals, using mathematical and scientific concepts, and they apply the engineering design process the participation in hands-on engineering projects. Students communicate project-related information through tearnicipation in hands-on engineering projects. Students communicate project-related information through tearnicipation in hands-on engineering projects. Students communicate project-related information through tearnicipation. 21002 ENGINEERING STUDIES FY 1 Engineering Explications. Proposals, and technical freports. Recommended for grades 9-12. 211038 21002 ENGINEERING STUDIES FY 1 Engineering Explications in a curriculum demanding rigorous study habits and other college-level skills. Students are encoured to the control of technical information while applying the engineering design process to complete an engine Recommended for grades 10-12. Certifications are offered. 21103 ENGINEERING ANALYSIS FY 1 Engineering Explications of technical information while applying the engineering design process to complete an engine Recommended for grades 10-12. Certifications are offered. 21103 ENGINEERING ANALYSIS FY 1 Engineering Explications and Engineering Analysis and Applications II is the second of a possible four-course sequellions students to apply the engineering design process to areas of the designed world, explore ethics in a tevorid, and examine systems in civil, mechanical, electrical, and chemical engineering. Students will participa assed, hands-on projects as they communicate information through team-based presentations, proposals, a eports. Recommended for grades 10-12. Certifications are offered. 21004 ENGINEERING CONCEPTS FY 1 Replications II Repaired for Students will pro	Prerequisite(s)	Per	of			
o solving real-world problems. Students investigate engineering history, including major engineering achieve examine the principle engineering specialty fields and their related careers. Students practice engineering undamentals, using mathematical and scientific concepts, and they apply the engineering design process the articipation in hands-on engineering projects. Students communicate project-related information through teresentations, proposals, and technical reports. Recommended for grades 9-12. ENGINEERING STUDIES FY 1 Engineering Exple Course Description: Designed for students who intend to pursue engineering studies in college, Engineering repares students by emphasizing integration of mathematics, science, and English concepts and skills into toolbems in a curriculum demanding rigorous study habits and other college-level skills. Students are encou ecome routinely inquisitive through brainstorming and prototyping. Students practice basic engineering skill ommunication of technical information while applying the engineering design process to complete an engine explexity of the engineering Analysis and Applications II is the second of a possible four-course sequal low students to apply the engineering design process to areas of the designed world, explore ethics in a terroric, and examine systems in civil, mechanical, electrical, and chemical engineering. Students will participe ased, hands-on projects as they communicate information through team-based presentations, proposals, a apports. Recommended for grades 10-12. Certifications are offered. ENGINEERING CONCEPTS FY 1 Engineering Students will participe ased, hands-on projects as they communicate information through team-based presentations, proposals, a apports. Recommended for problems. This course focuses on building an engineering team, working with evanaging projects, applying logic and problem-solving skills, delivering formal proposals and presentations, proposals and prosecutations of postsecondary educational opportunities in engineering.	ne	1	FY		21005	T1307
Course Description: Designed for students who intend to pursue engineering studies in college, Engineeri repares students by emphasizing integration of mathematics, science, and English concepts and skills into roblems in a curriculum demanding rigorous study habits and other college-level skills. Students are encountered information while applying the engineering design process to complete an engineerom routinely inquisitive through brainstorming and prototyping. Students practice basic engineering skill ommunication of technical information while applying the engineering design process to complete an engineeromended for grades 10-12. Certifications are offered. ENGINEERING ANALYSIS RAND APPLICATION II FY 1 Engineering Explorations and Applications II is the second of a possible four-course sequillow students to apply the engineering design process to areas of the designed world, explore ethics in a tevorid, and examine systems in civil, mechanical, electrical, and chemical engineering. Students will participe ased, hands-on projects as they communicate information through team-based presentations, proposals, a apports. Recommended for grades 10-12. Certifications are offered. ENGINEERING CONCEPTS RY 1 Engineering Analy Applications III is the third course of a four-course sequence trudents to solve real-world problems. This course focuses on building an engineering team, working with cananaging projects, applying logic and problem-solving skills, delivering formal proposals and presentations, xamining product and process trends. In addition, students continue to apply their engineering skills to deter ey are good candidates for postsecondary educational opportunities in engineering. Students will participa ased, hands-on projects as they communicate information through team-based presentations, proposals, a aports. Recommended for 11-12 grades. Certifications are offered. Fit209 6670 TECHNOLOGY FUNDAMENTALS I None Fit209 6670 TECHNOLOGY FUNDAMENTALS I None Fit209 6670 TECHNOLOGY FUNDAMENTALS I None Fit2	eering achievements, and ctice engineering sign process through	uding major e ers. Students e engineering ct-related info	ng history, incl ir related care d they apply th nunicate projec	s. Students investigate engineering ineering specialty fields and the atical and scientific concepts, an ineering projects. Students committee in the scient scient in the scient	al-world problem e the principle er s, using mathem in hands-on eng	o solving rea ney examina undamental articipation
repares students by emphasizing integration of mathematics, science, and English concepts and skills into roblems in a curriculum demanding rigorous study habits and other college-level skills. Students are encou ecome routinely inquisitive through brainstorming and prototyping. Students practice basic engineering skill ommunication of technical information while applying the engineering design process to complete an engine ecommended for grades 10-12. Certifications are offered. ENGINEERING ANALYSIS RY 1 Engineering Explantation of the engineering Analysis and Applications II is the second of a possible four-course sequal low students to apply the engineering design process to areas of the designed world, explore ethics in a tevorid, and examine systems in civil, mechanical, electrical, and chemical engineering. Students will participe ased, hands-on projects as they communicate information through team-based presentations, proposals, a exports. Recommended for grades 10-12. Certifications are offered. ENGINEERING CONCEPTS FY 1 Engineering Analyappications II is the third course of a four-course sequence to tudents to solve real-world problems. This course focuses on building an engineering team, working with certain projects, applying logic and problem-solving skills, delivering formal proposals and presentations, xamining product and process trends. In addition, students continue to apply their engineering with certain projects, applying logic and problem-solving skills, delivering formal proposals and presentations, xamining product and process trends. In addition, students continue to apply their engineering students will participa ased, hands-on projects as they communicate information through team-based presentations, proposals, a eports. Recommended for 11-12 grades. Certifications are offered. ENGINEERING CONCEPTS FY 1 None F1209 6670 INFORMATION TECHNOLOGY FUNDAMENTALS I None F1209 6670 INFORMATION TECHNOLOGY FUNDAMENTALS I None F1209 6670 INFORMATION TECHNOLOGY FUNDAMENTALS I None F1209 F1209	gineering Exploration	1	FY	ENGINEERING STUDIES	21002	T1308
ourse Description: Engineering Analysis and Applications II is the second of a possible four-course sequence low students to apply the engineering design process to areas of the designed world, explore ethics in a teorid, and examine systems in civil, mechanical, electrical, and chemical engineering. Students will participe ased, hands-on projects as they communicate information through team-based presentations, proposals, a sports. Recommended for grades 10-12. Certifications are offered. ENGINEERING CONCEPTS AND PROCESSES III FY 1 Engineering Analy Applications II ourse Description: Engineering Concepts and Processes III is the third course of a four-course sequence to udents to solve real-world problems. This course focuses on building an engineering team, working with capanaging projects, applying logic and problem-solving skills, delivering formal proposals and presentations, kamining product and process trends. In addition, students continue to apply their engineering skills to deteleve are good candidates for postsecondary educational opportunities in engineering. Students will participal ased, hands-on projects as they communicate information through team-based presentations, proposals, a sports. Recommended for 11-12 grades. Certifications are offered. INFORMATION TECHNOLOGY FUNDAMENTALS I Ourse Description: Information Technology (IT) Fundamentals introduces the essential technical and profequired for students to pursue programs leading to professional careers and IT certifications. Students inventory and software Development, and Interactive Media. Students will evaluate the impact of IT on other career clous of the IT Fundamentals course is the introduction of skills related to information technology basics, Intendementals, network systems, computer maintenance/upgrading/troubleshooting, computer applications, praphics, Web page design, and interactive media. Students explore ethical issues related to computers and chnology and develop teamwork and communication skills that will enhance their e				nformation while applying the end	ion of technical ir	ommunicati
llow students to apply the engineering design process to areas of the designed world, explore ethics in a te rorld, and examine systems in civil, mechanical, electrical, and chemical engineering. Students will participa ased, hands-on projects as they communicate information through team-based presentations, proposals, a exports. Recommended for grades 10-12. Certifications are offered. ENGINEERING CONCEPTS	gineering Exploration	1	FY		21005	T1309
AND PROCESSES III Course Description: Engineering Concepts and Processes III is the third course of a four-course sequence of tudents to solve real-world problems. This course focuses on building an engineering team, working with cate ananaging projects, applying logic and problem-solving skills, delivering formal proposals and presentations, examining product and process trends. In addition, students continue to apply their engineering skills to detere yer good candidates for postsecondary educational opportunities in engineering. Students will participal ased, hands-on projects as they communicate information through team-based presentations, proposals, a exports. Recommended for 11-12 grades. Certifications are offered. INFORMATION TECHNOLOGY FUNDAMENTALS I FY None Fourse Description: Information Technology (IT) Fundamentals introduces the essential technical and profequired for students to pursue programs leading to professional careers and IT certifications. Students inverse programinates and technologies in four major IT areas: Information Services and Support, Network Systems, and Software Development, and Interactive Media. Students will evaluate the impact of IT on other career cludamentals, network systems, computer maintenance/upgrading/troubleshooting, computer applications, graphics, Web page design, and interactive media. Students explore ethical issues related to computers and echnology and develop teamwork and communication skills that will enhance their employability. Certification	e ethics in a technological ts will participate in STEM	ned world, ex gineering. Stu	as of the desig d chemical en rough team-ba	ngineering design process to are in civil, mechanical, electrical, ar they communicate information th	ts to apply the er xamine systems s-on projects as	llow studen orld, and e ased, hand
AND PROCESSES III The polications II Course Description: Engineering Concepts and Processes III is the third course of a four-course sequence of the total state of	nineering Analysis and			ENGINEERING CONCEPTS		
tudents to solve real-world problems. This course focuses on building an engineering team, working with catanaging projects, applying logic and problem-solving skills, delivering formal proposals and presentations, examining product and process trends. In addition, students continue to apply their engineering skills to deteror are good candidates for postsecondary educational opportunities in engineering. Students will participal ased, hands-on projects as they communicate information through team-based presentations, proposals, a sports. Recommended for 11-12 grades. Certifications are offered. INFORMATION TECHNOLOGY FUNDAMENTALS I Fourise Description: Information Technology (IT) Fundamentals introduces the essential technical and profequired for students to pursue programs leading to professional careers and IT certifications. Students invest proportunities and technologies in four major IT areas: Information Services and Support, Network Systems, and Software Development, and Interactive Media. Students will evaluate the impact of IT on other career clubus of the IT Fundamentals course is the introduction of skills related to information technology basics, Internations, network systems, computer maintenance/upgrading/troubleshooting, computer applications, praphics, Web page design, and interactive media. Students explore ethical issues related to computers and echnology and develop teamwork and communication skills that will enhance their employability. Certification		1	FY			ending
FOURSE Description: Information Technology (IT) Fundamentals introduces the essential technical and profequired for students to pursue programs leading to professional careers and IT certifications. Students inverse propertunities and technologies in four major IT areas: Information Services and Support, Network Systems, and Software Development, and Interactive Media. Students will evaluate the impact of IT on other career clades of the IT Fundamentals course is the introduction of skills related to information technology basics, International properties, Network systems, computer maintenance/upgrading/troubleshooting, computer applications, paraphics, Web page design, and interactive media. Students explore ethical issues related to computers and exchnology and develop teamwork and communication skills that will enhance their employability. Certification	vorking with case studies, presentations, and g skills to determine wheth s will participate in STEM-	ngineering tea al proposals a ly their engine gineering. Stu	building an endelivering form ontinue to apportunities in engrough team-ba	problems. This course focuses or logic and problem-solving skills, was trends. In addition, students of postsecondary educational opport they communicate information the	solve real-world projects, applying product and proced candidates for s-on projects as	tudents to s nanaging pr xamining po ney are goo ased, hand
equired for students to pursue programs leading to professional careers and IT certifications. Students investigation and technologies in four major IT areas: Information Services and Support, Network Systems, and Software Development, and Interactive Media. Students will evaluate the impact of IT on other career clocus of the IT Fundamentals course is the introduction of skills related to information technology basics, International technology basics, International technology basics, International technology basics, International technology and technology and interactive media. Students explore ethical issues related to computers and echnology and develop teamwork and communication skills that will enhance their employability. Certification	ne	1	FY	TECHNOLOGY	6670	Г1209
опегеа.	Students investigate carea fork Systems, Programmin other career clusters. The ogy basics, Internet applications, programming computers and Internet	d IT certification and Support, Note impact of IT formation tech acoting, comp issues related	nal careers and tion Services a vill evaluate th s related to inf ding/troublesh explore ethical	ue programs leading to profession es in four major IT areas: Informa and Interactive Media. Students van course is the introduction of skil ms, computer maintenance/upgra and interactive media. Students e	students to pursus and technologies Development, a IT Fundamentals s, network system page design, a	equired for sopportunities and Software ocus of the undamental graphics, We
GEOSPATIAL FY 1 Geospatial I				GEOGDATIAL		

TECHNOLOGY EDUCATION							
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)		
further exploitools, proces created, colle and guideline limitations of Recommend	re and analyze it ses, and techniq ected, and used es for integrating such technologied for grades 10	, interpreting, analyzing, and synt es. These experiences also includences. -12. Certifications are offered.	d, from local to hipulate, and ro hese experier hesizing data, de interfacing	o global and to evise data to nces employ i with a focus to network-ba	peyond. Students use various solve human challenges. Data is real-world spatial analysis models on both the implications and the		
ST1305	17106	ELECTRONICS SYSTEMS I	FY	1	None		
abound for a course allow and conduct	ny who should not students the operiments with	onic devices are everywhere in monaster the knowledge and skills reportunity to explore principles of the electronics. Students solve proland AC devices and circuits. Res	equired to des electricity, ap blems using si	ign, alter, rep ply knowledg mple electric	air, and construct them. This e in mathematics and science, al devices and circuits and build		
ST1306	17106	ELECTRONICS SYSTEMS II	FY	1	Electronics Systems I		
and laws wit	h electronic com	nts work with electronics devices ponents such as resistors, capac s, television, and other equipment	itors, and tran	sistors. They			
ST1301	21101	TECHNICAL DRAWING AND DESIGN	FY	1	None		
sketch, and	make technical d	foundation course, students lear frawings, models, or prototypes of freering and architecture students	f real design p	problems. The	e course is especially		
ST1302	21106	ENGINEERING DRAWING AND DESIGN	FY	1	Technical Drawing and Design		
Course Description: Students use a graphic language for product design, technical illustration, assembly, patent, and aeronautical drawings. They increase their understanding of drawing techniques learned in the prerequisite course. Students use computers, calculators, and descriptive geometry and adhere to established standards to solve design problems. Throughout the course, they hold seminars, meet engineers, and tour technical design firms in order to learn about the benefits of the course on their future study and career. Completion of this course may contribute to a student's preparation for AutoCAD certifications examination. Recommended for grades 10-12.							
ST1303	21103	ARCHITECTURAL DRAWING AND DESIGN	FY	1	Technical Drawing and Design		
construction designs, rendesign (CAD information h	Course Description: Students learn the principles of architecture and increase understanding of working drawings and construction techniques learned in the prerequisite course. Experiences include residential and commercial building designs, rendering, model making, structural details, and community planning. Students use computer-aided drawing and design (CAD) equipment and established standards or codes to prepare models for presentation. The course provides information helpful for the homeowner and is especially beneficial to the future architect, interior designer, or homebuilder. Recommended for grades 10-12. Certifications are offered.						
ST2314	21006	INTRODUCTION TO ENGINEERING DESIGN (PLTW) (MAURY ONLY)	FY	1	None		

TECHNOLOGY EDUCATION Number Credits **NPS SCED NPS** of Per Prerequisite(s) Code Code **Course Title** Semesters Year Course Description: This pre-engineering course is one of three core courses (along with Principles of Engineering and Digital Electronics) in a national engineering program. Using computer-modeling software, students learn the design process. They solve design problems as they develop, create, and analyze product models. Recommended for grades 9-12. Certifications are offered. PRINCIPLES OF **ENGINEERING** Introduction to Engineering ST2315 21004 FΥ 1 Design (PLTW) (PLTW) (MAURY ONLY) Course Description: This pre-engineering course is designed to follow two core courses (Principles of Engineering and Introduction to Engineering Design) as part of a national engineering program. Students use computer simulations to learn about the logic of electronics as they design, test, and actually construct circuits and devices. They apply control system programming and explore sequential logic and digital circuitry fundamentals. Topics in computer circuitry are also presented, including circuitry analysis and an exploration into diodes, transistors, and operational amplifiers. Recommended for grades 10-12. Certifications are offered. DIGITAL ELECTRONICS Introduction to Engineering FΥ ST2318 21008 (PLTW) 1 Design (PLTW) (MAÙRY ONLY) Course Description: This pre-engineering course is designed to follow two core courses (Principles of Engineering and Introduction to Engineering Design) as part of a national engineering program. Students use computer simulations to learn about the logic of electronics as they design, test, and actually construct circuits and devices. They apply control system programming and explore sequential logic and digital circuitry fundamentals. Topics in computer circuitry are also presented, including circuitry analysis and an exploration into diodes, transistors, and operational amplifiers. Recommended for grades 10-12 grads. Certifications are offered. Pending PRODUCTION SYSTEMS None Course Description: Students assess the relationship between production and society as they compose design portfolios, construct production prototypes, and apply automation to evaluate their solutions to technological problems. Recommended for grades 9-12. **ENGINEERING DESIGN** Introduction to Engineering AND DEVELOPMENT Design/ Principles of ST2316 21007 FΥ 1 Engineering (PLTW) (MAÙRY ONLY) (PLTW) Course Description: This pre-engineering course is designed to follow three core courses (Principles of Engineering, Introduction to Engineering Design, and Digital Electronics) as part of a national engineering program. Students enrolled in the Engineering Design and Development course synthesize knowledge, skills, and abilities through an authentic engineering experience. Students are expected to develop and formally present an independent study project and a teamoriented project, which are critiqued by an evaluation committee. Students interact and work with community mentors to research, design, and construct solutions to engineering problems. Recommended for grade 12. AT1320 11153 DIGITAL VISUALIZATION FY 1 None Course Description: Students will gain experiences related to computer animation by solving problems involving 3D object manipulation, storyboarding, texture mapping, lighting concepts, and environmental geometry. They will produce animations that include interdisciplinary projects related to science, engineering, and the entertainment industry. A major

emphasis will be the production of a portfolio that showcases examples of original student work. Recommended for

grades 10-12.

TECHNOLOGY EDUCATION						
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)	
ST1319	21015	MODELING AND SIMULATION TECHNOLOGY	FY	1	None	
world proble engineering educational systems, pro	ms in science, te designs, modelir purposes, creati	nts will explore the use of modeli echnology, engineering and math ng geospatial data, observing and ng visualization systems with 3D id implications of the field of mode	(STEM). The lanalyzing phymodels. Student	activities will ysics simulat ents will deve	ions, programming games for elop an understanding of the	
ST1304	99010	COMPUTER CONTROL AND AUTOMATION	FY	1	None	
production, programmin students to	transportation, ar g, control proces olan, program, ar	nd interface devices with compute	es include com ral impact of c er systems. Le	iputer equipn omputers. Pr arning activit	nent and operating systems, oblem-solving activities challenge	
MF1310	13052	MATERIALS AND PROCESSES TECHNOLOGY (MATERIAL SCIENCE ENGINEERING)	FY	1	None	
Course Des and conduct to analysis, laboratory c	scription: Stude experiments. Le testing, and proc ourse is recomm	PROCESSES TECHNOLOGY (MATERIAL	naterials and per analysis as of the ceramics, and echnical caree	processes as well as the us d composite ers and others	they fabricate usable products se of tools and equipment related materials. This single-period	
Course Des and conduct to analysis, aboratory c consumer ki ST1351 Course Des energy, and students cre why technol technology.	scription: Stude a experiments. Let extering, and procourse is recommonwhedge and tended and tended at the seription: In this information and late new ideas arogy works. They	PROCESSES TECHNOLOGY (MATERIAL SCIENCE ENGINEERING) Ints focus on industrial/technical rearring experiences include caree essing of metals, plastics, woods ended for students interested in technological literacy. Recommend	naterials and per analysis as of the community of the community of the community of the community of the technological displayments acquire the technological displayments using the community of	processes as well as the used composite ers and others 9-12.	they fabricate usable products se of tools and equipment related materials. This single-period s wishing to improve their None In in technological material, Challenged by laboratory activities oducts to learn further how and ng design in the development of	

TECHNOLOGY EDUCATION

NPS Code

SCED Code NPS Course Title Number of Semesters

Credits Per Year

Prerequisite(s)

Course Description: Students in this single-period laboratory science course apply physics and mathematical concepts through a unified systems approach to develop a broad knowledge base of the principles underlying modern technical systems. Students study seven technical principles: force, work, rate, resistance, energy, power, and force transformers, emphasizing how each principle plays a unifying role in the operation of mechanical, fluid, electrical, and thermal systems in high-technology equipment. This "principles and systems" approach to studying these technical principles provides a foundation for further education and career flexibility as technology and technical systems advance. Note: Students who complete Principles of Technology I and Principles of Technology II may use these courses to satisfy one physics credit in laboratory science. A student must complete both courses in the sequence in order to receive laboratory science credit. The sequence of Principles of Technology I and Principles of Technology II will satisfy one unit of credit in laboratory science for physics and one elective credit. Students who enroll in Principles of Technology courses for a physics credit must have completed Algebra I and two other laboratory science courses as specified by the accrediting standards prior to enrolling in Principles of Technology.

NST1322

03153

PRINCIPLES OF TECHNOLOGY II

FΥ

Principles of Technology I

Course Description: Students continue to apply physics and mathematical concepts through a unified systems approach to expand their knowledge base of the principles underlying modern technical systems. This course focuses on seven technical principles: momentum, waves, energy converters, transducers, radiation, optical systems, and time constants, emphasizing how each principle plays a unifying role in the operation of mechanical, fluid, electrical, and thermal systems in high-technology equipment. This "principles and systems" approach to studying these technical principles provides a foundation for further education and career flexibility as technology and technical systems advance.

Note: Students who complete Principles of Technology I and Principles of Technology II may use these courses to satisfy one physics credit in laboratory science. A student must complete both courses in the sequence in order to receive laboratory science credit. The sequence of Principles of Technology I and Principles of Technology II will satisfy one unit of credit in laboratory science for physics and one elective credit. Students who enroll in Principles of Technology courses for a physics credit must have completed Algebra I and two other laboratory science courses as specified by the accrediting standards prior to enrolling in Principles of Technology. Certifications are offered.

Norfolk Technical Center Offerings

Trade and Industrial Education at NTC

	TR	ADE AND INDUSTRIA	L EDUC	ATION A	TNTC
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
ΓR1902	20104	AUTOMOTIVE TECHNOLOGY	FY	3	None
vith state-of-th automotive Te rovided instru	ne-art technolo chnician's Ed action in all sy	recent technological advancements ogy and training. This course represucation Foundation's (NATEF) Mair stems as they prepare for the ASE or as a service professional in the automatical stems.	ents a large and tenance and (Automotive S	sampling of the Light Repair a Service Excell	e competencies from National accredited program. Students ar
TR1903	20104	AUTOMOTIVE TECHNOLOGY	FY	3	Automotive Technology I
Foundation's (course. Stude Student Certificompletion of	CNATEF's) Monts are providuation, "the file this course wi	course represents the advanced cor- laintenance and Light Repair accreded instruction in all systems as they rest step in building a career as a ser- ill result in program completion and certification. Work-based learning is	dited program prepare for vice professi prepare stud	n without redu the ASE (Auto onal in the aut ents to pass th	ndancy from the prerequisite motive Service Excellence) comotive industry." Successful ne equivalent NATEF student
AT1938	05163	ADVERTISING DESIGN I	FY	3	None
he production	process. In the ments covere	ents explore the principles and skills neir course of study, students apply a d include principles of design and ill	aesthetic the	ories and techr	nical skills to graphic design
AT1939	05163	ADVERTISING DESIGN II	FY	3	Advertising Design I
explore advan graphics and c	ced applicatio computer anim ortfolio and exp	ents build on the theoretical principle ns. Elements covered are design an nation, advertising techniques, and p plore careers in advertising design. \	id illustration reparation of	techniques, ty print-ready ma	pography, photography, Web aterials. In addition, students
AT1900	20117	AUTO BODY TECHNOLOGY I COLLISION AND REPAIR	FY	3	None
		e global automotive repair industry, t taught non-structural analysis, dama			

	TR	ADE AND INDUSTRIA	L EDUC	ATION A	T NTC
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
ΓR1901	20117	AUTO BODY TECHNOLOGY II PAINTING AND REFINISHING (CERTIFIED)	FY	3	Auto Body Technology I
n this course, sure spray guns and gaining cal espective ASE	students are to and persona reer skills. Stu E/NATEF exam	e global automotive repair industry the aught to repair, mask, and refinish all safety equipment while applying undents who successfully complete the and will be prepared for postsecontifications are offered.	auto body con ndercoats and nis program se	nponents and d topcoats, wo equence will b	entire vehicles. In addition, they orking with a variety of materials, be prepared to take and pass the
AC1904	17003	CARPENTRY I	FY	3	None
an exciting and apply construction co	d lucrative ca tion mathema omponents to	pentry I is the building block for achiereer. With an emphasis on safety, satics, and interpret blueprints. Stude form foundations and frame walls, 0 safety card.	tudents are ta ents will beco	aught to use h	nand and power tools, cut stock, in identifying types of residential
AC1905	17003	CARPENTRY II	FY	3	Carpentry I
related fields, so bower tools co become profice andustry standa boofs, trusses,	such as consimmon to the ient in assem ards, includin roofing mate	pentry II leads to successful transition truction management, architecture, industry to complement their OSHA bling and installing various types of grigging and job-estimating proceding rials, stairs, exterior doors and wind poletion. Work-based learning is available.	and others. S 10 safety cre- residential courses, forming lows, decks, a	Students are to edential earned onstruction confoundations, and porches.	aught the safe use of hand and ed in Carpentry I. Students will imponents that are current with framing floors, walls, ceiling, Successfully passing this course
HU1927	19101	COSMETOLOGYI	FY	3	None
grounded in the manipulative s and facilities. S	eory as they point and as they practice. To students deve	is introductory course, students stud orepare to practice procedures in a c The first-year course emphasizes pe elop skills in shampooing and conditi anicure and pedicure procedures.	clinical lab set rsonal safety,	tting or classro professionali	oom, using mannequins for sm, and sanitation of equipment
HU1928	19101	COSMETOLOGY II	FY	3	Cosmetology I
proficiency in h sanitation. Stud lightening, and	nair cutting an dents are train coloring hair t, developing	is advanced course, students build of distyling on live models, with attentioned in safety and chemical processes. They also develop artistic skills with expertise in providing facials, manical seed learning is part of this course.	on to profession is related to pe in artificial hair. iures, and ped	onalism, client ermanent wav In addition, st licures. A busi	consultation, safety, and es, relaxing, soft-curling, tudents learn to care for skin,
managing the		dent for the related certifications/licens	sures.		
managing the			sures.		

	IK	ADE AND INDUSTRIA	L EDUC	ATION A	T NTC
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
	ription: Stude e services syst	ents are introduced to the principles em.	s, techniques,	and practices	for pursuing careers within the
PS1934	15051	CRIMINAL JUSTICE II	FY	3	Criminal Justice I Student must have a C average in English.
services syste supervised wo	m. The coope	rative education model is available ning in an approved position with co	for this course	e. Students co	g careers within the criminal justice mbine classroom instruction and the second semester of the schoo
AC1908	17102	ELECTRICITY I	FY	3	None
commercial, a	ind industrial e	ents develop skills in the installation electrical systems. They also study ductors, and work with panel-board	electrical the	ory, navigate t	he National Electrical Code
AC1909	17102	ELECTRICITY II	FY	3	Electricity I
esidential, co elated to elec	mmercial, and ctricity, navigat	ents continue to develop skills in the lindustrial electrical systems. The ethe National Electrical Code Boo	y also study el	ectrical theory	and mathematical problems
systems, and	generators. TI	systems, and work with conduit an ne cooperative education model is ests are offered.	d raceways, p	anel-boards,	switchboards, grounding
systems, and n this course.	generators. TI	ne cooperative education model is	d raceways, p	anel-boards,	switchboards, grounding
systems, and n this course. ST1961 Course Descreedback system	generators. TI Certification t 21009 ription: This cems used in a	ne cooperative education model is ests are offered. ENGINEERING	d raceways, pavailable for t	anel-boards, his course. W	switchboards, grounding ork-based learning is available Algebra I
systems, and n this course. ST1961 Course Descr	generators. TI Certification t 21009 ription: This cems used in a	ests are offered. ENGINEERING TECHNOLOGY I	d raceways, pavailable for t	anel-boards, his course. W	switchboards, grounding ork-based learning is available Algebra I
ST1961 Course Descreedback system robotic management of the course Descreedback system or robotic management of the course Descreedback system an inpulation.	generators. TI Certification t 21009 ription: This cems used in anipulation. 21009 ription: This ems used in anipulation.	ENGINEERING TECHNOLOGY I ENGINEERING TECHNOLOGY I ENGINEERING TECHNOLOGY II COURSE PROVIDES INSTRUCTION IN DASIGNATION OF THE CHNOLOGY II COURSE PROVIDES ADVANCED INSTRUCTION OF THE CHNOLOGY INSTRUCTION OF	FY FY c computer progs. In addition,	anel-boards, his course. Was a sudents lear a students lear a students programming, stud	Algebra I Ectronics, motor control, and m how to program a microcontrolle Engineering Technology I and, electronics, motor control, and man a microcontrolle

TRADE AND INDUSTRIAL EDUCATION AT NTC Number Credits **NPS SCED** of Per Prerequisite(s) Code Code **Course Title** Semesters Year Course Description: Students are introduced to the equipment and procedures necessary to fight live fires, operate in simulated hazardous-materials incidents, and conduct search-and-rescue operations. Students react to multi-faceted situations (e.g., caused by simulated terrorism, accidents, and natural disasters) as part of an emergency-response team. Students become familiar with emerging technologies such as communications software (e.g., dispatch systems, GIS, mapping systems, incident reporting, and simulation programs), multimedia inputs, thermal imaging cameras, and hazardous gas detectors. Students acquire teamwork, critical-thinking, public-speaking, research, report-writing, and incident-management skills. This course challenges students academically, mentally, and physically. Firefighting I PS1932 15152 FIREFIGHTING II FY 3 Student must have a C average in English. Course Description: Students are introduced to the equipment and procedures necessary to fight live fires, operate in simulated hazardous-materials incidents, and conduct rescue operations including vehicle extrication. Students react to multi-faceted situations (e.g., caused by simulated terrorism, accidents, and natural disasters) by managing resources such as medivac helicopters, emergency medical personnel, technical rescue teams, and community-based organizations. Students become familiar with emerging technologies such as communications software (e.g., dispatch systems, GIS, mapping systems, incident reporting, and simulation programs), multimedia inputs, thermal imaging cameras, and hazardous gas detectors. Students will also focus on the role and responsibilities of emergency rescue workers, basic medical terminology, and health care skills that include first aid; cardiopulmonary resuscitation; aseptic technique; and related anatomy, physiology, and disease knowledge. The cooperative education method is available for this course. Students combine classroom instruction and supervised on-the-job training in an approved position with continuing supervision during the second semester of the school year. Note: Students must be at least 16 years old by the first day of the course offering. 17056 AIR CONDITION AND AC1920 FΥ 3 None REFRIGERATION I Course Description: This instructional program prepares students to install, repair, and maintain the operating conditions of heating, air conditioning, and refrigeration systems. Students work with piping and tubing, study heat and electricity, install duct systems, and comply with EPA regulations. Completion of this sequence may prepare students for a number of certification exams, helpful for employment in a variety of HVAC occupations. AIR CONDITION AND AC1921 17056 FΥ 3 Air Condition and Refrigeration I REFRIGERATION II Course Description: This instructional program prepares students to install, repair, and maintain the operating conditions of heating systems. Completion of this sequence may prepare students for a number of certification exams and is helpful for employment in a variety of HVAC occupations. The cooperative education method is available for this course. Work-based learning is available for this course. Certifications are offered. ST1331 NORSTAR ROBOTICS FOR 21009 FΥ 1 Acceptance into NORSTAR THE 21ST CENTURY ST1333 Course Description: This course is designed for the high ability learner who has a strong desire to learn about the programming and function of the modern age robots in a highly competitive global society. Students will learn the design process that includes a combination of mechanical, electrical, telecommunication, control and computer engineering. Recommended for grades 9-12. 21009 FΥ ST1334 **MECHATRONICS** 3 Robotics I

Course Description: This course teaches the high ability learner the design of mechatronics in a synergistic combination of precision engineering, electronic control and robotic systems engineering. The students will use this relatively new approach for product design and developing emerging engineering systems. Recommended for grades 10-12. Certifications are offered.

TRADE AND INDUSTRIAL EDUCATION AT NTC					
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
ST1330 ST1332 ST1335Z	03999	RESEARCH, DESIGN, AND INNOVATIONS	FY	.5 1.0 3	Acceptance into NORSTAR

Course Description: The NORSTAR Research, Design, and Innovations program provides highly talented students with the opportunity to translate their study of science, technology, engineering, and math (STEM) into the creation of new and innovative products that may be built and eventually patented for use by the public. In addition, students will be given the opportunity to master basic engineering skills (using CAD, soldering, interpreting circuit diagrams, etc.), and participate in STEM based competitions with other high ability and gifted students from across the state and nation. Recommended for grades 9-12.

MF1924 13207 WELDING I FY 3 None

Course Description: Students learn to use gases and electric arc processes to fabricate and weld metal parts according to diagrams, blueprints, and specifications. Students will also receive all safety-related practices and techniques including the OSHA 10 card.

MF1925 13207 WELDING II FY 3 Welding I	
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Course Description: Students continue to apply the practices and techniques learned in Welding I using advanced welding techniques to fabricate and weld metal parts according to diagrams, blueprints, specifications, and industry certification. The cooperative education method is available for this course. Work-based learning is available in this course. Certifications are offered.

Business and Information Technology at NTC

BUSINESS AND INFORMATION TECHNOLOGY AT NTC							
SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)			
10005	ADVANCED COMPUTER INFORMATION SYSTEMS	FY	3	Computer Information Systems			
	SCED Code	SCED NPS Course Title ADVANCED COMPUTER	SCED Code NPS Course Title Number of Semesters ADVANCED COMPUTER EY	SCED Code NPS Course Title Number of Semesters Per Year ADVANCED COMPUTER FY 3			

Course Description: 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, web site development, programming, networking, emerging technologies, and employability skills. Work-based learning is available in this class. Certifications are offered.

IT1212	10005	COMPUTER INFORMATION SYSTEMS	FY	3	None
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Course Description: 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. Certifications are offered.

IT1971 IT1972 10109 COMPUTER NETWORK SOFTWARE OPERATIONS FY 3 None		10109		FY	3	None
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Course Description: Computer Network Software Operations is designed to teach many aspects of computer support and network administration. Students learn networking concepts, from usage to components, and set up peer-to-peer network systems and client server networks. Students install and configure network cards and connect them to networks. Students learn how to install operating systems, set up and manage accounts, load software, and set up and implement security plans. This course may include software-based network operating systems such as Novell Open Enterprise Server and SUSE Linux Desktop. Certifications are offered.

IT1973 IT1974	10152	JAVA PROGRAMMING AND GAMING	FY	3	None

Course Description: Students study Java programming and Java database applications. Java is becoming the programming language of choice because of its ability to provide a rich development environment that allows for effective program development and deployment. The basics of object-oriented programming and the Java programming language are emphasized in this instruction. Students will prepare for industry certification in database applications and programming. Students will develop Java applications, as well as, games using the game maker program. Work-based learning is available in this course. Certifications are offered.

Family and Consumer Sciences at NTC

	FAMI	ILY AND CONSUM	ER SCIE	NCES AT	T NTC
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
HT1988	16052	CATERING II	FY	3	Culinary Arts I
management baker/pastry Critical thinking	, and other skills le helper, pastry decong, practical proble	Arts II provides students an observed in Culinary Arts I. Students orator, hospitality worker, dietem solving, and entrepreneurs the basic skills of mathematic	dents prepare for tetic aide/assist ship opportunit	or occupation tant, food der ies within the	s such as chef/cook, nonstrator, and entrepreneur. field of culinary arts are
HT1989	16052	CULINARY ARTS SPECIALIZATION	FY	3	Catering I or Culinary Arts II
Baking and Pa	astry; 2) Catering/B	Sanquet; 3) Restaurant Opera nended for grade 12. The Ser EARLY CHILDHOOD	ition; or 4) Qua	ntity Food-Pr	one of the following four areas: 1) reparation. Work-based learning is ered.
-D1993	19153	EDUCATION, AND SERVICES I	Γĭ	3	None
by focusing or supervision; re opportunities v	n the planning, orga ecord keeping; and within the field of ea rs, elementary sch	anizing, and conducting of me referral procedures. Critical tally arly childhood education are o lools, other institutions) under	eaningful play a thinking, praction emphasized. Posting the supervision	and learning a cal problem s ractical expe on of the instr	riences (e.g., on-site lab, local uctor are required. Students also
	ntinuing education	leading to careers in early checked the search of the sear	FY	(e.g., medica	Early Childhood, Education, and Services I
ED1994 Course Desc such as educa experiences (einstructor are i	ription: Students ation, medical/healt e.g., on-site lab, loce required. Critical th	EARLY CHILDHOOD EDUCATION AND SERVICES II focus on occupational skills n th care, social services, couns cal daycare centers, elementa	FY needed by pers seling, psychol ary schools, oth	3 connel employ ogy, and entr	Early Childhood, Education, and
ED1994 Course Described as educated as ed	ription: Students ation, medical/healt e.g., on-site lab, loce required. Critical th	EARLY CHILDHOOD EDUCATION AND SERVICES II focus on occupational skills n th care, social services, couns cal daycare centers, elementa inking, practical problem solv	FY needed by pers seling, psychol ary schools, oth	3 connel employ ogy, and entr	Early Childhood, Education, and Services I yed in early childhood-related fields be preneurship. Work-based learnings) under the supervision of the
ED1994 Course Describer as educate experiences (enstructor are inchildhood educate) AT1943 Course Describer as describer as educate experiences (enstructor are inchildhood educate) Educate as describer as describer as earning opportunity opportunity and inchildren as describer as descri	ription: Students ation, medical/healte.g., on-site lab, loc required. Critical th cation are emphas 22205 ription: Students shion including fab tunities within the	EARLY CHILDHOOD EDUCATION AND SERVICES II focus on occupational skills in th care, social services, couns cal daycare centers, elementa inking, practical problem solv ized. Certifications are offere FASHION DESIGN I investigate career opportunition incit technology, fashion design fashion design industry are elementa	FY needed by pers seling, psychol ary schools, other wing, and entreped. FY es in apparel den skills, and apnocuraged to procuraged to procurage procuraged to procurage procuraged to procurage procur	3 connel employ ogy, and entre institution preneurship of the state of	Early Childhood, Education, and Services I yed in early childhood-related fields repreneurship. Work-based learnins) under the supervision of the apportunities within the field of early None None

FAMILY AND CONSUMER SCIENCES AT NTC NPS Code SCED NPS Course Title Number of Semesters Per Year Prerequisite(s)

Course Description: Students focus on occupational skills identified as essential for careers in the fashion industry as a fabric/notions clerk, alteration aide, seamstress, retail fabric demonstrator, costume aide, and mender. Students continue to develop skills in fashion illustrating, draping, pattern making, garment construction, and compilation of a portfolio. Opportunities for entrepreneurship within the field of fashion design are examined. Work-based learning is available in this course. Certifications are offered.

Health and Medical Services at NTC

	HEALTH AND MEDICALSERVICES EDUCATION AT NTC							
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)			
HS1917	14054	DENTAL ASSISTANT I	FY	3	Student must have a 2.0 GPA			

Course Description: Students are introduced to the careers in dentistry, including dentist (general and specialists), hygienist, dental assistant, dental laboratory technician, and dental receptionist. Students practice and learn about many of the skills utilized in these professions while attaining all the skills necessary to become a dental assistant. Study includes infection control and OSHA standards, anatomy and physiology, tooth morphology, oral histology, preventive dentistry, applied psychology, effective communication, office administration and management, use of dental software, operative dentistry techniques, and dental materials/laboratory skills.

HS1918	14054	DENTAL ASSISTANT II	FY	3	Dental Assistant I, Student must have a 2.0 GPA
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Course Description: Units of study include medical emergencies, coronal polishing, oral pathology, dental roentgen ology, nutrition, schedule IV drugs and pharmacology, and advanced laboratory techniques. While attending classes for part of the week, students also have an opportunity to participate in internships in local private dental offices and public health dental facilities, where they participate in all phases of dental care delivery. At the end of the program, students are eligible to take the State Dental Board examination, which offers certification in Radiation Hygiene and Safety and in Schedule IV Drugs, qualifying those who pass to work as dental assistant, dental receptionist, patient educator, appointment controller, and dental office manager. After two years in the field, graduates of the program are eligible to take the national examination to become a certified Dental Assistant. Many graduates choose to continue their dental education at community colleges and universities. Work-based learning is available in this class. Certifications are offered.

HS1922	14151	MEDICAL ASSISTANT I	FY	3	Student must have a 2.0 GPA
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Course Description: Students develop basic skills and techniques to assist the physician and/or other medical professionals in patient examinations, basic emergency care, simple laboratory tests, and administrative duties and will gain foundation knowledge in basic anatomy and physiology, medical ethics, and legal responsibilities. Students also explore medical assisting career pathways. On-the-job clinical instruction and/or observation may occur in a health care facility and is coordinated by the Health and Medical Sciences teacher.

14151	MEDICAL ASSISTANT II	FY	3	Medical Assistant I Student must have a 2.0 GPA
	14151	14151 MEDICAL ASSISTANT II	14151 MEDICAL ASSISTANT II FY	14151 MEDICAL ASSISTANT II FY 3

HEALTH AND MEDICALSERVICES EDUCATION AT NTC Number Credits **NPS SCED** NPS of Per Prerequisite(s) Code Code **Course Title** Semesters Year Course Description: Students further develop medical-assisting skills and techniques learned in Medical Assistant I. They also learn management of patient records, cardiopulmonary resuscitation, care and use of equipment, collection and analysis of laboratory specimens, special diagnostic testing, diseases and disorders, basic knowledge of treatment and medication, and job preparedness skills. Work-based learning is available in this class. Successful completion of the program may lead to employment in physicians' offices or clinics. Certifications are offered. HS1701 14062 SPORTS MEDICINE I FY 1 None Course Description: This course of studies provides students with the basic concepts and skill set required for an entrylevel position as a sports medicine assistant. It introduces students to topics such as injury prevention, nutrition, first aid/CPR/AED, exercise physiology, and biomechanics. Students study basic human anatomy and physiology, medical terminology, legal and ethical issues in sports medicine, and career preparation. Course competencies have been constructed so as not to go beyond the professional scope of aide/assistant level. Mastery of the material in this course would provide students with a strong background should they wish to pursue certification in areas such as first aid, CPR, AED, and/or personal trainer. HS1702 14062 SPORTS MEDICINE II FY Sports Medicine I Course Description: This course of studies provides students with the basic concepts and skill set required for an entrylevel position as a sports medicine assistant. It introduces students to topics such as injury prevention, nutrition, first aid/CPR/AED, exercise physiology, and biomechanics. Students study basic human anatomy and physiology, medical terminology, legal and ethical issues in sports medicine, and career preparation. Course competencies have been constructed so as not to go beyond the professional scope of aide/assistant level. Mastery of the material in this course would provide students with a strong background should they wish to pursue certification in areas such as first aid, CPR, AED, and/or personal trainer. Certifications are offered. 14152 PHARMACY TECHNICIAN FΥ 3 HS1951 Minimum 2.25 GPA Course Description: This one-year course prepares students to assist pharmacists with delivering health care services to clients in a variety of settings. Students become skilled with preparing/dispensing medications, ordering, packaging, and stocking medications, and processing insurance payments. Clinical internship sites may include retail, hospital, and longterm care pharmacies. Students who successfully complete the requirements of the Pharmacy Technician Program will be eligible to take a national certification examination offered by the Pharmacy Technician Certification Board (PTCB). Students who pass the examination will hold the title of Certified Pharmacy Technician. Work-based learning is available in this course. PRACTICAL NURSING I/ Minimum 2.25 GPA and Senior HS1991 14052 FY PRACTICAL NURSING II Status Course Description: In the first semester of Practical Nursing, students learn the nursing process and care of patients of all ages, in various stages of sickness or wellness, and with a variety of disease conditions. They focus on fundamental nursing skills, communication, human anatomy, body function, nutrition, and community health. In the second semester of Practical Nursing, instruction emphasizes infection prevention and control, teaches normal life span (human growth and development), and introduces pharmacology. Advanced emergency procedures and application of nursing procedures are demonstrated in a laboratory setting. Certifications are offered. Post-Grad Status Practical 14052 HS1992 PRACTICAL NURSING III FY Nursing I&II

HEALTH AND MEDICALSERVICES EDUCATION AT NTC

NPS Code SCED Code

NPS Course Title Number of Semesters Credits Per Year

Prerequisite(s)

Course Description: This post-grad course provides classroom instruction and clinical training in approved hospitals, licensed nursing homes, physician offices, licensed day care centers or home-care settings under the direction of a nurse educator. Instruction emphasizes administration of medication, holistic nursing care, and health-teaching as students apply concepts of physiology and communication to the care of patients of all ages. Upon successful completion of the total program, students qualify to take the Practical Nurse Licensing Examination.

Career Development Program

The Career Development Program is designed for students with disabilities who are candidates for the Applied Studies Diploma and the Virginia Alternate Assessment Program (VAAP). An Applied Studies Diploma is available to students with disabilities who complete the requirements of their IEP and who do not meet the requirements for other diplomas. The Virginia Alternate Assessment Program (VAAP) is designed to evaluate the performance of students with significant cognitive disabilities. The Career Development Program is a self-contained departmentalized cross categorical program that provides services to students with intellectual or developmental disabilities.

Note: All courses under this program are non-credit bearing.

CAREER DEVELOPMENT PROGRAM									
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)				
CD7255	19154	GOT HEALTH	FY		This course is designed for the student who is currently taking a physical education class.				
Course Description: This course is designed to provide the student with information necessary to establish and maintain a nealthy lifestyle.									
CD7256	19154	"WHAT'S HAPPENING NOW"	FY		Student can identify basic sight words				
resources	are used to		onal and local p	olitics, to sp	nowledge of current events. A variety of orts, to the stock market. The course real world.				
CD7257	19154	"MY RIGHTS"	FY		The student is able to communicate thoughts and ideas to others				
Course Description: This one-year course is designed to provide students with the opportunity to learn, practice, and refin the skills, knowledge, and attitudes identified as necessary for self-advocacy and determination. Opportunities are provided for students to identify those personal characteristics that could help them take greater control over their lives, to set personal goals and develop an understanding of their disability as well as their rights and responsibilities as adult citizens.									
CD7258	19154	"SOCIAL CONNECTIONS"	FY		Students who can benefit from skill training in developing appropriate interpersonal relationships, self-management, following directions and self-advocacy.				
			d to prepare cert		IL				

		CAREER DEVEL	OPMENT	PROG	RAM
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)
CD7259	19154	MOBILITY "COMMUNITY EXPLORATIONS"	FY		Student has demonstrated that he/she is unable to negotiate within buildings and around the community (accessing appropriate transportation) due to his/her unique needs.
		The semester course is designed to independent mobility. (This course			ain students to develop the knowledge
CD7260	19154	"GETTING SOCIAL"	FY		NONE
settings. 7	Topics for cable mann	 This year-long course is designed onsideration include introductions, s ers, behavior appropriate for ladies a 	ocial interactio	ns, persona	
CD7241	19154	UNLOCKING LITERATURE	FY		Failure to pass 8th grade English SOLs due to deficits in decoding skills.
		nderstanding of our rule based languch to reading will be used.	iage system ai	nd lack basi	c decoding skills. A highly structured,
CD7242	19154	WRITING THAT MAKES SENSE	FY		NONE
writing and	d introduce	This course is designed to reinforc an organized method of writing that ogical steps using graphic organizers	is research ba	d mechanic sed. The st	s (spelling, punctuation, capitalization) in udent will learn how to break down the
CD7243	19154	BASIC COMPUTER LITERACY I	FY		Students are able to identify alphanumeric keyboard.
to use the	mouse, wo		nctions, compu		nputer knowledge and skills including how is and terminology, manipulate files, use
	40454	BASIC COMPUTER			Completion of Basic Commuter
CD7244	19154	LITERACY II	FY		Completion of Basic Computer Literacy I
Course De needed to navigation	escription: enter the w	LITERACY II This yearlong course will enable st vorkforce. Students will learn applicated wide web.	udents to gain ations used for	simple wor	
Course Doneeded to navigation Note: Stuclass.	escription: enter the w	LITERACY II This yearlong course will enable st vorkforce. Students will learn applicated wide web.	udents to gain ations used for	simple wor	Literacy I oundation for the critical computer skills d processing, desktop publishing and
Course Doneeded to navigation Note: Stuclass. CD7246 Course Done problems i	escription: enter the worldents who	LITERACY II This yearlong course will enable st vorkforce. Students will learn applicated wide web. THE BASIC FOUR	udents to gain ations used for eng skills for e	simple work mploymen igned to use	oundation for the critical computer skills d processing, desktop publishing and t are referred to the "Keyboarding" Ability to perform simple addition and subtraction et the four operations to solve basic math
Course Doneeded to navigation Note: Stuclass. CD7246 Course Done problems i	escription: enter the worldents who	LITERACY II This yearlong course will enable st vorkforce. Students will learn applicated wide web. THE BASIC FOUR This one-year developmental mather-step equations and inequalities w	udents to gain ations used for eng skills for e	simple work mploymen igned to use	oundation for the critical computer skills d processing, desktop publishing and t are referred to the "Keyboarding" Ability to perform simple addition and subtraction et the four operations to solve basic matter.

CAREER DEVELOPMENT PROGRAM									
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)				
Course Description: This year-long course in basic math concepts is designed to build student capacity to construct a simple graph, interpret data from graph, and use the concept of functions to solve problems.									
simple gra	pri, interpre	t data from graph, and use the conce	cpt of fullction	13 to 301vc p	TODICITIO.				
CD7248	19154	THE WRITE WAY	FY		Students can write/verbalize a five- sentence paragraph.				
Course Description: This year-long developmental course focuses on grammar, usage, vocabulary, composition and vriting skills. The course progresses to critical thinking skills such as identifying main idea, citing evidence to support point of view and drawing valid conclusions from data.									
CD7249	19154	MONEY, MONEY, MONEY	FY		Students can perform basic operations with or without a calculator.				
and tools ι	used for pe	rsonal finance. The course examine	s, budgeting,	wise spendi	ents with a large variety of resources ng, avoiding frauds/swindlers, consumen ng personal financial decision-making.				
CD7252	19154	ON MY OWN	FY		NONE				
		: This year-long course is designed thome, school and community.	to enable the	student to de	evelop skills required for functional				
CD7261	19154	PRE-EMPLOYMENT	FY		NONE				
Course Description: This course is designed for students to be introduced to the world of work. Students will receive instruction to develop soft skills and explore/investigate career options and the steps necessary for preparing for entry into the workforce based upon the Virginia's 21 Workplace Readiness Skills.									
CD7262	19154	WORK EXPERIENCE	FY		Pre-Employment Course				
		: This year-long course will introduce s, service learning and unpaid interns			e through work-based learning activities d community.				
CD7263	19154	READY, SET, WORK	FY		Pre-Employment Course				
and self-m	anagemen	: This one-year course prepares students will develop a resume an skills, and business etiquette in the w	nd cover letter		ocusing on problem solving, teamwork echniques, work ethics, professional				
CD7264	19154	BEYOND EMPLOYMENT	FY		Ready, Set, Work; Work Experience				
skills throu	gh extende	 This year-long course will provide of the course of the course will provide of the course of the course of the course of the course the course of the course			to further develop their job acquisition al of placement in competitive				
Т97		SUPPORTED EMPLOYMENT	FY	1.5	Beyond Employment/Work Experienc				

CAREER DEVELOPMENT PROGRAM

NPS Code SCED Code NPS Course Title Number of Semesters Credits Per Year

Prerequisite(s)

Course Description: Students receive on-the-job training through paid internship or part-time competitive employment with the support of a job coach or employment specialist during first semester. This is the only course under the Career Development Program for credit. Students must work a minimum of 20 hours per week for 18 weeks to receive 1.5 elective credits. (This course is for students seeking a non-standard diploma (GED, Modified Standard and/or Applied Studies diploma). Students who do not meet this criteria will be considered for enrollment on a case-by-case basis.

T98 SUPPORTED EMPLOYMENT

1.5

Beyond Employment/Work Experience

Course Description: Students receive on-the-job training through paid internship or part-time competitive employment with the support of a job coach or employment specialist during first semester. This is the only Career Development Course for credit. Students must work a minimum of 20 hours per week for 18 weeks to receive 1.5 elective credits. (This course is for students seeking a non-standard diploma (GED, Modified Standard and/or Applied Studies diploma). Students who do not meet this criteria will be considered for enrollment on a case-by-case basis.

FΥ

US Navy JROTC

The NJROTC curriculum emphasizes citizenship and leadership development, as well as our maritime heritage, the significance of sea power, and naval topics such as the fundamentals of naval operations, seamanship, navigation and meteorology. The program is constructed to include three academic classroom sessions and two activity periods per week. The curriculum is based on 40-minute sessions of instruction for 36 weeks, with 180 teaching days. This equates to 7200 minutes of contact instruction (72 hours of classroom instruction and 48 hours of activities including military drill and athletics). Classroom instruction is augmented throughout the year by community service activities, drill competitions, field meets, flights, and visits to naval activities, marksmanship training, and other military training.

U.S. NAVY JROTC						
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)	
RO1505	22999	ACADEMY OF LEADERSHIP AND MILITARY SCIENCE (LAKE TAYLOR HS)	FY	1	None	
Schools and earning cor	d a number on nmunity of the	he Academy of Leadership and Mili of community, private sector, govern ne Academy is comprised of cluster rell as year-round internships with c	ment, higher scheduling o	education, and foreign	d military agencies. The small	
RO1501	09101	NAVAL 1	FY	1	None	
he value of with recogn a growing s The course Organizatio Naval Histo	f scholarship lition that the lense of prid- includes into lon, The Natio lory through 1	Naval Science 1 introduces students in attaining life goals; engender a so historically significant role of sea present in his/her organization, associates roduction to the NJROTC program; n, Navy and the People in Americal 815, Introduction to Navigation and cohol and Tobacco Abuse Preventic	sound apprec ower will be in s, and self. The Introduction to n Democracy Time, Basic	iation for the h mportant in An lese elements o Leadership, , Maritime Geo	eritage and traditions of America, nerica's future; develop in each cade are pursued at the fundamental leve Naval Ships; Mission and ography, Seapower and Challenge,	
the value of with recogn a growing s The course Organizatio Naval Histo First Aid, ar	f scholarship ition that the ense of prid- includes inti in, The Natio iny through 1 nd Drugs, Ale	in attaining life goals; engender a so historically significant role of sea pose in his/her organization, associates roduction to the NJROTC program; in, Navy and the People in American 815, Introduction to Navigation and cohol and Tobacco Abuse Prevention	sound apprectower will be into a self. The sel	iation for the h mportant in An lese elements o Leadership, , Maritime Geo Seamanship, (eritage and traditions of America, nerica's future; develop in each cade are pursued at the fundamental leven Naval Ships; Mission and ography, Seapower and Challenge, Oceanography, Health Education,	
the value of with recogn a growing s The course Organizatio Naval Histo	f scholarship lition that the lense of prid- includes into lon, The Natio lory through 1	in attaining life goals; engender a s historically significant role of sea pe e in his/her organization, associates roduction to the NJROTC program; in, Navy and the People in Americal 815, Introduction to Navigation and	sound apprec ower will be in s, and self. The Introduction to n Democracy Time, Basic	iation for the h mportant in An lese elements o Leadership, , Maritime Geo	eritage and traditions of America, nerica's future; develop in each cad- are pursued at the fundamental lev Naval Ships; Mission and ography, Seapower and Challenge,	
the value of with recogn a growing so The course Organizatio Naval Histor First Aid, an RO1502 Course Deshe traits of deeper awa provides on Countries, Missiles and	f scholarship ition that the sense of pride includes into in, The Natio iny through 1 and Drugs, Ale 09102 scription: citizenship a reness of the going instruct laval History if Mines, Nav	in attaining life goals; engender a so historically significant role of sea pose in his/her organization, associates roduction to the NJROTC program; in, Navy and the People in American 815, Introduction to Navigation and cohol and Tobacco Abuse Prevention	sound apprectower will be in a self. The Introduction to the Democracy Time, Basic son. FY all introduction addets to techns to the contentation and and Shipboard.	iation for the h mportant in An lese elements o Leadership, , Maritime Gec Seamanship, (eritage and traditions of America, nerica's future; develop in each cad are pursued at the fundamental lev Naval Ships; Mission and ography, Seapower and Challenge, Oceanography, Health Education, Naval 1 Naval Science 1, to further develop naval science, and engender a ng of the United States. The course ig, Citizenship in the U.S. and Othe laval Weapons: Gunnery, Guided	

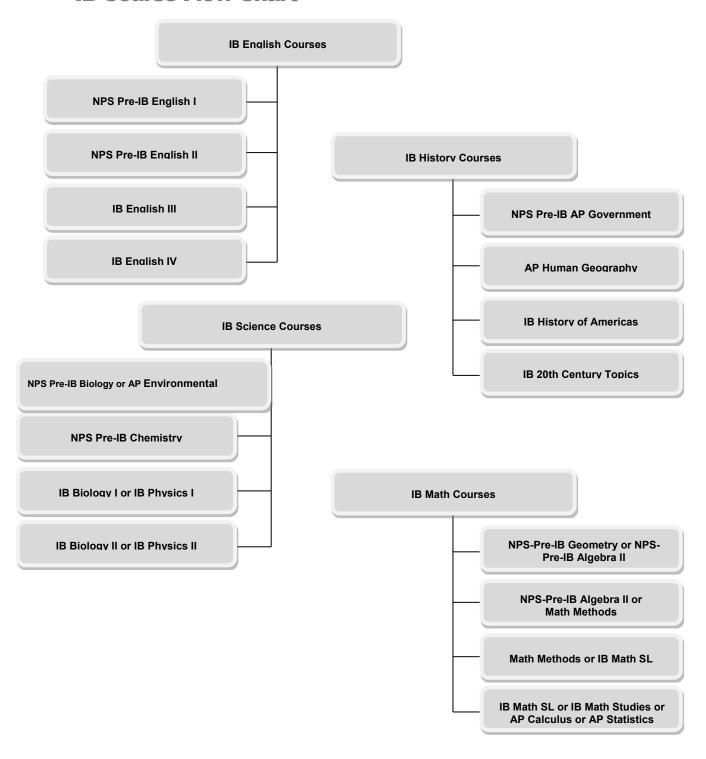
U.S. NAVY JROTC Number Credits **NPS SCED NPS** Per Prerequisite(s) Code Code **Course Title** Semesters Year Course Description: Naval Science 3 broadens the under-standing of students in the operative principles of military leadership, the concept and significance of teamwork, the intrinsic value of good order and discipline in the accomplishment of objectives, the fundamentals of American democracy, and to expand their understanding of naval academic subjects. The course provides ongoing instruction in leadership and discipline, Military Justice, Astronomy, International Law and the Sea, National Strategy, Sea Power and Naval Operations, Naval History: 1930 through the Nuclear Age, Naval Intelligence and National Security, Maneuvering Board, Challenges of Future Navy Research, and Electricity and Naval Electronics. RO1504 09104 NAVAI 4 Naval 3 Course Description: Naval Science 4 focuses solely on practical leadership. The intent is to assist the senior in understanding leadership and improving their leadership skills by putting them in positions of leadership, under super-vision, then helping them analyze the reasons for their varying degrees of success through the year. Classroom activities include seminars, reading assignments, classroom presentations, & practical work with younger cadets. The course curriculum includes instruction in theoretical and applied aspects of leadership, training, and evaluation of performance. Students will become aware of the techniques used to create motivation, develop goals and activities for a work group, and the proper ways to set a leadership example. Cadets will also apply these principles when dealing with younger cadets in the areas of military drill and inspections, athletic events, and in other school activities.

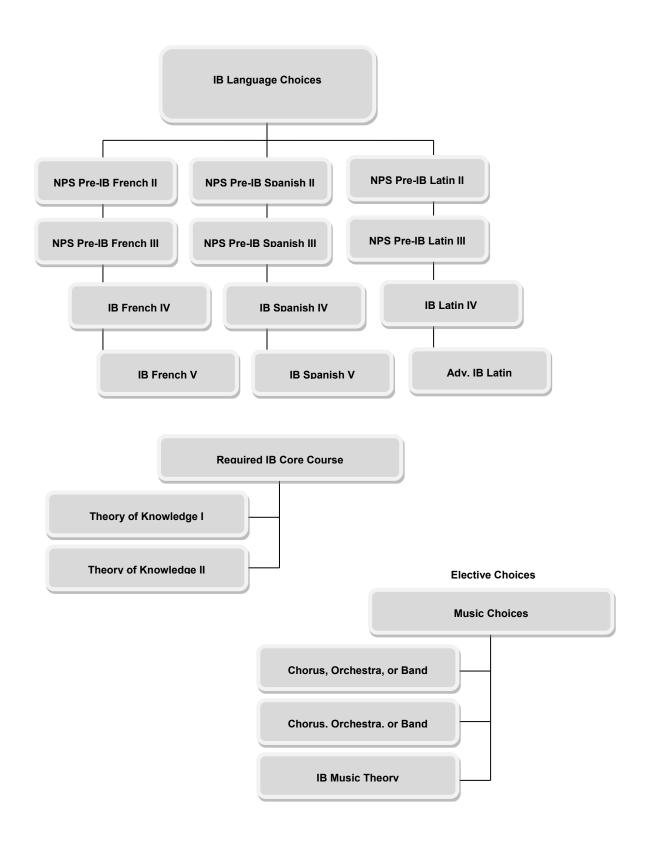
International Baccalaureate Diploma Program at Granby High School

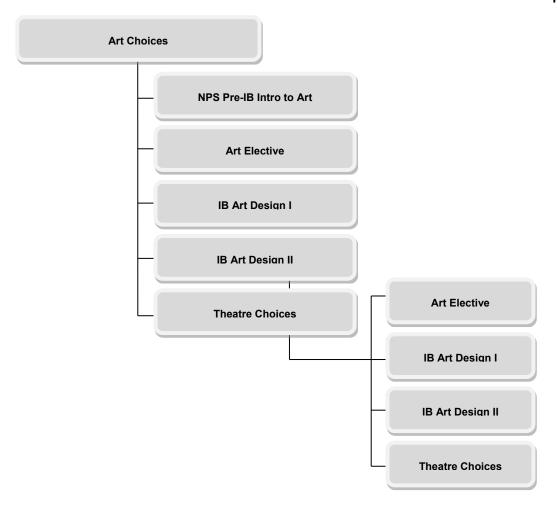
Granby High School is a member of the International Baccalaureate Organization (IBO) and has been authorized to offer the International Baccalaureate Diploma Program since 1998. This program is a two-year "academically challenging and balanced program" intended for juniors and seniors who desire in-depth scholastic preparation for college or university. The International Baccalaureate Organization "aims to develop inquiring, knowledgeable, and caring young people with adaptable skills to tackle society's complex challenges and who will help to make a better, more peaceful world." The IB program emphasizes teaching students how to learn and encourages them to "value learning as an essential, integral part of their everyday lives," and cultivates students' intellectual, social, emotional, and physical well-being in addition to their cognitive development. Students who complete the IB Diploma Program enter college with the communication and critical thinking skills needed to be successful in our global society. (IB Parent Pack, 2015). Teaching in the program is based on inquiry, focused on conceptual understanding, developed in local and global contexts, focused on effective teamwork and collaboration, differentiated to meet the needs of all learners, informed by formative and summative assessment (IB Approaches to Teaching).

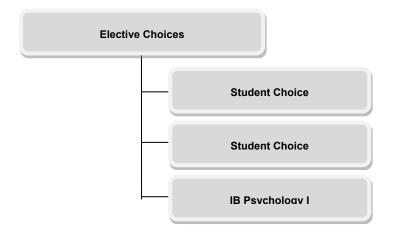
Students apply for our preparation program as rising 9th graders through their current middle school and our application deadline is always in February.

IB Course Flow Chart









Codo	SCED	NPS	Number of	Credits Per	Prerequisite(s)
Code	Code	Course Title	Semesters	Year	Troroquiono(o)
LA3110	01001	NPS PRE-IB ENGLISH I	FY	1	Acceptance into the IB
iterature fr esearch-b	rom a variety pased informa	of cultures and all genres, write ation papers, participate in large	e expository pape e and small group	ers using a va o discussions,	critical thinking skills. Students read riety of methods of development, write and improve oral communication idents complete independent study
LA8210	01002	NPS PRE-IB/AP ENGLISH LANGUAGE	FY	1	NPS Pre-IB English I
reading rep Students e essays. Th	presentative vextend their knies	works of each period and works nowledge of expository writing to to refine their knowledge of sen	s from other cour to the formal ess tence structure t	ntries and cult ay and argum hrough the sto	n Literature from 1607 to the present, ures with similar themes or styles. entative writing as well as informal udy of verbal, nominative absolutes, Language & Composition course.
LA3310	01007	IB ENGLISH III	FY	1	NPS Pre-IB English II
and in ana	lyzing langua	ge and literature for linguistic s	tructure, cultural	awareness a	nd heightened appreciation.
LA3410	01007	IB ENGLISH IV	FY	1	IB English III
IB Langua acquired ir	escription: ge Al Higher n IB English I	The IB English course is design Level Examination as well as th	ned to prepare str ne AP English Lit ninking, analyzing	udents for bot erature Exam g language an	h the oral and written portions of the . Students continue to refine skills d literature for linguistic structure,
Course De B Languaç acquired ir	escription: ge Al Higher n IB English I	The IB English course is design Level Examination as well as th II. These skills include critical th I heightened appreciation. This	ned to prepare str ne AP English Lit ninking, analyzing	udents for bot erature Exam g language an	h the oral and written portions of the . Students continue to refine skills d literature for linguistic structure,
Course De IB Languaç acquired in cultural aw	escription: ge Al Higher n IB English I	The IB English course is design Level Examination as well as th II. These skills include critical th	ned to prepare str ne AP English Lit ninking, analyzing	udents for bot erature Exam g language an	h the oral and written portions of the . Students continue to refine skills d literature for linguistic structure,
Course De IB Langua; acquired ir cultural aw FL3112 Course De and writing vocabulary	escription: ge Al Higher IB English II vareness, and 06122 escription: g activities. P	The IB English course is design Level Examination as well as the stream of the stream	ried to prepare stree AP English Lithinking, analyzing course carries where the following street is the following street in the following street in the following street is the following street in th	udents for bot erature Exam g language an reighted credi	h the oral and written portions of the . Students continue to refine skills d literature for linguistic structure, t. Acceptance into the IB Program through listening, speaking, reading d reinforced. Additional structures and
Course De IB Language acquired in cultural aw FL3112 Course De and writing vocabulary	escription: ge Al Higher IB English II vareness, and 06122 escription: g activities. P	The IB English course is design Level Examination as well as the II. These skills include critical the III. These skills include appreciation. This III. NPS PRE-IB FRENCH II. Students continue to develop the III. Students continue to develop the III. The III. Students continued emphasis on the III.	ried to prepare stree AP English Lithinking, analyzing course carries where the following street is the following street in the following street in the following street is the following street in th	udents for bot erature Exam g language an reighted credi	h the oral and written portions of the . Students continue to refine skills d literature for linguistic structure, t. Acceptance into the IB Program through listening, speaking, reading d reinforced. Additional structures and
Course De B Languaç acquired in cultural aw EL3112 Course De and writing vocabulary competence EL3113 Course De hrough listemphasis of	escription: ge Al Higher n IB English II vareness, and 06122 escription: g activities. P v are introducte of French 06123 escription: tening, readir on the thema	The IB English course is design Level Examination as well as the III. These skills include critical the III. These skills include critical the III. These skills include critical the III. These skills include the III. The III. Students continue to develop the III. Students continued structures and the III. The III. This course provides students continued emphasis on III.	red to prepare structure AP English Lithinking, analyzing course carries where the AP English Lithinking, analyzing course carries where the fundamental structure of the struct	udents for bot terature Exam g language an veighted credit of the credit	h the oral and written portions of the . Students continue to refine skills d literature for linguistic structure, t. Acceptance into the IB Program through listening, speaking, reading d reinforced. Additional structures and quire a linguistic and cultural French speaking peoples.

INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM Number Credits **NPS SCED NPS** of Per Prerequisite(s) **Course Title** Code Code Semesters Year Course Description: This course provides students extensive practice to perfect skills of French through listening, reading, writing and speaking in a variety of activities. Intensive treatment of text handling through use of authentic documents and regalia is a primary focus to prepare students for the IB French Standard Level Examination. Additionally, as preparation for the internal assessment portion of the IB exam, students record numerous speaking activities, both prepared and spontaneous. Further, students receive extensive practice with writing activities to prepare for the written portion of the IB exam. Students acquire a linguistic and cultural competence of French which provides a multi-cultural awareness of and sensitivity to Francophone peoples. This course carries weighted credit. NPS FL3412 06102 Acceptance into the IB Program PRE-IB SPANISH II Course Description: Students continue to develop the fundamental skills of Spanish through listening, speaking, reading and writing activities. Previously learned structures and vocabulary are reviewed and reinforced. Additional structures and vocabulary are introduced with continued emphasis on thematic topics. Students acquire a linguistic and cultural competence of Spanish which provides a multicultural awareness of and sensitivity to Spanish speaking peoples. FL3413 06103 NPS PRE-IB SPANISH III FΥ NPS Pre-IB Spanish II Course Description: This course provides students considerable practice in developing fundamentals skills of Spanish through listening, reading, writing and speaking activities. Additional structures and vocabulary are introduced with an emphasis on the thematic topics of exploring change, groups in society, and leisure time activities. Text handling through use of authentic documents and regalia is stressed. FL3414 06104 **IIB SPANISH IV** FY NPS Pre- IB Spanish III Course Description: This course provides students extensive practice to perfect skills of Spanish through listening. reading, writing and speaking in a variety of activities. Intensive treatment of text handling through use of authentic documents and regalia is a primary focus to prepare students for the IB Spanish Standard Level Examination. Additionally, as preparation for the internal assessment portion of the IB exam, students record numerous speaking activities, both prepared and spontaneous, on cassette. Further, students receive extensive practice with writing activities to prepare for the written portion of the IB exam. Students acquire a linguistic and cultural competence of Spanish which provides a multi-cultural awareness of and sensitivity to Spanish speaking peoples. This course carries weighted credit. FL3415 06111 **IB SPANISH V** FΥ IB Spanish IV Course Description: This course continues the extensive practice to perfect skills of Spanish through listening, reading, writing and speaking in a variety of activities. The focus of this year of study encompasses all activities of IB Spanish IV and is designed to allow students to gain the confidence needed to complete the IB Spanish Standard Level Examination. A continued emphasis on the thematic topics of exploring change, exploring groups, and exploring leisure is stressed in the areas of the four basic skills. Students gain an appreciation for and a cultural competence of Spanish speaking peoples. This course carries weighted credit. 06303 NPS PRE-IB LATIN 3-1/3-2 FΥ FL3313 1 Latin II Course Description: IB Latin includes the study of advanced Latin grammar, a close textual study of Cicero's In Catilinam. historical background for the First Century B.C. and an introduction to Roman rhetoric. FL3314 06304 FY FY 1 NPS Pre-IB Latin III

INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM						
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)	
selections fr addition to c	Course Description: IB Latin IV focuses on the literature of Virgil and Ovid. The students read <i>Aeneid 4</i> and extensive selections from Ovid's <i>Metamorphoses</i> and his other works. They study literary devices and historical background in addition to continuing a review of pertinent grammar and vocabulary. This course is designed to prepare students for the IB Latin Standard Level Examination and carries weighted credit.					
FL3315	06359	ADVANCED IB LATIN 1/2	FY	1	IB Latin 4-1/4-2	
variety of se addition to c	Course Description: Advanced IB Latin 1 & 2 continues a focus on the literature of Virgil and Ovid. The students read a variety of selections to enhance their understanding of Latin. They study literary devices and historical background in addition to continuing a review of pertinent grammar and vocabulary. Students complete the required assessments for the IB Diploma. This course is designed to prepare students for the IB Latin Standard Level Examination and carries weighted credit.					
SS8110	04151	NPS PRE-IB/AP GOVERNMENT	FY	1	Recommendation of the Instructor	
United State Students stu of government	Course Description: This course is designed to give students both a critical perspective on politics & government in the United States and Virginia. To help students gain knowledge of the world's diverse political structures and practices. Students study general concepts used to interpret American politics, analyze specific case studies, and the historical roots of governments other than selected countries. Students use primary sources to conduct in-depth research, and present the results. Designed to prepare the students for the AP Exam in American government, this course carries weighted credit.					
SS3310	04054	IB HISTORY OF THE AMERICAS	FY	1	NPS Pre-IB /AP Government	
Latin Americ concisely in	Course Description: IB History of the Americas is a college level United States history course integrated with key topics of Latin American history. Students analyze the significance of historical events and learn to express their ideas clearly and concisely in verbal and written form. Students analyze and interpret primary and secondary sources. This course is designed to prepare students for the AP Exam in American history and carries weighted credit.					
SS3410	04106	IB TWENTIETH CENTURY WORLD TOPICS	FY	1	IB History of the Americas	
Course Description: This course provides to students an opportunity to examine 20 th century topics from an international, nolistic approach and to evaluate the reliability of historical evidence. During the first semester students examine the concepts of nationalism, imperialism, communism, fascism, and World War I. The second semester focuses on the post World War I historical events. IB Twentieth Century World Topics and its prerequisite, IB History of the Americas, comprise the sequence designed to prepare the students for the IB History Higher Level Examination. This course carries weighted credit.						
SC3210	03051	NPS PRE-IB BIOLOGY	FY	1	Acceptance into the IB Program	
II in their jun research me instructional	Course Description: This course is designed as an entry-level course for those students who wish to take IB Biology I and I in their junior and senior years. An understanding and application of scientific processes, critical thinking skills, and research methods as they apply to a variety of topics are essential elements of this course. The course utilizes a variety of nstructional techniques including: field trips, laboratory investigations, library investigations, lecture material, and textbook readings. During the first semester the students must complete an independent Scientific Research Investigation (SRI)					
SC3310	03101	NPS PRE-IB CHEMISTRY	FY	1	Acceptance into the IB Program	

INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM						
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)	
topics range laboratory te	Course Description: Pre-IB Chemistry is a rigorous course designed to prepare students for IB Biology I and II. The topics range from the basics of atomic models to the areas of nuclear, organic, and environmental chemistry. In addition, laboratory techniques, mathematical applications and problem solving skills are developed. An independent Scientific Research Investigation (SRI) is required.					
SC3211	03057	IB BIOLOGY I	FY	1	NPS Pre-IB Chemistry	
IB Biology H origins and a	Course Description: IB Biology I is the first segment of a two-year biology sequence designed to prepare students for the IB Biology Higher Level Examination. The curriculum concentrates on the biochemical and cellular basis of life, and the origins and adaptations of microorganisms. The approach to this course is investigatory, emphasizing hands-on experiences, independent research, and higher level thinking skills.					
SC3212	03057	IB BIOLOGY II	FY	1	IB Biology I	
Biology High function in pl investigatory	Course Description: IB Biology II continues the two-year biology sequence designed to prepare students for the IB Biology Higher Level Examination as well as the optional AP Biology exam. The curriculum concentrates on structure and function in plants and animals, evolution of plants and animals, ecology and human biology. The approach to this course is investigatory, emphasizing hands-on experiences, independent research, and higher level thinking skills. This course carries weighted credit.					
SC3411	03157	IB PHYSICS I	FY	1	NPS Pre-IB Algebra II with Trigonometry	
Higher Leve of the interaction The approact	Course Description: This course begins the two-year sequence designed to prepare the students for the IB Physics Higher Level Examination. Students analyze the concepts which explain the features of the natural world primarily in terms of the interactions between matter and energy. They conceptualize physical principles and make technical applications. The approach to this course is investigatory, emphasizing hands-on experiences, independent research, and higher level thinking skills.					
SC3412	03157	IB PHYSICS II	FY	1	IB Physics I	
Course Description: This course continues and completes the study of the IB Physics curriculum. The approach to this course is investigatory, emphasizing hands-on experiences, independent research, and higher level thinking skills. The two IB Physics courses are designed to prepare students for the IB Physics Higher Level Examination and/or AP Physics (optional). This course carries weighted credit.						
MA3204	02072	NPS PRE-IB GEOMETRY	FY	1	Acceptance into the IB	
prepare the arguments, a problem solv	Course Description: Pre-IB Geometry covers the regular geometry objectives as well as additional content and projects to prepare the students for the IB math sequence. This course emphasizes the development of logic, written and oral arguments, and the use of technology to investigate, explore, and verify mathematical properties. Students focus on problem solving, critical thinking, and real-world applications. Students must bring compasses, protractors, and rulers to this class. Graphing calculators are available for class use.					
MA2301	02106	NPS PRE-IB HONORS ALGEBRA	FY	1	NPS Pre-IB Geometry or Geometry with the Recommendation of the Instructor	

INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM									
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)				
Additional II during the la discovery to involving ap	Course Description: This course covers the Algebra 2 / Honors Algebra 2 curricula during the first twenty-seven weeks. Additional IB topics are studied during this time frame. Students study trigonometry units through the study of trig identities during the last nine weeks of the course. Modeling assignments are given throughout each instructional unit, both as a discovery technique and as formal assessment. Each instructional unit concludes with a formal assessment component involving applications of concepts. Higher-level questioning strategies are consistently used in class and on assignments. The students are required to submit an in-depth, content-based project second semester. Graphing calculators are available for use during the class period.								
MA3003	02131	IB MATH STUDIES	FY	1	NPS Pre-IB Algebra II with Trigonometry				
Examination topics from are externa	Course Description: This course is designed to prepare students to take the IB Mathematical Studies Standard Level Examination and carries weighted credit. In addition to an in-depth study of the Analysis curriculum, this course integrates topics from the specified IB curriculum. Following the criteria specified by IBO, students prepare extensive projects, which are externally moderated by IBO examiners. The use of graphing calculators is required for this course. Students who take this course should plan on taking AP Calculus or AP Statistics during their senior year.								
MA3001	02134	MATH METHODS 1-1/1-2	FY	1	NPS Pre-IB Algebra II with Trigonometry				
plan to purs Calculus AE justification graphing ca	sue studies B, with addit of results, a alculator is r		und. The curri ricula integrate tration of reaso	culum covers ed throughout. oning and critic	cal thinking skills. The use of a				
Students co students for	mplete thei the IB Mat	1-1/1-2 IB Mathematics SL is a course that	al assessment ation and the A	process. This	IB Math Methods I I curricula and AP Calculus content. s sequence is designed to prepare the B Exam. The use of a graphing				
AR3102	05154	NPS PRE-IB INTRO TO ART I & II	FY	1	NONE				
Art/Design	Course Description: This is an intensive preparatory course for the IB Program students who wish to pursue one of the IB Art/Design courses as their sixth group selection. Students work with a variety of art media, research the arts of different times and cultures, and gain an appreciation of their own cultural influences.								
AR3001	05154	IB ART/DESIGN 1-1/1-2	FY	1	NPS Pre-IB Introduction to Art/ Design				
exploration. and social of not necessar	Course Description: IB Art / Design 1-1/1-2 allows students to develop new perceptions of their work and self through exploration. Students analyze selected topics or concepts of art and design and the relationships of the cultural, historical and social context of the topics studied. This course is designed for students who are interested in the study of art but are not necessarily skilled in studio processes. The class work consists of a number of student written research workbooks which follow IBO criteria and will be evaluated by an external examiner in lieu of an exam.								
AR3002	05154	IB ART/DESIGN 2-1/2-1	FY	1	NPS Pre-IB Introduction to Art/ Design				

INTERNATIONAL BACCALAUREATE DIPLOMA PROGRAM Number Credits **NPS** SCED **NPS** Prerequisite(s) of Per **Course Title** Code Code Semesters Year Course Description: IB Art / Design 2-1/2-2 allows students to continue to develop perceptions of their work and self through exploration and portfolio development. Students analyze selected topics or concepts of art and design and the relationships of the cultural, historical, and social context of the topics studied. This course is designed for students to improve their skills in studio processes. The mix between group structured and self-structured work is flexible. The class work culminates in both a student-generated solo art exhibit and a number of student written research workbooks, which will be evaluated by an external examiner following IBO criteria in lieu of an exam. AMJ/ **IB THEATRE ARTS** 05052 2 Acting or Theatre AMK Course Description: The theatre course emphasizes the importance of working individually and as a member of an ensemble. Students are encouraged to develop the organizational and technical skills needed to express themselves creatively in theatre. A further challenge for students following this course is for them to become aware of their own perspectives and biases and to learn to respect those of others" (IBO) Students study 4 components: theatre in the making, theatre in performance, theatre around the world, and independent project. AML/ **IB THEATRE ARTS** 05052 IB Theatre 1-1/1-2 AMM 2-1/2-2 Course Description: In year two of the theatre course students "develop their personal research and practice in theatre, and extend their understanding of the ideas, practices and concepts encountered" (IBO) and continue to work on the required assessments from IBO. **IB MUSIC** Acceptance into the IB Program and MU3601 05115 1-1/1-2 participation in band, orchestra or MU3602 2-1/2-2 chorus Course Description: IB Music is a multi-faceted music fundamentals and appreciation class. Course topics include musical notation, harmony, form and analysis, music theory, orchestration, conducting, music technology, world music, and ear training. The main focus of the IB Music class is music performance and/or composition. IB Music students are required to be full-time members of a Granby High School performing organization. Additionally, these students are encouraged to pursue their major instrument or composition independent of their school activities. C2A/ IB PSYCHOLOGY 04257 FΥ NONE C2B 1-1/1-2 Course Description: "IB psychology takes a holistic approach that fosters intercultural understanding and respect. In the core of the IB psychology course, the biological level of analysis demonstrates what all humans share, whereas the cognitive and socio-cultural levels of analysis reveal the immense diversity of influences that produce human behavior and mental processes. Cultural diversity is explored and students are encouraged to develop empathy for the feelings, needs and lives of others within and outside their own culture. This empathy contributes to an international understanding" (IBO) SS3312 **IB THEORY OF** 04304 Acceptance into the IB Program SS3412 **KNOWLEDGE** Course Description:-The International Baccalaureate Theory of Knowledge course challenges students in the areas of critical thinking and the integration of knowledge. Students are taught to make connections among their classroom and non-classroom

Medical & Health Specialties Program

different information systems: mathematics, natural sciences, human sciences, and history.

knowledge and experience as they examine the ethics, value judgments and belief systems of the various disciplines. Topics of study include comparing different ways of thinking, understanding the role of language and logical argument in knowledge, and contrasting

at Maury High School

Entering its thirty first year, the Medical and Health Specialties Program at Maury High School was formed in 1986 to initiate early preparation of junior and senior level students, particularly minorities and females, for careers in the health professions through academic coursework and motivational counseling. Through a special collaboration between Norfolk Public Schools and the Eastern Virginia Medical School many unique experiences enrich and enhance the science coursework for select students. Admission to this program is by application and entry occurs ONLY for entering freshmen students.

Medical & Health Specialties Course Sequence

GRADE 9
BIOLOGY WITH MEDICAL APPLICATIONS
ACCELERATED HEALTH AND PHYSICAL EDUCATION
GRADE 10
CHEMISTRY WITH MEDICAL APPLICATIONS
GRADE 11
ANATOMY AND PHYSIOLOGY
GRADE 12
BIOETHICS FORENSIC SCIENCE EMERGENCY MEDICAL RESPONDERS SPORTS MEDICINE

MEDICAL AND HEALTH SPECIALTIES PROGRAM							
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)		
SC2220	03051	BIOLOGY WITH MEDICAL APPLICATIONS	FY	1	Program students only		

MEDICAL AND HEALTH SPECIALTIES PROGRAM Number Credits **NPS SCED NPS** of Per Prerequisite(s) Code Code **Course Title** Semesters Year Course Description: This course is the first in the sequence of required science classes. Included in the curriculum will be cell theory, bio-chemical processes, scientific investigations and the study of life functions including theories of evolution and natural selection. Specially designed mini-labs will focus on special sense and body systems. Speakers, field trips and peer mentoring will support the curriculum. **ACCELERATED HEALTH &** PE1101 08052 Program students only **PHYSICAL EDUCATION 9** Course Description: All ninth grade MHSP students are required to take the specially designed Accelerated Health component integrated into PE 9. Essentially, this course is an introduction to anatomy and will provide students an overview of the human body. Special focus will include medical applications as they pertain to the human body systems, including the integumentary system, the cardiovascular system, the respiratory system, the skeletal system, the muscular system and the reproductive system. Specific diseases, conditions and treatments as they relate to each of these areas will be covered. Varied enrichment opportunities will enhance the career awareness of the students. Sophomore-level program CHEMISTRY WITH MEDICAL SC2320 03101 FY students only. BioMed and **APPLICATIONS** ACHEPE 9 are required. Course Description: The study of chemistry will take on greater importance to the students in the MHSP as they explore in depth the intermingling between science and medicine. An introduction to the chemical basis of medications, chemical interactions within the body such as ion levels, issues of solubility in relationship to tooth decay as well as reaction rates as they related to body temperature and organic chemistry are but a few of the applications to be explored. Students will have specially arranged field trips to observe surgical procedures, clinical settings and specific lab techniques in practice. ANATOMY/ Junior level program students SC2221 03053 FΥ **PHYSIOLOGY** only. ChemMed required Course Description: Building upon the introduction to anatomy in the accelerated health & PE class, this human anatomy and physiology class will provide a comprehensive, year-long examination encompassing topics covered in all prior MHSP science courses. Students will have an in-depth study of each body systems, including: anatomical structure, skeletal physiology as related to the muscular system; the sensory system, the endocrine, circulatory, lymphatic, immune, digestive, urogenital and respiratory systems as well as homeostasis, diagnostics, scientific terminology and development. Students will attend classes held in the labs of the Eastern Virginia Medical School and have unique learning experiences including working in the cadaver lab and clinical rotations. Senior level program students SC2222 03052 FΥ **BIOETHICS** only Course Description: Students will study ethical issues as they apply to fields such as health care, medical science and medical technologies. Students will be asked to justify and/or refute answers to difficult ethical questions related to topics such as, but not limited to, human cloning, medical research, organ recipients, euthanasia, etc. Students will be given an in-depth look at moral philosophy as it relates to medical, scientific, technological and legal fields. Seniors only SC2201 03999 FORENSIC SCIENCE FΥ 1 Chemistry Course Description: This course presents the scientific principles, laboratory and field methods forensic scientists use to solve problems. Students will take on the various roles of crime scene investigator, scientist and medical examiner in order to collect and evaluate evidence in a problem-solving environment. Topics include DNA technology and its uses, toxicology, anthropology, entomology, evidence law, criminalities and career opportunities. HS1701 14062 SPORTS MEDICINE FY Seniors only This course is designed to introduce the student to the field of sports medicine. Students will look at issues associated with athletic training and sports medicine; focus on anatomy, recognition and treatment of various injuries and conditions

related to the athlete. Labs will introduce the student to hands-on evaluation and treatment of injuries.

MEDICAL AND HEALTH SPECIALTIES PROGRAM							
NPS Code Code Course Title Number of Semesters Credits Per Semesters Year Prerequisite(s)							
HS1703	14062	EMERGENCY MEDICAL RESPONDER	FY	1	Seniors by application only		

Specifically geared for students who have an interest in pursuing studies in a health or medical related career, the Commonwealth of Virginia EMS Emergency Medical Responder (EMR) curriculum will be taught in this class. Lectures, group-work, projects, practical lab work and other activities will prepare students to sit for two exams; students who successfully complete the course and pass these exams will be awarded national and state level certification in EMR.

The Leadership Center for the Sciences and Engineering at Norview High School

The Leadership Center for the Sciences and Engineering (LCSE) is a smaller learning community within Norview High School, geared for gifted, high-achieving students from across the district. LCSE students are enrolled in a four-year rigorous curriculum consisting of Honors and Advanced Placement courses, with considerable emphasis in math and science. The program culminates with the students' LCSE Senior Project, providing the opportunity for students to practice independent research, collaborative teamwork, and communication skills. In addition, LCSE students receive two years of formal instruction and training in leadership development, and contribute to their school and community through extracurricular involvement and volunteer work.

The overall design of the LCSE program guides students towards possible college degrees and careers in science, technology, engineering, and/or math (STEM). However, an ultimate goal is to not only graduate students fully prepared to be successful in college, but also equip them with the skills necessary to become effective leaders within our communities.

The majority of LCSE core classes are cohorted, especially during 9th and 10th grade. LCSE students also take custom courses unique to the LCSE program which are described below, following the LCSE Course Sequence.

LCSE Program Requirements

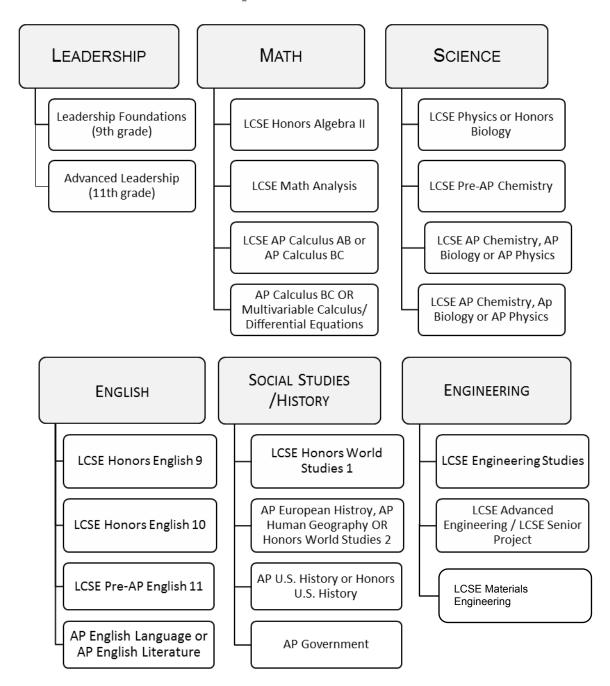
To graduate from the LCSE program at Norview High, students must:

- Enroll in at least one high-level math and one high-level science course in each of the four years within the LCSE program
- Complete LCSE Leadership Foundations and LCSE Advanced Leadership
- Complete LCSE Engineering Studies course and LCSE Advanced Engineering
- Complete three STEM-related course elective credits
- Complete/present a LCSE Senior Research project
- Complete a minimum three years of one foreign language or two years of two languages
- Maintain a minimum GPA of 2.5+ in math and science, with no failing grades
- Complete 200+ volunteer hours within the community and within Norview High
- Participate in at least one VHSL extra-curricular activity or sport each year
- Maintain a clean discipline history

Upon successful completion of all the above, the LCSE students will receive the following:

- LCSE Award certificate, noting the student's accomplishments within the program
- This certificate is also sent to colleges the student applies to, along with a special LCSE Transcript Addendum outlining the components of the program
- LCSE seal on the student's high school diploma
- LCSE graduation cord and patch
- Recognition at the annual LCSE Graduation Ceremony

LSCE Course Sequence



THE LEADERSHIP CENTER FOR THE SCIENCES AND ENGINEERING						
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)	
SL1403	22999	LEADERSHIP FOUNDATIONS	FY	1	Must be enrolled in the LCSE specialty program as a 9 th grader.	

Course Description: This class challenges the students to define leadership in all its forms. Students explore leadership theories and philosophies. The teacher then releases the students to prepare power point presentations on various leadership topics. Students design and present various personal presentations including a leadership lesson that they design and present as though they were the teacher. The course challenges students to get to know themselves and students, learners, individuals, and ultimately, leaders!

SL1401	22999	ADVANCEDLEADERSHIP (POWER CODE)	FY	1	Must be enrolled in the LCSE specialty program as an 11 th grader.
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Course Description: This course challenges the advanced student to fully define leadership on their own terms. They explore leadership theory more deeply and then create their own theories about leadership and its execution. Next the students begin to apply the concepts of servant leadership that they first learned in Leadership Foundations. The students work together to design a leadership project that will be done either in the school or in the community. They both design and execute the project during the rest of the school year. The remainder of the year is spent developing their personal leadership through financial literacy training, protocol and etiquette training, and the development of personal marketing tools: a resume and portfolio capable of getting them into the university of their choice. They will also create and design leadership lessons to present to their classmates. The year will culminate with a presentation to teachers, parents, and administrators to showcase their leadership development to this point.

ST1307 21005 LCSE ENGINEERING STUDIES	FY	1	Must be enrolled in the LCSE specialty program as a 9 th or 10 th grader.
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Course Description: Course Description: The purpose of the LCSE Engineering Studies course is to explore and engage in the engineering design process. Students will learn how to define, assess, and solve problems in a logical manner. To do this, students study laws of physical systems (Electromagnet, Thermal, Mechanical, Fluid), but apply these laws to solve a challenge. Students also learn what it will take to become and engineer on both an educational and professional level. Although the course has "engineering" in the title, students do not have to desire to become an engineer to benefit from this class. This is meant as a career exploration opportunity to allow LCSE students to again a better idea on future aspirations to pursue. The course is also in preparation for NOCTI's pre-engineering certification, which students complete at the end of the year. (Required 9th or 10th grade).

Course Description: The LCSE Advanced Engineering course provides senior LCSE students the opportunity to design and create a new services or product that meet a personal or community need. Working within the Engineering Design Process, students integrate and apply their understanding of mathematics, science, and technology across a variety of personally meaningful projects that will draw out their individual and team leadership skills. The course is an active, creative, hands-on course, and incorporates the students' required LCSE Senior Project. (Required 12th grade).

MF1310	13052	LCSE MATERIALS ENGINEERING	FY	1	Must be enrolled in the LCSE specialty program any year 9-12.
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Course Description: Materials Engineering (aka materials science) is the science of all materials – ceramics, composites, electronic materials, metals and polymers with emphasis on the study of the properties and uses of all engineering materials. The materials scientist determines what materials to use, and how to process the material into a useful component; this is a critical part of all manufacturing. This specific LCSE Materials Engineering course was designed specifically for LCSE students and taught at a higher level. Students apply both complex math and physics principals to real world problems and solutions. This course counts as one of the three required STEM electives all LCSE students take throughout the four year curriculum.

THE LEADERSHIP CENTER FOR THE SCIENCES AND ENGINEERING						
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)	
LA4352	01003	LCSE PRE-AP ENGLISH 11 (Technical Writing)	FY	1	Must be enrolled in the LCSE program as an 11 th grader.	

Course Description: The Pre-AP LCSE English 11 / Technical Writing class provides LCSE students instruction and practice in the technical writing process. The course focuses on the basic steps of analysis, development, and revision, including instruction and practice on basic forms of technical communications, business correspondence, and procedures for research writing. The course will also include instruction and practice in oral communication/presentation skills. At the year's end, LCSE students will have finished and presented a research proposal in preparation for a capstone LCSE senior project.

LA4554	22999	LCSE SENIOR PROJECT INDEPENDENT STUDY	FY		Must be enrolled in the LCSE specialty program as a 12 th grader
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Course Description: The LCSE (Leadership Center for the Sciences and Engineering) Senior Capstone Project Class is independent study time during which students meet in an assigned classroom to do research, build respective project presentations and/or displays, meet with assigned mentors, possibly visit a worksite or college research facility, and complete additional field work or other research requirements associated with their project. This course/independent study is unique to LCSE seniors only, and all seniors are required to complete the project as part of the LCSE graduation requirements.

Academy of Visual and Performing Arts at Booker T. Washington High School

The Visual and Performing Arts Academy of Booker T. Washington High School, offers the opportunity for students who have an interest in the arts to select courses that prepare them for postsecondary advanced studies or for a faster entry into arts-related occupations. The balance between artistic development and academic preparation is at the heart of the Academy program. Students are exposed to the humanities and have the opportunity to select a course of study that will best meet their needs and interests.

Academy of the Arts Course Sequence

CATEGORY							
Draw/Paint	Ceramics/Sculpture	Photography	Theatre	Dance			
Intro to Art	Intro to Art	Photo Foundations 1,2	Oral Communication	Intro to Dance			
Draw/Paint 1,2	Ceramics/Sculpture 1,2	Photo 3,4	Theatre	Dance Explorations 1,2			
Draw/Paint 3,4	Ceramics/Sculpture 3,4	Photo 5,6	Art of Acting or Performance Ensemble	Dance Explorations 3,4			
AP Studio Art Drawing	AP Studio Art 2-D	AP Studio Art 2-D	Technical Theatre	Dance Ensemble			

CATEGORY							
Music Lecture	Vocal Music	Band	Orchestra				
Music Literature	Girls' Chorus (Non-Academy)	Beginning Band (Non-Academy)	Concert Orchestra				
Fundamentals of Music Theory	Performance Ensemble or Piano Lab	Intermediate Band or Jazz Ensemble or Percussion Ensemble	Chamber Orchestra				
AP Music Theory	Concert Chorus	Concert Band or Jazz Ensemble or Percussion Ensemble	Chamber Orchestra				
Foundations of Arranging & Orchestration/ Basic Conducting	Selected Choral Ensemble	Concert Band or Jazz Ensemble or Percussion Ensemble	Chamber Orchestra				

ACADEMY OF VISUAL AND PERFORMING ARTS

NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)	
MU1401	05149	MUSIC LITERATURE AND SOUND	FY	1	Membership in the Academy	
include: list experiment acquainted	tening to diffe ting with mak I with how ele	erent kinds of music; comparing sty king music through the use of vario	les and nationaus equipment, co create compo	alities; studying technology, ar sitions; explor	nd creative activities; becoming ing students' special interest areas in	
MU1402	05116	FUNDAMENTALS OF MUSIC THEORY	FY	1	Membership in The Academy, performing organization and approval of the music staff	
form); rhyth keyboard a	nm and mete and conductin	er, basic sight-singing and ear traini	ing skills; introd	uctory harmor	scales, intervals, chords, part-writing, ny and composition; exposure to r value to prospective music majors, is	
MU4404	05114	ADVANCED PLACEMENT MUSIC	FY	1	Music Theory	
Course Description: This is a college level, sequential course in music theory and literature. It is designed to challenge the talented music student and the talented academic student with a music background. The course prepares the student to pass the Advanced Placement examination administered by the College Entrance Examination Board in May. The ultimate goal is to develop understanding listeners who respond fully to music. The course stresses aural and visual understanding of musica structure and compositional procedures; the development of rigorous listening techniques; acquaintance with a variety of styles and a broad repertory; vocabulary appropriate for describing responses and value judgments. Note: Candidates should consider one or any combination of the following as helpful prerequisites: music literature courses, theory courses, special recommendation by the music teacher, current enrollment in one of the advanced school performing groups, or active involvement in private study/performance.						
MU1503	05116	BASIC CONDUCTING	FY	1	Foundations of Arranging and Orchestration	
musical or	ganizations	of various sizes and abilities; trans	spositions; sco	re study, non-	ue of the baton; methods of adapting verbal communication from the und instrumental recordings and/or liv	
MU1405	05149	MUSIC EDUCATION LEADERSHIP	FY	1	Successful completion of at least 2 years in most advanced level band, orchestra, or chorus; current enrollment in advanced music class: recommendation of	

current enrollment in advanced music class; recommendation of teacher, senior status Course Description: Music Education Leadership Training (MELT) is an elective course designed specifically for students who have successfully completed at least two years of the most advanced level of band, orchestra, or chorus and completed the MELT preparation program; have director's recommendation; and wish to pursue leadership training in the Music Education and Peer Facilitator program. The MELT program provides leadership opportunities for eligible twelfth grade music students to assist with instruction in elementary, middle, and high schools. Music Education Leadership Training students receive training and supervision from their music director and the cooperating music teacher. The MELT program is designed to further the development of students' musical training by providing opportunities for leadership and communication skills development. The program enables students to grow in confidence and self-concept while providing younger music students individualized assistance. Upon completion of requirements established for the program, students will assist with instruction in an assigned school. Participants will receive a grade as outlined for the regular grading period. Full elective credit for graduation may be earned. This course may be repeated for credit.

Full elective credit for graduation may be earned. This course may be repeated for credit. MU1202 05110 GIRLS CHORUS FΥ 1 None Course Description: This is a preparatory class for concert chorus or select ensemble. No previous choral experience is necessary. Emphasis is placed on learning to use the voice correctly and strengthening part singing. Instruction includes development of basic music skills and choral techniques. On the recommendation of the director, students may be eligible for District Chorus audition. Performance requirements may include both in-school and out-of-school hours. This course may be repeated for credit. MU1204 05110 **CONCERT CHORUS** FΥ Approval of instructor Course Description: This is the advanced choral performing group. It is an advanced training level for all students enrolled. Membership is by audition or by choral teacher recommendation. At least one required performance is scheduled during each semester. These performances include classroom assignments, school assemblies, annual winter and spring concerts, and any other concert dates which the group accepts. Attendance outside of school hours is required. Optional opportunities available through audition are: District Chorus, All-Virginia Chorus for selected eligible juniors and seniors who have participated in the District event, and Honors Choir for eligible seniors. This course may be repeated for credit. SELECTED CHORAL Membership in Concert Chorus and MU2205 05111 **ENSEMBLE** approval of instructor Course Description: Teacher selectivity controls membership in these small groups which are limited by vocal balance and by established numbers. In addition to performances provided by Concert Chorus, these groups assume most of the responsibility for serving civic and community organizations. Performances will be more numerous and will contain a high degree of seasonal demands. Special outfits may be necessary and attendance outside of school hours is required. Optional opportunities available through audition are: District Chorus, All-Virginia Chorus for selected eligible juniors and seniors who have participated in the District event, and Honors Choir for eligible seniors. This course may be repeated for credit. MU1101 FΥ 05101 **BEGINNING BAND** None Course Description: This class provides an opportunity for students who have not had any prior instruction on wind or percussion instruments. MU1102 05101 INTERMEDIATE BAND FΥ Approval of instructor Course Description: This class provides an opportunity for students to continue their development of the basic skills and understanding of music fundamentals which will prepare them for participation in the school's advanced performing groups. It also provides an opportunity for students who were started on basic instruments to select one of many other instruments not considered as basic but needed for complete instrumentation in all instrumental music organizations. This group provides limited opportunity to participate in the music activities of the school. This course may be repeated for credit. MU1103 05101 FΥ **CONCERT BAND** Approval of instructor

Course Description: The membership of this organization consists of the advanced performers in the school. Students in this group have demonstrated knowledge of the basic skills necessary for performance and have been recommended for membership by their instrumental music teacher. The organization will provide an opportunity for students to participate in the musical activities of their school, city, and various musical activities throughout the Tidewater area sponsored by local and state organizations. The basic fundamentals of marching techniques may be incorporated in the instructional program of the band class. Students will be provided an opportunity to participate in local and school sponsored parades. Attendance outside of school hours is required. This course may be repeated for credit. Membership in MU1104 05106 JAZZ ENSEMBLE FΥ Concert Band or Orchestra and consent of instructor Course Description: Jazz Ensemble is a performing arts class. It is made up of students who have an interest in this American art form. The course uses appropriate musical arrangements to teach the sound and style of jazz. This course may be repeated for credit. MU1107 05106 PERCUSSION ENSEMBLE FΥ Approval of instructor This class is open to students interested in developing percussion skills. Special attention will be given to techniques on all percussion instruments as well as expanded ensemble literature. A sense of rhythm and a general knowledge of notation are necessary. This course may be repeated for credit. MU1302 05104 CONCERT ORCHESTRA FY Approval of instructor Course Description: This orchestra in the senior high school is for the more advanced string players. In schools with more than one level of orchestra, enrollment may be limited to sophomores, juniors, and seniors. A wide range of orchestral music literature is studied and performed. Group activities include participation in school concerts, district music festival, and Regional Orchestras. Advanced members are encouraged to audition for and participate in the Strolling. Home practice and attendance outside of school hours are required. This course may be repeated for credit. One year of intermediate Strings or MU2303 05106 CHAMBER ORCHESTRA FΥ 1 Concert Orchestra and approval of instructor Course Description: Chamber Orchestra is designed for the self-motivated string player. The teacher selectively controls membership, which is limited by instrumental balance. This is an advanced performing ensemble and students must be able to exhibit advanced technical proficiency on their instruments. These students will already exhibit motivation, self-discipline, and responsibility to the group. The Chamber Orchestra will assume many responsibilities for serving community and civic organizations. Group activities include District Festival, and Senior Regional Orchestra. Students are encouraged to study privately and to audition for and participate in the Strolling Strings. Home practice and attendance outside of school hours are required. A spring trip/competition may be scheduled. This course may be repeated for credit. Performing organizations, Approval A1603 05099 PERFORMANCE ENSEMBLE FΥ of Instructor Course Description: This course is comprised of acting, singing and dancing techniques. Choreography is staged and produced from various Broadway musicals. Membership in the Academy and A1508 01151 ORAL COMMUNICATION FΥ approval by the instructor Course Description: This course will help you refine your speaking skills. You will write and present several kinds of speeches, participate in discussion groups and debates, and practice reading aloud to communicate the thoughts and feelings of others. You will critique your own speeches as well as those of your classmates.

FY

None

LA1602

05099

THEATRE

Course Description: In this course, you will examine the historical framework of the theater and of selected plays; you will be involved in performance activities; you will participate in production activities to mount the plays, and you will write about varied aspects of the theater, including reviews of plays.

LA1600 05059 THE ART OF ACTING FY 1 Theatre

Course Description: In this course, you will acquire skills in voice, body movement, interpretation, and delivery. Because acting is the most demanding form of the performing arts, this course is designed to exercise sensitivity, concentration, illusion, voice, memory, and body movement, culminating in the presentation of scenes and various skits. In addition to other writing assignments, you will be required to keep a journal.

A1604 05056 TECHNICAL THEATRE FY 1 Theatre

Course Description: This course encompasses a hands-on experience in backstage rigging of lights, use of fly system, cyclorama, and set design.

The Academy of Leadership and Military Science at Lake Taylor High School

The Academy of Leadership and Military Science is a collaborative venture between Norfolk Public Schools and a number of community, private sector, government, higher education, and military agencies. The small learning community of the Academy is comprised of cluster scheduling of core, foreign language, naval science and leadership classes, as well as year-round internships with community partners.

Academy Course Sequence

GRADE 9					
NAVAL 1					
GRADE 10					
NAVAL 2					
GRADE 11					
NAVAL 3					
GRADE 12					
NAVAL 4					
The Academy of Leadership course is taken all four years as an after-school commitment.					

U.S. NAVY JROTC						
NPS Code	SCED Code	NPS Course Title	Number of Semesters	Credits Per Year	Prerequisite(s)	
Ro1505	22999	ACADEMY OF LEADERSHIP AND MILITARY SCIENCE	FY	1	None	

Course Description: The Academy of Leadership and Military Science is a collaborative venture between Norfolk Public Schools and a number of community, private sector, government, higher education, and military agencies. The small learning community of the Academy is comprised of cluster scheduling of core, foreign language, naval science and leadership classes, as well as year-round internships with community partners.

Ro1501 09101 NAVAL 1 FY 1 None

Course Description: Naval Science 1 introduces students to the meaning of citizenship, the elements of leadership, and the value of scholarship in attaining life goals; engender a sound appreciation for the heritage and traditions of America, with recognition that the historically significant role of sea power will be important in America's future; develop in each cadet a growing sense of pride in his/her organization, associates, and self. These elements are pursued at the fundamental level. The course includes introduction to the NJROTC program; Introduction to Leadership, Naval Ships; Mission and Organization, The Nation, Navy and the People in American Democracy, Maritime Geography, Sea power and Challenge, Naval History through 1815, Introduction to Navigation and Time, Basic Seamanship, Oceanography, Health Education, First Aid, and Drugs, Alcohol and Tobacco Abuse Prevention.

Ro1502 09102 NAVAL 2 FY 1 Naval 1

Course Description: Naval Science 2 builds on the general introduction provided in Naval Science 1, to further develop the traits of citizenship and Leadership in cadets, introduce cadets to technical areas of naval science, and engender a deeper awareness of the vital importance of the world oceans to the continued well-being of the United States. The course provides ongoing instruction in leadership theory, Naval Orientation and Career Planning, Citizenship in the U.S. and Other Countries, Naval History: 1815 through 1930, Naval Ships and Shipboard Evolutions, Naval Weapons: Gunnery, Guided Missiles and Mines, Navigation Fundamentals and Rules of the Road, Small Boat Seamanship, Meteorology and Weather, and Survival Training and Orienteering.

RO1503 09103 NAVAL 3 FY 1 Naval 2

Course Description: Naval Science 3 broadens the under-standing of students in the operative principles of military leadership, the concept and significance of teamwork, the intrinsic value of good order and discipline in the accomplishment of objectives, the fundamentals of American democracy, and to expand their understanding of naval <u>academic</u> subjects. The course provides ongoing instruction in leadership and discipline, Military Justice, Astronomy, International Law and the Sea, National Strategy, Sea Power and Naval Operations, Naval History: 1930 through the Nuclear Age, Naval Intelligence and National Security, Maneuvering Board, Challenges of Future Navy Research, and Electricity and Naval Electronics.

Ro1504 09104 NAVAL 4 FY 1 Naval 3

Course Description: Naval Science 4 focuses solely on practical leadership. The intent is to assist the senior in understanding leadership and improving their leadership skills by putting them in positions of leadership, under super-vision, then helping them analyze the reasons for their varying degrees of success through the year. Classroom activities include seminars, reading assignments, classroom presentations, & practical work with younger cadets. The course curriculum includes instruction in theoretical and applied aspects of leadership, training, and evaluation of performance. Students will become aware of the techniques used to create motivation, develop goals and activities for a work group, and the proper ways to set a leadership example. Cadets will also apply these principles when dealing with younger cadets in the areas of military drill and inspections, athletic events, and in other school activities.

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