

A planning guide for junior high and high school students and their parents.


SYLVANIA NORTHVIEW HIGH SCHOOL


## Sylvania Northview High School

5403 Silica Dr.
Sylvania, Ohio 43560
www.sylvanianorthview.org
Administration 419-824-8580
Mark Pugh
Gracy Hinojosa-Lloyd
Libby McIlwain
Chris Irwin
Principal
Assistant Principal Teaching \& Learning Assistant Principal Student Services Athletic Director

Guidance 419-824-8715
High School Mission Statement
Sylvania Northview High School believes that all students will be empowered with the skills and strategies to be life long
learners in a respectful caring,

Crystal Burnworth
Melanie Rogers
Kate Henk
Stacie Wachowiak
Brian Hede

School Counselor
School Counselor School Counselor School Counselor School Counselor

## Sylvania Schools

4747 N. Holland-Sylvania Rd. Sylvania, Ohio 43560

Superintendent's Office 419-824-8500


Board of Educatio
Julie Hoffman
Jime Hoffman
Kimberly Conk
Greg Feller
Ruslan Slutsky
Shannon Szyperski

## School District

## Vision Statement

To be an exceptional public school district that teaches and inspires students to contribute to society in meaningful and compassionate ways.

## Mission

To prepare students to be life-long
learners and engaged citizens.

## Athletic Directo

Chris Irwin

Dear Students and Parents,
We are very excited about the 2021-2022 Sylvania Northview Program of Studies, as we offer a variety of exciting courses of study, which will enhance your student's academic experience. Northview students continue to have several specialized diploma offerings that allow them to immerse themselves into their areas of interest as well as help set them apart from other college applicants down the road:

- Academic Honors Diploma
- AP Capstone Diploma
- ARTS Honors Diploma
- Career Tech Honors Diploma

Students, as you begin to select your classes for next year, keep in mind the individual interests that you are developing. Talk to the adults in your life about your hopes, plans, and dreams. Remember that high school, college and post-secondary education serve as opportunities to explore who you are as you advance on the path to your ultimate career goals. Also, please pay extra attention to the special information section, which explains adding and dropping classes, and other pertinent information.
Parents, please ask questions of Northview's faculty and staff, and make suggestions so that we can continue to meet the individual learning style of your student. In addition, please assist your child in the course selection process to ensure that he or she is taking classes aligned with his or her future goals.

The following counselors and administrators are available to assist you on your journey
Counselors:

- Mrs. Crystal Burnworth $(A-C o)$
- Mr. Brian Hede (Cr-Hi)
- Mrs. Melanie Rogers (Ho-Mc)

Assistant Principals:

- Mrs. Libby McIlwain - Student Services

We hope you have an enjoyable and successful school year and are looking forward to helping you achieve your career goals, whatever they may be.

Sincerely,
Mark Pugh
Principal

- Mrs. Kate Henk (Me-Sc)
- Mrs. Stacie Wachowiak (Se-Z)
- Mrs. Gracy Lloyd - Curriculum \& Instruction
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## General Information 2021-2022



## STATEMENT OF COMPLIANCE WITH FEDERAL LAWS

The Sylvania Schools District complies with federal laws to prohibit discrimination in programs and activities receiving federal assistance.

Title VI of the Civil Rights Act of 1964 prohibits discrimination on the
basis of race, color, or national origin.
Section 504 of the Rehabilitation Act of 1973 prohibits discrimination on the basis of an individual's disability.

Title IX of the Education Amendments of 1972 prohibits discrimination on the basis of sex
The Age Discrimination Act of 1975 prohibits discrimination on the basis of age
The Sylvania Schools District also complies with the Family Education Rights and Privacy Act of 1974, which grants to parents/guardians the rights to examine their children's official school records.

The Sylvania Schools District does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups.

## NOTICE TO STUDENTS

The Board of Education is committed to equal opportunity in education and employment.
Qualified students shall not be denied admission to the public schools, or to a particular course or otherwise discrimiQated against on the basis of race, color, national origin, sex, or disability, or any other basis of unlawful discrimination. To carry out these policies, the following individuals have been designated to coordinate compliance within designated areas. Questions, requests for information or complaints should be directed to the appropriate office or person listed below

System Wide Compliance Coordinator

> Mr. Keith Limes

Bradley J. Rieger Building
Phone: (419) 824-8531

## Title VI Compliance Coordinator

 (Non-discrimination on basis of race, color national origin)
## Contact: Ms. Rose Gaiffe Bradley J. Rieger Building 4747 N.Holland-Sylvania Rd.

 Phone: (419) 824-8594
## Career Technical Education

 Compliance Coordinator
## Contact:

Mr. Alex Clarkson Bradley J. Rieger Building 4747 N.Holland-Sylvania Rd. Phone: (419) 824-8578

Americans with Disabilities Act and Section 504 Coordinator (Non-discrimination on basis of disability)

Contact: Ms. Rose Gaiffe Bradley J. Rieger Building 4747 N.Holland-Sylvania Rd. Phone: (419) 824-8594

Title IX Compliance Coordinato (Non-discrimination on basis of gender)

Contact: Mr. Robert Verhelst Bradley J. Rieger Building 4747 N.Holland-Sylvania Rd Phone: (419) 824-8583

## Guidance and Counseling Services

Each student at Sylvania Northview High School is assigned a counselor. The Guidance Office telephone
number is 419-824-8715. Counselor assignments are alphabetical:

| Mrs. Crystal Burnworth .................. A-Co | cburnworth@sylvaniaschools.org |  |
| :--- | :--- | :--- |
| Mr. Brian Hede ............................ $\mathbf{C r}$-Hi | bhede@sylvaniaschools.org <br> M. Melanie Rogers.................... Ho-Mc <br> mrogers@sylvaniaschools.org <br> Mrs. Kate Henk........................ Me-Sc | khenk@sylvaniaschools.org |
| Mrs. Stacie Wachowiak............... Se-Z | swachowiak@sylvaniaschools.org |  |

Students are encouraged to visit the guidance office to see their counselors. Parents are welcome to phone for an appointment with their student's counselor. Additional information is available to parents and students through the school newslet ter, Wildcat Weekly, as well as on the Northview Guidance Webpage:
www.sylvanianorthview.org (Click "Guidance")
Some areas in which counselors may be of help:
The Student and High School
Course selection and scheduling
Coping with the demands of high school
Opportunities for involvement in school and community life
Administration and interpretation of standardized tests

## The Student as a Person

Understanding oneself - one's strengths and limitations
Discussion of personal concerns, friends, relationships to others
Discussion of personal concerns, friends, relationsh
Family situations which affect school performance
Referral to school and community resources for psychological or psychiatric help,
family counseling, medical needs
The Student and Their Future
Career opportunities for post-high school education, colleges, and technical schools
Applications to colleges and technical schools.

## STUDENT GUIDE TO SUCCESS

PARENTS:

1. Know your child's schedule and teachers.
2. Keep in contact with school - be visible
3. Attend as many functions as possible.
4. Remain an active part of child's education.
5. Contact counselors for updated information.
6. Use PowerSchool Account.

STUDENTS:

1. Keep all work up until exams.
2. Develop an organizational syste
. Use your agenda book daily
3. Utilize the extra help programs; math tutoring, guided study hall, and after school intervention.
4. Keep in touch with your teachers - know how and when to talk to them
5. Use PowerSchool Account.

## GRADUATION PARTICIPATION REOUIREMENTS

Graduation participation will be based on Sylvania City School District Board of Education policy.
Beginning with the class of 2018, students must pass the Ohio Core Curriculum, participate in all Ohio State Tests (OST), and meet an approved pathway to graduation defined by the Ohio Department of Education. Link to the requirements http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements.

All students must participate in commencement practice in order to participate in commencement.

## EARLY COMPLETION (GRADUATION)

Students may be eligible for early completion. A student desiring to complete his/her credits before the spring of their senior year must meet with their counselor to discuss if this is a possibility. If the student has all the pre-requisites that are needed, the next step would be for the student/parent to make an appointment with the principal and counselor by the 5th day of the start of the senior year to ensure correct scheduling

Seniors who graduate early are not eligible to participate in extracurricular activities during the second semester. However, sport seasons that overlap the time of early graduation may be completed. January graduates are ligible to participate in the June graduation ceremony.

## STUDENT RECOGNITION (GRADUATION)

For the graduating classes of 2018 and beyond:
The class ranks of students will be calculated and reported consistent with board policies and guidelines, but will not be published.

| Honor | G.P.A. |
| :---: | :---: |
| Cum Laude | $3.5-3.749$ |
| Magna Cum Laude | $3.75-3.999$ |
| Summa Cum Laude | 4.0 and above |

Students will be recognized at graduation according to the honors listed above.

## OHIO COLLEGE ENTRANCE RECOMMENDATIONS

4 credits of English
credits of Social Studies
4 credits of Science
4 credits of Mathematics
2 or 3 credits of World Language
1 credit of Fine Arts

## Checklist for College Planning

| WHEN TO BEGIN | WHAT TO DO | HOW TO DO IT |
| :---: | :---: | :---: |
| Freshman and sophomore years | Become familiar with college entrance requirements and continue career exploration activities. Which courses in your high school curriculum satisfy college requirements? Do you have a plan for extracurricular involvement? | Work with parents, teachers, and counselors to create a four-year high school curriculum plan to satisfy your goals. Try job shadowing. Get involved at school and in your community. |
| September - March of junior year | Think about your reasons for going to college. What are your goals? What learning opportunities are most important? Do your college plans include career plans? | Talk with your parents, counselors, teachers, and friends. Investigate possible career options and degree level required. |
| January - March of junior year | Identify important factors in choosing a college. Two-year or four-year? Locations? Cost? Kind of atmosphere? Variety of study programs available? Entrance test requirement? | Focus on your goals and interests. Consult college guidebooks. Explore colleges on the Internet. Prepare for your college admission test. |
| March - August of junior year | List colleges you are considering and collect information. Have you included all possible choices? What information do you need? How can you get it? | Attend college fairs and college night programs. Prepare for and visit colleges. Take appropriate college admission test. |
| June - December of senior year | Compare the colleges on your list. Have you weighed pros and cons carefully? Which colleges will meet your needs? | Continue visiting colleges. Organize information into detailed, useful comparisons. |
| August - December of senior year | Apply to your "choice" colleges. Do you have all the necessary forms? Are you sure of the application deadlines? | Continue visiting colleges. Organize information into detailed, useful comparisons. |
| October - February of senior year | Apply for financial aid. Have you investigated all possible sources of aid? When should you apply? | Consult financial aid office. Secure forms and note deadlines. Complete the FAFSA after October 1. |
| November - May of senior year | Make some final decisions. What additional preparation might be helpful? Should you consider summer school? Do you feel comfortable with your final choice? | Confer with parents and counselors Confirm your decision, and decline other admission offers. Show initiative. |

## Distinguished Graduation Options

## GLOBAL STUDIES CAPSTONE

The Global Studies Diploma program focuses on promoting global competency and an enhanced worldview for high school students. Students who participate in the Global Studies Diploma program will participate in a set of educational activities and experiences in their community that will challenge them to explore and engage with other cultures. The goals of this program are to help students develop cultural awareness, empathy and advocacy and to prepare students with the 21 st century skills needed for success in the globalized world.

The Global Studies Diploma program consists of 4 concentrations: Celebrate Culture, Deeper Investigation through Globally Significant Research, Communicate Effectively, and Action. Each concentration should take students 1 yea conple. The or internship. Students completing the capstone project will enroll in the new Global Studies Capstone course After mpleting the program, students will receive the Global Studies Diploma recognition from the World Affairs Council Northwest Ohio.

## AP CAPSTONE

The College Board's AP Capstone is an innovative college-level program based on two new courses - AP Seminar and AP Research - that complement and enhance discipline-specific AP courses.
The program provides students with an opportunity to engage in challenging scholarly practice of the core academic kills necessary for successful college completion. The ability to think independently, write effectively, research, collaborate, and learn across disciplines is essential for success in college, career, and beyond.

Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing will receive the AP Capstone Diploma. This signifies their outstanding academic achievement and attainment of ollege level academic and research skills. Students who earn scores of 3 or higher in both AP Seminar and AP Research but not on four additional AP Exams will receive the AP Seminar and Research Certificate.

## OHIO DIPLOMA WITH HONORS

## Ohio offers several options for Honors Diplomas, including

- Academic Honors
- Career Tech Honor

STEM Honor

- Arts Honors

Please check the table on page 13 for detailed requirements for each Honors Diploma.

## DIPLOMA SEALS

Students will have to earn two of the following diploma seals, choose those that line up with goals and interests.
Ohio Means Jobs Readiness Seal
Industry-Recognized Credential Seal
College-Ready Seal
Military Enlistment Sea
Citizenship Seal
Science Seal
Honors Diploma Seal
Seal of Biliteracy
Technology Seal
Community Service Seal
Fine and Performing Arts Seal
Student Engagement Seal

## PRESIDENTIAL ACADEMIC FITNESS AWARD

Granted for excellence based on:

1. overall point average ( 3.5 on a 4 point scale)
2. outstanding scores on the SAT or ACT ( $80 \%$ percentile
3. earn an average score of 4 or higher on all of the EOC exams.

## NCAA ELIGIBILITY

http://www.ncaa.org/student-athletes/future
Students who wish to participate in College Division I or Division II sports must now be certified by the National Collegiate Athletic Association (NCAA). Eligibility requirements are subject to change; therefore, students should begin thi process early in their junior year with their counselors

The NCAA has approved the following courses for use in establishing the initial-eligibility certification status of studen athletes from Northview High School:

## English

Honors English 9
English 10
Honors English 10
American Literature
AP English Lit \& Comp AP English Lang \& Comp Creative Focus (SV)
Creative Writing
Debate
Public Speaking
Senior Humanities
Senior Composition \& Literature AP Language and Composition AP Literature and Composition
Oral Communications
Junior Humanities
American History Through Film

## Social Science

Social Science
American Government
AP US Government
American History
AP European History
AP World History
AP Macroeconomics
AP Microeconomics
AP US History
Contemporary Law Geography
Global Studies Capstone
AP Economics
Psychology I
AP Psychology
Sociology
Honors World Studies

Natural/Physical Science
Honors Anatomy
Anatomy
Astronomy I
Astronomy
Biology
Biochemistry
Chemistry
Chemistry AP
Environmental Science I
Environmental Science II
Environmental Science AP
Geology
Zoology I
Zoology II
Physics I
Physics II
Physics I AP
Honors Physics
Honors Physical Science 9
AP Seminar
Forensic Science
Honors Forensics

German I
German II
Honors German IV
Spanish I
Spanish II
Honors Spanish III
Honors Spanish IV
Spanish Language/AP

## Mathematics

Honors Algebra I
Algebra II
Algebra I 2B (1cr/year max)
Hon Calculus
College Prep Math
Geometry I 2B (1cr/year max)
Modern Geometry
Pre-Calculus
Hon Pre-Calculus
Calculus BC/AP

Additional Core Courses
French I
French II
Honors French III
French Language/AP

## Special Programs

## ADVANCED PLACEMENT COURSES

Sylvania offers Advanced Placement (AP) courses in English, Mathematics, Social Studies, World Languages and Science. These courses provide an opportunity for students to enroll in college-level courses while still in high school. AP classes are rigorous, demanding, challenging in-depth approaches to the subject matter. They prepare students for college level work.

The following are the AP course offering

| English Literature \& Composition | US Government \& Politics | French Language \& Culture |
| :--- | :--- | :--- |
| English Language \& Composition | Statistics | Spanish Language \& Culture |
| European History (SV) | Calculus AB | Art History |
| World History (NV) | Calculus BC | Music Theory |
| US History | Chemistry | Computer Science Principles |
| Psychology | Biology | Computer Science A |
| Macroeconomics | Environmental Science | Seminar |
| Microeconomics | Physics I | Research |

Seminar
Research

Prerequisites for AP courses are listed in the course description.)
AP Course offerings are subject to change according to the AP Audit process conducted by the College Board AP or Honors changes - A teacher/parent conference is recommended before changes are made to a student's schedule

## Selection Criteria

The measures listed below are required for admission to an AP course. The first item (teacher or department recommenda-
tion) is mandatory. One or more of the other six measures must be met depending on the individual course.

1. Teacher or department recommendation
. Scholastic achievement
2. Counselor recommendation
3. Intervie
4. Essay
5. Standardized test results
6. Required prerequisite courses

## AP Examinations

AP courses also prepare students to take the AP Exams. Depending upon performance on these tests and the policies of the college they attend students can earn college credit. Students enrolled in AP classes should consider taking the AP Exam.

Students who cannot afford to pay the AP Exam fee may be eligible to receive financial help. A request for financial aid must be filed with the Assistant Principal for Teaching and Learning by October 1 of each year.

## AP Grading Procedure

A weighted grading scale is in use for Honors and AP courses (Refer to grading scale, p. 19). Students who earn a grade of D at the end of the first 9 weeks in an AP course are encouraged to have a conference with the teacher, the student's counselor, and the parent. Existing procedures for dropping or transferring from a course will be used.

Actual registration can also be completed online with Internet access. Students should take the ACT test or the SAT test (or both) beginning their junior year. These scores plus the grade point average (GPA) will be used by the NCAA clearinghouse to determine eligibility to participate in college sports at the Division I and Division II levels.
More information and registration forms are available through www.ncaaclearinghouse.net

## PROGRAMS FOR ACCELERATED STUDENTS

## HONORS COURSES

Eligibility for Honors Courses is based upon

1. Teacher recommendation
2. Student achievement in subject matter

Honors Courses offered
$\frac{\text { English }}{\text { English } 9 \text { \& }}$
English 9 \& 10
$\frac{\text { Science }}{\text { Physical }}$
Physical Science
Biology
Anatomy
Forensics
Forensics
Physics (SV)
$\xrightarrow{\text { Social Studies }}$
Social Studies
Music
Band/Orchestra/Choir

| World Language | Math |
| :--- | :--- |
| Spanish III | Modern Geometry |
| Spanish IV | Algebra I |
| French III | Algebra II |
| French IV | Pre-calculus |
| German III | Calculus |
| German IV | Communication |
| Art | Journalism |
| Senior Studio 2D Design | Yearbook <br> Senior Studio 3D Design <br> Drama <br> Theatre Workshop <br> Public Speaking |

## Career Tech

Business Technology Computer Programming Construction
Education and Training Engineering Tech Prep Forticulture Horticulture
Interactive Media
Theatrical Performing Arts Visual Communications Design

## Special Information

## ATHLETIC ELIGIBILITY

Eligibility shall be determined on a quarter by quarter basis. The required 1.5 grade point average shall be cumulative of all courses taken the previous quarter. Student participants in athletics must meet OHSAA standards which is equivalent to $\mathbf{5}$ units of credit the previous quarter and the Sylvania policy standard which is the 1.5 grade point average the previous quarter.

No player may transfer from one sport to another after the first scheduled contest. If a player quits, or is removed from a team, he/she may not join another sport or participate in any preseason conditioning, open gyms, open skates, etc., until the season which they are no longer participating in is completed.

## INCOMPLETE GRADES "I"

Students who receive an "I" for incomplete must make arrangements to make up the work within two (2) weeks of the end of the quarter or the grade will become an "F." Exceptions to this must be approved by the principal.

## HONOR ROLL

Outstanding academic achievement is recognized by the Honor Rolls, compiled and published at the end of each nine week grading period. A student must take five courses to be considered for the honor roll.
Highest Honor
Honor Roll
4.0 or better
Honor Roll
3.5-3.99
Merit Roll
3.0-3.499

## REPEATING COURSES

Required courses that are failed should be taken in summer school or through Sylvania credit recovery programs when possible. Failure to make up a course in the summer may ultimately delay graduation. Students must consult with their possible. Failure to make up a course in the summer may ultimately delay graduation. Students must consult with their
counselor to develop a credit recovery plan. Students who hire a private tutor to repeat coursework must have assistant counselor to develop a credit recovery plan. Students who hire a private tutor to repeat coursework must have assistant
principal of teaching and learning approval, sign a contract, and meet state guidelines. The student must take a departprincipal of teaching and learning approval, sign a contract, and meet state guidelines. The student must take a depart-
ment exam to earn course credit. The student should see a counselor BEFORE he or she considers this option. Grades ment exam to earn course credit. The student should see a counselor BEFORE he or she considers this option. Grades
from alternative learning opportunities (e.g. GradPoint) will be averaged with other grades. If any course is repeated via traditional delivery method, the higher grade will be counted in the GPA. The class being repeated must be the same class as originally taken. Courses taken during the summer must be completed prior to the start of the next school year.

## OPEN ENROLLMENT POLICY

Open enrollment for secondary schools begins the first day school is in session in November through the last school day before the Winter Break of the current year. Applications can be obtained through Student Services located on the first floor in the Administration Building between the hours of 7:30 am - 4:00 pm, Monday - Friday. Approval is contingent upon space availability in the school of your choice. A copy of the open enrollment policy will be provided with all applications.

## COLLEGE CREDIT PLUS

Eligible students can take a course and earn high school and college credit that appears on both the high school and college transcripts.

There is no cost for the student to participate in College Credit Plus when the student is enrolled in a public college or university. Students choosing to enroll in a participating private college or university might incur costs.

With both programs, there are several conditions that must be met. Students interested in participating in College Credit Plus must see their school counselor for full details. Prior to the deadline, a required informational meeting will be scheduled to outline the details of this program. All interested students and parents must attend.

For more information visit sylvania http://www.sylvaniaschools.org/HighSchoolCurriculumAlternatives.aspx

## CREDIT FLEXIBILITY

Students will have an opportunity to earn credits through the district's Credit Flexibility Plan. Please visit the district website at http://www.sylvaniaschools.org/CreditFlex.aspx to view and download the Sylvania Credit Flex Plan.

GRADING SCALE

. A letter grade for the first and second nine-week periods
2. A letter grade for the exam.

Each reporting period is $40 \%$ of the semester average while the exam equals $20 \%$. The final percentage de termines the letter grade that is listed on the transcript.

The semester grade is determined by multiplying the $1^{\text {st }}$ marking period grade by two as shown in the chart below. The $2^{\text {nd }}$ marking period grade is also multiplied by two. Finally, the exam grade is added to the sum of both marking periods and divided by five.

Example:

| $1^{\text {st }}$ Quarter Grade | $2^{\text {nd }}$ Quarter Grade | $1^{\text {st }}$ Semester Exam |
| :---: | :---: | :---: |
| $99 / \mathrm{A}+$ | $91 / \mathrm{A}-$ | $91 / \mathrm{A}-$ |

$A+A-A-=(99 \times 2)+(91 \times 2)+91=471 / 5=94.2=A$
A minimum total of 298 is necessary to receive a passing grade for the semester.

| Grading Scale \& Conversion Chart |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Grade | Grade Range | Conversion <br> Equivalent | Honors Conversion <br> Equivalent | Advanced Placement <br> Conversion Equivalent |
| A+ | $98-100$ | 4.0 | 4.5 | 5.0 |
| A | $93-97$ | 4.0 | 4.5 | 5.0 |
| A- | $90-92$ | 3.7 | 4.2 | 4.7 |
| B+ | $87-89$ | 3.3 | 3.8 | 4.3 |
| B | $83-86$ | 3.0 | 3.5 | 4.0 |
| B- | $80-82$ | 2.7 | 3.2 | 3.7 |
| C+ | $77-79$ | 2.3 | 2.8 | 3.3 |
| C | $73-76$ | 2.0 | 2.5 | 3.0 |
| C- | $70-72$ | 1.7 | 2.2 | 2.7 |
| D+ | $67-69$ | 1.3 | 1.3 | 1.3 |
| D/P | $60-66$ | 1.0 | 1.0 | 1.0 |
| F | $50-59$ | 0 | 0 | 0 |
| DNA | Did Not Attempt | 0 | 0 | 0 |

- The top of the grading scale is capped at 100 while the bottom is set at 50 .
- For honors classes, a student earning the grade of $\mathrm{A}+$ through C - will receive an additional .5 on the semester average GPA.
- For Advanced Placement (AP) classes, a student earning the grade of A+ through C- will receive an additional 1.0 on the semester average GPA.
- A student earning any combination of two F's in one semester automatically fails the course.
- A student may receive a grade of " $P$ " if in the teacher's judgment the effort is commensurate with a passing grade.
is an in complete. An "l" must be removed within ten school days or it becomes an " F " unless the administration grants an extension
"DNA" (Did Not Attempt) is a course
DNA (Did Not Attempt) is a designation used for students who do not attempt an exam. The㲘號 had not read the questions, and final score is extremely low and does not show work if required.


## Career Technical Education

## PROGRAM INFORMATION

## PLAN NOW FOR YOUR LIFE AFTER HIGH SCHOOL

Career Technical Education programs will provide all students with the knowledge, skills, and attitudes essential to meet a lifetime of career challenges in a competitive global society by recognizing and drawing upon the strengths and interests of each student. Programs offered respond to the needs of a fast changing global workforce and economy. The Career Technical Education programs provide career related experiences, advanced college placement and/or credits, and licensure/certification opportunities. Career Technical Education is the place where your career begins. The programs stress the importance and need of strong academic knowledge and skills along with the high school to postsecondary transitions. Career Technical Education brings education to life using problem-based and inquiry based curriculum. The classes provide Career Technical Education brings education to life using problem-based and inquiry based curric
a seamless pathway for students to easily advance to postsecondary education or the workforce.

Career Technical Education provides:
A way to combine academic and career technical courses to achieve a first-class education
Hands-on experiences that can unlock many new options
Employability skills, from job-related skills to workplace ethics
-Advanced credit and articulated credit options

- Advanced credit and articulated credit optio that interests you
- A way to explore a field that interests you
-Industry credentials and access to and enhanced eligibility for scholarships upon completion of
Career Technical programs
-Opportunities for internships, job shadowing, clinicals and early placements
-A curriculum driven by business and industry partnerships
Career Technical Education involves technical, academic and employability skills needed to prepare you to make informed career choices and to successfully enter, compete and advance in a changing workforce. In the next 10 years, 65 percent of Ohio's new jobs will require high-tech skills. The skills you will learn with a Career Technical Education will give you the extra edge in post secondary education and today's competitive market.


## COLLEGE TECH PREP PROGRAM OFFERINGS

## Two Year Tech Prep Programs (ll \& 12)

Cosmetology
Visual Communication Design
Business Technology
Education and Training

Financial Management
nteractive Media
Computer Programming
Construction Technology

Engineering
Medical Technology
Horticulture
Theatrical Performing Arts

Family \& Consumer Science
Career and College Readiness
Child Development
Food Science
Culinary Arts Fundamentals
Personal Wellness and Development
Principles of Food

Career Cluster Pathways Offered
Arts \& Communications
Business \& Management
Engineering \& Industrial
Environmental \& Agriculture Health, Education and Human Services Information Technology

## CAREER TECHNICAL EDUCATION

## ADMISSIONS AND ENROLLMENT POLICY

The selection and admission process for Sylvania's Career Technical Education programs begins in the sophomore year. Through the various career awareness activities held on both school campuses, students have an opportunity to learn about each program.

Students interested in applying for a Career Technical Education program must complete an application (available in the guidance office) that is signed by the parent/guardian and returned to the guidance counselor. Programs begin in the fall of the junior year. Credits earned for parts of the total program passed each semester will be added to the student's cumulative total. Students who fail their program will be withdrawn and rescheduled in other academic classes necessary for graduation.

Students who are entering their junior year are eligible to apply for a program if they have completed the minimum requirements of:

2 credits English
2 credits Math
1 credit physical education/health
Seniors applying are required to have additional courses plus a minimum of 12 credits.
If a student does not meet the minimum eligibility requirements, and there is space available in the program, an educational plan may be used to admit that student.

Some Career Tech Education programs can be taken for Honors credit. See your counselor for details.
Students will be considered for admission to the Career Technical Program on the basis of scholastic record, related experiences, attendance, and discipline record. Program space is limited and will be based on availability and application ranking.
Every effort will be made to place students in their proper programs based on the Career Pathways model as adopted by oth Sylvania Northview and Southview. Some programs require, by law, background checks and/or medical releases for participation. See your guidance counselor for more details.

## CAREER TECHNICAL OVER-ENROLLMENT POLICY

Career Technical Programs are enrolled with students who can most benefit from class. Good behavior and attendance are extremely important to the success of the student in the programs. Programs will be enrolled to capacity using the following criteria:

1. Completion of the career tech application process.
2. Class status-Juniors will be given priority in the first year of a two year program of if space is available Seniors are not permitted to enrol
3. Attendance-Most Career Technical programs meet more than one period per day over a two year period of time. Attendance is critical to the success of students in these programs.
4. Discipline history-The discipline history will be used for calculating scores on the enrollment rubrics.
5. The cumulative GPA will be used for the enrollment rubrics.

Every effort will be made to place students in their proper programs based on the Career Pathways model as adopted by both Sylvania Northview and Southview.

Seniors may choose to spend their senior year in the first year of a two year program, space permitting. It is not unusual hat some seniors get to their final year in high school and realize that they don't (or won't) have any hands-on-experience in preparing for the world of work. The idea that "one year's experience is better than no experience" has worked for some pathway areas. Seniors are not permitted to enroll in programs that require two year participation for licensing/industry credentialing

## HOME SCHOOL ENROLLMENT POLICY

All Career Technical Education programs are available to all juniors and seniors regardless of their home school Home school designation is based on your residence and district boundaries. Enrollment in a Career Technica Education program does not change your designated home school.

## TRANSFER BUS POLICY

Students who travel between high schools for their Career Technical Education program will have the opportunity to take the school transfer bus. This option may not be available for single period Career Technical classes Students who wish to drive between buildings must follow the driving/parking procedures indicated in the students' home school handbook and complete a Permission to Drive form available from the Career Technica Office or program instructor.

## STUDENT ACTIVITIES

Career Technical Education students are encouraged to participate in their home school's extra-curricular activi ties such as sports, clubs, music, etc. The student will be under the eligibility rules established by the Sylvani Board of Education and the State of Ohio

## EARLY PLACEMENT

Students who have demonstrated above average achievements and have a recommendation from their instructo may be eligible for early job placement. Students are placed in a job related to their field of technical training Early placement will take place during the second semester as arranged by the instructor. They are graded on their work by their employer and may also be paid. The experience provides an opportunity for students to begi the transition from school to work with the encouragement and assistance of their career technical instructor.

## CAREER TECHNICAL STUDENT ORGANIZATIONS

Career Technical Education programs offer co-curricular activities in student organizations that provide leader ship opportunities at the local, regional, state and national levels

Business Professionals of America- Today's students-tomorrow's business professionals. This national organization for Business Technology, Financial Management, and Computer Programming and Interactive Media students provides th members with the opportunity for development of leadership skills, personal and professional growth, social awareness, civic responsibility and an understanding of the business community. Students may compete in regional, state, and national competitions.
FFA- Students enrolled in Horticulture are eligible to participate in FFA activities. Activities at the local, district, state and national level help students develop leadership skills in fulfilling occupational, social and civic responsibilities. Member FCCL
FCCLA- Family enrolled in Education in Training and Family and Consumer Sciences programs are eligible for membership.
enrolled in Education in Training, and Family and Consumer Sciences programs are eligible for mership
skills learned and efforts to better understand the citizenship responsibilities as they are unique to the individuat display Students enrolled in Construction Tech Prep, Cosmetology, Engineering Tech Prep, and Visual Communication Desig may become members of Skills USA
HOSA - Future health professionals in Medical Technology develop leadership and technical skills through participation in this intracurricular activity.
Educators Rising, a national organization for students in the Education and Training Program, cultivate highly skilled educators by guiding young people on a path to become teachers, beginning in high school and extending through college and into the profession. Participation in local, state and national competitions and conferences allows students to demonstrate their knowledge, skills and leadership in education. Scholarship opportunities are available as well."

* Note: Fees are reviewed annually for Board of Education approval.


# Career Pathways 2021-2022 

## Information to Parents

Defining and exploring a career path during high school that matches a student's interests and skills is crucial to attaining success in college and careers. This Career Connections Guide will help students and parents design a high school learning experience that will prepare students academically and technically for a career of their choice.

Sylvania Schools offers coursework in six career pathways and twelve career fields. Career Pathways provide a col lective look at education and training, wage, and job outlook information for related occupations. A Career Pathway includes an Academic Pathway that serves as the foundation for related careers.

## Sylvania Schools Career Pathways

Arts \& Communications - page 22
Environmental \& Agriculture - page 26
Health, Education \& Human Service - page 28
Engineering \& Industrial - page 30
Information Technology - page 32
Our counselors and teachers will lead students through career advising activities and guide them to the completion of student success plan. This process helps students understand how their personal interests, strengths, and values might predict satisfaction and success in school and related career fields, as well as how to link these interests and strength their academic and career goals. Students will create a high school schedule, which will prepare them for college and careers, by aligning academic coursework, career exploration, and career skill attainment.

Overview of the Student Success Plan Outline

|  | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Learning style | x |  |  | x |  |  | x |
| Career interests | x | x | x | x | x | x | x |
| Strengths/skills | x | x |  | x | x | x | x |
| Work values | x | x |  |  |  | x | x |
| Academic and career pathways | x | x | x | x | x | x | x |
| School courses and programs | x | x | x | x | x | x | x |
| Career exploration activities | x | x | x | x | x | x | x |
| Postsecondary education and training programs |  |  |  | x | x | x | x |
| College and career planning and preparation |  | x | x |  | x | x | x |

## Getting Started

Complete The Student Success Plan, and use the resources below to define a career path. Then, refer to the Career Pathways pages 22-33 to connect your high school courses to your chosen career. A sample schedule is provided for each pathway. All students are encouraged to take the academic and career courses that will prepare them for a future career. The pathway electives section highlights courses that will provide career-ready skills for the chosen career.

Ohio Means Jobs K-12 Explore, Plan, Fund, Find Careers
Occupation Search Select Industry (Pathways) \& Explore Interests
In-Demand Careers
Career Pathways

Current Job Market Trends
Overview of Career Options \& Education Required

## CAREER PATHWAY HIGH SCHOOL Occupations - Arts \& Communications

The Arts \& Communications cluster includes the entry, technical and professional level career options within the performing, visual, written, and media arts. This cluster includes but is not limited to the following industries: theater, film, mass media, journalism, literature, fine arts, TV/radio broadcasting, advertising, public relations, graphic design, printing/publishing, telecommunications, and technical writing. Many of the skills learned in this area can be transferred to areas in business and human services. Because communication is a skill needed for success in working with people, this pathway is often considered a foundation skill for other areas.

## IS THIS YOU?

Can you work accurately with detailed information?
Can you read and follow directions?
Do you have artistic ability?
Do you visually like to express your feelings and ideas?
Do you have clear written and verbal communication skills?
Do you have observation skills?
Do you have the ability to work alone and in groups?
Are you creative and innovative?
If you answer "yes" to most of these questions, the Arts \& Communications Pathway may be for you.

## Career Opportunities by Educational Level

Four Years of College and beyond

Agents and Business Managers
Architectural Drafters
Art Directors
Choreographers
Copy writers
Creative Writers
Curators
1-2 Years Training/Education
Actors
Broadcast Technicians
Cartoonists
Commercial \& Industrial Designers
Computer Systems Analysts
Film \& Video Editors
Graphic Designers

Desktop Publishers
Editors
Fashion Designers
Interpreters and Translators
Landscape architects
Music directors

Interior designers
Interpreters \& Translators
Jewelers
Make-up Artists (Theatrical Performances)
Musical Instrument Repairs

Painters \& Illustrators
Producers
Public Relations Specialists
Sculptors
Audio/Video Equipment Technicians
Set \& Exhibit Designers
Technical Writers

Paste up Workers
Pre-Press Technicians
Professional Photographers
Proofreaders
Web Developers
Telecommunications Line Installers
\& Repairers

## High School

Copy Writers
Craft Artist
Etchers \& Engravers
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Film Lab Technicians
Floral Designers

Job Printers
Stock Clerk, Sales Floor Telemarketing

## CAREER PATHWAY HIGH SCHOOL <br> Occupations - Business \& Management

Arts and Communications Career Cluster
courses are offered at various academic levels (Honors and AP) and delivery systems (block and single period). Counselors will assist students in choosing the appropriate level the time of scheduling

| Recommended Schedule |  |  |  |  |  | Pathway Electives |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade | Core | Additional requirements may be necessary for acceptance to some colleges. See your counselor for information. |  |  |  | Refer to course descriptions for further information about these electives or consecutive courses in the cluster. |  |
| $9$ | English Math Science World Studies |  <br> Physical <br> Education | World Language | Career Based Elective |  | -Art Foundations -Dramal -Theater Workshop -Dance Foundations -Public Speaking -Photojournalism (NV) -Introduction to Journalism (NV) | -Orchestra(s) -Bands) -Chirs) •Computer Graphic Design I -Itro to Visual Tecchnology -Computer Graphic Design I -Journalism Writing \& Design (SV) |
| $10$ | $\begin{gathered} \text { English } \\ \text { Math } \\ \text { Science } \\ \text { American History } \end{gathered}$ | Physical Education | World Language | Elective | Elective | -2D or 3D Design <br> Art Appreciation - Drama I <br> -Theater Workshop <br> - Dance Foundations <br> -Public Speaking <br> -Photojournalism (NV) -Introduction to Journalism (NV) - Journalism -Yearbook | -Orchestra(s) -Band(s) -Choir(s) -Broadcast Journalism (NV) - Journalism Writing \& Design (SV) -Computer Graphic Design II |
| $11$ | American Literature Math Science Social Studies Elective | World Language (recommended for college prep) | Elective | Elective | Elective | -Intermediate 2D or 3D Design <br> -AP Art History <br> - Journalism <br> -Yearbook <br> -AP Music Theory <br> -Theatrical Performing Arts I |  |
| $12$ | $\begin{array}{\|c} \text { Senior English } \\ \text { Math } \\ \text { Science } \\ \text { American Government } \end{array}$ | Elective | Elective | Elective | Elective | -Honors Senior Studio 2D or 3D Design <br> -AP Art History <br> - Journalism <br> - Yearbook <br> -AP Music Theory <br> -Theatrical Performing Arts II | -Orchestra(s) •Band(s) •Choirs) •Pop Music •nterative Media $\\|^{*}$ -Visual Communication Design II*** -Broadcast Journalism (NV) |

## Industry Credential Opportunities: Unavailable

Fine Arts credit required. One credit earned in a career technical track may serve as a fine arts credit.
"Career-technical track" is interpreted as a minimum of one credit or one year in coursework representing coherent sequential career-technical content awarded upon successful completion of CTE program. Refer to course descriptions for further information about electives.

## CAREER PATHWAY HIGH SCHOOL

## Occupations - Environmental \& Agricultural

The Environmental \& Agriculture Systems career cluster includes a variety of jobs within environmental and agricultural industries. This cluster includes careers related to service, research, education and production. Numerous career opportunities exist in agricultural sales and services, animal and crop production, education, engineering and mechanica

Business \& Management Career Cluster

| Business \& Management Career Cluster <br> Courses are offered at various academic levels (Honors and AP) and delivery systems (block and single period). Counselors will assist students in choosing the appropriate level at the time of scheduling. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Recommended Schedule |  |  |  |  |  | Pathway Electives |  |
| Grade | Core | Additional requirements may be necessary for acceptance to some colleges. See your counselor for information. |  |  |  | Refer to course descriptions for further information about these electives or consecutive courses in the cluster. |  |
| $9$ | English Math Science World Studies |  <br> Physical <br> Education | World Language | Business Foundations | Elective | -Software Applications <br> -Business Foundations -Intro to Marketing | -Public Speaking (NV) |
|  |  | Physical Education | World Language | Intro to Marketing | Elective | - Software Applications <br> -Business Foundations -Intro to Marketing -Financial Accounting (NV) |  |
|  | $\begin{aligned} & \text { American Literature } \\ & \text { Math } \\ & \text { Science } \\ & \text { Social Studies Elective } \end{aligned}$ | World Language (recommended for college prep) | Business Tec | hnology I | Elective | -Software Applications -Intro to Marketing -Financial Accounting (NV) -Money Management | -Business Technology I* $\bullet$ •Financial Management I* |
| 12 | Senior English Math Science American Government | Business | echnology II | Elective | Elective | -Software Applications, -Intro to Marketing -Financial Accounting (NV) -Money Management | -Business Technology II* <br> -Financial Management II* |

Industry Credential Opportunities: Unavailable
Fine Arts credit required. One credit earned in a career technical track may serve as a fine arts credit.
"Career-technical track" is interpreted as a minimum of one credit or one year in coursework representing coherent sequential career-technical content
Refer to course descriptions for further information about electives.

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Dual enrollment, honors credits, or articulated college credits may be awarded upon successful completion of CTE program.
$\qquad$

## CAREER PATHWAY HIGH SCHOOL

## Occupations - Health, Education \& Human Services

Health \& Human Services careers include a variety of jobs in law and leal services, community support areas such as education, medical technician, personal services such as cosmetology, and community support areas such as fire and city
services. Medical and educational services are projected to be some of the fastest growing occupations. The jobs in this sector are charted to increase dramatically in the next several years.

IS THIS YOU?
Can you work accurately with detailed information?
Can you work independently?
Do you have excellent physical condition and stamina?
Do you have knowledge of basic math and biology?
Do you have clear verbal skills?
Can you use judgment and reasoning to cope with emergencies such as illnesses, accidents,
or interrupted service?
Can you direct, manage, or supervise the activities of others?
If you answer "yes" to most of these questions, the Health \& Human Services Pathway may be for you
Career Opportunities by Educational Level


Health, Education \& Human Services Career Cluster
courses are offered at various academic levels (Honors and AP) and delivery systems (block and single period). Counselors will assist students in choosing the appropriate level at the time of scheduling

Recommended Schedule

| Recommended Schedule |  |  |  |  |  | Pathway Electives |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade | Core | Additional requirements may be necessary for acceptance to some colleges. See your counselor for information. |  |  |  | Refer to course descriptions for further information about these electives or consecutive courses in the cluster. |  |
| $9$ | English Math Science World Studies |  <br> Physical <br> Education | World Language | Career Based Elective | Elective | -Public Speaking (NV) -Teen Issues | -Introduction to Education -Health Careers -Foundation |
| 10 | English Math Science American History | Physical Education | World Language | Elective | Elective | -Nutrition \& Healthy Lifestyles | -Child Development |
| 11 | American Literature Math Science Social Studies Elective | World Language (recommended for college prep) | Elective | Elective | Elective | -Psychology -AP Psychology -Sociology -Contemporary Law -Health Foods | -Medical Tech I* -Money Management -Education and Training ${ }^{\star}$ -Cosmetology I |
| 12 | Senior English Math Science <br> American Government | Elective | Elective | Elective | Elective | -Life After Graduation -Child Development -Healthy Foods | -Medical Tech II* -Education and Training II* -Cosmetology II |

Industry Credential Opportunities:
Education and Training - First Aid/CPR, Child Abuse Awareness, Communicable Disease Awareness, CDA Eligible
Medical Technology - First Aid/CPR, First Responder, CERT, Ohio Nurse Aide (STNA)
Cosmetology - State Cosmetology License
Fine Arts credit required. One credit earned in a career technical track may serve as a fine arts credit.
"Career-technical track" is interpreted as a minimum of one credit or one
Refer to course descriptions for further information about electives.
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CAREER PATHWAY HIGH SCHOOL

## Occupations - Engineering, Industrial, Civil, <br> Biomedical \& Aeronautical

The Industrial \& Engineering careers include a variety of jobs in the automotive, industrial, construction, manufacturing and engineering industries. Often jobs in this area do not require a college degree but must have specific post-secondary training in a specific area. After receiving this training many offer higher than average earnings. Workers in this group collect, record, and coordinate technical information and solve maintain equipment or inspect and/or test materials and products to be sure they meet quality standards.

## IS THIS YOU?

Can you work independently and with a team to complete projects?
Can you read scientific information and follow directions?
Do you have above average mathematics and science skills?
Can you use the scientific method and arrive at logical solutio
Do you enjoy solving problems using facts and judgme

If you answer "yes" to most of these questions, the Industrial \& Engineering Pathway may be for you.

## Career Opportunities by Educational Leve

Four Years of College and beyond
Airplane Pilots
Airplane Pilots
Construction Managers
Construction Managers
Electronics Engineer
Mechanical Engineer
Aeronautical Engineer
Quality Control Engineer
Civil Engineer
1-2 Years Training/Education
Auto body Repaire
Aircraft Mechanics
Architectural drafter
Architectural drafters
Avionics Technicians
Civil Engineer Tech
Computer Service Tech
High School
Aircraft Structure Assemblers Appliance Services
Conveyor Operators \& Tenders Drywall Installers
Electricians Assistance
Electrical Powerline Installers

Biomedical Engineer Air Traffic Controller Construction \& Building Inspector Cost Estimators

## Construction Carpenters

 Cost estimators Cost estimatorsElectro-Mechanical Technician Engineering Technicians Mechanical Drafters

```
nergy Auditors
First Line Supervisors of Construc
tion
Teating & Air Conditioning
Mechanics
#levator Installers & repairers
```

Industrial Production Manage Industrial Safety Engineer Industrial Safety Engine Occupational Health \& Safety Specialists Remote Sensing Technologists
Sales Engineers

Power generating Plant Operator Production Inspectors
Production, Planning and Expediting Clerks Surveyors Quality Control Analysts

Industrial Machinery Mechanics Operating Engineers Operating Enginee Roofers Stationary Engineers \& Boiler Operators Tool \&n Die Makers Welders \& Cutters

## CAREER PATHWAY HIGH SCHOOL

## Occupations - Information Technology

The Information Technology cluster includes the entry, technical and professional level career options within the information management, commercial art, visual, written, and media arts, marketing, and computer information systems. nical equipment including workstation, systems and networks. Employers in this cluster seek lifelong learners who can locate and use information.
Courses are offered at variour choosing the appropriate level at the time of scheduling

| Recommended Schedule |  |  |  |  |  | Pathway Electives |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade | Core | Additional requirements may be necessary for acceptance to some colleges. See your counselor for information. |  |  |  | Refer to course descriptions for further information about these electives or consecutive courses in the cluster. |  |
|  |  |  |  |  |  | Northview | Southview |
| $9$ | $\begin{gathered} \text { English } \\ \text { Math } \\ \text { Science } \\ \text { World Studies } \end{gathered}$ |  <br> Physical <br> Education | World Language | Elective | Elective | -Engineering Applications <br> -Engineering Design -CAD <br> -Intro to Alternative Energy -3D Design | -Engineering Applications <br> -Engineering Design -CAD <br> -Intro to Alternative Energy <br> -Woods/Metals Technology -Robotics -Green Systems Design |
| $10$ | $\begin{gathered} \text { English } \\ \text { Math } \\ \text { Science } \\ \text { American History } \end{gathered}$ | Physical Education | World Language | Elective | Elective | -Engineering Applications <br> -Engineering Design -CAD -Intro to Alternative Energy -3D Design | -Engineering Applications <br> -Engineering Design -CAD <br> -Intro to Alternative Energy <br> -Woods/Metals Technology <br> -Robotics <br> -Green Systems Design |
| $11$ | American Literature Math Science Social Studies Elective | World Language (recommended for college prep) | Elective | Elective | Elective | $\bullet$ - ngineering Tech ${ }^{*}$ | -Construction Technology I* <br>  <br> Fabrication Tech I* |
| $12$ | Senior English <br> Math <br> Science <br> American Government | Elective | Elective | Elective | Elective | -Engineering Tech II* | -Construction Technology II* <br> - Engineering \& Fabrication Tech II* |

## ndustry Credential Opportunities

Construction Technology - OSHA Safety Certification
Engineering - FEMA and NCCER Credentia
Fine Arts credit required. One credit earned in a career technical track may serve as a fine arts credit.
"Career-technical track" is interpreted as a minimum of one credit or one *CTAG college credits may be awarded year in coursework representing coherent sequential career-technical content upon successful completion of CTE program

IS THIS YOU?
Are you a logical thinker?
Are you able follow instructions and specific procedures?
Do you have artistic ability?
Are you capable of expressing yourself visually?
Do you like solving problems?
Do you like to direct, modify and assess your own work?
If you answer "yes" to most of these questions, the Information Technology Pathway may be for you.

## Career Opportunities by Educational Level

Four Years of College and beyond

At Director
Computer \& Information System
Computer Hardware Engineering Computer Programmers

1-2 Years Training/Education Cartoonists
Computer, Automated Teller \& Office Machine Repairs Computer User Support Specialists Database Administrator Electronic Drafters

High School
Audio Visual Collections
Specialists
Computer Operator
Data Entry Keyers
Job Printers

Computer Systems Analysts Creative writers Database Administrator
Desktop Publishers Graphic Designers

Film \& Video Editors Graphic Designers Network Support Specialists Operations Research Analysts

Radio Mechanics Screen Printing Machine Setters \& Set-up Operators Telecommunications Line
Installers \& Repairers Installers \& Repairers

Office Clerks, General
Photoengravers
Photographers As
Photographers Assistants Receptionists \& Information

Sound Engineering Technicians Visual Artists
Sound Engineering Technicians
Telemarketer

Information Security Analyst Network Architects
Network \& Computer Systems Software Developers

## Information Technology Career Cluster

Courses are offered at various academic levels (Honors and AP) and delivery systems (block and single period). Counselors will assist students in choosing the appropriate level at the time of scheduling.

| Recommended Schedule |  |  |  |  |  | Pathway Electives |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade | Core | Additional requirements may be necessary for acceptance to some colleges. See your counselor for information. |  |  |  | Refer to course descriptions for further information about these electives or consecutive courses in the cluster. |  |
| 9 | English Math Science World Studies |  <br> Physical <br> Education | World Language | Career Based Elective | Elective | -Information <br> Technology Foundation <br> -Today's Technology (NV) | -Computer Graphics Foundation -2D Game Design |
| 10 | English Math Science American History | Physical Education | World Language | Elective | Elective | -Software Applications (NV) -Intro to Programming <br> -Today's Technology (NV) | -Computer Graphic Design I <br> -Computer Graphic Design II <br> -AP Computer Science Principles <br> -2D Game Design |
| 11 | American Literature Math Science Social Studies Elective | World Language (recommended for college prep) | Elective | Elective | Elective | $\bullet$ - $n$ Ieractive Media ${ }^{*}$ (NV) | -Visual Communications Design I* (SV) <br> -Computer Science I* (NV) -Honors Programming I* (SV) |
| 12 | Senior English Math Science American Government | Elective | Elective | Elective | Elective | - Interactive Media II* (NV) | $\begin{gathered} \text {-Visual Communications } \\ \text { Design II* (SV) } \\ \text {-Computer Science II* (NV) } \\ \text {-Honors Programming II* (SV) } \end{gathered}$ |

## Industry Credential Opportunities: Unavailable

Fine Arts credit required. One credit earned in a career technical track may serve as a fine arts credit.
"Career-technical track" is interpreted as a minimum of one credit or one year in coursework representing coherent sequential career-technical content.
*Dual enrollment or articulated college credits may be awarded upon successful completion of CTE program.

Refer to course descriptions for further information about electives.

## Course Descriptions

## Telephone Numbers

## 2021-2022


www.sylvanianorthview.org
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Sylvania Northview High School.............................................................419-824-8570

## Administration

Mark Pugh, Principal.......................................................................................... x5101
Leslie Wakeland, Secretary ................................................................................ $x 5100$
Bonnie Kobee, Records Secretary..................................................................................................................
Gracy Hinojosa-Lloyd, Assistant Principal, Teaching and Learning.........................................................................
Gina Ragland, Secretary........................................................................................ x5107
Libby Mcllwain, Assistant Principal, Student Services....................................................................................................
Cathy Bohland, Secretary ................................................................................... $x 5103$
Chris Irwin, Athletic Director............................................................................... $x 5113$

## Guidance

Ann Kuebler, Guidance Secretary..
419.824 .8715

Brian Hede, Cr - Hi Guidance Counselor..... 419 824-8720
Melanie Rogers, Ho - Mc Guidance Counselor .....................................419.824.8709
Kate Henk, Me - Sc Guidance Counselor .419.824.8716
Stacie Wachowiak, Se - Z Guidance Counselor. .419.824.8714

Resource Center
Darla Omey, Media Specialist.

## Department Chairs/Liaisons

Career Technology...................................................................................... Tami Blue
English ...................................................................................................................................................... Tamy Schloegl Guidance............................................................................................................................................................................... Burnworth Math ..


Social Studies.
$\qquad$ ....Greg Christy ........... Perry Lefevre
Special Education Christine Saverstrory Lefevre Supporting Disciplines
$\qquad$

## REQUIREMENTS

It is the student's responsibility to see that the requirements for graduation are met. Northview High School will make every effort to keep up-todate records and students and parents toward completing the necessary course work for graduation. However, it is the student's responsibility to be acquainted with necessary graduation requirements.
In order to meet the prescribed standards set forth by the State Department of Education and Sylvania Board of
Education and to help pupils select the proper sequence of courses, the following regulations and suggestions are listed:
-Twenty-two (22) units of satisfactory work at the high school level are required for graduation.
-Sylvania Board of Education Policy 6140 (Promotion Through the Grades) requires that some identified students with learning difficulties will be assigned to appropriate classes for remediation. Successful completion
of these courses shall take precedence over taking other courses outside the core curriculum.

CLASSES OF 2019 and Beyond
-Students must pass the Ohio Core Curriculum, participate in end of course exams, and meet one of the state-required pathways to graduation (http:/leducation.ohio gov/Topic/OLOio--G-Gaduation-Requirements)

## 1. Earn the required individual and cumulative scores on end-of-course Ohio

 State Tests. The scores will be set by the State Board of Education.2. Earn a "remediation-free" score on a nationally recognized college admission exam such as ACT or SAT.
3. Earn a State Board of Education-approved, industry-recognized credential or a state-issued license for practice in a career and achieve a score that demonstrates workforce readiness and employability Work Keys.

Additional graduation options may exist. Refer to the ODE website for updated details. http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements

| 1. One credit of World Studies, I credit American History, 5 credit American Government, remaining 1 credit | Sylvania Requirement | Credits |
| :---: | :---: | :---: |
| 2. Math units must include Algebra II. | English | 4 |
| 3. Students must complete at least two semesters of fine arts. Students | Social Studies ${ }^{1}$ | 3 |
| following a career-technical pathway are exempted from the fine arts | Science | 3 |
| requirement. <br> Please see your guidance counselor for | Math ${ }^{2}$ | 4 |
| details. <br> 4. Five of the 6 electives must be chosen from foreign language, fine arts, | Health/Physical Education | 1 |
| business, career-technical education, family and consumer sciences, | Fine Arts ${ }^{3}$ | 1 |
| technology, agricultural education, or English, mathematics, or science, social studies courses not otherwise required. | Electives ${ }^{4}$ | 6.0 |
| 5. Please see the course descriptions for qualifying courses. | Total Credits | 22 |

## SCHEDULING PROCEDURES

1. All eighth, ninth, tenth and eleventh grade students must fill out registration forms for the next year even though they may plan to attend another school.
2. Students should discuss course selections for the following year with their parents.
3. The registration form must be filled out and signed by both student and parent (Recommended courses will be
indicated). Course Selection will be completed online.
4. The recommended course load is six (6) periods of course work per semester for seniors and seven (7) periods for
5. underclassmen. Juniors and seniors may request an AM or PM flexible schedule. An AM flexible schedule will allow for a delayed Juniors and seniors may request an AM or PM flexible schedule. An AM flexible schedule will allow for a delay
starting time. A PM flexible schedule will allow for an early release time (Please see your counselor for the flex starting time. A PM flexible schedule will allow for ans.).
scheduling paperwork detailing rules and restrictions.)
The school reserves the right to limit or cancel any classes which are offered in the program of studies.

## POST SECONDARY TRANSITION ACTIVITIES (FLEX SCHEDULING)

Post Secondary Transition Activities provide the opportunity to explore educational and work options outside of the traditional school day. This student-centered format encourages students to explore job shadowing, internships, or early job placement through the creation of a flexible schedule.

Juniors and seniors may request an AM or PM flexible schedule. An AM flexible schedule will allow for a delayed starting time. A PM flexible schedule will allow for an early release time. With this flexible schedule option, the district is not responsible for transportation outside regular scheduled routes. All flexible schedule requests are contingent upon the master schedule and course requirements for graduation.

Teacher recommendations are made early in the school year, yet teachers have the opportunity to re-evaluate/change their decision as the year progresses. If the student's grade drops or a change in student performance occurs, the teacher parent/student disputes the change, he or she must contact the counselor to resolve the conflict.

If a parent wishes to override the recommendation of a teacher, they must sign a Recommendation Override Authorization, available from the school counselor. In addition, if an override is enacted, a subsequent class change must still follow the Schedule Changes policy in the student handbook.

The following contract (located on the student registration sheet) will need to be signed by the student and parent in order for a flexible schedule to be enacted.

1. I understand that the student is responsible for meeting all Sylvania course requirements for graduation as well as Ohio State Graduation Pathways requirements. A flexible schedule may be cancelled in order to meet these requirements.
2. I understand that the student is responsible for knowing changes to the time schedule and attending all scheduled classes when in session (e.g. assembly or two-hour delay)
must pass a minimum of five full credit courses per participate in collegiate-level athletics must also follow NCAA Clearinghouse regulations. Students with a flexible schedule must enter or leave the building at the designated time period. Students are not permitted to remain at school at unauthorized times.
3. The student and/or parent are responsible for the transportation to and/or from school at times other than the
4. Sylvania Schools is not responsible for students scheduled out of the building during the flexible scheduling
time.
5. The Sylvania administration reserves the right to revoke a student's privilege for early release or late arrival for violations of the code of conduct, attendance issues, or academic concerns.

## SCHEDULE CHANGES

Planning a schedule for the next school year is a difficult task, and situations may occur requiring a change in that schedule. Changes have a serious effect on class size, teacher assignments, and the overall master schedule. Thus, students and parents are urged NOT to plan a program with the idea that it can be changed. If a parent-approved schedule change is to be conder will be made after the start of school. Space availability will be a major factor in honoring your request a student/parent may not request a specific teacher

Only the following reasons will constitute a need for a change
1.A technical error was made in the process of scheduling the student's requests.
2. The student has been academically misplaced.
3.There is a scheduling conflict.
4. There is a scheduling overload.

Schedule changes are official when the following conditions are met:

1. All schedule changes must go through the assigned counselor.
2. Schedules will not be changed without appropriate signatures on the change form.
3. The schedule change has been entered into the computer.
4. The student has been given a new, updated copy of the schedule.

ADDING A CLASS AFTER SCHOOL BEGINS: Course additions must occur no later than five (5) school days after the beginning of a course. A course may be scheduled in place of a study hall or commons. The student's schedule will not be rearranged to accommodate an additional course.

COURSE WITHDRAWAL AFTER SCHOOL BEGINS: Students may drop a course without penalty until the end of the tenth (10th) school day of a semester or year-long course with the teacher and parent permission. The course will be replaced with a study hall. Freshmen and sophomores will not be permitted to drop the course if their course load would drop below the seven (7) recommended course load each semester. Juniors and seniors are required to maintain cours

Students dropping a course after ten school days will receive an " F " for the semester unless it is dropped with written teacher recommendation. Teacher recommendation will be based on the following criteria:
1.The student has sought assistance from the teacher.
2. The student has taken advantage of any available tutorial services
dents are expected to complete all year-long classes; however, a semainder of the semester if the course is dropped. Students are expected to complete all year-long classes; however, a semester's credit will be given to a student who has suc-
cessfully passed one semester of a year-long course if the student was enrolled in the course for the entire year or special
circumstances exist to warrant a drop at the end of the first semester.

## FRESHMAN: Course Offerings

is strongly recommended that students review the Career Pathways schedules and P
scheduling process. Refer to the following course descriptions to finalize course selections.
A
A freshman schedule should include the required courses listed below plus a minimum of one e
Required Courses: English 9 , Math, Science 9 , World Studies, Health, Physical Education
The following course descriptions are designed to assist in scheduling the freshman year. Northview has a nine-period day. It is recommended that freshman take six courses with a lunch and study hall each semester. Open periods will be filled with an additional study hall. Note: The school reserves the right to limit or cancel course offerings.

## ENGLISH CURRICULUM

## 100 ENGLISH 9

Year Credit 1 Est Fee: $\mathbf{\$ 2 5}$ (Required Novels) Engish 9 is a required course that combines the sotudy of various litervocabulary. Literature study will develop through the study of short stories, novels, drama, poetry, articles, essays, and other nonfiction sources. mposition focuses on a variety of different kinds of writing that require state mandated end of course assessment. Supplemental materials are required and must be purchased or supplied by the student. A summer reading signment, located on the Northview website at www sylvanianorthview.

## 3101 HONORS ENGLISH 9

Cear 1 Est Fee: $\$ 30$ (Required Novel rerequisite: 8 th grade teacher's recommendation Honors English 9 is an intensified study in literature, composition, grammar,
and vocabulary that expands the English 9 curriculum This course features and explores an extended scope of iliterautre; literary analysis in essay
testst extensive work in writing skills sand vocabulary Students sooll have divanced critical thinking and writing skills.Students will be required to complete the state mandated end of course assessment. Supplemental texts are required and must be purchased or supplied by the student. A summe
feading assignment, located on the Northview website at www.sylvanianreading assignment, located on the North
orthview.org, is required for this course.

## MATH CURRICULUM

**See Math Course Flow Chart pg 70

## 3306 ALGEBRA

\section*{| Year |
| :--- |
| Alge |}

Igebra I generalizesthit 1 Grades 9-1
The student will begin to develop the abibility to to reason abstractly The shools. addresses five critical areas of focus: relationships between quantitities and reasoning with equations, linear and exponential relationships, descriptive atistics, expressions and equations, and quadratic functions and modeling Application of these concepts will be emphasized throughout the course. Alternately a TI-83+ or TI--84+ graphing calculator may be used but graphing

## 3308 GEOMETRY

Grades 9-12
$\underset{\text { Prerequisite: Algebra I (2B) or Algebra I }}{\text { Yes }}$
In Geometry, students will study examples of geometry in the physical world and how to use geometric concepts to solve problems. Critical areas
of focus include: congruence, proof, and construction; similarity, proof, and tigonometry; connecting algebra and geometry through coordinates; circles with and witithout coordinates; extending to thred dimensionsi, and applications
of probability. Developing proof writing and reading skils are a sisnificant of probability. Developing proof writing and reading skills are a sisnifican
part of the course. Summer work is reauired for this course. A scientific art of the course. Summer work is required for this course. A scientift
alculator is required. Alternately a TI-83+ or TI-84+ graphing calculato calculator is required. Aternately a 11-83+ or T1-84+ graphing calcul
may be used but graphing concepts will be taught using Chromebooks.

3309 HONORS GEOMETR
Year Credit 1 Grade 9-1
Prerequisite: AlgebraI I and teacher recommendation
In addition to all of the concepts covered in the regular geometry course, students will develop skills in critical thinking, logical reasoning, and problem olving. Emphasis is given to the structure of geometry and the development and simple ideas that gradually lead to more complex proofs. Students will nderstand how geomerty grows from observations and common relationhips. Students yo study examples of geometry in the physical world are developed include: trigonometry, indirect proofs, inductive reasoning, non-Euclidean geometries, transformations, and symmetry. Throughout
the course students will utilize alogbraic skills and develop constructions using compass and straight edge. A TI-83 Plus or TI-84 Plus graphing using compass and str
calculator is required

SCIENCE CURRICULUM
See Science Course Flow Chart on p. 72

## 3401 PHYSICAL SCIENCE

$\qquad$ the basic concepts of chemistry and physics. Chemistry topics include the properties of matter, patterns in the periodic table of elements, and reacfions of matter. During the e physics overview, students will b bintroduced to dynamics (Newton's slaws of motion and universal gravitation) through the
study of speed, acceleration, force, and pressure. Students will discover the nature of waves and energy transfer through study of mechanical waves, light waves (electromagnetic radiation), and sound waves. In addition to he subject matter, students are trained in the techniques of the scientific collecting and analyzing data, and writing lab reports. Applications of scientific reasoning to everyday life as well as techniques of measurement In qualitative and quantitative problem solving are applied throughout the
course. Algebra i s recommended as this course involves analytical problem solving and mathematical concepts including graphing.

## 3402 HONORS PHYSICAL SCIENCE

Year Credit 1 Grade 9
Est. Fee \$6
Prerequisite: Algebra I and teacher recommendation
Honors Physical Science is designed for the advanced freshman student Honors Physical Science is designed for the advanced freshman student
who has a strong interest in STEM fields (science, technology, engineering
andor mathematics) and plans to puswe and/or mathematics) and plans to pursue upper level Honors and/or AP sci-
ence courses. Utilizing developmentally appropriate inquiry experiments, cace courses. Utilizing developmentally appropriate inquiry experiments, quantitative problem solving,.project-based learning, lecture and discussion,
Honors Physical Science gives an in-dept treatment the topics covered
in Physical Science $3404 / 3405$ Honers Physical Science also introduces Honors Physical science gives an in-depth treatment to the topics covered materia not covered in 34043405 but expected in the summer assignments
for the upper revel Honors Chemistry and Physics courses. Most Honors
Physical Sciece
 dents who are highly motivated and succecssful in Honors Physical Science
nay choose to take Honors Biology and Honors Chemistry concurrently in their sophomore year, giving them more AP course options during their
junior and senior year.

## 3200 WORLD STUDIES

This course completes Credit 1 Grade 9
to the present. This study includes not only history, but intergrates each 1750 the other six social studies standards. As students study each historical economic implications and the role of the governments. They develop deeper understanding of their role as citizens and continue to expand thei .

## 3201 HONORS WORLD STUDIES

 to complete some extended reading and writing assignments. Arecommend sequired. Studen will be expected to complete a considerable amount of reading. Studen
will be expected to express themselves well both orally and in writing.

## FRESHMAN:Electives

ARTS \& COMMUNICATION
37401 Art Foundations: Year, 1 credit
3740 Crafts in Art (even years only): Semester . 5 credi
3113 Drama I: Semester. . 5 credit
3114 Theater Workshop Semester . 5 credit
3117 Public Speaking: Semester. 5
3171 Debate, Semester . 5 credit
120 intro to Journalism: Semester. 5 credits
742 AP Art History: Yein. Semester, . 5 credin
Music
3750 Band Auxiliary: Quarter, 25 crit
3756 Concert Band: Year, 1 credit
3758 Soncert Band: Year, I credit
3752 Wind Ensemble: Year, 1 credit
3751 Wind Ensemble: Year, I credit
37513 Academy Orchestra: Year, 1 credit
3762 Chamber Orchestra: Year, 1 credit
3759 Symphonic Choir: Year, 1 credit
3776 Women's Chorus: Year, 1 credit
BUSINESS \& MANAGEMENT
8310 Business Foundations: Semester. 5 credit
8313 Intro to Marketing: Semester. 5 c credit
ENGINEERING \& INDUSTRIAL
8392 Engineering Design: Semester. 5 credit
83921 3D Modelling \& Prototyping: Year, 1 credit
8394 Engineering Applications: Semester, 5 credit
3396 Introduction to Alternative Energ
Semester. 5 credit
8398 Computer Aided Design: Semester. 5 credit
ENVIRONMENTAL \& AGRICULTURE
8441 Agriculture \& Environmental Systems (SV)
8442 Plant and Horticulture (SV): Year. I credit

3218 AP WORLD HISTORY
Year
APW Orld History focuses
Crate
APWorldhistory ycusses ond developing students' abilities tot think conceptu-
ally about world history from approximately 8000 BCE to the present and apply historical historking from akpproximatelely s shoy 8000 BCE to the present an
equal importance - focusing on the enviraneut the past. Five themes of equal importance - focusing on the environment, cultures, state-building,
economic systems, and social structures - provide areas of historical inquiy economic systems, and social structures- - Provide areaso
for investigation throughout the course. AP World History encompasses the history of the five major geographical regions of the globe: Afric, he Americas, Asia, Europe, and Oceania, with special

## HEALTH / PHYSICAL ED

## 3502 HEALTH

Semester Cred
Credir $1 / 2$
Grade 9-12
one semester.
teatutclasses meet every day for one semester. The course includes in-
struction in the following areas: health skills, mental and emotional healt family and social health, sexuality, HIV/AIADS, contraception, nutrition, and
alcohol, tobocacco, and drus prevention The National Staderd for alcohol, tobacco, and drug prevention. The National Standards for Health
are used to help students develop a knowledge base from which to make healthy life-style choices in everyday living.

## 3500 PHYSICAL EDUCATION

 Semester Credit $1 / 4$Physical Education classes Grade 9-12 Physical Education classes meet every day for one semester. Appropri-
ate clothing is required for participation. The course includes instructio covering the six state standards including knowledge content and physical
activity Activities max include: tennis, volleyball, badminton, aerobi activity. Activities may include: tennis, volleyball, badminton, aerobic
conditioning, fitness testing, swimming, basketball, group games and othe conditioning, fitness testing, swimming, basketball, group games and other
activities. Emphasis is placed on active participation, effort, knowledge
and responsible personal and social behavior in a physical activity setting. and responsible personal and social behavior in a physical activity setting

## HEALTH, EDUCATION

\& HUMAN SERVICES
8376 Personal Wellness and Development:
8377 Principles of Nutrition and Wellness: Semester, 5 credit
8380 Principles of Food: Semester, 5 credi
8360 Introduction to Education: Semester. 5 credit
8330 Health Careers Foundations: Semester. 5 cred
INFORMATION TECHNOLOGIES
8309 Today's Technology: Semester. 5 credit
8545 2D 598 Intro to Visual Technology: S 8598 Intro to Visual Technology: Semester. 5 credits

SCIENCE
3413 Biology Year, 1 credit
3411 Honors Biology Year, 1 credit
SOCIAL STUDIES 3228 Geography: Semester. 5 credit
WORLD LANGUAGES 3700 French I: Year, 1 credit 3701 French II: Year, I credit 3730 Spanish I: Year, 1 credit 3720 German I: Year, 1 credit 3721 German II: Year, 1 credit

3411 HONORS BIOLOGY
Year
Prerequisites: Teacher recommendation $\quad$ Crade 10-12 $\quad$ Est. Fee $\$ 10$ Required Readings: A summer homework assignment is required.
student selected for this class must see the instructor during the se ond semester exam week in order to obtain their summer assignment
Honors Biol interest in the sciences. Honors Biology is a laboratory-oriented cours in which the students spend $25-30 \%$ of their time in the laboratory laboratory-related activities. Lab investigations are designed to allow the
students to collect data, analyze it and make inferences to basic biolog cal concepts. Studies delve into biological concepts in areas of ecologica relationshisps, cellulala biochemistry, cell structures, classififcation, genenti
and evolution. Tests are, in part, the probem solving tye designed and evolution. Tests are, in part, the problem solving type designed to
measure the student's critical thinking and problem solving skills as the apply to particular biological concepts. During the year, several formal lab Write-ups are required in addition to one special assignment each quarte.
Summer assigments may also be found at he Northview website www sylvanianorthview.org.

## 3444 AP SEMINAR

$\qquad$
Prerequisite: Honors Science and Graders English or Teacher Approv al
APSeminari is foundational course thatenges conversations that explore the complexities of academic and real-worl topics and issues by analyzing divergent perspectives. Using an inquiry
framework, students practice reading and analyzing articles, research stud ies, and foundational, literary, and philosophical texts, listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic wolks and performances. and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the order to craft and communicate evidence-based arguments.

## 3204 AMERICAN HISTORY

Year $\qquad$ This course completes the chronological study of the history of the United to the present, but interataes each of the other six social studies standard As students study historic events, they consider the geographic setting
the cultural perspectives, the government. They develop a deeper understanding of their roe role of and continue to expand their command of social studies skills and methods.

## 3207 AP UNITED STATES HISTOR

$\qquad$
This American History course is a survey offering which is more rigorous than regular American History. The course is desing whed to to provide mperper lev achievers with the analytic skills and factual knowledge to deal critically
with the problems and materials in American History. Extensive individual reading will be required.

## 32201 AP ECONOMIC

## Year Prerequisite: Algebra I Cred

AP Economics is designed to teach students the basics of both Micro and Macroeconomics. The course is offered in one year; however, it is broken up into two separate units that are tested separately. Each test is
the equivalent to a college semester course. The course begins with basi economic concepts before moving into more specific information. The course typically begins with Microcconomics and focuses on the person students have a proper understanding of economics at the smaller scale students have a proper understanding of economics a the smater scase
the course moves to Macroeconomics, where the focus is on the large scale aggregate of all the decisions made at the Micro level. Macroeconomics also examines how countries make the economic decisions that they do, and how governmental policies can impact the nation and the

HEALTH / PHYSICAL ED

## 3500 PHYSICAL EDUCATION

## Semester Physical Education classes met every day 9-1

Physical Edacaionclasses are
ate clothing is required for participation. The course iester. Approprition covering the six state standardsts including knowledse physical activity, Activities may include: tennis, volleyball, badminton, aerobic conditioning, fitness testing, swimming, basketball, group games and other activities. Emphasis is placed on active participation, effort,
knowledge and responsible personal and social behavior in a physical activity setting.

## SOPHOMORE:Electives

## ARTS \& COMMUNICATION

3739 Art Appreciation: Semester. 5 credit (odd years only)
37401 Art Foundations: Year, I credit
3740 Crafts in Art (even years only): Semester . 5 credit
3743 2D Design: Year, 1 credi
3741 3D Design: Year, I crean
3742 Digital Photography Semester. 5 credit
3113 Drama: Semester . 5 cred
114 Theater Workshop Semester 5 creat
3171 Debate, Semester. 5 credit
3120 Intro to Journalism Semester .5 credi
3128 Journalism: Year, 1 credin
3129 Yearbook: Year, 1 credit
4760 Art of Photojournalism: Semester, 5 credit
Music
3750 Band Auxiliary: Quarter, . 25 credit
3756 Concert Band: Year, I creait
3758 Symphonic Band: Year, 1 credit
3752 Wind Ensemble: Year, 1 credit
3751 Concert Orchestra: Year, 1 credit
37513 Academy Orchestra: Year, 1 credit
3762 Chamber Orchestra: Year, 1 credit
3759 Symphonic Choir: Year, 1 credi
3776 Women's Chorus: Year, 1 credit
764 Aappella Chin.
3767 AP M Road Sow. Year; 1 c
3767 AP Music Theory: Year. 1 credit
BUSINESS \& MANAGEMENT
8310 Business Foundations: Semester. 5 credit
8313 Intro to Marketing: Semester, 5 cred
8408 Financial Accounting:Year, I credit
ENGINEERING \& INDUSTRIAL
8392 Engineering Design: Semester. 5 credit 83921 3D Modelling \& Prototyping: Year, 1 credit 8394 Engineering Applications: Semester. 5 credit 396 Introduction to Alternative Energy:
Semester. 5 credit
398 Computer Aided Design: Semester. 5 cred

ENVIRONMENTAL \& AGRICULTURE
8441 Agriculture \& Environmental Systems (SV): Year, 1 credit
8442 Plant and Horticulture (SV): Year I credi

HEALTH, EDUCATION
\& HUMAN SERVICES
8376 Personal Wellness and Development
3377 Princester. S creainition and Wellness
Semester. 5 credit
8380 Principles of Food: Semester. 5 credit
8360 Introduction to Education: Semester, 5 credit
8330 Health Careers Foundations: Semester. 5 credt
351 Cosmetology Foundations: Semester. . 5 credit

NFORMATION TECHNOLOGIES
8309 Today's Technology: Semer 5
8415 Intro to Computer Programming: Semester. 5 credi 8545 2D Game Design, Semester. 5 credits 8598 Intro to Visual Technology: Semester. 5 credits

## SIENCE

3422 Chemistry: Year, 1 credit
3431 Honors Chemistry: Year, 1 credir
3430 Anatomy: Year, 1 credit 3426 AP Physics 1: Year, I credit 3444 AP Seminar: Year, 1 credit
SOCIAL STUDIES 3228 Geography: Semester. .5 credi 3220 AP Economics: Year, 1 credi

WORLD LANGUAGES 3700 French I: Year, I credit 3701 French II: Year, 1 credit 3702 Honors French III: Year, 1 credi 3730 Spanish I: Year, I credit 3732 Honors Spanish III: Year. 1 creat 3732 Honors Spanish III: Year 3721 German II. Ye I I ciedil

## JUNIOR: Course Offerings

It is strongly recommended that students review the Career Pathways schedules and
A junior schedule should include the required courses listed below plus a minimum of 1.5 electives.
Required Courses: American Literature, Math, Science.
The following course descriptions are designed to assist in scheduling the junior year. Northview has a nine-period day. It is recommended that juniors take five courses with a lunch and study hall each semester. Open periods will be filled with an additional study hall.
Note: The school reserves the right to limit or cancel course offerings.

## ENGLISH CURRICULUM

## 3124 AMERICAN LITERATURE


American Literature is a study of well-known American authors with an emphasis on the historical context and American ideals presented in the 1 it-
erature of $A$ merica. Maior literary genres include both fiction erature ofAmerica. Major literary genres include both fiction and nonfiction
through study of journals, essays, diaries, sermons, poems, plays novel documents, speeches, and articles. Critical and analytical terminology to discuss and respond to literaturus is emphasized. Writing skills are devel-
oped through expository and analytical compositions. Supplemental texts oped through expository and analytical compositions. Supplemental texts
are required and must be purchased or supplied by the student. A summer reading, located on the Northview website at www.sylvanianorthview.or is required for this course

## 3125 JUNIOR HUMANITIES

 Year Credit 1 Gnade 11 Est. Fee $\$ 40$ (Required Novels)Junior Humanities analyzes how diverse American communities create the American culture. Literature analysisisand discuscision will ilincludet the cultural
heritage in which the works were created
 universal concerns shared by all cultures. Students will explore various texts,
such as 17 th, $18 t h$,and 19 th century nonfiction and 19 9xh fiction. Diligent active reading strategies and ongoing literary analysis will be introduced and reinforced. Writing assignments are primarily expository,
and provide an opportunity for analysis and critical skills that connect the literature with experiences and the field of humanities. Supplemental texts
are required and must be purchased or supplied by the student. A summer are requirec and must be purchased or supplied by the student. A summer
reading, located on the Northview website at www.syvanianorthview.org

## 3126 AP ENGLISH LANGUAGE \& COMPOSITION

 sue studies equivalent to a college level study of American literature pri marily through the exploration of fiction and nonfiction works, including novels, plays, essays, poems, and short stories. Emphasis is placed on
critical reading and writing about expository, argumentative, and analytical prose, as well as completion of research projects to prepare students
for the English Language and Composition Exam administered in May. Supplemental texts are required and must be purchased or supplied by the
student. A summer reading located on the Northiew website at www student. A summer reading, located on the Nor
sylvanianorthview.org, is required for this course.
3135 AP ENGLISH LITERATURE \& COMPOSITION Year Credit 1 Grade 11-12 Est Fee: $\$ 30($ Re
Prerequisite: English $9 \& 10$ and 10th grade teacher's recommendation.
Students in Advanced
Students in Advanced Placement English Language \& Composition pursue Classic literature from a variety of genres, time periods, disciplines, types an rhetorical contexts will be studied with an emphasis on critical and analytic techniques usedto evaluate literature. A heary emphasis on written composi-
tion allows students to sharpen their critical writing skills and analyze the strensths and weaknesses of their personal writitg styly. The course serves as preparation forthe Advanced Placement English Literature and Composition
Test that is administered in May Suplemental texts are required and mul Test that is administered in May. Supplemental texts ree required and must
be purchased or supplied by the student. A summer reading, located on the be purchased or supplied by the student. A summer reading, located on the
Northview website at www.sylvanianorthview.org, isrequired forthis course.

## MATH CURRICULUM

**See Math Course Flow Chart pg 70 3308 GEOMETRY $\qquad$ $\underset{I(2 B)}{\text { Grade }}$
Prerequisite: Algebra I or Algebra I (2B)
This ocurse discusses the properties of plane and space figures, including parallelel and perpendicular roperties, of triangless (including righe right triangles and
trigonometry), parallelograms, trapezooids, and circles It atso rigonometry), parallelograms, trapezoids, and circles. It also teaches the
concepts of congruence, similarity, and parallelism, and uses these concep concepts of congruence, similiarity, and paralalelism, and uses these conceep
to develop logical reasoning skills so that proof-reading skills are developed
Students will calculate the area Students will calculate the area and volume of various polygons and thre-
dimensional figures. Students will study examples of geometry inthe hysi world and how to use geometric concepts to solve problems. A TI-83 Plu wortI-84 Plus graphing calculator is required. Summer work is requir for this course, please see instructo.

3300 INTERMEDIATE ALGEBRA Year Credit 1 Grade 11-12 Intermediate Algebra reviews topics form Algcherar recommendation. to prepare students for Algebra II. Specific topics include: solving linear equations and inequalities; solving quadratic equations using factoring, completing the square, quadratic formula and graphical technique; not on
Iinear functions, but पuadratic, absolute value, radical, and exponential fun tions; applications; writing equations of lines based on given informatio or data collection, extensions of simplifying techniques of exponents and ogy (graphing calculators ogy (graphing calculators, motion detectors, and interner research) and mo
project based learning, which will include writing samples. ATI-83 Plus or
TL- -44 Plus graphing TI-84 Plus graphing calculator is required.

3312 ALGEBRA II
Credit 1
Grade 10-12
Year
Prerequisite: Geometry or or Intermeediate Algebrar
Algebra II suduies the problems of Algebra In
Algebra II studies the problems of Algebra I in greater depth and is a more
sophisticated treatment of those problems. In addition, the conceptof find sophisticatedtreatment tof those probiems. In addition, the conceptof function
is developed through the use of linear, quadratic, exponential, logarithmic and radical functions. Critical areas of focus include: polynomials, rationa,
and radical relationships; modeling with functions, triconomety and radical relationships; modeling with functions; trigonometry; infer
ences and conclusions from data; and trigonometry of general triangles trigonometric functions. A TI-83 Plus or TI-84 Plus graphing calculator is

3313 HONORS ALGEBRA II
Year
Prerequisite:
Honors
Credit
Geometry
Gnd teacher recommendation The emphasis in Honors Algebra II is on application problems involving linear, exponential, logarithmic, quadratic, radical, polynomial, and rational
functions. In naddition, sequencesand series, analytical geometry, and statistical topics are explored. Astudent should be prepared to move at a rapid pace

3315 STATISTICS
Year
Prerequisite:
Algebra II
Starequisistie: is a courseb that offers a change from a traditional math course. Although proficiencey in algebra skills is needed, students will also learn to analyze and represent their answers graphically. Sudents will use real-world
data coollected or given) toexplore these specifictopics: sampling techniques, probability, measures of central tendency, visual data descriptions using chnology, hypothesis testing, and correlation and regression. Students will complete several writing and technology projects to reinforce the analysis
of these real-world situations. Statistics may be taken as a student's lone nath course or concurrently with any course after Algebra II. Concurrent edit may be available to thosestudents who qualifift through Lourdes
College. See page 15 for details. ATL-83 Plus or TI-84 Plus graphing College. See page 15 for
calculator is required.

## 325 AP STATISTICS

| Year |
| :---: |
| Prerequisite: |
| Algebra III |
| Credit |

Grade 11-12
This sollege elevel course is for the student who desires all the knowledge of statis-
tics above end beyond the general tatisticis class. The course provides instuction ics above and beyond the general statistics class. The course provides instruction
on four broad conceptual themes - Exploring Data, Sampling and Experimentation, Anticipating Patterss, and Statasisical Inference. Students will draw connections between all aspect of the statisticial process, including design, analysis, and concluusing the vocabulary of statistics and how to use graphing calculutaror and computers to enhance the development of statistical understanding. AP Statasisics is for igh achieving math students and may be taken as a suddents lone math course $o$
oncurrenty with any course after Algebrall. ATI-83 Plus or TI-84 Plus graplconcurrently with any cours
ing calculator is required.

## 321 PRE-CALCULUS

$\underset{\substack{\text { Year } \\ \text { Prerequisite: } \\ \text { Algebra II } \\ \text { Cle }}}{\text { Cred }}$
Perequisite: Algebra II 1 Grade 11-12
Enctions, rational functions, logarithenmic ond ertric functions, polynomial ehavioro fthese functions and theirininverses is studied indepth. The approach to the course is based on the study of analytical geometry. Application
problems using these functions are studied. A TI-83 Plus or TI-84 Plus roblems using these functions at

## 3320 HONORS PRE-CALCULUS

Year Credit $1 \quad$ Grade 11-12
rerequisite: Algebra II H and teacher recommendation
theempdedis honors Pre-calculusis on applications of the material being ogarithmic, trigonometric functions and their applications. In addition, the polar coordinate system, vectors, and analyticiceomentry are explored. Students ill also learn introductory calculus topics such as limits, basic derivatives, ee prepared to move at a rapid pacee and should be able to advance beyond nemorization to application of knowledge. Summer work is required. A

SCIENCE CURRICULUM See Science Course Flow Chart on p. 72

## AP BIOLOGY

Year
periods or equivalent
Prerequit
1
Grade 11-12
Est. Fee $\$ 10$
Prerequisite: Teacher recommendation, Biology or Honors Biology, Chem-
itry or Honors Chemistry or being taken concurrently istry or Honors Chemistry or being taken concurrently
Acourse for highly motivated interested students,APBiology gives in-depth reatment to cell structure and function, taxonomy, evolution, ecology, bioynthesis, genetics, protein synthesis, plant and animal physiology, applied ior, gene action, and more. Laboratory experiences provide opportunities for hhe student to further developo observational and analytical skoills and are an an integral component of the program. These serve to extend concepts covered
in class and in the text. Students will employ a variety of techniques to in cass and in the text. Students will employ a variety of techniquest to parameters, transformation in bacteria, plant and animal morphology and
histology, microbial activity and identification and electrophoresis as well as other laboratory topics. Tests emphasize both the course content and its conceptrs. A summer assignment of outside readings and selected test hapters is required. Students electing to take AP Biology should see Summer assignments may also be found at the Northview website www. ylvanianorthview.org. The course is reconnized by colleges as a a abora-

## 3435 ENVIRONMENTAL SCIENCE I

mester Credit $1 / 2 \quad$ Grade 11-12
Est. Fee S
Prerequisites: Biology or Honors Biology
Environmental Science I i s an elective science course involving the study of Eoil science, water quality, the Great Lakes, animals of Ohio: birds, reptiles,
stive amphibians, fish, and mammals. Thesetopocics will be discosseserid in the contentest
of current environmental issus in the world around us. Class will consist current environmental issues in the world around us. Class will consist f hands-on, projects based activities, lab investigations inside and outside

## 436 ENVIRONMENTAL SCIENCE II

$\begin{array}{ll}\text { Semester } & \text { Credit } 1 / 2 \\ \text { nvironmental } \\ \text { Science II isan extension of Environmental } \\ \text { Gst. Fee } 85\end{array}$ adross current issueses of energy usens, fossil fuels, alternative energy, global warming, and what impact they have on the topics covered in Environmental Arming, and what impact they have on the topics covered in Environmental
Also addressed will be pollution, recycling and wast management. Ad-
ditional topicisc covered will be plant science, basic forestry GPS technology tional topics covered will be plant science, basic forestry, GPS technology
 of material in this program. Students have the opportunity to participate in
statewide Envirothon Program.

## 3432 ZOOLOGY

Semester Credit $1 / 2$
Prerequisite: Biology
logy
Grade 11-12
Est. Fee: $\$ 7$
Zoology is an elective science course involving the study of invertebrate vertebrate animals. Specific studies in this course consist of taxond groups of organisms. Zoology I includes topics such as evolunisms $d$ animal diversity, animal ecology, and the study of the following yla: Protozoa, Porifera, Cnidaria, Annelida, Mollusca, Arthropoda, and onges, to spiders, to starfish, anything from single-celled animals to ons, research projects and presentations, field works, lectures, and riety of dissections. Summer assignments may also be found at the variety of dissections. Summer assignments may
Northview website www.sylvanianorthview.org.

## 3420 BIOCHEMISTRY

$\qquad$ Ludent must have a non-programmable scientific calcultor rerequisite: Physical Science
wochemistry is an integrated course combining chemistry and biology rade student who does not have the math prereguisite for Chem I Topics clude bio/medical applications, environmental technology, and engineering echnology. It is an applications based course.

Prerequisite：Biology
Grade 11－12
Est．Fee：$\$ 7$ Zoology is an elective science course involving the study of invertebrate and vertebrate animals．Specific studies in this course consist of taxonomic，
anatomical，and physiological examinations of selected organisms and groups of organisms．Zoology II includes topics such as the classification
and evolution of the Phylum Chordata．We will sudy，in depth，the follow and evolution of the Phylum Chordata．We will study，in depth，the follow
ing Classes：Fishes，Amphibians，Reptiles，Birds，and Mammals．Curre ing Classes：Fishes，Amphibians，Reptiles，Birds，and Mammals．Curre
issues in biodiversity and threats to animal species will also be researche and discussed．The class will consist of lab investigations，research proj

## 3434 ASTRONOMY

Prerequisites：Algebra I and Niology or $H$ Hiolo
Astronomy I is a general survey course first introducing the students to the
night sky，its many constellations， cal development of astronomical，thightert stars and mor place in the Une Universe the second major topic of study．The course concludes with a study of the
moon，lunar exploration，planets，and other bodies in our solar system．The

## 3437 ASTRONOMY II（NV）

Semester
Prerequisite：Science 9 （C and
Corequisite：Algebra II
Student must have a non－programmable scientific calculator This course in Astronomy takes an in－depth look at the Universe outside
our solar system．Students will be introduced to the use of telescopes al satellites as a tool of research in Astronomy．Because our knowledge of the Universe depends on gathering various forms electromagnetic waves an
understanding of the properties of light will be investigated．The majority of understanding of the properties of light will be investigated．The majority of
he course will explore the origin，formation and evolution of stars．Lab wor in this course will make extensive use of computer software and the Internet．

## 3416 FORENSIC SCIENC

## $\underset{\substack{\text { Year } \\ \text { Prerequisite：} \\ \text { Forensiss is } \\ \text { Credical Science } \\ \text { 9 } \\ \text { and } \\ \text { and Biology }}}{\text { Grade }} 1$

Frerequisite：Physical Science 9 and Biology
Forensics is the rigorous application of science in the processing of physi－ cal evidence during criminal investigations．The field of forensic science its prosecution of the perpetrators of a crime．You will study the vario principles and methods used in the sciences to evaluate evidence at a crim scene，ultimately using the evidence and your deductive reasoning skills
to solve the crime．Sciences used in forensics include any discipline that can aid in the collection，preservation and analysis of evidence，such can aid in the collection，prese
chemistry，physics，or biology．

## 34163 HONORS FORENSIC SCIENCE

 required．
Honors Forensic Science covers the same general topics as Forensic Science but at an accelerated pace and greater depth．Students in Honors Forensic Science must complete a summer packer．This is due at the sta
of the course in the fall．Each student should pick up a welcome letter from the instructor detailing the work required．

## 3422 Year $\underset{\text { Credit } 1}{\text { CHEMISTRY }}$ Grade 10－12 $\quad$ Est．Fee $\$ 10$

 Prerequisite：Phys．Science or H．Phys．Science，Biology and Algebra I．7 Periods or requivalent． 7 Periods or equivalent．
Chemistry is a lecture－laboratory course that focuses on methods and
techniques of measurements and problem solving as pertainet techniques of measurements and problem solving as pertaining to atoms
and chememial reactions．TTo better understand the invisible world of atoms
mathematial problem mathematical problemsolvingskills are used throughouththe yearin chemistry
The most frequently used method of problem solving are factor－label unit The most frequently ysed method of problem solving are factor－label unt
conversions solvivg formulas for variables（basic a a gebra）and stoichiometry． Concepts of atomic structure and the organization of the periodicictable serve
as a basis for the understanding of the epridicicity of matrer and pericting as a basis for the understanding of the periodicity of matter and predicting
chemical activity．Laboratory experiments are used to further emphasize the concepts which are taught and further develop skills of observation and data
analssis．Due to the e thallengin nature of the subject material students tak analysis．Due to the challenging nature of the subject material，studentst tak
ing this course are required to attend a mandatory make up／review session RAGEIABng Fridays during commons．

3431 HONORS CHEMISTR Year Credit Gade 10－12 Honors Chemistry covers the same general topics as Chemistry，but in
graeter detpth and at an accelerated pace．We will also cover topics includ－
ing equilibrium，reaction kinetics and acidd and bases that are ing equilibrium，reaction kinetics，and acids and bases that are not covered
in regular Chemisty．The course would be most appropriate for the stud
with definite furse with definite future goals in chemistry，engineering，pro－med，etc．Witt permission，sophomores could take Biology and Chemistry concurrently on
Honors Biogoyy and Honors Chemistry．Due to the challenging nature of the Honors Biology and Honors Chemistry．Due to the challenging nature of the
subject material，students are required to attend a mandatory lab make－up
reviewhelp session on alternating Fridays during commons review／help session on alternating Fridays during commons． A summer assignment of selected text chapters is required．Those stu－
dents selecting Honors Chemistry must see the instructor before the end of second semester．Summer assignments may also be found at the

Year
7 $\quad$ Creriodit $1 \quad$ Grade 11－12 $\quad$ Est．Fee 820
Prerequisites：Algebra II，Chemistry with a GPA of＂B＂or better，and
leacher recommendation， Peacher recommendation ed college－bound science student，AP Chemistry
emphase for the advances the quantitative，experimental aspects of Chemistry Some emphasizes the quantitative，experimental aspects of Chemistry．Sone
the early work in the course will serve as a review of Chemistry，includ ing topics such as periodicity of matter and chemical reactions，bonding
formula writing and balancing equations To formula writing，and balancing equations．To further the skills of the abo conceptst there will be a greater emphasis on the chemical and mathemati
cal formulation of these principles．Additional topicis studied in－depth ar
thermechemisty thermochemistry，acid－based theory，chemical equilibrium，rates of reaction，
chemical theryodynamiss，and electrochemistry．With the availability of chemical thermodynamics，and electrochemistry．With the availability
analytic balances，pH meters，and CBI probes，students will be able to analytic balances， PH meters，and CBI probes，studdents will be able to
further their understanding of chemistry through weekly laboratory work
AP Chemistry is equivalent to a college frest AP Chemistry is equivalent to a college freshman courre and is recognized
as a laboratory credit course．Due to the challenging nature of the subject mater a aboratory credit course．Due to the challenging nature of the subbencer
mate required to attend a mandatory lab make－up／review material，students are required to attend a mandatory lab make－up／review
help dession on alternating Friday during commons．It is expected thaa
students will take the AP exam．A summer assigment of selected text students will take the AP exam．A summer assignment of selected te chapters is required．Those students selecting AP Chemistry must see
the instructor before the end of seoond sementer．Summer assignents
may also be found at the Northview webssite www．sylvanianorthview．org
3425 PHYSICS
$\underset{7}{\text { Year }} \underset{\text { periods or }}{\text { Credit }}$
Grade 11－12
Est．Fee \＄10
Prerequisites：Algebra II or permission of instructor
It tis recommended pre－calculus be taken concurrently．
This course covers a broad spectrum of topics generally considered to be included in an introductory course in Physics．Emphasis is on the understand
ing of general principles and models and on the nature of scientific inquit ing of general principles and models and on the nature of scientifici inquiry
The level of mathematical sophistication will extend to simple trigonometry but rarely beyond．The historisical development of science e is considered along with the role of science in contemporary society．Students who aic
going to major in physical science or engineering should consider takin going to major in physical science or engineering should consider taking
AP Physiss．Due to the challenging anture of the subject material student
． AP Physics．Due to the challenging nature of the subject material，stude
taking this course are required to attend a mandatory lab make－up／revie help session on alternating Fridays during their common

## 3429 HONORS PHYSICS（SV）

 ${ }_{7}{ }_{7}^{\text {Year }}$ priods per weekEst．Fee： $\mathbf{\$ 1 0}$ Prerequisistes： week Science，Al
teacher teacher recommendation
Corequisite：Pre－calculus or Calculus Student must have a non－programmable scientific calculator This first year course in Physics is designed for the student who is planning
on pursuing a career in a science，engineering or medical related feld on pursuing a career in a science，engineering or medical related fied
study in college．Students who enroll in those programs of study are gen ally required to take a Physics course．Honors Physics would be the cours to take in high school to prepare you for college physics．Coursework in
Honors Physics will include the echanics of motion waves son Hond electricity．Extensive lab work，data analysis and problem solving are the main foci of the course．

## 3426 AP PHYSICS

${ }_{7}$ periods or equivalent
Grade 10－12
AP Physics 1 is the equivalentor teacher recommendation
AP Physics 1 is the equivalent to a first－semester college course in algebra－ ynamics and angular momentum）；work，energy，and power，and mechanical curse are required to attend a mandatory lab make－up／review session on ternating Fridays during their commons．Summer work is required，please the

## 333 ANATOMY

Year
Prerequisite：Biology，Honors Biology，Teacher
Cr Honors Chemisty

$$
\begin{aligned}
& 11-12 \\
& \text { errecom }
\end{aligned}
$$

Est．Fee $\$ 10$
or Honors Chemistyy or taken conculorrently highly recommended．One of he above required．
natents selecting Anatomy should have a minimum GPA of＂$B$＂in Biology igned to educate the student about the human body．This course follows a ecture－laboratory format，and is based on the understanding of human func－ ions through a complete examination of human structures．To enhance this
understanding，both normal and abnormal aspects of human functions will筒deristanding，both normat and abnormat aspects of human functions wil be investigated by comparing the physiological conceptsof homeostasis and
disease．The course begins with a review of the principles of biochemistry
and cell biology both preveiously developed and learned in Biology and or nd cell biology（both previously developed and learned in Biology and／or hssues and concludes with a study of each of the body＇s systems．Anatomy nd Physiology is supplemented with numerous lab accivities．throughout e year including an extensive vertebrate（cat）dissection．A number of ther lab skills and techniques will be developed including：microscopy， ourse is recommended for those students interested in any medically related

## 3445 HONORS ANATOMY AND

## PHYSIOLOGY <br> $\qquad$


tudents must have a non－programmable scientific calculator．
Honors Anatomy and Physiology covers the same general topics as
natomy and Physiology，but at an accelerated pace and in greater depth． is the study of human，structure and function．The course encompasses he structure，biochemical，and biophysical processes of cells，primary
fissues，and the eleven body systems with associated organs．This course squires reading，writing，and oral expression，with an emphasis on higher放恠 critical thinking skills．All students wanting to take CCP Anatomy

## 34461 GEOLOGY

Grade（s）11－
nd Biology
Est．Fee $\$ 5.00$
 $\qquad$
Physical Geology is an advanced science course offering college credit science field．Most colleges require students to take at least one scienc ab course as a part of their general education requirements．CCP Physical Geology offered through Owens Community College would satisfy this for the Owens Community College Course GEO 111 （ 3 lecture， 1 lab）as well as an advanced science elective credit for graduation．
This course is aimed at the population of students who are college－bound but nay not be AP or honors studdents in science．The course will certainly be cience courses have．The class will also be more flexible to schedule than other dvanced science courses as it does not require a double－blocked lab period he content standards addressed by this course are outlined in the Ohio Sci－ CCP requirements to be discussed with Owens Community College faculty．

## 3444 AP SEMINAR

P Semsite：Physical Science and Honors English 9 or Teacher Approval a foundational course that engagess students in cross－curricular conversations hat explore the complexities of academic and real－world topics and issues practice reading and analyzing articicles，research studies，and foundational， erary，and philosophical texts；listening to and viewing speeches，broadcasts， and personal accounts；and experiencing artistic works and performances． Students learn to synthesize information from multiple sources，develop presentations，both individually and as partof of team．Ultimately the course aims to equip students with the power to analyze and evaluate information with accuracy and precision to craft and communicate evidence－－based argu－ ents．AlIAP Seminar students are required to participate in the AP Seminar

3444 AP RESEARCH
Year Credit 1
Prerequisites：AP Seminar and teacher recommendation
AP Resear，，the second course in the AP Capstone experience，allows Studentsto deeply yexplore an academic topic，probebem，issue，or idea of indi－
vidual interest．Students design，plan，and implementa yearlong investigation 10 address a research question．Through this inquiry，they further the skills mey acquired in hie APSeminar course by learning research methodology， mizing information．Students reflect on their skill development，document heii processes，and curate the artifacts of their scholarly work through a process and reflection portfolio．The course culminates in an academic paper
of $4,000-5,000$ words（accompanied by a performance，exhibit，or product where applicable）and a presentation with an oral defense．

## SOCIAL STUDIES

## CURRICULUM

## 3210 PSYCHOLOGY

## Credit／Grade 11－12

Grade 1－12
This is a s survey class that offers an overview of major them in Pyschology．
Topics include；research methods and history，abnormal behavior，states of consciousness，learning，memory，personality and development．Studentsts
explore topics through outside research，reports and class resentations． xplore topics through outside research，reports and class presentations．
The course requires both written and oral expression with an emphasis on The course requires both written an
higher level critical thinking skills．

## 3212 AP PSYCHOLOGY

## Crear 1 Grade 11－12

PPsychology is designed to prepare students for the AP National ogy Exam．It is equivalent to an introductory college course in psychology he course receives honors credit．Students who successffuly completet the work at the university level．All areas of psychology are covered．This hcludes but is not limited to；history and methodology，biological basis of behavior，states of consciousness，learning and cognition，memory，person－
ality，sensation and perceptions，motivation，social psychology abnormal ality，sensation and perceptions，motivation，social psychology abnormal
psychology and child development．Students are expected to complete a considerable amount of reading in the text and supplemental materials．This Course requires students to synthesize and evaluate all material presented rough both oral and written format．There is a heavy emphasis on study ills and genuine class participation in activities and discussio

## 3217 CONTEMPORARY LAW

emester Credit Credit ${ }^{1 / 2}$ $\underset{\text { Grade }}{\text { 11－12 }}$ Contemporary Law is s semester practicum in law－related education．Students will be provided with useful information and problem solving opportuni－
ties that develop their knowledge and skills necessary for survival in our society．Students sill be involvecin mock trials，case studies，small group
exercises，and visual analysis activities．

## 3228 GEOGRAPHY

Semester
Geography is a social studies offering for all grades. The course will include in-depth examination of the cultural, economic, physical, and historic factors which have influenced the development of the world's peoples. A major objective of the offering is to become familiar with basic geography, as we
as an understanding of recent history and current events.

3222 GLOBAL STUDIES CAPSTONE ${ }_{P}^{\text {Semester }} \quad$ Credit $1 / 2 \quad$ Grades 11-12 The Global Studies Capstone course provides support and completing the capstone portion of the Global Studies Diplomaprogram. Sudent will work with a a advisor to apply their accumulated skills and k nowledge from
particicipation intheGGobal Sudies Diplom provamin in constructive participation intheGlobal Studies Diplomaprogram ina constructiveandpositive
way. Capstone projects will be designed by students based on their interests an will help students complete the "Action" badge of the Global Studies Diploma

## 3231 AMERICAN HISTORY THROUGH FILM Semester Credit 0.5 Grade(s) 11-12

This one-semester course leads students to critically examine the use of film in telling the history of the United States. In an ever more technology-drive society, many Americans use film dramatizations as their primary source view of the facts. This course will allow students to examine this phenomen through both a chronological and thematic approach to determine historical accuracy. Each week will begin with activities to introduce the historical era on which the film is based. Two to four days will be spent viewing key scenes
the film. The viewing of each film will be followed with a weekly film analysis assignment. Each quarter will end with an independent research project that wil allow students to examine themes from the films previously viewed. The secon inderendentresearch proict will serve as the fint exam

## 32201 AP ECON

Year
Prerequisite
Alvebradit
1.0
Prerequisite:Algebra I
AP Economics is designed to teach students the basies of both Mirro and Macroeconomics. The course is offered in one year, however, it is
broken up into two separate units that are tested separatly. Each test is the equivalent to a college semester course. The course begins with basi economic concepts before moving into more speciici information. The and business level decisions that all of us must make in our lives. Once students have a proper understanding of economics at the smaller scale, the course moves to Macroeconomics, where the focus is on the large
scale ageregate of all the decisions made scale aggregate of all the decisions made at the Micro level. Macroeco-
nomics also examines how countries make the economic decisions that they do, and how governmental policies can impact the nation and the entire world.

## JUNIOR:Electives

ARTS \& COMMUNICATION
3739 Art Appreciation (odd years only): Semester, . 5 credit 37401 Art Foundations: Year, I credit
3740 Crafts in Art (even years only): Semester. 5 credit 3743 2D Design: Year, 1 credit
3741 3D Design: Year, 1 credit
37421 AP Art History (odd years only): Year, I credit 3742 Digital Photography Semester, 5 credit 3738 Murals, Graffiti \& Public Art, (even years only): Semester, 5 credit
3745 Intermediate 2D Design: Year, 1 credi
3744 Intermediate 3D Design: Year, 1 credi
607 Visual Communications Design I: Year. 2 credit
113 Drama: Semester . 5 credit
3114 Theater Workshop Semester .5 credit
113 Theatrical Performing Arts, Year, 2 credi
117 Public Speaking: Semester. 5 credit
3171 Debate, Semester .5 credit
3120 Intro to Journalism Semester 5 credit
3128 Journalism: Year, 1 credit
3129 Yearbook: Year, 1 crea
37 Creative Writing: Semester. 5 credit
Musi
3750 Band Auxiliary: Ouarter . 25 credir
3756 Concert Band: Year, 1 credit
3758 Symphonic Band: Year, 1 cread
3752 Wind Ensemble: Year, 1 credit
3751 Concert Orchestra: Year, 1 credi
7513 Academy Orchestra: Year, I credit
762 Chamber Orchestra: Year, 1 credit
3759 Symphonic Choir: Year, I credit
3776 Women's Chorus: Year, 1 credit
3764 A Cappella Choir: Year, 1 credit 3769 Harmony Road Show: Year, 1 credit 3768 Popular Music: Semester. .5 cred 3767 AP Music Theory: Year, 1 credi

## JUNIOR: Electives (continued):

BUSINESS \& MANAGEMENT
8313 Intro to Marketing: Semester. .5 cred
408 Financial Accounting. Year, I creatit
8319 Money Management: Semester. 5 crear
8610 Financial Management I: Year, 2 credi
ENVIRONMENTAL \& AGRICULTURE
8433 Horticulture I: Year, 2 credits
ENGINEERING \& INDUSTRIAL
8396 Introduction to Alternative Energy: Semester . 5 credit
8385 Engineering I Year 2 credis
8489 Construction 1. Year 3
8398 Computer Aided Design: Semester. 5 credit
8392 Engineering Design: Semester, 5 credit
83921 3D Modelling \& Prototyping: Year, 1 credit
8394 Engineering Applications: Semester. 5 credit
HEALTH, EDUCATION \& HUMAN SERVICES
8364 Education \& Training I: Year, 3 credits
8351 Cosmetology I: Year, 4 credit
8331 Medical Technology I: Year, 2 credis
8376 Personal Wellness and Developmen Semester. 5 credits
Sriniples of Nutrition \& Wellness: Semester. 5 credit
8379 Culinary Arts Fundamentals: Year, I credit
NFORMATION TECHNOLOGIES
8309 Today's Technology: Semester. 5 credit
505 Interactive Media I: Yeart 2 credit
8541 Honors Computer Programming I (SV)
Year, 2 Credits
8546 Honors Computer Programming I (NV): Year. 2 Credits

SCIENCE
3422 Chemistry: Year, I credit 3431 Honors Chemistry: Year, 1 credi 3423 AP Chemistry: Year, I credi 3421 AP Biology: Year, 1 credit
3435 Environmental Science: Semester . 5 credi 3419 AP Environmental Science Year, 1 credit
3425 Physics: Year, 1 credit
3426 AP Physics 1: Year, I credi
3444 AP Seminar: Year, 1 credit
3444 AP Research: Year, 1 credit
3430 Anatomy and Physiology: Year, 1 credi 3445 Honors Anatomy and Physiology: Year, 1 credir
3416 Forensic Science: Year, I credit
Honors Forensic Science: Year, 1 cred
保 432 zorogy. Yan

SOCIAL STUDIES
3210 Psychology: Semester. 5 credit
3212 AP Psychology: Year 1 credit
3217 Contemporary Law: Semester. .5 credit
3217 Contemporary Law: Semester, 3228 Geography: Semester, .5 credit 3222 Global Studies Capstone: Semester. 5 credit 3220 AP Economics: Year, 1 credit 3231 American History Through Film: Semester. 5 credit

WORLD LANGUAGES
3700 French I: Year, 1 credit
3701 French II: Year, 1 credit
3702 Honors French III: Year, I credit
3705 Honors French IV: Year, 1 credi
3730 Spanish I: Year, I credit
3732 Honors Spanish III: Year, 1 credi 3735 Honors Spanish IV: Year, 1 credit 3720 German I: Year, 1 credit
3721 German II: Year, 1 credit
3722 Honors German III: Year, I credi

## SENIOR: Course Offerings

It is strongly recommended that students review the Career Pathways schedules and Pathway Electives online before beginning the
scheduling process. Refer to the course descriptions below to finalize course selections.
A senior schedule should include the required courses listed below plus electives,
Required Courses: Full-year courses in English, Math The following course descriptions are designed to assist in scheduling the senior year. Northview has a nine-period day. It is recommend
that Seniors take five courses with a lunch and study hall each semester. Open periods will be filled with an additional study hall.

## Note: The school reserves the right to limit or cancel course offering

## ENGLISH CURRICULUM

 Year
## SENIOR COMPOSITION \& LITERATURE

 See page 15 for details.
Senior Composition Senior Composition \&Literature is a survey course that emphasizes critical including short stories, poems, plays, novels, and prose essays. Writing including short stories, poems, plays, novels, and prose essays. Writing
experiences for this course will extend to expository and persuasive essays, as well research projects. Supplemental texts are required and must be purchased or supplied by the student. A summer reading assignment,
located on the Northview website at www.sylvanianorthview.org, is required located on hhe
for this course.

## 3126 AP ENGLISH LANGUAGE \& COMPOSITION

 $\underset{\substack{\text { Year } \\ \text { Prere }}}{ } \quad$ Credit 1 $\underset{\text { English }}{\text { Cre }}$Est Fee: $\$ 50$ (Required Novels)

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\begin{aligned}
& \text { recommendation } \\
& \text { Students in Adva }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Credit } 1 \\
& \text { Englist Fee: } \mathbf{5 0 0} \text { (Requ } \\
& \text { on } 11 \text { and } 11 \text { Ith grade teacher's } \\
& \text { lance Placement English Language \& Compe }
\end{aligned}
$$

ents in Advanced Placement English Language \& Composition pursue studies equivalent to a college level study of American literature primarily through the exploration of fiction and nonfiction works, including novel plays, essays, poems, and short stories. Emphasis is placed on critical rea
ing and writing about expository, argumentative, and analytical prose, ing and writing about expository, argumentative, and analytical prose, as
well as completion of research projects to prepare students for the English Language and Composition Exam administered in May. Supplemental texts are required and must be purchased or supplied by the student. A summer reading, located on the No

3135 AP ENGLISH LITERATURE \& COMPOSITION Year Credit 1 Est Fee: 550 (Required Novel Prerequisite: English 9, 10 \& 11 and Ilth grade teacher's recommendation. studies equivalentto a college level study in iliterature and composition. Classic literature from a variety of genres, time periods, disciplines, types and rhetorica contexts will be studied with an emphasis on criticial and analytical techniques students to sharpen their critical writing skills and analyze the strengths and weaknesses of their personal writing style. The course serves as preparation for the Advanced Placement English Literature and Composition Test that is
administered in May.Supplemental texts are required and mustbe purchased or administered in May.Supplemental texts are required and must be purchased or
supplied by the student. A summer reading, located on the Northview website at www.sylvanianorthview.org, is required for this course.

## 3151 SENIOR HUMANITIES

## Year Prerequisite: English 9,10 \& 10 I 11

Pretequite:
Senior Humanities is a college preparatory class that explores the connections between literature, philosophy, history, visual and musical arts. Criti-
cal and analytical skills will be employed to evaluate the effects of and Western thought, culture, and tradition on society and the world. Writing experiences for this course will connect literature to the humanities through exposition, research and persuasive essays. Supplemental texts are required and must be purchased or supplied by the student. A summer orthview.org is required for this course.

Pre-calculus introduces the student to the trigonometric functions,
polynomial functions, rational functions, logarithmic and exponential polynomial functions, rational functions, logarithmic and exponential
functions. The behavior of these functions and their inverses is
studied in depth. The approach to the course is based nalytical geometry. Application problems using these functions are thyied. A TI-83 Plus or TI-84 Plus graphing calculator is required.

## 3320 HONORS PRE-CALCULUS

$\underset{\text { Year }}{\text { Prerequisite: Algebra II } 1 \text { Hand teacher recommendati }}$
The emphasis in Honors Pre-calculus is on applications of the material being studied. The course content comprises polynomial, rational, exponential, logarithmic, and trigonometric functions. In addition, the polar coordinate
system, vectors, and analytic geometry are explored. A student should be repared to move at a rapid pace and should be able to advance beyond emorization to application of knowledge. A TI-83 Plus or TI-84 Plus raphing calculator is required.

## 324 HONORS CALCULUS

Year Credit 1 $\qquad$
Crequsle: Pre-calculus and teacher recommendation
This course is for the student willing to work hard to gain knowledge of
calculuspriortoentering college butwithout the pressure and time constraints laced on the AP course. Topics include a brief review of pre-calculus limits, differentiation, and integration of polynomial, rational, radical, and igonometric functions.Applications of these concepts will also be explored. udents should be confident in their h.owledge of algebra and trigonometry Agraphing calculator is required. Concurrent credit may be available to
those students who qualify through Lourdes College. See page 12 for more details. A TI-83 Plus or TI-84 Plus graphing calculator is required.

## 317 AP CALCULUS AB

## $\underset{\text { Year }}{\substack{\text { Yerequisite: } \\ \text { Honors or or Res } \\ \hline}}$ <br> Crors or Reg Pre-Calculus and

leacher recommenatation This course prepares students to take the AP Test in May. This test covers college material equivalentent to Calculus In and the majority of Calculus IIt at a fapidp pace. Calculustopics include limits, functions, differentiation, integra-
ion, and the application of these concepts. It is recommended thata person ave at least a 3.0 average in all previous math courses before attempting $A P$ Calculus. The student must have an AP approved graphing calculator
ummer work is required for this course, please see instructor

## 323 AP CALCULUS BC

Year
Prerequisite: Honors Precalculus with teacher recommendation Secause students are required to have taken Honors Precalculus AB , wut , which includes some introductory calculus concepts), BC can cover additional opics that are not part of the AB course. Theses topics include: differeniation and integration of parametric, polar, and vector functions; simple
artital fractions; improper integrals; solving logistic differential equal partial fractions; improper integrals; solving logistic differential equa-
tions; polynomial approximations and series If derivatives and integrals. AP Calculus B C is not designed to follow
AB as aproximately $60 \%$ of the BC curricilum is covered in AB Stu B as approximately $60 \%$ of the BC curriculum is covered in AB . Stuients must have an AP app

## SOCIAL STUDIES CURRICULUM

$\qquad$
merican Government is meant to give students a broad overview of the purpose of the course is to make participants in the course aware of entry possibilities into the political system and to encourage them to explore these possibilites into the political system. Areas of study include executive and
legislative relationships at all levels, state and national judiciaries, political legislative relationships at all evevels,
parties, elections and propaganda.

## 216 AP UNITED STATES GOVERNMENT AND

 OLITICSCredit $1 \quad$ Grade 12
Prerequisites: AP American History and an overall student GPA of 3.0 The Advanced Placement course in American Government is designed to sive students a critical perspective on politics and government. This course volves both the study of genciaconcepts used to interpret United States government and comparative government review topromote greater depth
of comprehension. Active politital participipation will be encouraged to instill familiarity with the various institutions, groups, beliefs and ideas that make p the American political reality. At the conclusion of the course, students with the goal of qualifyying for college credit.

## 32201 AP ECONOMICS

## ear Prerequ.

conomics is designed to teach students the basics of both Mirro Macroeconomics. The course is offered in one year; however, it is equivalent to a college semester course. The course begins with basic conomic concepts before moving into more specific information. The course typically begins with Microeconomics and focuses on the personal d business level decisions haa ad of must make in our lives. Once he course moves to Macroeconomics, where the focus is on the large scale aggregate of all the decisions made at the Micro level. Macroecomics also examines how countries make the economic decisions tha entire world.

222 GLOBAL STUDIES CAPSTONE Creait $/ 2$ Grades 11-12
The Gilobal Studies Cation of first 2 Global Studies Diploma badges Gobar Sucies Capstone course provides support and guidance to students will work with an advisor to a apply their accummulated skills and knowledgede firm articipation inthe Global Studies Diploma program ina constructiveand positive way. Capstone projects will be designed by students based on their interests and

## SENIOR:Electives:

ARTS \& COMMUNICATION
3739 Art Appreciation (odd years only): Semester,. 5 credit
37401 Art Foundations: Year, 1 credit
3740 Crafts in Art (even years only): Semester. 5 credit
3743 2D Design: Year, 1 credit
3741 3D Design: Year, 1 credit
37421 AP Art History: Year, 1 credi
3745 Intermediate 2D Design: Year, 1 credi
3744 Intermediate 3D Design: Year, 1 credit
3746 Honors Senior Studio 2D Design: Grade 12
3742 Digital Phoregraphy Sem Design.
3732 Dis
378 Sals, Grafiti 5 Public Art, (even years only): 8608 Visul Communic
8608 Visual Communications Design II: Year, 2 credits
3113 Drama: Semester. 5 credit
3114 Theater Workshop Ser
8213 Theaterical Performing Arts. 5 Yerevit
3117 Public Speaking: Semester, . 5 credit
3171 Debate, Semester. 5 credit
3120 Intro to Journalism Semester . 5 credit
3128 Journalism: Year, 1 credit
3129 Yearbook: Year, I credit
3137 Creative Writing: Semester. 5 credit
4760 Art of Photojournalism: Semester. 5 credit
Music
3750 Band Auxiliary: Quarter, 25 credit
3756 Concert Band: Year, I credit
3758 Symphonic Band: Year, 1 credit
3752 Wind Ensemble: Year, 1 credit
3751 Concert Orchestra: Year, 1 credit 37513 Academy Orchestra: Year, 1 credit 3762 Chamber Orchestra: Year, 1 credit
3759 Symphonic Choir: Year, 1 credit
3776 Women's Chorus: Year, 1 credit
3764 A Cappella Choir: Year, 1 credit
3769 Harmony Road Show: Year, 1 credit
3768 Popular Music: Semester, 5 credit
3767 AP Music Theory: Year, 1 credit
BUSINESS \& MANAGEMENT
8313 Intro to Marketing:Semester. 5 credit
8408 Financial Accounting: Year, 1 credit
8315 Business Technology II: Year 2 credi
8611 Financial Management II: Year, 2 credits
8319 Money Management: Semester. 5 credit
ENGINEERING \& INDUSTRIAL
8388 Engineering II: Year 2 credits
8490 Construction II. Year 3 credits
8392 Engineering Design: Semester. 5 credit
8392 Engineering Design: Semester, 5 credit
8394 Engineering Applications: Semester. 5 credit
8394 Engineering Applications: Semester, .5 credit
8396 Introduction to Alternative Energy: Semester 5 creat 8398 Computer Aided Design Semester. 5 scredit

ENVIRONMENTAL \& AGRICULTURE 8434 Horticulture II: Year, 2 credits

HEALTH, EDUCATION \& HUMAN SERVICES

8367 Education \& Training II: Year, 3 credits
8355 Cosmetology II: Year, 4 credits
8335 Medical Technology II: Year, 3 credits
8376 Personal Wellness and Development:
Semester. 5 credits
8377 Principles of Nutrition and Wellness
8379 Culinary Arts Fu
379 Culinary Arts Fundamentals Year, 1 credir
8472 Child Development: Semester. 5 credi
INFORMATION TECHNOLOGIES 8545 2D Game Design, Semester, 5 credit
8506 Interactive Media II: Year, 2 credit
8543 Honors Computer Programming II (SV):
Year, 2 Credits
8548 Honors Computer Programming II (NV) Year, 2 Credits
SCIENCE
3422 Chemistry: Year: 1 credit
3431 Honors Chemistry: Year, 1 credit
3421 AP Biology: Year 1 credit
3435 AP Biology: Year, 1 credit
343 Environmental Science: Semester. 5 credi
3419 AP Environmental Science Year, 1 credit
3425 Physics: Year, 1 credit
3444 AP Research: Year, 1 credit
3430 Anatomy: Year, 1 credit
3445 Honors Anatomy and Physiology: Year, I credit
3434 Astronomy: Semester, . 5 credit
3416 Forensic Science: Year, 1 credit
34163 Honors Forensic Science: Year, 1 credit
3446 Geology: Year, I credit
3432 Zoology: Year, 1 credit
3420 Biochemistry
SOCIAL STUDIES
3210 Psychology: Semester. 5 credi
3212 AP Psychology: Year, 1 credit
3217 Contemporary Law: Semester. 5 credi
3205 Sociology: Semester, . 5 credit
322 Global Studies Capstone: Semester. . 5 credi
3231 American History Through Film: Semester, 5 credit

SENIOR: Electives (continued):
WORLD LANGUAGES
3700 French l: Year, 1 credi
3702 Honors French III Y
3702 Honors French III: Year, 1 credit
3706 AP French V: Year 1 credit

3730 Spanish I: Year, 1 credit 3731 Spanish II: Year, 1 credit 3732 Honors Spanish III: Year, 1 credi 3735 Honors Spanish IV: Year I I cread
3736 AP Spanish V. Year 1 credit 3736 AP Spanish V: Year, 1 cre 3721 German II: Year, 1 credit 3722 Honors German III: Year 1 cie 3723 Honors German IV: Year 1 cid

## Northview Art Department



## 3740 ART FOUNDATIONS

$$
\begin{aligned}
& 740 \text { ART FOUNDATIONS } \\
& \text { ear Credit } 1 \text { Crades 9-12 } \\
& \text { his course is an introduction to the various materia }
\end{aligned}
$$

$\qquad$ Est. $\mathrm{Fee} \$ 27$ rart. The elements and principles of art will be introduced. Projects will include drawing, painting, clay, sculpture, printmaking, design and many
more. This class is a must for most future art classes. ore. This class is a must for most future art clas

3743 2D DESIGN

Grade 10-12
Est. Fee $\$ 33$
Prerequisite: Art Foundations
The goal of this course is to con
The goal of this course is to continue to develop skills for personal expres-
sion by exploring a new variety of 2 -dimensional media. Students will be hallenged to stretch theneri imanimation toncrionat media. Students wilt be prints that $g$ obeyond a literal or realisistic representation of the es subject tanatter.
Problem-solving pertaining to 2 -dimensional design issues will be stressed. Return to course offering page: 10, 11, 12

## 3741 3D DESIGN

Year Credit $1 \quad$ Grade 10-12
Est. Fee $\$ 35$
Prade 10-12 Est. Fee $\$ 35$
Prerequisite: Art Foundations
The focus of this course is

 ostretch their imarination to create 3 -dimensional works that go
beeonond a titeral or realisicic representation of subject matter Probem-
solving pertaing solving pertaining to 3 -dimensional desig
Return to course offering page: $10,11,12$

# 3745 INTERMEDIATE 2D DESIGN 


learners and abled to to tlin, manarsene, and focus theif -motivated, self-diriected ductively. This course is designed for studdents whime have ancien aboveva and proge
interest and ability in art and are serious about continuin to oimprove their interest and ability in art and are serious about continuing to improve their
art skills as well as develop a personal style. More advanced techniques in
ar drawing, painting, printmakeping, and design will be invoncucced Apchiquates in ite
methods formatting displaying work and stretching canvas will be presented

Return to course offering page: 11,12

\section*{3744 INTERMEDIATE 3D DESIGN} | Year |
| :---: |
| Prerequisite: $3 D$ Desigig |

Grade 11-12
Est. Fee $\$ 40$ Prerequisite: 3D Design
Students snorled in this course needto be self-motivated, self-directed learn

 ability in art and are serious about continuing to improve their art skills as
well as develop apersonal style. More sophisticatedtechnitues in sculpture,
and ceramics will be introduced. Students will explore clay construction,
 exhibited in the annual student art show during thl quarter

3747 HONORS SENIOR STUDIO 2D DESIGN Year Credit 1
Prerequisite: Earn a Cor better in Intermediate 2D Design
Students enrolled in this $\$ 4$
St learners and able to plan, manage, and focus their time efficiently
 annual student art show during 4th quarter.
Return to course offering page: 12

## 3746 HONORS SENIOR STUDIO 3D DESIGN

 learners and able to plan, mange, and focus their time efficiently and pro ductively. The development of skills in advanced sculpture, ceramics, and metals as well as personal expression will be continued. Students in thi eribited in the anal sudent thow duing 4h quat Return to course offering page: 12

## 3470 CRAFTS IN ART

. 5 Credit Grades 9-12 Est. Fee $\$ 20$ class is for you! We will focus on creating functional art pieces (things yo can actually use) and/or using natural materials (metals, clay, glass, fiber to be used include jewelry, weaving. fabric, clay bowls or cups, mosai papermaking, and upcycling magazines.
Return to course offering page: $9,10,11,12$

## 3472 DIGITAL PHOTOGRAPHY

Semester
Prerequide
. Credit Grades 9-12 $\quad$ Est. Fee $\$ 10$
They say a picture is worth a thousand words. In this class, you will learn to use your camera to tell amazing stories through the photos you and more in relations to creating a dynamic, eye-catching iding software and more in relation to creating a dynamic, eye-catching image. Stude
should have their own camera (this could be a cell phone, "point and shoot" digital camera, or dSLR).

## 3741 ART APPRECIATION

Grades: 9-12
$\qquad$ and places to learn about interesting artists tee niques, and styles. Then, make your own art based on what we' ve learned
We will be writing and talking about art in tddition could include naturue sculptures, "drawing" with wire, 3 -dimenensional mast mandalas, zentangles, or "upcycled" mobiles. This class is open to all stu-
dents and can be taken as a stepping stone to art foundations or as an extra art class at any time.
Return to course offen

## 37421 AP ART HISTORY

Year Credit 1 Grades 9-12
Do other cultures, philosophies, time periods and their artworks fascinate
you? Sign up for APAH! Analyze how the artworks of diverse cultures you? Sign up for APAH! Analyze how the artworks of diverse cultures helped shape the world. Discuss how media and style reflect the given
civilization and time period. Learn and use the specialized vocabulary of the art world to write descriptions and analyses of art. A variety of artworks will be studied such a a architecture, manuscripts, paintings, drawings, prints
and sculpure. We will titilize a variety of learing activites in class suct and sculpture. We will utilize a variety of learning activities in class suc
as readings, visual presentations, VR activities, videos, discussions and field trips. Active particicipation in these activities are required for the class. Return to course offering page: 9, 10, 11, 12

ARTS \& COMMUNICATIONS PATHWAY

## VISUAL COMMUNICATION DESIGN I (SV)

## COLLEGE TECH PREP

Year
2 periods per day
din

## Cedi

 The job market for Visual Communication Design is one of the largest growing job markets in the United States and Europe. Key competencies thatare learned are the basic design principles, type and image as informatio and communication, visual hierarchy, computer technology and process presentation skills, and professionalism. Software packagages learned include Adobe Photoshop, Illustrator, Premiere,Autodesk Maya and Mudbox. Thes software packages are commonly utilized by professionals in the 2 D and 3D design industry today
Students will have the o
such as: logos. posters, packaging, magazine layouts, etc., and 3D project such as: architecture, vehicles, humanoids, landscapes and more. Video
creation with Adobe Premiere will constitute the last major proiect of the course. Career opportunities for Visual Communication Design are wide ranged, includings. Graphic Designers, Multimedia Specialists, Game De
signers, CGI Artists, 3D Animators and more.

## Honors Option

In addition to completing the course requirements above, honors students will be required to refine all finished course projects until they meet the 2D and 3D design standards of entry-level college portfolios.

8601 VCD I: Digital Print \& Design
8604 VCD I: Advertising \& Communication Return to course offering page: 11

## VISUAL COMMUNICATION DESIGN II (SV)

 COLLEGE TECH PREPYear Credit 2 $\qquad$ Grade 12
Design $I$
Students will have the opportunity to designg portfolio pieces using industry standard software. The course will also include a variety of print mediadesign for the advanced VCD students in the second year of study. All sudents will
have the opportunity to create their own portfolio for presenting their work for college entrance and post-secondary opportunities.

## 8605 VCD II: Digital Image Editing

8608 VCD II: Visual Creation
THEATRICAL PERFORMING ARTS (SV) $\underset{2}{\text { Year periods per day }}$ Credit Prerequisite: Application
This course is part of a two-year program. Students involved in this progran
will be eligible to earn transcripted college cedit Tlo will be eligible to earn transcripted college credit. The program provide
students with the opportunity to explore the professional dimensions of theatrical performing arts, including the dimensions of history, math and science, business and economics, technology, physical movement, languag literature, and more. Through the study and production of theatre, studen communicate visually as well as verbally. To create performances, students
must learn to innovate and collaborate. Theatre students develop strong
communication skills and the ability to work with a diverse group of people communication skills and the ability to work with a diverse group of peopl and learn creative problem solving.
The Theatrical Performing Arts program is a two-year program starting fo
the first time in $2019-2020$. n this first year the the first time in 2019 -2020. In this first year, the program is available for
junior and senior enrollment with junior priority. Seniors may apply as well, junior and senior enroliment with junior priority. Seniors may apply as well,
but will only be enrolled if space allows. The program will complete tw double-block courses in 2019-2020: Act provide other courses as detailed below.
Honors options are available for all program courses.

217 DANCE
hise course, students develop technical strength, preciseness, musicality, ovement and fer thence retention whire learning terminology for dance ional movement, they interpret and communicate stories and feelings.
Self-discipline, including emotional and nutritional health, are reinforced.

## 213 ACTING

his course focuses on maximizing an actor's physical and emotional exnession, vocal intonation, memorization, and imagination to convey stories
nd feelings. Other topics include material selection, developing a score of ction for a role, sustaining a character and self and peer criticicism. Students will also research major theatre genres and influences, breaking down a script to discover objectives, obstacles, tactics, and character development. expected to perform a role from an original or established piece of work

## 222 STAGECRAFT

Creating the set, balancing the lights, projecting video and engineering the ound all help to accentuate the script and characters in a show. Students ace. They use technology backround desim, enhance overall production with a focus on the script and director vision.

## 8219 MUSICAL THEATRE

he troupe member with abilities in music, dance, and acting has "triple treat" value in musical theatre. They analyze historical and current-day
xemplary models of musical theatre for storyline, musical arrangement xemplary modedsel of musical theatre for storyline, musical arrangement dd presentation of a musical production.

## BUSINESS \& MANAGEMENT PATHWAY

310 BUSINESS FOUNDATIONS
 Students will have the opportunity to investigate a a variety of businness fields while developing communication, critical-thinking, problem-solving, and
life-long learning skills. Students will actively participate in multimedia nstruction while exploring the following areas: intritroduction to bustimediass arketing, economics and personal finance, business law, accounting,
nanagement, international business, human resources, and entrepreneurship.
Return to course offering page: 9, 10

## 313 INTRO TO MARKETING

emester Credit $1 / 2 \quad$ Grade 9-12
Est. Fee \$10
his course introduces students to the specializations offered in marketing munications, marketing management, marketing research, merchandising, and rofessional selling. They will acquire knowledge of marketing strategies, market identification techniques, employability skills, business ethics and nd communications will be incorporated in classroom activities. Return to course offering page: 9, 10, 11,12

## 408 FINANCIAL ACCOUNTING

$\begin{array}{lcl}\text { Year } & \text { Credit } 1 & \text { Grades 10-12 } \\ \text { Sudents will track, record, summarize and ree } & \text { Est }\end{array}$ Students will track, record, summarize, and report a business's financia
transactions. They will develop financial documents, project future income rannsactions. heys wild develop financial documents, project future income
and expenses, and evaluate the accuracy of a business's financial informa ion. Students will also apply tools, strategies, and systems to evaluate a ompany's financial performance and monitor the use of financial resources. echnology, employability skills, leadership and communications will be leturn to course offering page: $10,11,12$

## MONEY MANAGEMENT

As students preatit $1 / 2 \quad$ Grade 10-12_ Est. Fee $\$ 10$ heed to make wise and informed financial decisions, become conscience and effective consumers, maximizze their earning potential, and ultimately
 mited to: budgeting and goal setting, consumer awareness, checking and aanking services, saving and investing, understanding your taxes, managing purchasing insurance, and career choices.

## BUSINESS TECHNOLOGY

## COLLEGE TECH PREP

Grades $11 \quad$ Est. Fee $\$ 30$
Prerequisiste: Application
ti sexpected that tll Tech
before erraduating.
This Tech Prep
his Tech Prep course is for the career- or colleg titerested in pursuing a career in business. Studene-bount will be budent whilizing the
popular soffware program Merososoft Office 2013 . Students will develo an understanding of business practices that are needed by everyone to excel in marketing, entrepreneurship, business communications, business econommarketing, entrepreneurrship, business communications, business econom--
ics, international business, technology, and career development in business. Susiness Technology students will acquire critical-thinkking, decision-making, sudents will have the chance to participate in regional, state, and national ompetition. These courses may be taken for honors credit. See the

83143 BUSINESS TECH
Strategic Entrepreneurship
rrvices, evaluate the feasibility of ideas, and deas for new products and ercialization. They will use technology to select topget a strategy for comget markets, define the venture's mission, and create business plans.
Students will take initial steps to establish a business. Students will calcuate and forecast costs, break-even analysis, and sales. Establishing brand, setting prices, promoting products, and managing customer relationships
will be emphasized. Students apply classroom learning segments to the will be emphasized. Students apply classroom learning segments to the experiences. Students are members of the student organization, Business
Professionals of America. This class tualifes for three college credits Professionals of America. This class qualifies for three college credits
with successful enrollment and completion of all College Credit Plus with successful enroilim.
Program requirements.

## 33144 BUSINESS TECH

## Business Administration Marketing

This is the first course in the Marketing career field. It introduces students to he specializations offered in Marketing. Students will obtain fundamental
knowledge and skills in marketing communications, marketing management, marketing research, merchandising and professional selling. They
will acquire knowledge of marketing strategies, market identification techiquues, employability skills, business ethics and law, ceonomic principles and international business. Technology, leadership, and communications
will be incorporated in classroom activities. Students are memers of the will be incorporated in classroom activities. Students are members of the
student organization, Business Professionals of America. This class qualifies studentorganization, Business Professionals of America. This class qualifies
for three college credits with successul) enrollment and completion of all
College Credit Plus Program requirements.

## 3146 HONORS BUSINESS TECH

Strategic Entrepreneurship \&
Business Administration Marketing
Kppores the same content covered in Business Fech 1 , but with higher level search, synthesize, analyze, and apply entroepreneseurial and describe, concepts to various case studies, writing assignments, research pareres and professional presentations. Students are expected to pursue leadership roles in school store operations and student organizations. This class qualifies
for three college credits with successful enrollment and completion of all Retlege Credit Plus Program requirements.
PAGE 57

Prerequisite: Business Technology $I$
This seniter This senior level program is for students who wish to continue gaining
valuable business skills. Instructional emphasis will include profession valuable business skills. Instructional emphasis will include professional
development and networing.business law, human resource management,
general adminitrative finction and technology. During second semester, students will be released during and thechnology. Dusing second semester, stadents wart in apart-time business internship experience with an area business. Students will become a member of Business Professionals of
America and may compete at regional, state, and national competition. All America and may compete at regional, state, and national competition. All
Tech Prep students will be required to complete a senior project. Students
may receive college credits through dual enrollment. These courses may be may receive college credits through dual enrollment. These courses may be

## 83153 BUSINESS TECH II:

## Management Principles

Students will apply management and motivation theories to plan,
organize and direct staff toward goal achievement. They will learn to manage a workforce, lead change, and build relationships wit
employees and customers. Students will use technology to analyze internal and external business environment, determine trends impac ing business, and examine risks threatening organizational success. Ethical challenges, project management and strategic planning will also se addressed. Students apply classsoom learning segments to
the successful completion of a second-semester internship. Students are members of the student organization, Business Professionals America. This class qualifies for three college credits with success ful enrollment and completion of all College Credit Plus Progra

83154 BUSINESS TECH II
Human Resources Management
Sudents will develop human resources strategies to prepare job
search portfolios as well as the skills necessary to obtain, retain search portfolios as well as the skills necessary to obtain, retai utilize technology to create job applications, job descriptions, and job profiles to support the talent acquisition process. They will lear to recruit applicants, administer employment assessments, condu background investigations, and make and communicate hiring deci-
sions. Students will also develop employee handbooks and establis performance improvement processes. Rewards and recognition pra tices, relationship management and compliance will be addressed semester of this course. Students apply classroom learning segments semester internship experience. Students are members of the studen organization, Business Professionals of America. This class qualifies
for three college credits with successful enrollment and completion of all College Credit Plus Program requirements.

83155 HONORS BUSINESS TECH II: Management Principles \&
Human Resources Management
Explores the same content covered in Business Tech II, but with processes. Students describe, research, synthesize, analyze, and ap processes. Students describe, research, synthesize, analyze, and ap-
ply entrepreneurial and marketing concepts to various case studies, writing assignments, research papers and professional presentations Honors students are required to network and engage with the business research papers. Students are expected to pursue leadership roles in
student ${ }^{\text {a }}$ Capstone senior proiect trior to internship involvement. This cla qualifies for three college credits with successful enrollment and completion of all College Credit Plus Program requirements. Return to course offering page: 12

FINANCIAL MANAGEMENT I (SV)
COLLEGE TECH PREP
$\underset{\text { Year Credit 2 }}{ }$ The Financial Management courses are for the career- or college-bound
student who is interested in pursuing a career in business management. Career and academics skills are integrated and will grant you the eoportunity
to gain practical knowledge associated with real-world business situation to gain practical knowledge associated with real-world business situation
An emphasis is placed on critical thinking skills as they relate to financia An emphasis is placeco on critical thinkking skils as they relate to financial
manageement, money, investments, banking and credit, financial planning professional developpment and neteworking. Special activititises will introduce
you to careers and professionals in the financial management industry. Members of the local business community will be utilized to bring experience and reall life application to the classroom. You will become a memb
of Business Professionals of $A$ merica of Business Professionals of America and may compete at regional, stat
and national competitions. During second semester of senior year you will internship at a local business to provide experiences to tourther prepare yo for your business future.

## Fundamentals of Financial Service

Students will develop knowledge and skills needed in the banking, insuranc and investment industries. Theye yind analy sze eankening the brodunkts and sensruices,
determine ways in which insurance reduces risk, and calculate insurable losses. Students will also learn to sell financial products and build positive
relationships with clients and colleagues They will use financial relationships with clients and colleagues. They will use financial ratios Technology, employabiility skills, leadecrship and communications will be

Honors Option:
Sudents will be required to interview a local business leader, complete research report and discuss the local business leader's philosophy in form
presentation.Additional requirements include 8 hours of community servic presentation.Additional requirementsinclude 8 hours of community service.
This may be accomplished through o olunteering in the local community
at the high school (approval required).

## 86104 FINANCIAL MANAGEMENT I:

## Financial Accounting

Students will track, record, summarize, and report a business's financia transactions. They will develop financial documents, project future incom tion. Students will also apply tools, strategies, and systems to evaluate company's financial performance and monitor the use of financial resource Technology, employability skills, leadership and communications will be

## Honors Option

In addition to completing the requirements above, students will complete di complete ounting "Challenge" problems. Also, students will berequire formal classroom presentatan discuss a business leader's philosophy a formal classroom presentation.
Return to course offering page:

## FINANCIAL MANAGEMENT II (SV)

COLLEGE TECH PREP

This senior level program is for students who wish to continue gaining valuable business management knowledge and skills. You will understand and
apply various financial management techniques. During second semesté, you will internship at a local business to provide experiences to furthe prepare you for your business future. You may become a member of Bus-
ness Professionals of America and compete a t regional, state, and nationa competitions. All Tech Prep students will be required to complete a senio project. Upon successful completion of this two-year program, you can ea transferable college credits.

## 36113 FINANCIAL MANAGEMENT II:

Corporate Finance
Udentswil manage policy and strategy for corporate budgeting, investment, nd financial planning. They will calculate profitability, predict business within and across industries. Students will also develop and track the chievement of financial goals. They will determine how to balance risk with return and select strategies for recovering from risky situations an will be incorporated in classroom activities.

## Explores the same con:

xplores the same content covered in Corporate Finance, but with highe search, analyze, and apply financial concepts to various cuse sts wil Iesearch, analyze, and apply financial concepts to various case stucies, ents are expected to pursue leadership roles in the classroom and studen

## 36114 FINANCIAL MANAGEMENT II:

## Management Principles

Students will apply management and motivation theories to plan, organize direct staff toward goal achievement. They will learn to manage a work force, lead change, and build relationships with employees and customers
tudents will use technology to analyze the internal and external business nvironment, determine trends impacting business, and examine risks threat ning organizational success. Ethical challenges, project management and rategic planning will also be addressed.

## Honors Option:

tudents are required to complete a Capstone senior project prior to internship volvement. The project may involve addititional research and community activities. Students mayalso earncol
Return to course offering page: 12

## COMMUNICATIONS

## Credit $1 / 2 \quad$ Grades 9-1

Drama is a semester course surveying the basic elements of acting. Students iill explore pantomime, voice, improvisation, stage direction, movemen roughout the semester. With instructor approval, this course may be take or honors credit.

## eturn to course offering page: 9, 10, 11, 12

## 114 THEATER WORKSHOP

Semester Credit $1 / 2$ Grades 9-12 Est. Fee: $\mathbf{5 2 5}$ (for supplies) Theatre Workshop is a semester course introducing the basic elements of tagecraftand technical theatre. Students will explore the "behind the scenes ake-up, costumes, lighting, sound, publicity and theatre business culminat in the creation of a personat tecchnical thearte port.

## 117 PUBLIC SPEAKING

Semester Credit $1 / 2 \quad$ Grade 9-12
colic Speaking is a semester course that introduces students to speech heir abilities in a variety of speaking formats. Speaking opportunities will include informative, demonstration, impromptu, and persuasive speeches as ell as debate utilizing parliamentary procedure. With instructor approval. is course may be taken for honors credit.

3171 DEBATE
Credit 0.5 Grade(s) 9-12
his course introducess students to the research, , writing, and speaking skills and resolutions, analyze debate theory and practice, and apply critical listening and speaking skills to their arguments.

## 137 CREATIVE WRITING

Cre

## Credit $1 / 2$

## Credit $1 / 2$

$\qquad$
$\qquad$ creative writing. It will challenge studeride a foundation for students outlet for their own unique, creative students in a new way and provide an imarily focus on all forms of poetry and short story writing, while allowcourse will also feature more creative pieces of literature to assist in the pploration of style, form and genre. Some supplemental materials may be required and must be purchased or supplied by the student
Return to course offering page: 9, 10, 11,12

## 760 ART OF PHOTOJOURNALISM

Semester Credit $1 / 2 \quad$ Grade $9-12$
Crefenence given to to thit and 10th Graders.
Sudents will earn the basics of dig ital poter
 Students enrolled in the class can use their own digital camera or one of he school supplied cameras. Additional equipment, while helpful, is no necessary. This course fulfills half of the requ
Return to course offering page: 9, $10,11,12$

## 3120 INTRO TO JOURNALISM

$\qquad$
Preferred pre-requisite class for newspaper staff.
The students will learn the basics of working on the newspaper and yearbook afft This course will require the students to practice varioustypes of writing tafl. Thiscourse will require the studentstopractice varioustypes of writitn
ncluding news, sports, editorials columns, reviews, and features. Students
are taught interviewing news gathering kkills, and copyedititng techniques. are taught interviewing, news gathering skills, and copyediting techniques.
Students will also learn about design using computers in media production well as infographics, headlines, caption writing and design.

## 128 JOURNALISM

Credit 1 Grades 10-12
PERMISSION OF THE INSTRUCTOR IS REQUIRED. Members of the Journalism Staff produce the Student Prints school newspaper. It is expected that Journalism students will provide continuity to the
newspaper program and generally provide the leadership on the paper. It is also expected that each Journalism student will help in the production, planning, advertising campaign, research, writitg, photography and design
of the newspaper. The work involved in this class demands that extra time the newspand the be spent beyond the regularly assigned publications period. Staffers often
spend evenings completing deadlines. Staff selections are made through aplication and appointment in December and January

## 3129 YEARBOOK

$\underset{\text { Year }}{\text { Credit }} 1 \quad$ Grades 10-12
A Pay-to-Participate fee is associated with this class.
Photojournalism or Photo Portfolio required for photographers to apply
for staff position. Members of the yearbook staff produce the Wyandotte
 taff member is encouraged to sell a quota of advertising for the yearbook. The work involved in this class demands that extra time be spent beyond
the regularly assigned publications period. Staffers often spend evening he regulary assigned publications period. Staffers often spend evenings
completing deadines. Although there are no prerequisites, Introduction to Journalism or a solid background in other English courses is recommended for most staff positions. Staff selections are made through application and appointment in December and January.
Return to course offering page: $10,11,12$

## PATHWAY

## 8394 ENGINEERING APPLICATION

Semester Credit $1 / 2 \quad$ Grades $9-12 \quad$ Est. Fee $\$ 10$ in pursuing a career in engineering and/or design. Students involved should have an interest in math and sciences. Students will intera ing skills with project-based learning. Students will also explore the following areas: electrical engineering, mechanical engineering, and structural engineering through design and prototyping of projects
completed in class. Students completing two $1 /$ credits or 1 full credit completed in class. Students completing two $1 /$ credits or 1 full cred in this pathway will fulfill the Fine Arts re
Return to course offering page: $9,10,11,12$

## 8392 ENGINEERING DESIGN

$\qquad$ Credit . 5
designed to be $\qquad$ Grades 9-1

Est. Fee $\$ 10$ This course is designed to be a prerequisite to Computer Aided Deesign and an introduction to techical sketching and drawing. Emphasis will be on the
fundamentals of mechanical, pictorial, and architectural drawing. Students will be expected to sketch and draw every day. Additional topics include geometric design, mult-views, section views, and auxiliary views. Sudents
will complete a hands-on, problem solving activity by the end of the course Students completing two $1 / 2$ credits or 1 full credit in this pathway will fulfill the Fine Arts requirement for graduation.
Return to course offering page: 9, 10, 11, 12

83921 3D MODELLING \& PROTOTYPING Year Credit 1

$$
\text { Credit } 1 \text { Grade } 9-12
$$

Est. Fee S10 $^{\text {NG }}$ This course will give student an in depth view of Computer Aided Design
and is recommended as the second or third course in the Engineering Path way. This course will introduce the 3D Solidworks software package and
students will learn how to dimensional scanning technology will also be incorporated into the classroo which will be utilized to digitize real objects. This course will also requir students to complete problem solving projects relating to course materia
Students enrolled should have a interest in math and sciences. Studen completing two $1 / 2$ credits or 1 full credit in this pathway will fulfill the Fin Arts requirement for graduation.
8396 INTRODUCTION TO ALTERNATIVE ENERGY
 This course is designed for students who are interested in pursuing a caree
in engineering. One major objective of this course is for students to learn about and explore innovative ways to power our society. As our world changes, the need for individuals who are trained in this growing field are
in high demand. "Green" cocents energy trends and potetial in high demand. Green concepts, energy trends, and potential ways to
cut energy costs will be discussed. Particular areas of interest will include cut energy costs will be discussed. Particular areas of interest will inclual
solar, wind, hydro, and geothermal energy. Basic electrical concepts will be introduced with lab activities. Students will also learn about fossil fuels, nuclear energy, biofuels, fuel cells, and biomass-energy. Students completing ill fulfill the Fine Arts Return to course offering page: 9, 10, 11, 12

## 8398 COMPUTER AIDED DESIGN (CAD)

 Semester Credit .5 Grades 9-12he field of two dim Est. Fee $\$ 10$
ensional Comput This course is an introduction to the field oftwo dimensional Computer
Aided Design and is recommended as the second or third course in the Engineering Pathway. This course will introduce the first software package from the CAD ACADEMY curriculum as well as a wide variety of technologies relating to engineering, product design, and design as students learn how to operate basic functions of the software This course will also require students to complete problem solving projects relating to course material. Students enrolled should have a
n interest in math and sciences. Students completing two $1 /$ credits n interest in math and sciences. Students completing two $1 / 2$ credits or 1 full credit
for graduation
PAEEE 60 ourse offering page: 9, 10, 11, 12

482 ENGINEERING TECH PREP II:
tudents will apply the knowledge and skills necessary to program and oper te robots, using the teach pendant as sthe main inserface point. The students
iill learn robotic operations and system configurations. Sutudents will code, ifl earn robotic operations and system configurations. Students will code. 486/8487 Senior Honors Engineering
tudents participating in Honors Engineering during the senior year will ter school to accomplish a task proposed by the team, and approved by rofessional governing organization (NASA, Tripoli, NAR) and the instrucor. Students on this team will be expected to dedicate a specific amount of
eturn to course offering page. 12
CONSTRUCTION I (SV)
COLLEGE TECH PREP
Year Credit 3
periods per day
Grade 11
Est. Fee 665
periods per day
Prerequisite: Applicatio
ents a well-rounded
undation and preparation for entry into the always-expanding construc on industry. Students will learn about $\mathrm{AC} / \mathrm{DC}$ circuits, residential wiring oontrols wiring, heating air conditioning \& applied thermal science, rigging he principles learned will be tested through lab and field experiences. The tudents will learn carpentry skills and use tools that the professionals use. Qualifying students will be placed with a local employer for paid work
xperience and training during the second semester of senior year. Are you ready to work toward a high paying career in the construction industry?

## 4893 CONSTRUCTION I:

ore \& Sustainable Construction
Students will learn principles in basic safety (10-hr OSHA), construction math, hand and power tool are and operation, blueprint reading, material
handling, communication and employability skills. An emphasis will be aced on safe and green construction practices.

## 4895 CONSTRUCTION I:

tructural System
of walls and ceilings, ines and techniques required for layout and framnstructing corners and partitions; bracing walls and ceilingss; and apply, ing sheathing. Students waill learn methods of roof, cold formed steel, and ood stair framing. Students will learn site and personal safety, material

## 4897 CONSTRUCTION ILAB

Return to course offering page: 11
CONSTRUCTION II (SV)
COLLEGE TECH PREP
Credit 3 Grade $12 \quad$ Est. Fee S56
periods per day Tech Prep Program

## 4903 CONSTRUCTION II:

Carpentry \& Masonry
scourse wilt introduce to students the materials, methods, and equipment din asonry. Sudents will organize a project work sequence will layout and install basic wall, floor and roof applications. Students will perform introductory concrete applications including formwork, reinforcement, mixing, and finishing. Current advancements in technolog,

## 4905 CONSTRUCTION II:

tructural Coverings and Finishes
his course will address appications of interior and exterior finish work. Ludents will identify material properties and select for appropriate applica-
tion. Students will install thermal and moisture protection including roofing iding, fascia and soffits, gutters, and louvers. Students will install drywall, rim-joinery and molding and apply wall, floor and ceiling coverings and nishes. Throughout the course, the safe handling of materials, personal

## 4907 CONSTRUCTION II LAB

Return to course offering page: 12

## ENVIRONMENTAL \&

AGRICULTURE PATHWAY
8441 HORTICULTURE LEADERSHIP
Year Credit $1 \quad$ Grade 9-10 Est. Fee $\$ 17$
to Agricultural Year first course Credit career field is and introduction to Agricicultura
This find
and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental wal Systems career fied old. They will
xamine principles of food science natural xamine principles of food science, natural resource management,
nimal science \& management, plant \& horticultural science, powe technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughou course, students will develop communication, leadership and usiness skills essential to the agriculture ind
Return to course offering page: $9,10,11,12$

## 3442 PLANT \& HORTICULTURE SCIENCE (SV)

 oresearch, develop, produce and market agricultural, horticultural, and aative plants and plant products. Students will apply principles of plant physiology and anatomy, plant protection and health, reproductive biology in plants, plant nutrition and disorders to the management of soils and plants. usiness management skills reflective of the industry.
Return to course offering page: 9, 10, 11,12

## HORTICULTURE I (SV)

## Credit 2 R

$$
\text { Grare } 11
$$ the focus of the Horticulture program is to prepare individuals for and

to assist them in obtaining a career in the agricultural field in conjuncton with apurposeful education. The Horticultureprogram is designed
to give students the opportunity to participate in a multifaceeted and o give students the opportunity to participate in a multifaceeted and
cooperative program by providing internships or work experiences in the specific area of the student's interest. The primary emphasis of he program is classroom instruction with hands-on projects.

## 3433 HORTICULTURE I:

Parks \& Recreation
Students will design facilities, develop educational programs and manage resources for use in public recreation. Students will maintain and operate equipment for maintaining wildlife habitat and supporting
a variety of public recreational activities and facilities. Throughout the course, students will develop marketing and programming skills for park development, apply management practices to park operations and learn the systems required to maintain public safety. Students will nderstand different ecosystems and handle animals that are closely ived in our park system.

8434 HORTICULTURE
Greenhouse \& Nursery Management
growth of nursery stock and/or greenhouse plants. They will lessfu sential greenhouse practices including water and fertilizer distribution lighting, ventilation and temperature control. Students will learn pe and disease identification and control along with bio-security practices.
Students will demonstrate knowledge of propagation health, nutrition, and growth stimulation. Throughout this course, business and employability skills will be emphasized.

## HORTICULTURE II (SV)

## ${ }_{8437 \text { HORTICULTURE II: Grade } 12}$

Landscape Systems Managemen
Students will learn methods for estabbishing and managing landscapes to
promote growth and balance. The classification and care of woody and
herbaceous landscape plants will be learned. Students will earn to growing conditions, balance nutrients, and manage pests and disease. They will apply proper planting, fertiliziniz, and pruning techniques while safely
operating well maintaned specialized equipment Throughout the course, operating well maintained specialized equipment. Throughout the course,
students will assess implications of landscape installation on the enviro students will assess implications of landscape installation on the enviro
ment, and employ communication, business, and management strategies.
8439 HORTICULTURE II: Business Management
Students will examine elements ofbusiness, identify organizational structures
and apply management skills while developing business plans, financial and apply management skills while developing business plans, financia
reports and strategic goals for new ventures or existing businesses. Learn-
ers will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches promotion and pricing strategies. Throughout the course, students will ap-
ply concepts of ethics and professionalism while implications of busines ply concepts of ethics and professionalism while implications of busines Return to course offering page: 12

## HEALTH, EDUCATION \&

HUMAN SERVICES PATHWAY
8330 HEALTH CAREERS FOUNDATIONS

## Credit $1 / 2 \quad$ Grade $9-10$

cal or health-esigned to give students with an interest in pursuing a med cal or health-related career overview of the numerous health occupation.
In students will learn occupational skills needed for those professions students will gather information about selected health care careers throus participation in a series of hands-on projects. A broad concept of ho
health care is developing their own necessary abilities to assure success in the emplore developing their own necessary abilities to assure success in the medical
field. Building professional attitudes ethical behavior, and communication skills are a few of the areas that will be discussed.
ofring page.
8377 PRINCIPLES OF NUTRITION \& WELLNESS Semester Credit $1 / 2$ Grade 9-12 Est. Fee $\$ 2$ In this course, students will use principles of nutrition to ensure
a healthy body throughout the life cycle. An emphasis will be placed on planning and preparing meals with an understanding Additional information will include steroid and supplemental use body weight and management and the implementation of physica


8379 CULINARY ARTS FUNDAMENTALS
Year Credit 1 Grade 11-12 Est. Fee \$4 In this course, students will apply fundamental culinary techniques
such as knife handling skills and the recognition selection, and proper use of tools and equipment. An emphasis will be placed on mise en place, the management of time, ingredients, and equipment. Students will apply standard recipe conversions using proper scaling
and measurement techniques. Basic nutrition, and food safety and sanitation will be aligned to hospitality standards.
Return to course offering page: 11,12
8376 PERSONAL WELLNESS \& DEVELOPMENT Semester Credit $1 /$ social and intellectual growth for a healthy lifestyle. An emphasis will be placed on lifespan wellness by managing stress through relaxation, physical activity and sleep. Additional topics wil inclu human growth development, mental health management, personal
hygiene and preparing for emergency medical situations. This course may serve as the Health credit.

## 8380 PRINCIPLES OF FOOD

 and apply preparation methods to promote a healthy lifestyle. Student will apply cooking methods, ingredient selection and nutritional information in the context of selected food dishes. Throughout the

Semest
This class is for students who are exploring career options in the field of
 ing and administration are also introduced. This is primarily a project based class that incorporates ‘hands-on'activities, class discussions, presentation
and various types of classroom practice. By conpleting this and various types of classroom practice. By completing this foundation
course, students will have a greater understanding of opportunities availib to them in the education field. If a student has continued interest in pursuig a career in education, they may explore other education options offered in the junior and senior years.
Return to course offeng page: 9, 10

## Year <br> Credit 3 <br> rade 11

Est. Fee $\$ 75$
83811 CURRICULUM AND INSTRUCTION Students will develop age-appropriate learning experiences and cur-
riculum to engage young children. They will determine curricular gol create lesson plans, and employ observation and assessment strategies to evaluate children's growth and development. Application of foundational
principles of reading, writing, speaking and listening skill to principles of reading, writing, speaking, and listening skills to enhance
the learner's spplication of literacy will be emphasized.

83815 OBSERVATION AND ASSESSMEN
Students will formally and informally observe young children to determine learners' growth, personalities and required interventions. They
will analyze children's behavior record and categnize learner progess will analyze children's behavior, record and categorize learner progress,
and use observation to diagnose problems. The role of assessment data in developing suitable teaching responses and strategies will be examined.

## EDUCATION \& TRAINING II

83821 PRINCIPLES: HISTORY AND PHILOSOPHY Students will examine the history and philosophy of early childhood education, types of early childhood programs, and the roles, rights and responsibilities of learners and stakeholders in early childhood education.
Students will assess developmental apropriate practices, legal ethical Students will assess developmental appropriate practices; legal, ethical
and organizational issues; and the challenge of teaching and caring for young children wits diverse needs. Career planning and professionalism
will also be emphasized throughout the course. young children with diverse needs. Career plane
will also be emphasized throughout the course.

3825 HEALTH, SAFETY, AND NUTRITION
sudents will establish and maintain a physically and emotionally safe and d CPR, identify signs and symptoms of common health issues and diseases and develop meal and snack menus appropriate for young children of differint ages and stages of development. The effects of nutrients on children's

## 83835 CAPSTONE

Students apply Education and Training program knowledge and skills in more comprehensive and authentic way. Capstones are project/problemased learning opportunities that occur both in and away from school
Under supervision of the school and through partnerships, students combin Ulassroom learning with work experience to benefit themselves and others hese can take the form of mentorship employment, cooperative education, pprenticeships and internships.

## 8351 COSMETOLOGY FOUNDATIONS

ear Credit 10 Grade(s) 9-10 Est. Fee: $\$ 25$ for manicure kits This course is highly recommended for students who may be interested in
pursuing a careerincosmetology.Thiscourse isdesignedto cultivate proper attitude and behavior patterns needed to become a successful cosmetologist. Content topics explored include: History and Career Opportunities, Life Skills, ommunication, Hair Disorders and Diseases, Braiding, Facial Make-up,

## COSMETOLOGYI

COLLEGE TECH PREP
Credit 4 Grade $11 \quad$ Est. Fee $\$ 350$ periods Cosmetology per day plus 1 additional period of Anatomy.
Cosmetology is a two-year program that studies in depth the beauty industry. Cosmetology is a two-year program thal studies indepththe beauty industry. Jer day and will work in both a lab and classsoom setting four periods per
per
day. Cosmetology is $\$ 55$ bill lion a eear industry that is growing. It is an inday. Cosmetology is a 552 billion a year industry that is growing. It is an in
dustry with zero unemployment. It offers unlimited growth potential forthose ustry with zero unemployment.II offers unlimited frowth potential forthose
Sho set their own goals. Possible career choices for Cosmetology are Hair
Stylist, Nail Technician, Make-up Atrist Esthetician, Salon Owner Salon Who set heir own gaals. Possible career choices for Cosmetology are Hair

3501 COSMETOLOGY
Trichology
Students will le
denis will learn the anatomy of the head and scalp, structure of the hair nd various techniques and procedures for analyzing hair, scalp disorders ensity, texture and growth patterns as well as conduct chemical
teated hair and ability to recommend corrective scalp treatment.

\section*{3503 COSMETOLOGY

## 3503 COSMETOLOGY <br> fundamentals of Hair Cutting \& Styling

tudents will learn basic shampooing, conditioning and hair-cutting includwith natural and synthetic hair Students will also learn infection control nd safety along with the sci

## 3505 COSMETOLOGY

undamentals of Chemical Services
Students will apply basic skills, knowledge, and safety practices when siving permanent chemical waves, curr re-forming, chemical relaxers and
hair color techniques to include tinting, highhlighting, bleaching and foiling.

## 83507 COSMETOLOGY Hand \& Foot Treatments

Students will learn the knowledge and skills to perform both manicures and pedicures. They will learn how tomaintain personal hyyiene and infection control. Students will give plain/oil manicures, pedicures, and hand harm
and footlleg massages. Enhanced hand and foottreatments using specialized products and techniques will be performed.
Return to cowse offering page: 9, 10, 11, 12

8355 COSMETOLOGY II
Est. Fee $\$ 150$ This is the second year program for Cosmetology. Senior Cosmetology students can provide services for clientele, intern in an area salon, and practice for the upcoming licensing exam. Upon passing the exam, the stu
be licensed by the State of Ohio as a professional Cosmetologist.

## 83511 COSMETOLOGY II:

## Advanced Hair Cutting \& Styling

cudents will learn advanced cutting and formal styling using specialized equipment and techniques.

33513 COSMETOLOGY II:
Advanced Chemical Services
Students will learn advanced chemical services using specialized products and techniques. Students will do advanced coloring, dimensional coloring, techniques.

## 83515 COSMETOLOGY

## kin Care Fundamental

Sudents will apply the principles of anatomy, skin analysis, infection control Students will use helectrical and, skanipulatative facis) and frateacial massage. masks, packs, and make-up techniques. Students will also learn advanced skin care treatments, targeted massage, end enhancement applications using

83517 COSMETOLOGY
Salon Operations
tudents will learn the fundamentals of managing a cosmetology salon. thases, record keepingout employment and custo

## MEDICAL TECHNOLOGYI

8333 ANATOM
Year Credit 3 1 period per day Anat.
Prerequisite: Application

## 83311 MED TECH I:

Medical Terminology
hised course explores the root words, suffixes and prefixes of the vocabulary the nervous, skeletal, cardiovascular, muscle and other major systems of the human body, and they discuss terms related to physiology, anatomy
and pathological conditions. Sudents learn to spell, define and pronounce common medical terms.

83351 Med Tech I: Principles of Allied Health tudents will be trained as emergency responders and instructed in basic Emergency responders are trained to reach patients, find out what is wrong and provide emergency care. Sudents will receive the following certififcates: merican Heart Association Basic Life Support (BLS), CPR/AED and Fist Aid. Also covered: preventing disease transmission, diseases and
disorders, ethics, communications, and vital signs. "Real-world" experience will be acquired through professional guest speakers, health care field trips and victimpatient care skills. All Med Tech students are required to
take Anatomy \& Physiology which will be automatically scheduld ake Anatomy \& Physiology which will be automatically scheduled upon enrollment in this program.

83353 HONORS MEDICAL TECHNOLOGY

Honors students will have additional assignments related to patho involve an understanding of both normal and abnormal body pro cesses, critical thinking skills, and application skills. Students will be assigned to research patient case histories, current news reports, and
pathology, and they will complete more comple writing assignme and deliver presentations. Students will work in collaboration with the instructor to become a master of specific topics to instruct their peers and individuals in our community. Students must demonstrate Occupation Skills of America), the classroom through HOSA (Health community service projects. Additional assignments, in-class experit ences, and out of c
who select honors.

## MEDICAL TECHNOLOGY II <br> COLLEGE TECH PREP

 Year Credit 43 periods per ay Med Tech Grade 12 7 periods ser week Chemistry
Prerequisite: Medical Technology $I$

INFORMATION

## TECHNOLOGIES

## PATHWAY

8311 SOFTWARE APPLICATIONS
Semester Creait ${ }^{2}$ Grade.9-12 Est. Fee \$10 The emphasis of this course is to extend your knowledge of Microsoft Of
fice 2016 (Word, Excel and PowerPoint). Miicrosoft Access and Publisher will le introduced. You will use this proper procedures and techniques to
create more advanced documents, workbooks and present create more advanced documents, workbooks, and presentations suitab
for course work, professional purposes, and personal use. You will also for course work, professional purposes, and personal use. You will also
learn how to use Publisher to produce advanced documents, workbooks
brochures, flyers, and presentations.

8309 TODAY'S TECHNOLOGY
Semester Credit $1 / 2$ Grade 9 -1 $\qquad$
This course is designed to improve students 'proficiency in the use of digital technologies. Using communication and networking tools as well as social
networks appropriately to access, manage, integrate, evaluate and create information. Through a hands-on approach this course enables students to actively explore web 2.0 applications. Areas of concentration may include
digital citizenship, determining internet and research trustworthiness, digital citizenship, determining internet and research trustworthines,
presentation and collaboration tools, research, organization, and concep mapping tools, and other widgets in order to better complete academic, professional, and personal endeavors to sucessfully function in today technologically driven society

8415 INTRO TO COMPUTER PROGRAMMING Semester
This course wirgra ces ard
learn how to program in a variety of languages that are being used in mand career fields. Emphasis will be placed on learning how to logically proces a problem and design a solution as well as how to create and manipulate objects, classes, and structures. Some time may be devoted to designing
apps. Included in the year are projects that enhance the learning of each programming language and foster creativity and innovation.

## 8545 2D GAME DESIGN

Semester Credit: $1 / 2 \quad$ Grades: 9 -12 Est. fee: $\mathbf{\$ 1 0}$ The 2D Game Design course is designed to be an introduction to the rapidly expanding market of game creation. Students will learn to design
and program games using GameSalad Development Environment The and program games using GameSalad Development Environment. They
will learn industry standard programming constructs while creating will learn industry standard programming constructs while creating
wide variety of two-dimensional games. Students will learn input metho handling, animation, collision detection, game physics and basic artificial
intelligence. Creative problem solving will be key as students plan the logic intelligence. Creative problem solving will be key as students plan the logi
for contests that will challenge audiences of different ages. Graphic design and storyboarding will be used in conjunction with GameSalad to create
applications that can be deployed in both the Apple and Android mark applications that can be deployed in both the Apple and Android markets
while also publishing online using HTML. After successfully completing while also publishing online using HTML. After successfully completing
this course, students will have the knowledge to create custom games from their original idea to final testing.

HONORS PROGRAMMING I (SV)
COLLEGE TECH PREP
Year Credit 2 Honors Programming I is part of a two-year college tech prep program.
The first year of this program includes the courses Honors Object Oriented Programming and Honors Visual Programming. In Honors Programming
students learn and practice key computer science concepts by designing and developing new applications. Students will learn object-oriented principles that will apply to some of the most highly demanded industry languages while concentrating on Java. Honors Programming Ifocuses on the proble solving side of soffware development while covering basic programmin
principles and the effective use of appropriate syntax. Students will lear principles and the e feccive use of appropiate synax. Sucdents whi lea
to create and test their own programs while preparing for a lucrative caree in one of the best jiob markets in the country. Students completing Honors
Programming I will fulfill the Ohio Fine Arts requirement forgraduation.

541 HONORS PROGRAMMING
Object Oriented Programming
his course is one part of Honors Programming I and must be taken in Programming presents a conceptual and practical introduction to object oriented programming, exemplified by Java while providing a foundation for the Java programming language. The course will cover basic program-
ming principles in structured and object oriented frameworks. The course
should enable students to develop programs that have the capacity to test and observe particular algorithms.

## 540 HONORS PROGRAMMING I

## Visual Programming

his course is one part of Honors Programming I and must be taken in conjunction with honors Object Oriented Programming. Honors Visual
Programming provides a foundation for the design and implementation of programs that utilize a visual user-interface. Topics covered will include designing the interface; the message/event driven programming model
bgical structure of programs; control containers such as graphics, dialogs, logical structure of programs; control containers such as graphics, dialogs,
and forms; and controls, including buttons, sliders, mouse motion, and edii boxes. After this course, students will be able to design and create applica ons with a working Graphical User Interface.
Return to course offering page: 11

## HONORS PROGRAMMING II (SV)

COLLEGE TECH PREP
Grade 12
Est. Fee \$60
 second year of this program includes the courses AP Computer Science $A$
and Honors Computer and Mobilie Applications. In Honors Programming II students learn and dractice key computer science concepts by designing and
developing new computer and mobile applications. Students will continue developing new computer and mobile applications. Students will continue
o develop object-oriented programs while focusing on mobile apps. Stuo develop object-oriented programs while focusing on mobile apps. Stu-
dents will design, create, install, test, and modify their own mobile apps on different devices and operating systems. Honors Programming II I provides
preparation for the AP Computer Science Aexamination while also providing reparation for the AP Computer ScienceA Aexamination while also providing solid background for students pursuing a career in the lucrative and rapidly
xpanding world of computer programming and mobile app development.

## 5543 HONORS PROGRAMMING II:

## Computer Science A

conjunction with Honors Computer and Mobile Applications be taken in Science A includes items coovered in most college entryt-level computer science courses. The curriculum follows the outline for AP Computer Science
Adeveloped by the College Board. Topics covered include problem solving sing logic, programming methodology, procedural abstraction, and the use using logic, programming methodology, procecdurat abstraction, and the use
of algoorithms and data structures. Students will gain familiarity with basic yntax, classes, objects, and data types focusing on, but not limited to, the ramming language.

## 8542 HONORS PROGRAMMING II:

omputer and Mobile Applications
his course is one part of Honors Procramming II and must be taken in conjunction wit AP Computer science A. Honors Computer and Mobile
Applications provides the training for students to create applications fo mobile devices using commercial and open source software. Students will
write code for mobile apps that will be compatible with millions of Android write code for mobile apps that will be compatible with millions of Androi
and iOS devices. Students will design and create applications, install thes and ios devices. Students will design and create applications, install these
apps on mobile devices for testing, modify them, and develop the skills needed to handle user issues. Programming concepts will be taught with roduct life cycle and sustainability in mind so students Retatable apps that course offering progrese: 12

8546 HONORS COMPUTER PROGRAMMING I (NV) ${ }_{\text {Year }} \quad$ Credit
 Honors Programming 1 is part of a two-year college tech prep pro-
gram. The first year of thi s program includes two courses focused on teaching basic computer programming principiples throughg problem
solving. Specifically, students will learn data base management and other programming applications within the business field. Students other programming applications within the business field. Students
will learn to create and test their own programs while preparing will learn to create and test their own programs while preparing
for a lucrative career in one of the best job markets in the country.
Students Students completing Honors Computer Programming I will fulfill Ohio Fine Arts requirement for graduation.

## 8546 HONORS COMPUTER PROGRAMMING I: Sys-

 ems Analysis \& Designtudents will learn the theory and practice of software testing and develop in understanding of the analysis and design phases of software development. Students will effectively yse appropriate programming languages and
software patterns to improve software development. A variety of commercia open source programs, applications, and tools will be used.

## 8543 HONORS COMPUTER PROGRAMMING I

AP Computer Science A
This course is one part of Honors Programming I and must be taken in
conjunction with Honors Systems Analysis \& Design. conjunction with Honors Systems Analysis \& Design. AP Computer Sci-
ence A includes items covered in most college entry-level computer science enceA includes items covered in most ciliege entry-level computer science
courses. The curriculum follows the outline for AP Computer Science A
developed by the College Board. Toppics covered include problem solving developed by the College Board. Topics covered inclumperorolsmem solving
using logic, programming methodology, procedural abstraction, and the using logic, programming methodology, procedural abstraction, and the
use of algorithms and data structures. Students will gain familiarity with basic syntax, classes, objects, and data types focusing on, but not limited to, the Java programming language.
Return to course offering page: 11

## HONORS COMPUTER PROGRAMMING II (NV)

ColLEGE TECH PREP
 program. The second year of this program includes the courses Honors

## 548 HONORS COMPUTER PROGRAMMING <br> 8548 HONORS COMPU

Students will learn about user rights and responsibilities, concurrency security, ion and managemend recovery to perform tasks involved in the administraand transform data ensuring data quality. Kowledge and skills relating to systems, data warehouses, and data mining will be developed.

## 8549 HONORS COMPUTER PROGRAMMING It

## opment

tudents will learn the dynamics of the Web environment while pursuing an i-depth study of both Hypertext Markup Language (HTML) and Cascading will be addressed. Students will croate a website with TCPIP, and HTTP secial characters, lines, graphics, hypertext links, and graphical tables

## 8598 INTRO TO VISUAL TECHNOLOGY

Semester Credit $1 / 6$ Year 9-10
field of Com can learn the basic art and design skills it takes to go into the Cly of Computer Graphics and Visual Communications. In this introducments of Art and Principles of Design, all on a computer running state of the art software. Introduction to Visual Technology is a class designed for technically-minded students who wish to develop the skills needed in today's develop their understanding and appreciation of visual media develop their understanding and ap

This is a four course program. Students take two courses junior year and two courses senior year. Over two years in interactive media students will study design techniques, creating and editing digital images, web design,
and video and sound. Software
Apple computers and the Adobe Master Suite of programs are utilize. Programs include but are not limited to: Photoshop, Illustrator, InDesig Dreamweaver, Flash, Premiere Pro, and After Effect

## 8512 INTERACTIVE MEDIA

## DESIGN TECHNIQUES

use of digital cameras, computers, and mobile devices To cogs, through they will learn software photo editing techniques including layering, color correction, masking, and special effects using current commercial and open

## 8511 HONORS INTERACTIVE MEDIA I:

 DESIGN TECHNIQUESIn addition to the requirements for Interactive Media I: Design Techniques,
students will demonstrate more complex Photoshop skills, learn professstudents will demonstrate more complex Photothop skills, learn profess-
sional photo retouching, and complete other higher-level thinking and

WEB DESIGN
Students will learn the dynamics of the Web environment while pursuing an
in-depth study ofboth Hypertext Markup Language (HTML) and Cascading in -depth study of both Hypertext Markup Language (HTML) and Cascading
Style Sheets (CSS). Web based protocols such as FTP, TCPIIP, and HTTP
will be addressed Students will will be addressed. Students will create a website with tag text elements.
special characters, lines, graphics, hypertext links, and graphical tables.

8514 HONORS INTERACTIVE MEDIA I
WEB DESIGN
In addition to the requirements for Interactive Media I: Web Design, stuNorthview Website or creating a website for a client.


85111 INTERACTIVE MEDIA II:
CREATING AND EDITING DIGITAL IMAGES Students will learn to design, develop, and produce interactive media
projects, web sites, and social media contexts. Students will demonstrate methods of creating professional quality media using commercial and open

## 85113 HONORS INTERACTIVE MEDIA II:

CREATING AND EDITING DIGITAL IMAGES
In addition to the requirements for Interactive Media II: Creating and Editing Digital Images, students will complete additional projects. These projects might include competing in Business Professionals of America
contests, creating advanced After Effects work, completing work for local businesses, running the social media for sports and clubs, or completing an internship.

8513 INTERACTIVE MEDIA II:
VIDEO AND SOUND
Students will create professional video and audio productions for distrib
ton in traditional and new media channels Students will ton
edit, and launch media products. Students will develop scripts and edit, and haunch media products. Students will develop scripts and
storyboards, compose shots and operate cameras, capture sounds using
microphone hardware apply microphone hardware, apply special effect et terashinupes, and edit to archie
the final product. Students will be able to use animation and graphic the final product.
design for video.

## 85133 HONORS INTERACTIVE MEDIA II:

## VIDEO AND SOUND

students will complete addititional projective Media II: Video and Sound filming and editing news broadcasts, starting your own video blog, or com-
pleting an internship plating an internship.
Return to course offer

## MUSIC

Instrumental Music
3756 CONCERT BAND
$\begin{array}{lllll}\text { Year } & \text { Credit } 1 & \text { Grades 9-12 } & \text { Est. Fee: Uniform }\end{array}$ Concert Band consists of mostly underclassmen players. The curriculum emphasizes basicicintermediate fundamentals of band performance to develop Concert band performs music consistent with the experience and skill level of the members, usually equal to the O.M.E.A. classification of "C or D band literature.

## 3758 SYMPHONIC BAND

## 3758 SYMPHONIC BAND

Symphonic Band consists of mostly upperclassmen $\begin{aligned} & \text { Rental } \$ 30.00\end{aligned}$ ers. The curriculum emphasizes developing more advanced techedipues performance and application to concert literature. This ensemble perform classification of "A or B" band literature. Private equal to the O.M.E.A encouraged for participation.

## 3752 WIND ENSEMBLE

Wind Ensemble consists ofourstronges Uniform Wind Ensembleconsistsofourstrongestand most independent musicians. The
curriculum emphasizes advanced techniques of performer curriculum emphasizes advanced techniques of performance and application
to concert $i$ literature. This ensemble performs music of the most adva quality and difficulty equal to the O.M.E.A. classification of "o st ar Av""band 3761 HONORS WIND ENSEMBLE
Year
Credit 1 Grades 9-12 Est. Fee: Uniform
The Wind Ensemble will consist of mostly upperclassmen and the mos The Wind Ensemble will consist of mostly upperclassmen and the most
experienced players. The emphasis will be on the more advanced technique experienced players. The emphasis wilber on the more advanced techniques
of performance and the literature covered will be of the highest level. At
tend *A Pay to Participate fee is required for this class

## 3750 BAND AUXILIARY

Quarter $\quad$ Credit $1 / 4$ Grade 9-1
The band auxiliary consists of the Northyiew flag corps and majorette. Tryouts are held in cont this ts of of the Northniew flag corps and majorettes.
mont have the option to be in the auxiliary who play an instruct marching band season ment have the option to be in the auxiliary during marching band season,
but then play their instrument in one of the three concert bands. Att tendance ${ }^{\text {at scheduled performances is mandatory. }}$

3751 CONCERT ORCHESTRA
prerequisite: $A$ minimum ar
ff the orchestra director Torthview Concert Orchestra is comprised of all freshman and less experienced upperclassmen. The primary goal of the orchestra is to cultivate an enjoyment and higher understanding of orchestral music by studying
music of various styles, music theory, and technical drills. Emphasis in his ensemble is devoted to specificicorchestral techniqueves, and the or orchestra he December concert, State Orchestra Adjudicated Event, and the May Pops Concert. There are many opportunitities for addititional enrichment and service, such ha Solo and Ensemble contest and select orchestras at the
district, regional, and state levels. Attendance at all scheduled perter-
manes is mandatory.
${ }^{*} A$ Pay to Participate fee is required for this class
Return to course offering page: $9,10,11,12$

## 3762 CHAMBER ORCHESTRA

760 HONORS CHAMBER ORCHESTRA
Year
Prerequisite: A minimum of one year of orchestra experience or permission
of the orchestra director
The orchestra director
The Chamber Orchestra is Northview's most select orchestra. It is comprised If all seniors, and open to audition for sophomores and juniors. Members
of the Chamber Orchestra must demonstrate advanced proficiency on their of the Chamber Orchestra must demonstrate advanced proficiency on their
instrument. The primary goal of the chamber orchestra is to cultivate an enjoyment and higher understanding of orchestral I music by studying
music of various styles, music theory, and technical drills. Emphasis in music or various styles, music theory, and technical drills. Emphasis in
this ensemble is on advanced techniques, and the literature covered will his ensemble is on advanced techniques, and the literature covered will
be of the highest level. Highlights of the year are the December concert, be of the highest level. Highlights of the year are the December concert,
State Orchestra Adjudicated Event, and the May Pops Concert. There are
ten many opportunities for additional enrichment and service, such as Solo and
Ensemble contest and select orchestras at the district, regional, state, and Ensemble contest and select orchestras a the district, regional, state, and
national levels. Attendance at all scheduled performances is mandatory.
${ }^{4}+\mathrm{Pay}$ to $A$ Pay to Participate fee is required for this class.

## 3513 ACADEMY ORCHESTRA

Year Credit 1 $\qquad$ Grades 9-1
cademy Orchestra is an intermediate Orchestra that will focus on the dancing string player. This ensemble will work on skills and perform
literature that will prepare students to be members of our Chamber Orchestra. Return to course offering page: 9, 10, 11, 12

## 3763 JAZZ BAND/JAZZ CATS

 Credit $1 / 4$Year
Prerequisite: Enrollment in ins HS Band or by permission of director
The Jazz Band consists of two groups: Jazz Band and Jazz Cats. Jazz
Prerequisite: Enrollment in HS Band or by permission of director
The Jazz Band consists of two groups: Jazz Band and Jazz Cats. Jazz Band consists of more experienced musicians, and is satetbig band instrumentation
(saxophones, trombones, trumpets, and rhythm section). Jazz Cats consists of less experienced musicians and has a flexible sinstrumentatation where any instrumentalist can particiciate. Both groups study and perform the various styles of jazz music, such as. Big Band, Pop, Rock, the Blues, and small
combos. Azasic understanding of improvisational techniques are also taught this class..The jazz bands perform a numbero of timesthiquoughoure also the school year. Practices will be conducted after school hours. . zzz Band rehearses
on Monday and Wednesday. Jazz Cats rehearse on Tuesday and Thursday. on Monday and Wednesday. Jazz Cats rehearse on Tuesday
Attendance at scheduled performances is mandatory.
Return to course offering page: $9,10,11,12$

Vocal Music
3764 A CAPPELLA CHOIR
3766 HONORS A CAPPELLA CHOIR

Capella Choir is Northview's most select mixed ensemble. The choir, days every other year. During the years wert the f e C Cap pella a choir does
not tour, hey perform a Cabaret diner for the Sylvania community A wide not tour, they perform a Cabaret dinner for the Sylvania community. A wide
variety of music performed includes some of the more demanding literature. Membership is by audition and requires that students sight sing and display heir range through video-recorded exercises. While not required, it it riscommended that a student wishing to become a member of the $A$ Capella Choir
participate in another Northview chorus in preparation for this auditioned group. Attendance at scheduled performances is required. Note: The election of choral music based upon its historic and music significance and at times will have religious text.
A Pay to Participate fee is required for this class.
return to course offering page: $11,11,12$

## 359 SYMPHONIC CHOIR

## Credit 1 Grade 9-12

Symphonic Choir is a tit 12 th grade vocal group focused on developing balance This mixed ensemble is primarily a skill building group for Northview's young female and male voices, but is also open to upperclassman
involvement and leadership. The chorus performs a wide variety of music hat is of a lesser difficulty than that of the A Cappella Choir. It is required hat participating students be able to carry a simple tune. Membership is by ample aid events, including OMEA District and State competitions. Attendance t scheduled performances is required. New member fees for concert ire. Women: $\$ 100$. Men. $\$ 150$. *A Pay to Participate fee is associated tire: Women:
with this class.
with this class.
Return to course offering page: $9,10,11,12$

## 3768 POPULAR MUSIC

Credit $1 / 2 \quad$ Grade 11-1
ZzZ, Blues, Rock-n-Roll and all popular music from the 1910's to the present wilt be studied. The course involves a great deal of music listening
in conjunction with defining what musical traits characterize each style of polar music. Each student will be able to classify and categorize popular Return to course offering page: $9,10,11,12$

## 3776 WOMEN'S CHORUS

## Credit 1 Girls Grades 9-1

Northview Women's Chorus is a 9th-12th vocal group focused on develping the fundamental skills of voice production, sight-reading, tuning roup for Northview's young female voices, but also open to to uperclass group for Northview's young female voices, but also open to upperclass-
nan involvement and leadership. The Northview Women's chorus will perform at all Northivew choral events, including OMEA District and
State competitions. Attendance tate competitions. Attendance at scheduled performances is required $*$ A Pay to Participate fee is required for this class
Return to course offering page: 9 , 10, 11,12

## 3767 AP MUSIC THEORY

 requisite: A Cappella Choir, Chamber Orchestra, Wind Ensemble, or AP Music Theory is for the student who has a serious interest in knowing
how music is put together It is for the highly motivated student who will how music is put together. II is for the highly motivated student who will
learn most of the skills taught in a first level college music theory course. students will learn about musical modes and rules of basic composition While piano keyboard skills are not required, they are help full. Aural skills will e learned and developed through the use of several music skills compute tate musical examples and heighten compositional skills. It is expected hat students will take the AP exam.
detents will take the AP exam.

Prerequisitie: A Cappella Choir
Specializin in pop a capella, Harmony Road Show ("HRS") is a mixed voice audition-only group of 16 singers. Students learn vocal pop performance
techniquues both on and off microphones. They are expected to learn about ous performance venues. HRS performs by invitation at many community ous performance venues. HRS performs by invitation at many communit
functions, at choir concerts, and with the Northview Jazz Band in the sprin The Harmony Roadshow has performed and workshopped with members o
M-Pact, Un-in-the-Air, New York Voices, and vocal jazz/ vocal poo profes sionals from around the world. Attendance at scheduled performances is required. Students are required to furnish their own formal uniforms i
accordance with uniform guidelines accordance with uniform guidelines.
A Pay to Participate fee is required for this cla
Retorse offering page: $9,10,11,12$
SCIENCE
A full year of physical science, a full year of biological science and a full year of elective scienc are required for graduation

## 3421 AP BIOLOGY

 7 periods or equivalentPrerequisite: Teacher rec

Grade 11-12
Est. Fee $\$ 10$
istry or Honors Chemistry or beition, Biology or Honors Biology, Chem A course for highly motivated interested conculdertents, AP Biology gives in-
depth treatmentto cell structure and function, taxanomy evolut depht reatatent to cell structure and function, taxonomy, evolution, ecology,
biosynthesis, genetics, protein synthesis, plant and animal physiology,applied botany, bioenergetics, history ofbiology, homeostatic mechanisms, behavio gene action, and more. Laboratory experiences provide opportunities for
the student to further develop observational and analytical skills and are integral component of the program. These serve to extend concepts covered in class and in the etext. Sutdents will employ a variety of tecchniques
investigate macromolecule structure, photosynthetic rates, enzyme functio parameters, transformation in bacteria, plant and animal morphology and histology, microbial activity and identification and electrophoresis as wel
as other laboratory topics. Tests emphasize both the course content and it concepts. A summer assignment of outside readings and selected tex chapters is required. Students electing to take AP Biology should see the instructor before the end of second semester exams to sign out text. The course is recognized by colleges as a laboratory credit course.
Summer assignments may also be found at the Northview website www. sylvanianorthview.org.It is expected that students will take the AP Exam

## 3435 ENVIRONMENTAL SCIENCE

 Semester Credit $1 / 2 \quad$ Grade 11-12 $\quad$ Est. Fee: $\$ 5$ Prerequisite: Science 9 (C and P) and Biology Environmental Science I is an elective science course involving the study of soil science, water quality, the Great LLakes, animals of OOiiobirds, reptiles,amphibians, fishh, and mammals. These topics will be discusused in the contex
 hands-on, projects based activities, lab investigations inside and outside th
classroom, research project and presentations. Students also have the opportunity to participate in the area wide, Student Watershed Watch Program.

## 3436 ENVIRONMENTAL SCIENCE II

 Semester Credit $1 / 2 \quad$ Grade 11-12 Prerequisite: Science 9 (C and P) and Biology and Environmental I Environmental Science II is an extension of Environmental Science I, ;itwiladdress current issues of energy use, fossil fuels, alternative energy warming, and what impact they have on the topics coverered in Environmental I. Also addressed will be pollution, recycling and waste management. Additional topics covered will be plant science, basic forestry, GPS technolog,
and natural resources management. Research projects.presentations, outdoo
and indoor lab activities, and classroom activitites will facil titate the learnin and indoor lab activities, and classroom activities will facilitate the learning
of material in this program. Students have the opportunity to particicpate statewide Envirothon Program.
Return to course offering page: 11,12

## 3419 AP ENVIRONMENTAL SCIENCE

 needed). APEnvironmental Science is an elective course for students that have a strong desire to explore all aspects of their environment. The course
is the equivalent to a university level semester course in the study environmental science. This course will go boyorond the introductory
level of level of environmental science. The range of topics to be covered
include:climate weat global warming, renewable and nonrenewable energies, solid wast air pollution, water pollution, environmental ethics, population dynamics, toxic hazardous and current event topics. Students will
have the opportunity to explore lab investigations, outdoor activities, group and individual proiects guest speakers and community events/presentations. As part of the
curriculum students will choose curriculum students will choose from a wide variety of environmental
community events to participate in, throughout the school year summer assignment outsicide of class is required. It is expected that
all studen alf students will take the AP Exam. Summer assignments may also be electing to take AP Environmental Science should see the instructor electing to take AP Environmental Science should see the ins.
before the end of second semester exams for the assignment.

## 3432 ZOOLOGY <br> Semester Credit $1 / 2$ Grade 11-12 Est. Fee: $\$ 7$

Zoology is an elective science course involving the study of invertebrate and vertebrate animals. Specific studies in this course consist of taxonomic, anatomical, and physiological examinations of selected organism
and grouns of organisms. Zoology $I$ includes topics such as evolution an and groups of organimal ecology, and the study of the following Phyla:
animal diversity, animal Porifera, Cnidaria, Annelida, Mollusca, Arthropoda, and Echinodermata, in other words, anything from sponges, to spiders, to starfish. The class
will consist of lab investigations, research projecs will consist of lab investigations, research projects and presentations. fieldwork, lectures, and a variety of dissections.
Return to

## 3433 ZOOLOGY

Grade 11-12 Est. Fee: $\$ 7$ Zoology is the study of both invertebrate and vertebrate animals. Specific studies include taxonomic, anatomical, and physiological examinations of selected organisms and groups of organisms. Zoology II topics includ
classification and evolution of the Phylum Chordata. We will sudy in deptl, the following Classes: Fish, Amphibians, Reptiles, Birds, and Mamma Current issues in biodiversity and threats to animal species will also researched and discussed. The class includes lab investigations, researcl projects, presentations, field work, le

3434 ASTRONOMY
Semester Credit $1 / 2$
Grade 11-12
Prerequisites: Physical Science or Honors Physical Science night sky, its many constellations, brib first introducing the students to the night sky, its many constellations, brighter stars and motions. The histori-
cal development of astronomical thought and our place in the second major topic of study. The course concludes with a study of is moon, lunar exploration, planets, and other bodies in our solar system. The
manned and unmanned exploration Return to course offering page: $10,11,12$

3437 ASTRONOMY II Prerequisites: Physical Science or Honors Physical Science Prerequisities:
Astronomy II picks up where Astronomy I I left off. In this class we will examine the life cycle of stars. This will culminate in the possible scenarios of the so-called death of a star. We will look at the theoretical aspects of $f$ other intelligent life forms somewhere in the cosmos. We will explore nearby galaxies and those that are so far away that they may not even exist t this moment due to the fact the light from them is billions of years old! We'll look at how the universe began as well as where we may end. You will need to open your mind because will be asked to create a "Designer
Alien." This Alien will have to come from its own planet from its own stellar stem/Galaxy, so be prepared to include as many of the facts that you have larned in the past year in the creation of your "Being"

## 3416 FORENSIC SCIENCE

| Year |
| :---: |
| Prere |

Credit 1
Grade 11-12
Est. Fee: $\mathbf{~} \mathbf{1 0} 10$ Forensis is the e rigoorous application of scionge in the processing of physi-
cal evidence during oriminal investigations. The field of forensic science cal evidence during criminal investigations. The field of forensic science uses analytical and empirical evidence to help support the legal system in
its prosecution of the e erpetrators of a crime. You will study the various
and principles and methods used in the sciences to evaluate evidence at a c cime
scone, ultimately using the evidence and your deductive reasoning skils scene, ultimately using the evidence and your deductive reasoning skills
o solve the crime. Sciences used in forensics include any discipline that can aid in the collection, proservation, and analysis of evidence, such as chemistry, physics, or biology. Types of evidence analysis to be covered
include crime scenes, prints \& impressions, questioned documents, hairs include crime scenes, prints \& impressions, questioned documents, hairs
\& fibers, human remains, drugs \& toxicology, blood, DNA, and ballistics. \& fibers, human remains, drugs \& toxicology, blood, DNA, and ballistics examination of real-life case studies.

## 34163 HONORS FORENSIC SCIENCE

lear Credit 1 Grades 11-12 Est. Fee: $\$ 10$ Prerequisite: Physical Science 9 and Biology. Teacher recommendation equired.

Forensis Science covers the same general topics as Forensic Science cience must complete a summer packet. This is due at the start of the arse in the fall. Each student should pick up a welcome leterer from the

## 3422 CHEMISTRY

## Year <br> Cear Credit

Grade 10-12
Est. Fee S10
Periods or equivalent.
hemistry is a lecture-laboratory course that focuses on methods and echniques of measurements and problem solving as pertaining to atom toms mathematical problem solving skills are used throughout the year in chemistry. The most frequently used method of problem solving are factor-label unit conversions, solving formulas for variables (basic algebra) and stoichiometry. Concepts of atomic structure and the organization ot the periodic table serve as a basis for the understanding of the periodic re used to further emphasize the concepts which are taught and further evelop skills of observation and data analysis. Due to the challenging ature of the subject material, students taking his course are required to end a mandatory make up revic session on alternatis 3420 BIOCHEMISTRY ear

## Credit 1

- 11-1

Est. Fee: $\mathbf{\$ 1 0}$ tudent must have a non-programmable scientific calculator.
Prerequisitit: Physical Science
Biochemistry is an integrated course combining chemistry and biology with the major emphasis on chemistry. It is designed for the 11th or 12th
grade student who does not have the math preerequisite for Chem I Toper rade student who does not have the math prerequisite for Chem I. Topics
nclude bio/medical applications, environmental technology, and engineering echnology. It is an applications based course.
Return to course offering page: 11,12

3431 HONORS CHEMISTRY
st. Fee $\$ 10$ 7 periods or equivalent
Prerequisites:
Physical $S c i$
Teacherer Resocommendation.
Honors Chemistry covers tis reater depth and at an accelerated pace. We will also cover topics includ equilibrium, reaction kinetics, and acids and bases that are not coyered regular Chemistry. The course would be most appropriate for the study ermission, sophomores in chemistry, engineering, pre-med, etc. With Honors Bioiology and Honors Chemistry. Due to the challenging nature of the sabject material, students are required to attend a mandatory lab make-up/ review help session on alternating Fridays during commons.
A summer assignment of selected text chapters is required. Those stu-
dents selecting Honors Chemistry must see the instructor before the ents selecting Honors Chemistry must see the instructor before the end of second semester. Summer assignments may
Vorthview website www.sylvanianorthview.org.

## 3423 AP CHEMISTR

## Credit 1 Grade 11-12 Est. Fee 52

 Prerequisites: Chemistry or Honors Chemistry with a minimum grade ofR'and Teacher and Teacher Recommendation. Corequisite: : Algebra II emphasizes the quantitative, experimental aspects of Chemistry. Some of he early work in the course will serve as a review of Chemistry, includ-
topics such as periodicity of matter and chemical reactions bin formula writing, and balancing equations. To further the skills of the above concepts there will be a greater emphasis on the chemical and mathematical formulation of theses principlpes. Addiditional topics studided in-depth are chemical thermodynamics, and electrochemistry. With, the availability of analytic balances, pH meters, and CBI probes, students will be able to further their understanding of chemistry through weekly laboratory work.
AP Chemistry is equivalent to a college freshman course and is recognized AP Chemistry is equivalent to a college freshman course and is recognized
as a laboratory credit course. Due to the challenging nature of the subject as a laboratory credit course. Due to the challenging nature of the subject
material, students are required to attend a mandatory lab make-up/review/
help session on alternating Fridyss during commons. It is expected that help session on alternating Fridays during commons. It is expected that
students will take the AP exam. A summer assignment of selected text chapters is required. Those students selecting AP Chemistry must see ine instructor before the end of second semester. Summer assignments may also be found at the Northview we
Return to course offering page: 11,12

## 3430 ANATOMY

${ }_{\text {Year }} \quad$ Credit $1 \quad$ Grade 11-12 Est. Fee \$10 Terequisiste: Biology or Honors Biology with a grade of 'B' or better, and
Teacher Recommendation. Chemisty or Honors Chemistry taken concurrently is also highly recommended. Students selecting Anatoomy should have a minimum GPA of "B" in Biology.
Anatomy yand Physiology is a rigorous, advanced dif-scsience signed to educate the student about the human body. This course follows a ccture-laboratory format, and is based on the understanding of human funcions through a complete examination of human structures. To enhance this
understanding, both normal and abnormal aspects of human functions will be investigated by comparing the physiological concepts of homeoostasis and disease. The course begins with a review of the principiples of biocochemistry
nd cell biology both previously developed and learned in Biology and ch cell biology (both previously developed and learned in Biology and
Chemistry. It continues with a thorough examination of human primary issues and concludes with a study of each of the body's systems. Anatomy d Physiology is supplemented with numerous lab activities throughout he year including an extensive vertebrate (cat) dissection. A number of
ther lab skills and techniques will be developed including: microscopy, her lab skills and tecthiquues will be developed including: microscopy, course is recommended for those students interested in any medically related
career or who are o therwise highly motivated to tearn about the human body. career or who are otherwise highly motiv
Return to course offering page: 11,12

34461 GEOLOG Credit 1.0 Prerequisite: Physical Science and Biology

Gade(s) 1-12
Est. Fee $\$ 5.00$ Physical Geology is an advanced science course offering college credit
for students who are not necessarily looking to pursue a college degree a science field. Most colleges require students to take at least one science lab course as a part of their general education requirements. CCP Physica
Geology offered through Owens Community College would satisfy this Geology offered hirough Owens Community colege would saitsty
requirement. for the Owens Community College Course GEO 111 (3 lecture, 1 lab) as well as an advanced science elective credit for graduation.
This course is aimed at the population of students who are collegge-bound b
nay not be AP or honors students in science. The course will certaily may not te AP or honors students in science. The course will certainly be
challenging but will not come with the math demands that other advance science courses have. The class will also be more ellexible toschedul t than other
advanced science courses as it does not require a double-blocked lab period advanced science courses as it does not require a double-blocked lab perio
The content standards addressed by this course are outlined in the Ohio SciThe content standards addressed by dis course are outitined in the Onio
ence Standards for Physical Geology plus additional topics required to mee CCP requirements to be discussed with Owens Community College faculty Return to course offering page: 11, 12

## 3444 AP SEMINAR

Grade 10-11
Prerequisite: Physical Science and Honors English 9 or Teacher Approval AP Seminar is a requirement for the AP Capstone ${ }^{\text {TM }}$ diplomac. AP Seminari
a foundational course thatengages students in that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundationa
literary, and philosophical texts; , listeningto and viewing speceches, broadcasts terary, and philosophical texts, listeningto and viewing speeches, broadcas Students learn to synthesize information from multiple sources, develo their perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the cours
aims to equip students with the power to analyze and evaluate informatio with accuracy and precision to craft and communicate evidence-based arguments. All AP Seminar students are required to participate in the AP Semina Exam. Required summer assignments posted on the Northyiew website. Return to course offering page: 10,11

Year $\qquad$
APResearch, the second course in the AP PCapstoneexperperience, allows studen o deeply explore an academic topic, problem, issue, or idea of individu interest. Students design, plan, and implement a yearlong investigation address a research question. Through this inquiry, they further the skills
they acquired in the AP Seminar course by learning research methodology employing ethical research practices, and accessing, analyzing, and synnthe employing ethical research practices, and accessing, analyzing, and synthe
sizing information. Students reffect on their skill development, document their processes, and curate the artifacts of their scholarly work through process and refection porttolio. The course culminates in an academic pape where applicable) and a presentation with an oral defense.

## SOCIAL STUDIES

## 3210 PSYCHOLOG

This is as survey class that offers an overview of major themes in Psychology
Topics include; research consciousness, learning, memory, personality and devel behavior, states of explore topics through outside research, reports and class presentations. higher level critical thinking skills.

## 3212 AP PSYCHOLOG

$\qquad$ AP Psychology is designed to prepare students for the AP National Psycholgy Exam. It is equivalent to an introductory college course in psychology. he course receives honors credit. Students who successsully complete the work at the university level. All areas of psychology are covered. This includes but is not limited to, history and methodology, biological basis of lity, sensation and perceptions, motivation, social psychology abnormal syychology and child development. Students are expected to complete a onsiderable amount of readinginthe text and supplememental materials. Thi course requires students to synthesize and evaluate all material presented
hrough both oral and written format. There is a heavy emphasis on study kills and genuine class participation in activities and discussion,
eturn to course offering page: 11, 12

## 217 CONTEMPORARY LAW

Credit $/ 2 \quad$ Grade 11-12 vill be provarided wis wa semestherpracticum in law-related education. Students hat develop their knowledge and skills necessary for survival in our society udents will be involved in mock trials, case studies, small group exercises, Returnal to anaulyssis activities.

## 3205 SOCIOLOGY

This course will study the causes and effects of social problems on our society with an emphasis on discussion and research. Students will investigate deviance, prejudice, poverty, the family, aging, and crime as they relate to social
problems, have an opportunity to design and conduct sociological research. In, have an opportunity to desig

## 228 GEOGRAPHY

Semester
Geography is a social studies offering for all grades. The course will include hich have influenced the development of the world's peoples. A majo bjective of the offering is to become familiar with basic geography, as wel as an understanding of recent history and curre
Return to course offering page: $9,10,11,12$

## 231 AMERICAN HISTORY THROUGH FILM

Credit 0.5 Grade(s) 11-12
rerequisite: American History, AP US History, or Equivalent
his one-semester course leads students to critically examine the use of film society, many Americans use film dramatizations as therir tectnnology-driven nowledge about our country's past. Sometimes, these films present a distorted view of the facts. This course will allow students to examine this phenomenon
hrough both a chronological and thematic approach to determine historical hrough both a chronological and thematic approach to determine historical Which thenv film is based. Two to four days will be spent viewing key scenes of he film. The viewing of each film will be followed with a weekly film analysis
ssignment. Each quarter will end with a n independent research project that will dignnent. Each quarter witlend with an independentresearch project that win dependent research project will serve as the final exam.

WORLD LANGUAGES
 as it empowers learners to be able to interact with a variety of different cultures and perspectives. World Language students are encouraged to be Heir community. Real world activities such as compiling work and reflecting
a Linguafolio, being a member of the Spanish or French Club and Honor ocieties, hosting exchange studdents, and traveling abroad will enrich the ture. World Languageeteachers participate in the Global Education program titure. World Languageteachers particicipate in the Global Education program high school volunteer hours and/or college crerdididuring thpiritravel acroand
All courses are based on the modes of communication and use of the target anguage in the classroom. As in real life, the following modes of commucation will be the focus: interpersonal conversations between people and iriting, presentational writing and speaking such as essays, summmaries, and ing skills with authentic text/websites and video/audio. Units will utilize st century skills and authentic resources to engage learners in relevan nd meaningful use of the new language and exploration of the current
cultural topics. Very importantly, the Ohio World Language Standards and the World-Readiness Standards for Learning Languages by ACTFL are at he heart of daily instruction.
preparation forpost secondary education, many colleges require aminimum
of two years, but recommend three or more years of consecutive language study for admission to the college, as well ar seruirire continued languagege
study for most majors at the university. All levels will prepare students to study for most majors at the university. All levels will prepare students to proficiently yutilize theiri language skils outside of the classroom, as well
succeed on The Ohio
Seal of Biliteracy Test in levels $4-5$, and the Advanced lacement Exam in level 5 .

## LEVEL

## 3700 FRENCH I

## 3720 GERMAN

ear Credit 1 Grade 9-12

## 3730 SPANISH I

Year Credit 1 Grade 9-1
This course is designed around the Ohio World Language Standards and American Council of the Teaching of Foreign Language (ACT-
FL). Units will utilize 21 st century skills and authentic resources to engage learners in relevant and meaningulu use of the new language dexploration of the cuture. Levef of he World Language class
designed to provide students the opportunity to communicate in he target language via reading, writing, listening and speaking skills. ccording to ACTFL, the proficiency goal for a level 1 student is
ovice-Mid or the ability to
identify with phrases, combine words and express ideas with simple phrases and expressions. Return to course offering page: 9, 10, 11, 12

## LEVEL 2

3701 FRENCH II
Year Credit 1 Grade 9-12
3721 GERMAN II
Year Credit 1 Grade 10-12
731 SPANISH II
$\underset{\substack{\text { Year Crequisite: } \\ \text { Ppanish } \\ \text { This }}}{ }$
This course is designed around the Ohio World Language Standards and American Council ored the Teaching on Forerign Language ACTALL). Units
will utilize 2 st century skills and authentic resources to engage learners ir relevant and meaningful use of the new language and exploration of the culture. Level 2 of the World Language class is designed to provide students
he opportunity to further communication in the target language via reading, writing, listening and speaking skkills. According to ACTFL, the proficiency oal for a level 2 student is Novice-High or the ability to describe with liases a dentify with short sentences in

## LEVEL 3

3702 YONORS FRENCH III
Year
Prerequisite: Crenit 1
French Irade
3722 HONORS GERMAN III
$\stackrel{\text { Year }}{\text { Prerequisite: German II }} 1$ Grade 11-12
3732 HONORS SPANISH III
Year Crequisite: Spanish II $\qquad$
This course is designed around the Ohio World Language Standards and American Council of the Teaching of Foreign Language (ACTFL). Units
will utilize 2 1st century skills and authentic resources to engage learners will utilize 21 st century skills and authentic resources to engage learners
in relevant and meaningful use of the new language and exploration of the culture. Level 3 of the World L Language class is designed to provide students
the opportunity to further communication in the target language via reading the opportunity to further communication in the target language via reading,
writing, listening and speaking skills. According to ACTFL, the proficiency goal for a level 3 student is Intermediate-Low or the ability to describe in goal for a level 3 sudent is ntermediate-Low or the abiity to describe in
stringo of sentences and express personal thoughts in a single time frame.
Return to course offering pagee. $9,10,11,12$

## LEVEL 4

Year HONORS FRENCH IV
Year Credit
Prerequisite: French
Grade
3723 HONORS GERMAN IV
$\underset{\substack{\text { Year } \\ \text { Prerequisite: } \\ \text { Crerman } \\ 1}}{ }$ Grade 1
3735 HONORS SPANISH IV
$\underset{\text { Prerequisite: Spanish }}{\text { Yead }}$
This course is designed around the Ohio World Language Standards and This course is designed around the Ohio World Language Standards and American Council of the Teaching of Foreign Language (ACTFL). Units
will utilize 21 st century skills and authentic resources to engage learners in relevant and meaningful use of the new language and exploration of the
culture Level 4 of the World
anguage class is decigned to provide students culture. Level 4 of the World Language class is designed to provide students
the oppotrunity to further communication in the eraget language via reding the opportunity o further communication in the a aiget anguage via reading,
writing, listening and speaking skills. Students have the opportunity to earn The Ohio Seal of Biliteracy at this level stating that they are proficient in English and another language. According to ACTFL, the proficiency goal
for a level 4 student is Intermediate-Mid or the ability to describe in strings for a level 4 student is Intermediate-Mid or the ability to describe in stri
of sentences and express personal thoughts in at least two time frames. Return to course offering page: 9, 10, II, I

## LEVEL 5

3706 AP FRENCH LANGUAGE

| Year Credit 11 Grade 12 |
| :--- |
| Prereausise |

## 3736 AP SPANISH LANGUAGE

$\underset{\text { Prerequisite : }}{\text { Year }}$ I Grade 12
Prerequisite: Spanish $h V$
This course is designed around the Ohio World Language Standards and American Council of the Teaching of Foreign Language (ACTFL). Units will utilize 21st century skills and authentic resources to engage learners in relevant and meaningful use of the new language and exploration of
the culture. Level 5 of the World Language class is designed to provide tudents the opportunity to further communication in the target language via reading, writing, listening and speaking skills. According to ACTFL,
the proficiency goal for a level 5 student is Intermediate-ligh or the abil the proficiency goal for a level 5 student is Intermediate-High or the ability
to describe in strings of sentences and express personal thoughts, opinion to describe in strings of sentences and express personal thoughts, opinion
or debate in multiple time frames. Students have the opportunity to ear college credit by performing well on the Advanced Placement as well
earn The Ohio Seal of Biliteracy at this level stating that they are proficie earn The Ohio seal of Biliteracy a t this sevel stating that they are proficie,
in English hand another language. *Please reference the Northview websit in for any summer work assigned.
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## MATH COURSE FLOW CHART



1. Freshmen typically take Algebra I or Geometry, depending on their 8th grade math course and their teacher's recommendation.
. Each course is a full year; it is not recommended to take more than one math course at time with the exception of Statistics. Statistics may be taken concurrently with any course following Algebra II.
2. College Prep and Pre-Calculus are not equivalent; Pre-Calculus is the higher level course. Either may follow Algebra 2.
3. Statistics should not be taken as a stand-alone math course unless it is during a student's senior year.
4. It is uncommon for students to follow any path other than that outlined above

5. To meet state graduation requirements, all students must complete physical science and biology, and at least one advanced science course. Many Northview students exceed the minimum Ohio graduation requirements.
6. Generally, freshmen take physical science, sophomores take biology, and juniors and seniors choose their preferred advanced science course(s). After the introductory course requirements are completed, students may choose courses based on their individual interests, goals and aptitudes. There is no "normal" science path after the introductory courses are completed.
7. Some students with particular interest and aptitude choose to "double up" on either physical science/biology in their freshman year, or biology/chemistry in their sophomore year in order to take more of the advanced science course offerings. "Doubling up" requires commitment and perseverance. Please discuss these options with your teachers and counselors prior to making any decisions.
8. All Honors and AP sections have prerequisite requirements (teacher recommendations, prior minimum grades, etc.). Please discuss these options with your counselor

| Create Your Four Year Plan |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Name |  |  |  |  |  |
| $\begin{gathered} \hline \text { SUBJECT } \\ \text { AREAS } \\ \hline \end{gathered}$ | $\begin{gathered} \text { GRADE } 9 \\ \text { CLASSES/CREDIT } \\ \hline \end{gathered}$ | $\begin{gathered} \text { GRADE } 10 \\ \text { CLASSES/CREDIT } \end{gathered}$ | GRADE 11 CLASSES/CREDIT | GRADE 12 CLASSES/CREDIT | $\begin{gathered} \hline \text { TOTAL } \\ \text { CREDITS } \\ \hline \end{gathered}$ |
| English | ------- | ------- | -------- | ------- |  |
| Mathematics | - - - ---- | -------- | -------- | -------- |  |
| Science | - - ----- | -------- | -------- | $-------$ |  |
| Social Studies | - - - ---- | -------- | -------- | $-------$ |  |
| World Languages | - ------- | ------- | -------- | ------ |  |
| Health | - ------ | ------- | -------- | ------ |  |
| Physical Education | - - - - --- | ------- | -------- | - - - ---- |  |
| Fine Art | ------- | ------- | -------- | ------- |  |
| Career Technical | - ------ | ------- | -------- | ------ |  |
| Elective: | ------- | $-------$ | $--------$ | ------- |  |
| Elective: | - ------ | -------- | -------- | - ------ |  |
| Elective: | - ------ | ------- | $--------$ | ------ |  |
| Elective: | - - - ---- | ------- | -------- | -------- |  |
| Total Credits |  |  |  |  |  |

See Page 37 for Graduation Requirements

