NORTHVIEW HIGH SCHOOL
PROGRAM OF STUDIES
2016 - 2017
Sylvania Northview High School

5403 Silica Dr.
Sylvania, Ohio  43560
www.sylvanianorthview.org

Administration  419-824-8580

Steve Swaggerty  Principal
Kasey Vens  Assistant Principal
Teaching & Learning
Chris Fahim  Assistant Principal
Student Services
Chris Irwin  Athletic Director

Guidance  419-824-8715

Crystal Burnworth  School Counselor
Melanie Rogers  School Counselor
Kate Henk  School Counselor
Stacie Wachowiak  School Counselor

Sylvania Public Schools

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

Superintendent’s Office  419-824-8500

Scott Nelson  Superintendent
Jane Spurgeon  Assistant Superintendent
Laura Sauber  Treasurer
Keith Limes  Human Resources
Adam Fineske  Curriculum
Julie Sanford  Career Tech

Board of Education

Julie Hoffman  President
Stephen Rothschild  Vice President
Vicki Donovan-Lyle
Jim Nusbaum
Dave Spiess

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, and safe environment.

Sylvania Public Schools Mission

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

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.
Tuesday, January 12, 2016

Dear Students and Parents,

We are very excited about the 2016-2017 Sylvania Northview Program of Studies, as we are introducing several new courses: Chinese, AP World History, AP Art History, Honors STEM Research II, and Creative Writing. As the cost of an undergraduate degree continues to rise, we continue to search for ways to create opportunities for our students to earn high school and college credit simultaneously. It should also be noted that AP Calculus BC has been listed in our Program of Studies for some time, and that traditionally, students took it as an independent study. This coming year, we will run a section of it, in addition to AP Calculus AB. Students matriculating from Honors Pre-Calculus will be recommended for one or the other of AB or BC. Adding two new AP courses brings us to eighteen, the most for any high school in our area. Combine that with our standard courses that can be taken as dual enrollment and our career technology courses, and our students have bountiful opportunities to earn credit at the next level before they leave Northview. The skills necessary to be marketable in the new digitized, informational economy center on communication. Adding a Creative Writing course and another world language that begins to prepare students to communicate with a part of the world with which we increasingly engage in commerce will help them. We are also adding Honors options for Drama, Theatre Workshop, and Public Speaking. 2016-17 will mark the second year that we are offering Honors STEM Research I and Introduction to Computer Programming, courses that we believe will help our young people prepare for a world increasingly focused on science, technology, engineering, mathematics, and software design. The Program of Studies is organized in a manner that focuses on career pathways. This format is designed to help students better identify which courses to take, and help them decide upon their career goals. Hopefully, this format will assist you in focusing your individual goals, and ruling out what you may or may not want to do in the future.

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  
Mrs. Kate Henk  
Mrs. Melanie Rogers  
Mrs. Stacie Wachowiak

Assistant Principals:  
Mr. Chris Fahim – Student Services  
Mr. Kasey Vens – Curriculum & Instruction

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

Sincerely,

Steve Swaggerty
Principal
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STATEMENT OF COMPLIANCE WITH FEDERAL LAWS

The Sylvania School 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 City School 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 School 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 discriminated 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**

Keith Limes  
Administration Building  
4747 N.Holland-Sylvania Rd.  
Phone: (419) 824-8558

**Title VI Compliance Coordinator**  
(Non-discrimination on basis of race, color, national origin)

Contact:  
Ms. Mikki Sujaritchan, Ph.D  
Administration Building  
4747 N.Holland-Sylvania Rd.  
Phone: (419) 824-8594

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

Contact:  
Ms. Mikki Sujaritchan, Ph.D  
Administration Building  
4747 N.Holland-Sylvania Rd.  
Phone: (419) 824-8594

**Career Technical Education Compliance Coordinator**

Contact:  
Ms. Julie Sanford  
Administration Building  
4747 N.Holland-Sylvania Rd.  
Phone: (419) 824-8587

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

Contact:  
Mr. Robert Verhelst  
Administration Building  
4747 N.Holland-Sylvania Rd.  
Phone: (419) 824-8581
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:

Ms. Crystal Burnworth .................... A-FL  cburnworth@sylvaniaschools.org
Mrs. Melanie Rogers ....................... FO-L  mrogers@sylvaniaschools.org
Mrs. Kate Henk ........................... M-RO  khenk@sylvaniaschools.org
Ms. Stacie Wachowiak ..................... RU-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 newsletter, *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
Family situations which affect school performance
Referral to school and community resources for psychological or psychiatric help, family counseling, medical needs

**The Student and His 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 system.
3. Use your agenda book daily.
4. Utilize the extra help programs; math tutoring, guided study hall, and after school intervention.
5. Keep in touch with your teachers - know how and when to talk to them.
6. Check the guidance website.
7. Use PowerSchool Account
GRADUATION PARTICIPATION REQUIREMENTS

Graduation participation will be based on Sylvania City School District Board of Education policy. For the graduating class of 2017, students must pass all parts of the Ohio Graduation Test or have met the alternative way to meet the OGT testing requirement per Ohio Revised Code Section 3313.615.

Beginning with the class of 2018, students must pass the Ohio Core Curriculum, participate in all end of course exams, and meet one of three pathways to graduation defined by the Ohio Department of Education. Link to the requirements here.

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 eligible to participate in the June graduation ceremony.

STUDENT RECOGNITION (GRADUATION)

For the graduating class 2017:

A. A valedictorian and salutatorian will be selected. The valedictorian will be the student(s) with the highest class rank. The salutatorian will be the student(s) with the second highest class rank.

B. Students will be recognized with the following honors depending upon their grade point average as determined at the end of the first semester of the senior year.

<table>
<thead>
<tr>
<th>Honor</th>
<th>G.P.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cum Laude</td>
<td>3.5 – 3.749</td>
</tr>
<tr>
<td>Magna Cum Laude</td>
<td>3.75 – 3.999</td>
</tr>
<tr>
<td>Summa Cum Laude</td>
<td>4.0 and above</td>
</tr>
</tbody>
</table>

For the graduating classes of 2018 and beyond:

A. A valedictorian and salutatorian will not be selected.

B. The class ranks of students will continue to be calculated and reported consistent with board policies and guidelines, but will not be published.

C. Students will be recognized according to the honors listed above.

OHIO COLLEGE ENTRANCE RECOMMENDATIONS

- 4 credits of English
- 3 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

<table>
<thead>
<tr>
<th>WHEN TO BEGIN</th>
<th>WHAT TO DO</th>
<th>HOW TO DO IT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman and sophomore years</td>
<td><strong>Become familiar with college entrance requirements and continue career exploration activities.</strong> Which courses in your high school curriculum satisfy college requirements? Do you have a plan for extracurricular involvement?</td>
<td>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.</td>
</tr>
<tr>
<td>September - March of junior year</td>
<td><strong>Think about your reasons for going to college.</strong> What are your goals? What learning opportunities are most important? Do your college plans include career plans?</td>
<td>Talk with your parents, counselors, teachers, and friends. Investigate possible career options and degree level required.</td>
</tr>
<tr>
<td>March - August of junior year</td>
<td><strong>List colleges you are considering and collect information.</strong> Have you included all possible choices? What information do you need? How can you get it?</td>
<td>Attend college fairs and college night programs. Prepare for and visit colleges. Take appropriate college admission test.</td>
</tr>
<tr>
<td>August - December of senior year</td>
<td><strong>Compare the colleges on your list.</strong> Have you weighed pros and cons carefully? Which colleges will meet your needs?</td>
<td>Continue visiting colleges. Organize information into detailed, useful comparisons.</td>
</tr>
<tr>
<td>September - December of senior year</td>
<td><strong>Apply to your “choice” colleges.</strong> Do you have all the necessary forms? Are you sure of the application deadlines?</td>
<td>Continue visiting colleges. Organize information into detailed, useful comparisons.</td>
</tr>
<tr>
<td>January - February of senior year</td>
<td><strong>Apply for financial aid.</strong> Have you investigated all possible sources of aid? When should you apply?</td>
<td>Consult financial aid office. Secure forms and note deadlines. Complete the FAFSA after January 1.</td>
</tr>
<tr>
<td>November - May of senior year</td>
<td><strong>Make some final decisions.</strong> What additional preparation might be helpful? Should you consider summer school? Do you feel comfortable with your final choice?</td>
<td>Confer with parents and counselors. Confirm your decision, and decline other admission offers. Show initiative.</td>
</tr>
</tbody>
</table>
CRITERIA FOR DIPLOMA WITH HONORS

New Diploma with Honors criteria became effective on June 30, 2007, as a result of Ohio Core legislation passed in December, 2006. The State Board of Education adopted rules containing the criteria below at its May 2007 board meeting.

Beginning with students starting high school in the fall of 2007, students must complete more intensive criteria in mathematics, science and social studies for high school academic and career-technical Diplomas with Honors.

### Comparison of Diplomas with Honors Criteria

**Students need to fulfill all but one criterion for any of the following Diplomas with Honors**

<table>
<thead>
<tr>
<th>Subject</th>
<th>High School Academic Diploma with Honors Graduating Classes 2011 and Beyond</th>
<th>Career-Technical Diploma with Honors for Graduating Classes 2012 and Beyond</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 units</td>
<td>4 units</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4 units, including Algebra I, Geometry, Algebra II or the equivalent and another higher level course or a four-year sequence of courses that contain equivalent content</td>
<td>4 units, including Algebra I, Geometry, Algebra II or the equivalent and another higher level course or a four-year sequence of courses that contain equivalent content</td>
</tr>
<tr>
<td>Science</td>
<td>4 units, including physics and chemistry</td>
<td>4 units, including two units of advanced science **</td>
</tr>
<tr>
<td>Social Studies</td>
<td>4 units</td>
<td>4 units</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3 units (must include no less than 2 units for which credit is sought), i.e., 3 units of one language or 2 units each of two languages</td>
<td>Not counted toward requirements</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>1 unit</td>
<td>Not counted toward requirements</td>
</tr>
<tr>
<td>Career-Technical</td>
<td>Not counted toward requirements, and may not be used to meet requirements</td>
<td>Now counted in Electives</td>
</tr>
<tr>
<td>Electives</td>
<td>Not counted toward requirements</td>
<td>4 units of Career-Technical minimum. Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post secondary credit</td>
</tr>
<tr>
<td>Grade Point Average</td>
<td>3.5 on a 4.0 scale</td>
<td>3.5 on a 4.0 scale</td>
</tr>
<tr>
<td>ACT/SAT Score [excluding scores from the writing sections]*</td>
<td>27 ACT / 1210 SAT</td>
<td>27 ACT / 1210 SAT</td>
</tr>
<tr>
<td>Additional Assessment</td>
<td>Not applicable</td>
<td>Achieve proficiency benchmark established for appropriate Ohio Career Technical Competency Assessment or equivalent</td>
</tr>
</tbody>
</table>

*Writing sections of either standardized test should not be included in the calculation of this score.

Diploma with Honors requirements pre-suppose the completion of all high school diploma requirements in the Ohio Revised Code including:

- ½ unit physical education**
- ½ unit health
- ½ unit in American history
- ½ unit in government

**Advanced science refers to courses in the Ohio Core that are inquiry-based with laboratory experiences and align with the 11/12th grade standards (or above) or with an AP science course, or with the new high school syllabi, or with an entry-level college course (clearly preparing students for a college freshman-level science class, such as anatomy, botany, or astronomy), or contain material above the current OGT level.

### 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. attainment of 12 credits in prescribed basic courses.
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 this 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 student athletes from Northview High School:

### English
- English 9
- English 9/H
- English 10
- English 10/H
- American Literature
- English Comp/Literature/AP
- College Prep English
- British Literature (SV)
- Critical Writing (SV)
- Creative Writing (SV)
- Public Speaking
- Senior Humanities
- Senior Composition & Literature
- AP Language and Composition
- AP Literature and Composition
- Oral Communications I
- Junior Humanities (NV)

### Mathematics
- Algebra I
- Algebra II
- Algebra II/H
- Algebra I 2B (1cr/year max)
- Calculus/H
- Calculus AB/AP
- College Prep Math
- Geometry I 2B (1cr/year max)
- Modern Geometry
- Modern Geometry/H
- Pre-Calculus
- Pre-Calculus/H
- Statistics /AP
- Calculus BC/AP
- College Prep Math

### Natural/Physical Science
- Anatomy
- Anatomy & Physiology
- Astronomy I
- Astronomy II
- Biology
- BiologyAP
- Chemistry
- ChemistryAP
- Bio-Chem (SV)
- Environmental Science I
- Environmental Science II
- Environmental Science AP
- Zoology I
- Zoology II
- Conceptual Physics
- Physics I AP
- Honors Physics
- Research Methods in Sci I - IV (SV)
- Honors STEM Research I & II (NV)
- Physical Science 9/H

### Social Science
- American Government
- American Government/AP
- American History
- US History/AP
- Contemporary Law
- Geography
- Economics
- Psychology I
- Psychology/AP
- Sociology
- World Studies
- World Studies/H
- World War II
- Vietnam War

### Additional Core Courses
- Chinese I
- French I
- French II
- Honors French III
- Honors French IV
- French Language/AP
- French Conversation I
- French Conversation II
- German I
- German II
- Honors German III
- Honors German IV
- Spanish I
- Spanish II
- Honors Spanish III
- Honors Spanish IV
- Spanish Language/AP

Actual registration can also be completed online with Internet access. Students should take the A.C.T. test or the S.A.T. test (or both) beginning their junior year. These scores plus the grade point average (G.P.A.) 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
Special Programs

ADVANCED PLACEMENT COURSES

Sylvania offers Advanced Placement (AP) courses in English, Mathematics, Social Studies, Foreign 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 offerings:

- United States History
- Biology
- Environmental Science
- Chemistry
- Physics I
- Calculus AB
- Calculus BC (NV)
- Statistics
- French Language
- Spanish Language
- English Literature & Composition
- United States Government and Politics
- Psychology
- English Language and Composition
- Music Theory (NV)
- Computer Science A (SV)
- Art History
- World Studies

(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 recommendation) is mandatory. One or more of the other six measures must be met depending on the individual course

1. Teacher or department recommendation
2. Scholastic achievement
3. Counselor recommendation
4. Interview
5. Essay
6. Standardized test results
7. 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 (Curriculum) 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. 16). 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.
Special Information

RECOMMENDATIONS
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 can opt to change the recommendation. If that occurs, the student and parent will be notified by the child's counselor. If a parent/student disputes the change, he or she must contact the counselor to resolve the conflict.

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.

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 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.

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: 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 GradPoint when 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 principal approval, sign a contract, and meet state guidelines. The student must take a department 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, Online, etc.) 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.

SEMESTER EXAMS
Semester exams are given at the end of the second and fourth grading periods. Please review the following guidelines:

A. A student who receives two “Fs” in a semester will fail the semester regardless of the final average. A DNA (Did Not Attempt) considered an "F".
B. Senior Exam Policy: All seniors must take semester and final examinations. See the Student Handbook for any exemptions.
C. New students attending Sylvania high schools less than nine weeks of a semester will not be required to take semester examinations.

OPEN ENROLLMENT POLICY
Open enrollment for secondary schools begins the first day school is in session in November through the Wednesday 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
College Credit Plus replaces the post-secondary education option (PSEO) and redefines dual enrollment programs. 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.

CREDIT FLEXIBILITY
Students will have an opportunity to earn credits through the district's Credit Flexibility Plan. Please visit the district website at www.sylvaniaschools.org to view and download the Sylvania Credit Flex Plan.
GRADING SCALE
The grade card contains the following information each semester:
1. 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 determines the letter grade that is listed on the transcript.

The semester grade is determined by multiplying the 1st marking period grade by two as shown in the chart below. The 2nd 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:

<table>
<thead>
<tr>
<th>1st Quarter Grade</th>
<th>2nd Quarter Grade</th>
<th>1st Semester Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>99/A+</td>
<td>91/A-</td>
<td>91/A-</td>
</tr>
</tbody>
</table>

A+ A- A- = (99 x 2) + (91 x 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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Range</th>
<th>Conversion Equivalent</th>
<th>Honors Conversion Equivalent</th>
<th>Advanced Placement Conversion Equivalent</th>
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<tbody>
<tr>
<td>A+</td>
<td>98-100</td>
<td>4.0</td>
<td>4.5</td>
<td>5.0</td>
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<td>A</td>
<td>93-97</td>
<td>4.0</td>
<td>4.5</td>
<td>5.0</td>
</tr>
<tr>
<td>A-</td>
<td>90-92</td>
<td>3.7</td>
<td>4.2</td>
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<tr>
<td>B+</td>
<td>87-89</td>
<td>3.3</td>
<td>3.8</td>
<td>4.3</td>
</tr>
<tr>
<td>B</td>
<td>83-86</td>
<td>3.0</td>
<td>3.5</td>
<td>4.0</td>
</tr>
<tr>
<td>B-</td>
<td>80-82</td>
<td>2.7</td>
<td>3.2</td>
<td>3.7</td>
</tr>
<tr>
<td>C+</td>
<td>77-79</td>
<td>2.3</td>
<td>2.8</td>
<td>3.3</td>
</tr>
<tr>
<td>C</td>
<td>73-76</td>
<td>2.0</td>
<td>2.5</td>
<td>3.0</td>
</tr>
<tr>
<td>C-</td>
<td>70-72</td>
<td>1.7</td>
<td>2.2</td>
<td>2.7</td>
</tr>
<tr>
<td>D+</td>
<td>67-69</td>
<td>1.3</td>
<td>1.3</td>
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<tr>
<td>D/P</td>
<td>60-66</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
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<tr>
<td>F</td>
<td>50-59</td>
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</tr>
<tr>
<td>DNA</td>
<td>Did Not Attempt</td>
<td>0.0</td>
<td>0.0</td>
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</tr>
</tbody>
</table>

- 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 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.
- “I” is an incomplete. An “I” must be removed within ten school days or it becomes an “F” unless the administration grants an extension.
- “W” is a withdrawal from the course.
- “DNA” (Did Not Attempt) is a designation used for students who do not attempt an exam. The DNA value is zero. DNA designation may include by not be limited to: Non-attendance, attendance but not attempted, answers minimal questions, answers are random and indicates student 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 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
• Career pathways that link secondary and postsecondary education
• Advanced credit and articulated credit options
• A way to explore a field that interests you
• A skill that can help you pay for your education
• 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 (11 & 12)

<table>
<thead>
<tr>
<th>Automotive Collision</th>
<th>Education and Training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cosmetology</td>
<td>Financial Management</td>
</tr>
<tr>
<td>Visual Communication Design</td>
<td>Interactive Media</td>
</tr>
<tr>
<td>Business Technology</td>
<td>Computer Programming</td>
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<td></td>
<td>Construction Technology</td>
</tr>
<tr>
<td></td>
<td>Engineering</td>
</tr>
<tr>
<td></td>
<td>Medical Technology</td>
</tr>
<tr>
<td></td>
<td>Horticulture</td>
</tr>
</tbody>
</table>

Family & Consumer Science

Career and College Readiness
Child Development
Food Science and Culinary Art
Nutrition and Wellness
Personal Wellness and Development
Transitions and Careers

Career Cluster Pathways Offered

Arts & Communications
Business & Management
Engineering & Industrial
Environmental & Agriculture
Health, Education and Human Services
Information Technology

PAGE 17
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 or senior 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
- 2 credits Science
- 1 credit physical education/health

Seniors applying are required to have additional courses plus a minimum of 12 credits.

*It is expected that students in a Tech Prep program will successfully complete Algebra II by graduation.*

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.

Students will be considered for admission to the Career Technical Program on the basis of scholastic record, 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 both 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. Seniors may enroll in the first year of a two year program if space is available. Seniors are not permitted to enroll in programs that require two year participation for licensing/industry credentialing.
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 GPA one semester prior to the application submission 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 that 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 Technical 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 is not 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 Technical Office or program instructor.

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

EARLY PLACEMENT
Students who have demonstrated above average achievements and have a recommendation from their instructor 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 begin 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 leadership 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, Interactive Media, and Computer Programming students provides the 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. Members are eligible for local, district, state and national awards in various contests and activities.

FCCLA- Family Community & Career Leaders of America helps prepare students with salable skills, opportunities to work with people in the business community and to participate in activities at district, state, and national levels. Students enrolled in Education and Training, and Family and Consumer Sciences programs are eligible for membership.

Skills/USA - Activities center on discussion and investigation of occupational opportunities, competition that displays skills learned, and efforts to better understand the citizenship responsibilities as they are unique to the individual person. Students enrolled in Auto Collision Repair, Construction Tech Prep, Cosmetology, Engineering Tech Prep, and Visual Communication Design may become members of Skills USA.

HOSA – Future health professionals in Medical Technology develop leadership skills through participation in this intracurricular activity.

* Note: Fees are reviewed annually for Board of Education approval.
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 collective 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
- Business & Management – page 24
- 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 a 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 strengths to 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.

Career Tech Video

Overview of the Student Success Plan Outline

<table>
<thead>
<tr>
<th></th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
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<td>Learning style</td>
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<td>x</td>
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<td>Strengths/skills</td>
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<td>x</td>
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<td>Academic and career pathways</td>
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<td>School courses and programs</td>
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<td>Career exploration activities</td>
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<td>x</td>
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<td>x</td>
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<td></td>
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</tbody>
</table>
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**
- Current Job Market Trends

**Career Pathways**
- 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
Desktop Publishers
Editors
Fashion Designers
Interpreters and Translators
Landscape architects
Music directors
Painters & Illustrators
Producers
Public Relations Specialists
Sculptors
Audio/Video Equipment Technicians
Set & Exhibit Designers
Technical Writers

1-2 Years Training/Education

Actors
Broadcast Technicians
Cartoonists
Commercial & Industrial Designers
Computer Systems Analysts
Film & Video Editors
Graphic Designers
Interior designers
Interpreters & Translators
Make-up Artists (Theatrical Performances)
Musical Instrument Repairs
Painters & Illustrators
Pre-Press Technicians
Professional Photographers
Proofreaders
Web Developers
Telecommunications Line Installers
& Repairers

High School

Copy Writers
Craft Artist
Etchers & Engravers
Film Lab Technicians
Floral Designers
Job Printers
Stock Clerk, Sales Floor
Telemarketing
# 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 at the time of scheduling.

### Recommended Schedule

<table>
<thead>
<tr>
<th>Grade</th>
<th>Core</th>
<th>Additional requirements may be necessary for acceptance to some colleges.</th>
<th>Pathway Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>9</strong></td>
<td>English&lt;br&gt;Math&lt;br&gt;Science&lt;br&gt;World Studies</td>
<td>Health and Physical Education&lt;br&gt;World Language&lt;br&gt;Career Based Elective</td>
<td><strong>Orchestra(s)</strong>&lt;br&gt;<strong>Band(s)</strong>&lt;br&gt;<strong>Choir(s)</strong>&lt;br&gt;<strong>Popular Music Studies</strong>&lt;br&gt;<strong>Computer Graphic Design I</strong>&lt;br&gt;<strong>Theater Workshop</strong>&lt;br&gt;<strong>Photojournalism (NV)</strong></td>
</tr>
<tr>
<td><strong>10</strong></td>
<td>English&lt;br&gt;Math&lt;br&gt;Science&lt;br&gt;American History</td>
<td>Physical Education&lt;br&gt;World Language&lt;br&gt;Elective&lt;br&gt;Elective</td>
<td><strong>Orchestra(s)</strong>&lt;br&gt;<strong>Band(s)</strong>&lt;br&gt;<strong>Choir(s)</strong>&lt;br&gt;<strong>Computer Graphic Design II</strong></td>
</tr>
<tr>
<td><strong>11</strong></td>
<td>American Literature&lt;br&gt;Math&lt;br&gt;Science&lt;br&gt;Social Studies Elective</td>
<td>World Language (recommended for college preparatory)&lt;br&gt;Elective&lt;br&gt;Elective&lt;br&gt;Elective</td>
<td><strong>Journalism Yearbook</strong>&lt;br&gt;<strong>Advanced Art Electives</strong>&lt;br&gt;<strong>Public Speaking (NV)</strong>&lt;br&gt;<strong>Interactive Media</strong>&lt;br&gt;<strong>Visual Communication Design</strong></td>
</tr>
<tr>
<td><strong>12</strong></td>
<td>Senior English&lt;br&gt;Math&lt;br&gt;Science&lt;br&gt;American Government</td>
<td>Elective&lt;br&gt;Elective&lt;br&gt;Elective&lt;br&gt;Elective</td>
<td><strong>Journalism Yearbook</strong>&lt;br&gt;<strong>Advanced Art Electives</strong>&lt;br&gt;<strong>Band(s)</strong>&lt;br&gt;<strong>Orchestra(s)</strong>&lt;br&gt;<strong>Choir(s)</strong>&lt;br&gt;<strong>Interactive Media II</strong>&lt;br&gt;<strong>Visual Communication Design II</strong></td>
</tr>
</tbody>
</table>

### Industry Credential Opportunities:

Unavailable

Fine Arts credit required for the class or 2014 and beyond

*Dual enrollment or articulated college credits may be awarded upon successful completion of CTE program.*
CAREER PATHWAY HIGH SCHOOL

Occupations - Business & Management

Business & Management careers include a variety of jobs in areas related to administration and management as well as marketing, finance, accounting, and data processing. Workers in this group use mathematical and analytical skills to design financial systems and interpret records. Others set policies and priorities as well as participate in marketing and sales activities. Professional occupations in this area which require high educational attainment and offer high earnings are expected to grow rapidly.

IS THIS YOU?

Is it important for you to have day-to-day contact with the public?
Are you able to use logical thinking and personal judgment to perform a variety of office tasks?
Are you able to make decisions based on your own judgment and company policy?
Are you able to follow instructions without close supervision?
Are you able to deal with people?
Are you able to change work activities frequently?

If you answer "yes" to most of these questions, the Business & Management Pathway may be for you.

Career Opportunities by Educational Level

Four Years of College and beyond

- Administrative Services Managers
- Accountants
- Actuaries
- Advertising & Promotions Managers
- Budget Analysts
- Computer Hardware Engineers
- Computer Systems Analysts

- Credit Analysts
- Financial Examiners
- Financial Managers
- Human Resources Specialists
- Insurance Underwriters
- Loan Officers
- Marketing Managers
- Purchasing Managers
- Sales Agents
- Statisticians
- Treasurers, Controllers
- Chief Financial Officers
- Management Analysts

1 – 2 Years Training/Education

- Bookkeeping, Accounting, Auditing Clerks
- Budget Analysts
- Communication Equipment Mechanics, Installers, Repairers
- Computer Programmers
- Computer, Automated Teller, and Office Machine Repairs

- Court Reporters
- First-line Supervisors
- Food Service Managers
- Insurance Adjusters
- Job Analysis Specialists
- Lodging Managers
- Medical Transcriptionist
- Operations Research Analysts
- Real Estate Brokers
- Sales Representatives
- Technical Writers
- Travel Agents
- Wholesale and Retail Buyers

High School

- Assessors
- Bill & Account Collectors
- Brokerage Clerks
- Computer Operators
- Customer Service Representatives
- Data Entry Keyers
- Energy Brokers

- Insurance Claims Clerks
- Insurance Sales Agent
- Loan Interviewers and Clerks
- Meter Readers, Utilities
- Office Clerks, General

- Payroll & Timekeeping Clerks
- Postal Service Mail Carriers
- Reservation & Transportation Ticket Agents
- Retail Salespersons
- Tellers
## Business & Management 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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Core</th>
<th>Elective</th>
<th>Recommended Elective</th>
<th>Pathway Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>English, Math, Science, World Studies, Physical Education</td>
<td>World Language, Career Based Elective</td>
<td>Elective</td>
<td>Business &amp; Management Foundation, Public Speaking (NV)</td>
</tr>
</tbody>
</table>

### Industry Credential Opportunities:

Unavailable

**Fine Arts credit required for the class or 2014 and beyond.**

*Dual enrollment or articulated college credits may be 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 mechanical systems, food processing, horticulture, and natural resources.

**IS THIS YOU?**

- Working in a wide variety of working conditions, inside and outside?
- Having contact with plants and animals?
- Can you read scientific information and follow directions?
- Enjoy working with equipment?
- Like to be creative?
- Like working with your hands?

If you answer "yes" to most of these questions, the Environmental & Agricultural Systems Pathway may be for you.

### Career Opportunities by Educational Level

**Four Years of College and beyond**

<table>
<thead>
<tr>
<th>Agricultural Engineers</th>
<th>Farmers &amp; Ranchers</th>
<th>Park Naturalists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Inspectors</td>
<td>Food Scientists &amp; Technologists</td>
<td>Plant Scientists</td>
</tr>
<tr>
<td>Animal Scientists</td>
<td>Foresters</td>
<td>Range Managers</td>
</tr>
<tr>
<td>Biologists</td>
<td>Hydrologists</td>
<td>Soil Conservationists</td>
</tr>
<tr>
<td>Criminal Investigators</td>
<td>Landscape Architects</td>
<td>Veterinarians</td>
</tr>
<tr>
<td>Environmental Scientists</td>
<td>Nursery &amp; Greenhouse Managers</td>
<td>Zoologists &amp; Wildlife Biologists</td>
</tr>
</tbody>
</table>

**1 – 2 Years Training/Education**

<table>
<thead>
<tr>
<th>Animal Breeders</th>
<th>Floral Designers</th>
<th>Nursery &amp; Greenhouse Managers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Scientists</td>
<td>Forest Fire Inspectors &amp; Prevention Specialists</td>
<td>Pest Control Workers</td>
</tr>
<tr>
<td>Animal Trainers</td>
<td>Foresters</td>
<td>Veterinary Assistants</td>
</tr>
<tr>
<td>Biological Technicians</td>
<td>Landscape &amp; Groundskeeping Workers</td>
<td>Laboratory Animal Caretakers</td>
</tr>
<tr>
<td>Bus &amp; Truck Mechanics</td>
<td></td>
<td>Veterinary Technologists &amp; Technicians</td>
</tr>
<tr>
<td>Farmers &amp; Ranchers</td>
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<td></td>
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<tr>
<td>Fish &amp; Game Wardens</td>
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</tbody>
</table>

**High School**

<table>
<thead>
<tr>
<th>Agricultural Equipment Operators</th>
<th>Forest &amp; Conservation Workers</th>
<th>Nursery Workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Trainers</td>
<td>General Farm Workers</td>
<td>Pesticide Handlers</td>
</tr>
<tr>
<td>Butchers &amp; Meat Cutters</td>
<td>Landscaping &amp; Grounds Keeping Workers</td>
<td>Pest Control Workers</td>
</tr>
<tr>
<td>Farmers &amp; Ranchers</td>
<td></td>
<td>Retail Salespersons</td>
</tr>
<tr>
<td>Food Batchmakers</td>
<td>Materials Inspectors</td>
<td>Welder-Fitters</td>
</tr>
</tbody>
</table>
### Environmental & Agricultural 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.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Core</th>
<th>Additional requirements may be necessary for acceptance to some colleges</th>
<th>Recommended Schedule</th>
<th>Pathway Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td></td>
<td></td>
<td>Public Speaking</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Business &amp; Management Foundation</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td>Animal and Plant Science</td>
<td>Animal and Plant Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Plant and Horticulture</td>
<td>Plant and Horticulture</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Elective</td>
<td>Engineering Applications</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Elective</td>
<td>Engineering Design</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Elective</td>
<td>CAD</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td>Ag Business Tech Prep I</td>
<td>Ag Business Tech Prep II</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Money Management</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td>Ag Business Tech Prep II</td>
<td></td>
</tr>
</tbody>
</table>

**Industry Credential Opportunities:**

Unavailable

*Fine Arts credit required for the class of 2014 and beyond.*

Refer to course descriptions for further information about electives.

*Dual enrollment or articulated college credits may be awarded upon successful completion of CTE program.*
CAREER PATHWAY HIGH SCHOOL

Occupations - Health, Education & Human Services

Health & Human Services careers include a variety of jobs in law and legal 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

Four Years of College and beyond

| Biostatisticians       | Registered Nurses       | Medical Scientists       |
| Dietitians & Nutritionists | Veterinarians      | Mental Health Counselors       |
| Fitness Trainers & Aerobics Instructors | Child, Family & Social Workers | Molecular Biologists |
| Health Educators | Food Service Managers | Psychologists       |
| Occupational Therapists | Physical Therapists | Respiratory Specialists |
|                         |                        | Special Education Teacher |
|                         |                        | Training & Development Specialists |

1 – 2 Years Training/Education

| Chefs and Head Cooks | Loan Counselors | Emergency Medical Technicians |
| Child Care Workers | Massage Therapists | Paramedics |
| Dental Assistants | Social & Human Service | Medical Assistants |
| Dietetic Technicians | Assistants | Medical Equipment Repairers |
| Embalmers | Cardiovascular Technologists & Technicians | Nuclear Medicine Technologists |
| Fashion Designers | | Occupational Therapist Assistants |
| Fitness Trainers | Dental Hygienists | Pharmacy Technicians |
| Flight Attendants | | Phlebotomists |
| Hairdressers, Hairstylists & Cosmetologists | Dental Laboratory Technicians | Physician Assistants |
|                         |                        | Surgical Technologists |

High School

| Ambulance Drivers | Psychiatric Aides | Medical Records |
| Bus Drivers | Cashiers | Ophthalmic Laboratory Technicians |
| Dental Assistants | Child Care Workers | Patient Representatives |
| Commercial Pilots | Fire Inspectors | Receptionists |
| Home Health Aides | Food Preparation Workers | Information Clerks |
| Medical Assistants | | Recreation Workers |
| Nursing Aides, Orderlies | Hotel, Motel & Resort Desk Clerks | Security Guards |
| Nursing Attendants |                        | Teacher Assistants |
## 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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Core</th>
<th>Additional requirements may be necessary for acceptance to some colleges. See your counselor for information.</th>
<th>Elective</th>
<th>Pathway Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>English Math Science World Studies</td>
<td>Health and Physical Education</td>
<td>World Language</td>
<td>Career Based Elective</td>
</tr>
<tr>
<td>10</td>
<td>English Math Science American History</td>
<td>Physical Education</td>
<td>World Language</td>
<td>Elective</td>
</tr>
<tr>
<td>12</td>
<td>Senior English Math Science American Government</td>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

### Industry Credential Opportunities:

- Early Childhood Education-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
- Exploring Careers in Education-First Aid/CPR, Child Abuse Awareness, Communicable Disease Awareness
- Fine Arts credit required for the class of 2014 and beyond.

Dual enrollment or articulated college credits may be awarded upon successful completion of CTE program.
CAREER PATHWAY HIGH SCHOOL

*Occupations - Engineering, Industrial, Civil, 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 problems related to production. Others operate and 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 solutions?
- Do you enjoy solving problems using facts and judgments?
- Can you work accurately with detailed information?

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

**Career Opportunities by Educational Level**

**Four Years of College and beyond**
- Airplane Pilots
- Construction Managers
- Electonics Engineer
- Mechanical Engineer
- Aeronautical Engineer
- Quality Control Engineer
- Civil Engineer
- Biomedical Engineer
- Air Traffic Controllers
- Chemical Engineers
- Construction & Building Inspector
- Cost Estimators
- Industrial Production Manager
- Industrial Safety Engineer
- Materials Engineers
- Occupational Health & Safety Specialists
- Remote Sensing Technologists
- Sales Engineers

**1 – 2 Years Training/Education**
- Auto body Repairer
- Aircraft Mechanics
- Architectural drafters
- Avionics Technicians
- Civil Engineer Tech
- Computer Service Tech
- Construction Capenters
- Cost estimators
- Electro-Mechanical Technicians
- Engineering Technicians
- Mechanical Drafters
- Power generating Plant Operators
- Production Inspectors
- Production, Planning, and Expediting Clerks
- Surveyors
- Quality Control Analysts

**High School**
- Aircraft Structure Assemblers
- Appliance Services
- Construction Laborers
- Conveyor Operators & Tenders
- Drywall Installers
- Electricians Assistance
- Electrical Powerline Installers
- Energy Auditors
- First Line Supervisors of Contraction Trades
- Heating & Air Conditioning Mechanics
- Elevator Installers & repairers
- Industrial Machinery Mechanics
- Operating Engineers
- Purchasing Agents
- Roofers
- Stationary Engineers & Boiler Operators
- Tool &n Die Makers
- Welders & Cutters
### Engineering & Industrial 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.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Core</th>
<th>Recommended Schedule</th>
<th>Pathway Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>English Math Science World Studies</td>
<td>Health and Physical Education World Language Career Based Elective Elective</td>
<td>NORTHVIEW Engineering Applications Engineering Design CAD SOUTHVIEW Engineering Applications Engineering Design CAD</td>
</tr>
<tr>
<td>10</td>
<td>English Math Science American History</td>
<td>Physical Education World Language Elective Elective</td>
<td>NORTHVIEW Introduction to Alternative Energy SOUTHVIEW Introduction to Alternative Energy</td>
</tr>
<tr>
<td>12</td>
<td>Senior English Math Science American Government</td>
<td>Elective Elective Elective Elective</td>
<td>NORTHEVIEW Engineer. Tech Prep II* SOUTHVIEW Automotive Collision II* Construction Tech II* Engineer. Tech Prep II*</td>
</tr>
</tbody>
</table>

**Industry Credential Opportunities:**
- Auto Collision Repair: ASE Certification Training Program
- Construction Technology: OSHA Safety Certification
- Engineering: FEMA and HAZMAT Certification

Fine Arts credit required for the class of 2014 and beyond.

Refer to course descriptions for further information about electives.
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. Workers in this group use technical knowledge, artistic expression to communicate and maintain the operations of technical equipment including workstation, systems and networks. Employers in this cluster seek lifelong learners who can locate and use information.

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

<table>
<thead>
<tr>
<th>Art Directors</th>
<th>Computer Systems Analysts</th>
<th>Information Security Analysts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer &amp; Information Systems Manager</td>
<td>Creative writers</td>
<td>Network Architects</td>
</tr>
<tr>
<td>Computer Hardware Engineering</td>
<td>Database Administrators</td>
<td>Network &amp; Computer Systems Administrators</td>
</tr>
<tr>
<td>Computer Programmers</td>
<td>Desktop Publishers</td>
<td>Software Developers</td>
</tr>
<tr>
<td></td>
<td>Graphic Designers</td>
<td></td>
</tr>
</tbody>
</table>

1 – 2 Years Training/Education

<table>
<thead>
<tr>
<th>Cartoonists</th>
<th>Film &amp; Video Editors</th>
<th>Radio Mechanics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer, Automated Teller &amp; Office Machine Repairs</td>
<td>Graphic Designers</td>
<td>Screen Printing Machine Setters &amp; Set-up Operators</td>
</tr>
<tr>
<td>Computer User Support Specialists</td>
<td>Network Support Specialists</td>
<td>Telecommunications Line Installers &amp; Repairers</td>
</tr>
<tr>
<td>Database Administrators</td>
<td>Operations Research Analysts</td>
<td></td>
</tr>
<tr>
<td>Electronic Drafters</td>
<td></td>
<td>Web Developers</td>
</tr>
</tbody>
</table>

High School

<table>
<thead>
<tr>
<th>Audio Visual Collections Specialists</th>
<th>Office Clerks, General</th>
<th>Sound Engineering Technicians</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Operators</td>
<td>Photoengravers</td>
<td>Visual Artists</td>
</tr>
<tr>
<td>Data Entry Keyers</td>
<td>Photographers Assistants</td>
<td>Sound Engineering Technicians</td>
</tr>
<tr>
<td>Job Printers</td>
<td>Receptionists &amp; Information Clerks</td>
<td>Telemarketer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Word Processor</td>
</tr>
</tbody>
</table>
### 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.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Core</th>
<th>Additional requirements may be necessary for acceptance to some colleges See your counselor for information.</th>
<th>Pathway Electives</th>
<th>Refer to course descriptions for further information about these electives or consecutive courses in the cluster.</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>American Literature, Math, Science, Social Studies Elective</td>
<td>World Language (recommended for college preparatory), Elective, Elective, Elective</td>
<td></td>
<td>Interactive Media I*, Money Management, Visual Communication Design I*</td>
</tr>
<tr>
<td>12</td>
<td>Senior English, Math, Science, American Government</td>
<td>Elective, Elective, Elective, Elective</td>
<td></td>
<td>Interactive Media II*, Visual Communication Design II*, *Dual enrollment or articulated college credits may be awarded upon successful completion of CTE program.</td>
</tr>
</tbody>
</table>

**Industry Credential Opportunities:**

Unavailable

Fine Arts credit required for the class of 2014 and beyond.

Refer to course descriptions for further information about electives.
Telephone Numbers

Sylvania Northview High School..........................419-824-8570

Administration
Steve Swaggerty, Principal................................................. x5101
Leslie Wakeland, Secretary ................................................. x5100
Bonnie Kobee, Records Secretary................................. x5104
Kasey Vens, Assistant Principal, Curriculum & Instruction .. x5106
Kim Pietrykowski, Secretary ............................................. x5107
Chris Fahim, Assistant Principal, Student Services .......... x5105
Cathy Bohland, Secretary ................................................ x5103
Chris Irwin, Athletic Director ............................................ x5113

Guidance
Ann Kuebler, Guidance Secretary................................. 419.824.8715
Crystal Burnworth, A - FL Guidance Counselor............... 419.824.8711
Melanie Rogers, FO - L Guidance Counselor................... 419.824.8709
Kate Henk, M - RO Guidance Counselor ......................... 419.824.8716
Stacie Wachowiak, RU - Z Guidance Counselor ............. 419.824.8714

Resource Center
Darla Omey, Media Specialist .......................................... x5208

Department Chairs/Liaisons
Career Technology ............................................................. Ryan Eickholt
English ................................................................................. Amy Schloegl
Guidance ........................................................................... Stacie Wachowiak
Math ................................................................................... Greg Christy
Science .............................................................................. Frank Ulrich
Social Studies .................................................................. Perry Lefevre
Special Education .......................................................... Christine Saverstrom/Amy Loyd
Supporting Disciplines ................................................... Terri Seal-Roth
World Language ............................................................... Lindsey Jurski
GRADUATION REQUIREMENTS

It is the student’s responsibility to see that the requirements for graduation are met. Southview High School will make every effort to keep up-to-date records and students and parents informed about the status of progress 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.

CLASS OF 2017

• Students must pass all parts of the Ohio Graduation Test or have met the alternative requirement according to Ohio Revised Code Section 3313.615.

• Twenty-two (22) units of satisfactory work at the high school level are required for graduation.

• Sylvania Requirement Credits
  - English 4
  - Social Studies¹ 3
  - Science 3
  - Math² 4
  - Health/Physical Education 1
  - Fine Arts³ 1
  - Electives⁴ 6.0
  - Total Credits 22

1. Earn a cumulative passing score on seven end-of-course exams. 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. The state of Ohio will pay for all 11th-grade students in the Class of 2018 and beyond to take the exam free of charge.
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 on a job skills assessment.

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).
4. The recommended course load is six (6) periods of course work per semester for freshmen and sophomores. The recommended course load for juniors and seniors is five (5) courses per semester.
5. 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.
6. The school reserves the right to limit or cancel any classes which are offered in the program of studies.

POST SECONDARY TRANSITION ACTIVITIES

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 a.m. or p.m. flexible schedule. An a.m. flexible schedule will allow for a delayed starting time. A p.m. 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.

CLASSES OF 2018 and Beyond

• Students must pass the Ohio Core Curriculum, participate in end of course exams, and meet one of three pathways to graduation (Ohio Dept. of Education).

1. Earn a cumulative passing score on seven end-of-course exams. 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. The state of Ohio will pay for all 11th-grade students in the Class of 2018 and beyond to take the exam free of charge.
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 on a job skills assessment.

1. One credit of World Studies, 1 credit American History, .5 credit American Government, remaining .5 credit elective.
2. Math units must include Algebra II
3. Students must complete at least two semesters of fine arts. Students following a career-technical pathway are exempted from the fine arts requirement. Please see your guidance counselor for details.
4. Five of the 6 electives must be chosen from foreign language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education, or English, mathematics, or science, social studies courses not otherwise required.
5. Please see the course descriptions for qualifying courses
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.
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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 requirements for graduation as well as for passing all five sections of the Ohio Graduation Test. 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 (For Example: Assembly, 2 Hour Delay, Etc.)
3. If the student participates in extra-curricular activities, he or she must maintain athletic eligibility. All athletes must pass a minimum of five full credit courses per quarter according to OHSAA Bylaws. Students who plan to participate in collegiate-level athletics must also follow NCAA Clearinghouse regulations.
4. 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.
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, excessive absence, or tardies.

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 considered, you should see your counselor prior to the closing of the school year. No personal preference changes 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.
FRESHMAN: 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 following course descriptions to finalize your course selections.

To help you plan your schedule, include the required courses listed below plus a minimum of one elective.

Required Courses: English 9, Math, Science 9, World Studies, Health, Physical Education

The following course descriptions are designed to assist in scheduling your freshman year. We have 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

3100 ENGLISH 9
Year Credit 1 Est Fee: $15 (Required Novels)
English 9 is a required course that combines the study of various literary genre (both fiction and nonfiction), composition, research skills, and vocabulary. Literature study will develop through the study of short stories, novels, drama, poetry, articles, essays, and other nonfiction sources. Composition focuses on a variety of different kinds of writing that require a multi-paragraph development. Students will be required to complete the state mandated end of course assessment. Supplemental materials are required and must be purchased or supplied by the student. A summer reading, located on the Northview website at www.sylvaniaorthview.org, is required for this course.

3101 HONORS ENGLISH 9
Year Credit 1 Est Fee: $30 (Required Novels)
Prerequisite: 8th 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 literature; literary analysis in essay tests; extensive work in writing skills and vocabulary. Students should have advanced 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 summer reading, located on the Northview website at www.sylvaniaorthview.org, is required for this course.

MATH CURRICULUM

3306 ALGEBRA I
Year Credit 1 Grade 9-12
Algebra I is a course which generalizes the concepts of arithmetic through the use of symbols. The student will begin to develop the ability to reason abstractly. The course covers the following topics: data analysis as it relates to functions, solving linear equations and inequalities, properties of exponents, ratios, proportions, percents, factoring, graphing linear and quadratic functions, finding solutions to quadratic functions and systems of equations, and applications of these concepts. A TI-83 Plus or TI-84 Plus graphing calculator is required. Summer work is required for this course, please see instructor.

3308 GEOMETRY
Year Credit 1 Grade 9-12
Prerequisite: Algebra I or Algebra I (2B)
This course discusses the properties of plane and space figures, including parallel and perpendicular lines, triangles (including right triangles and trigonometry), parallelograms, trapezoids, and circles. It also teaches the concepts of congruence, similarity, and parallelism, and uses these concepts to develop logical reasoning skills so that proof-reading skills are developed. Students will calculate the area and volume of various polygons and three-dimensional figures. Students will study examples of geometry in the physical world and how to use geometric concepts to solve problems. A TI-83 Plus or TI-84 Plus graphing calculator is required. Summer work is required for this course, please see instructor.

3309 HONORS GEOMETRY
Year Credit 1 Grade 9-10
Prerequisite: Algebra 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 solving. Emphasis is given to the structure of geometry and the development of direct proofs. Proof-writing skills are developed by beginning with short and simple ideas that gradually lead to more complex proofs. Students will understand how geometry grows from observations and common relationships. Students will study examples of geometry in the physical world and how to use geometric concepts to solve problems. Other ideas that are developed include: trigonometry, indirect proofs, inductive reasoning, non-Euclidean geometries, transformations, and symmetry. Throughout the course students will utilize algebraic skills and develop constructions using compass and straight edge. A TI-83 Plus or TI-84 Plus graphing calculator is required.

SCIENCE CURRICULUM

A full year of physical science, a full year of biological science and a full year of elective science are required for graduation.

3401 PHYSICAL SCIENCE
Year Credit 1 Grade 9 Est. Fee: $10
Through lecture and laboratory investigations, students are introduced to the basic concepts of chemistry and physics. Chemistry topics include the properties of matter, patterns in the periodic table of elements, and reactions of matter. During the physics overview, students will be introduced to dynamics (Newton’s laws 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 the subject matter, students are trained in the techniques of the scientific method through assembling lab equipment, conducting investigations, 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 is recommended as this course involves analytical problem solving and mathematical concepts including graphing.

3402 HONORS PHYSICAL SCIENCE
Year Credit 1 Grade 9 Est. Fee $10
Prerequisite: Algebra I and teacher recommendation
Honors Physical Science is designed for the advanced freshman student who has a strong interest in STEM fields (science, technology, engineering and/or mathematics) and plans to pursue upper level Honors and/or AP science courses. Utilizing developmentally appropriate inquiry experiments, quantitative problem solving, project-based learning, lecture and discussion, Honors Physical Science gives an in-depth treatment to the topics covered in Physical Science 3404/3405. Honors Physical Science also introduces material not covered in 3404/3405 but expected in the summer assignments for the upper level Honors Chemistry and Physics courses. Most Honors Physical Science students naturally progress to Honors Biology. Some students who are highly motivated and successful in Honors Physical Science may 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.
Focus on historical developments and processes that cross multiple regions. History encompasses the history of the five major geographical regions of historical inquiry for investigation throughout the course. AP World state-building, economic systems, and social structures — provide areas focusing on the environment, cultures, and responsible personal and social behavior in a physical activity setting.

This course completes a chronological study of world history from 1750 to the present. This study includes not only history, but integrates each of the other six social studies standards. As students study each historical event, they consider the geographic setting, the cultural perspectives, the economic implications and the role of the governments. They develop a deeper understanding of their role as citizens and continue to expand their command of social studies skills and methods.

The Honors course requires students to study concepts in greater depth and to complete some extended reading and writing assignments. A recommendation from 8th grade English and Social Studies teachers is required. Students will be expected to complete a considerable amount of reading. Students will be expected to express themselves well both orally and in writing.

AP World History focuses on developing students’ abilities to think conceptually about world history from approximately 8000 BCE to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance — focusing on the environment, cultures, state-building, economic systems, and social structures — provide areas of historical inquiry for investigation throughout the course. AP World History encompasses the history of the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania, with special focus on historical developments and processes that cross multiple regions.

Physical Education classes meet every day for one semester. Appropriately clothing is required for participation. The course includes instruction covering the six state standards including knowledge content and 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.

### FRESHMAN: Electives

#### ARTS & COMMUNICATION

- 3740 Art Foundations: Year, 1 credit
- 3742 AP Art History: Year, 1 credit
- 8346 Computer Graphics: Semester, .5 credit
- 3113 Drama I: Semester, .5 credit
- 3114 Theater Workshop: Semester, .5 credit
- 3117 Public Speaking: Semester, .5 credit
- 4760 Art of Photojournalism: Semester, .5 credit

#### Music

- 3758 Symphonic Band: Year, 1 credit
- 3756 Concert Band: Year, 1 credit
- 3750 Band Auxiliary: Quarter, .25 credit
- 3751 Concert Orchestra: Year, 1 credit
- 3752 Wind Ensemble: Year, 1 credit
- 3762 Chamber Orchestra: Year, 1 credit
- 3775 Northview Men’s Chorus: Year, 1 credit
- 3776 Northview Women’s Chorus: Year, 1 credit

#### BUSINESS & MANAGEMENT

- 8410 Business Foundations: Semester, .5 credit

#### ENGINEERING & INDUSTRIAL

- 8392 Engineering Design: Semester, .5 credit
- 83921 3D Modelling & Prototyping: Year, 1 credit
- 8394 Engineering Applications: Semester, .5 credit
- 8396 Introduction to Alternative Energy: Semester, .5 credit
- 8398 Computer Aided Design: Semester, .5 credit

#### ENVIRONMENTAL & AGRICULTURE

- 8441 Agriculture & Environmental Systems: Year, 1 credit
- 8442 Plant and Horticulture: Year, 1 credit

#### HEALTH, EDUCATION & HUMAN SERVICES

- 8375 Transitions and Careers: Semester, .5 credit
- 8376 Personal Wellness and Development: Semester, .5 credits
- 8377 Principles of Nutrition and Wellness: Semester, .5 credit
- 8360 Introduction to Education: Semester, .5 credit
- 8330 Health Careers Foundation: Semester, .5 credit

#### INFORMATION TECHNOLOGIES

- 8311 Software Applications: Semester, .5 credit
- 8309 Today’s Technology: Semester, .5 credit
- 8415 Intro to Computer Programming: Semester, .5 credit
- 8598 Intro to Visual Technology: Semester, .5 credits
- 8599 Careers in Visual Technology: Semester, .5 credits

#### SOCIAL STUDIES

- 3328 Geography: Semester, .5 credit

#### WORLD LANGUAGES

- 3700 French I: Year, 1 credit
- 3701 French II: Year, 1 credit
- 3730 Spanish I: Year, 1 credit
- 3731 Spanish II: Year, 1 credit
- 3726 Chinese I: Year, 1 credit
SOPHOMORE: 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 following course descriptions to finalize your course selections.

To help you plan your schedule, include the required courses listed below plus a minimum of 1.5 electives.

**Required Courses:** English 10, Math, Biology, American History, Physical Education

The following course descriptions are designed to assist in scheduling your sophomore year. We have a nine-period day. It is recommended that Sophomores 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.*

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### ENGLISH CURRICULUM

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
<th>Credit</th>
<th>Est Fee</th>
<th>Prerequisite:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3110</td>
<td>ENGLISH 10</td>
<td></td>
<td>1</td>
<td>$15</td>
<td>English 9</td>
</tr>
</tbody>
</table>

English 10 is a survey of world literature that emphasizes universal themes from a variety of cultural and historical sources, both fiction and nonfiction. Diligent active reading strategies and ongoing literary analysis will be introduced and reinforced. Writing instruction will focus on clear and effective expository, persuasive, and documentation through the composition of logically-developed essays. Students will begin to complete the state mandated end of course assessment. 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.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
<th>Credit</th>
<th>Est Fee</th>
<th>Prerequisite:</th>
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<tr>
<td>3112</td>
<td>HONORS ENGLISH 10</td>
<td></td>
<td>1</td>
<td>$30</td>
<td>English 9 and 9th grade teacher’s recommendation</td>
</tr>
</tbody>
</table>

English 10 addresses all aspects of the English 10 core curriculum and will differ in the selection of the material and depth of analysis and response required to evaluate literature. Students learn advanced skills of literary analysis and annotation. Composition focuses on literary analysis, logically-developed expository essays and the development of the term paper. This honors course is designed to prepare students for Advanced Placement English in the junior year. 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 summer reading, located on the Northview website at www.sylvanianorthview.org, is required for this course.

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### MATH CURRICULUM

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<tr>
<th>Course Code</th>
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<th>Year</th>
<th>Credit</th>
<th>Est Fee</th>
<th>Prerequisite:</th>
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</thead>
<tbody>
<tr>
<td>3306</td>
<td>ALGEBRA I</td>
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</tbody>
</table>

Algebra I is a course which generalizes the concepts of arithmetic through the use of symbols. The student will begin to develop the ability to reason abstractly. The course covers the following topics: data analysis as it relates to functions, solving linear equations and inequalities, properties of exponents, ratios, proportions, percents, factoring, graphing linear and quadratic functions, finding solutions to quadratic functions and systems of equations, and applications of these concepts. A TI-83 Plus or TI-84 Plus graphing calculator is required. Summer work is required for this course, please see instructor.

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<thead>
<tr>
<th>Course Code</th>
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<th>Year</th>
<th>Credit</th>
<th>Est Fee</th>
<th>Prerequisite:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3308</td>
<td>GEOMETRY</td>
<td></td>
<td>1</td>
<td></td>
<td>Algebra I or Algebra I (2B)</td>
</tr>
</tbody>
</table>

This course discusses the properties of plane and space figures, including parallel and perpendicular lines, triangles (including right triangles and trigonometry), parallelograms, trapezoids, and circles. It also teaches the concepts of congruence, similarity, and parallelism, and uses these concepts to develop logical reasoning skills so that proof-writing skills are developed. Students will calculate the area and volume of various polygons and three-dimensional figures. Students will study examples of geometry in the physical world and how to use geometric concepts to solve problems. A TI-83 Plus or TI-84 Plus graphing calculator is required. Summer work is required for this course, please see instructor.

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### SCIENCE CURRICULUM

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
<th>Credit</th>
<th>Est Fee</th>
<th>Prerequisite:</th>
</tr>
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<tbody>
<tr>
<td>3309</td>
<td>HONORS GEOMETRY</td>
<td></td>
<td>1</td>
<td></td>
<td>Algebra I and teacher recommendation</td>
</tr>
</tbody>
</table>

In addition to all of the concepts covered in the regular geometry course, students will develop skills in critical thinking, logical reasoning, and problem solving. Emphasis is given to the structure of geometry and the development of direct proofs. Proof-writing skills are developed by beginning with short and simple ideas that gradually lead to more complex proofs. Students will understand how geometry grows from observations and common relationships. Students will study examples of geometry in the physical world and how to use geometric concepts to solve problems. Other ideas that are developed include: trigonometry, indirect proofs, inductive reasoning, non-Euclidean geometries, transformations, and symmetry. Throughout the course students will utilize algebraic skills and develop constructions using compass and straight edge. A TI-83 Plus or TI-84 Plus graphing calculator is required.

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<thead>
<tr>
<th>Course Code</th>
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<th>Year</th>
<th>Credit</th>
<th>Est Fee</th>
<th>Prerequisite:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3312</td>
<td>ALGEBRA II</td>
<td></td>
<td>1</td>
<td></td>
<td>Geometry or Intermediate Algebra</td>
</tr>
</tbody>
</table>

Algebra II studies the problems of Algebra I in greater depth and is a more sophisticated treatment of those problems. In addition, the concept of function is developed through the use of linear, quadratic, exponential, logarithmic, and radical functions. Students will explore the complex number system, matrices, and conic sections. This course requires a summer assignment which can be found at http://moodle.sylvianiaschools.org/course/category.php?id=2. A TI-83 Plus or TI-84 Plus graphing calculator is required.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
<th>Credit</th>
<th>Est Fee</th>
<th>Prerequisite:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3313</td>
<td>HONORS ALGEBRA II</td>
<td></td>
<td>1</td>
<td></td>
<td>Honors Geometry and teacher recommendation</td>
</tr>
</tbody>
</table>

The emphasis in Honors Algebra II is on application problems involving linear, exponential, logarithmic, quadratic, radical, polynomial, and rational functions. In addition, sequences and series, analytical geometry, and statistical topics are explored. A student should be prepared to move at a rapid pace in the course. A TI-83 Plus or TI-84 Plus graphing calculator is required.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Year</th>
<th>Credit</th>
<th>Est Fee</th>
<th>Suggested reading: Sand County Almanac</th>
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<tbody>
<tr>
<td>3413</td>
<td>BIOLOGY</td>
<td></td>
<td>1</td>
<td>$10</td>
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</tbody>
</table>

Biology is an introductory course designed to acquaint the students with the history, techniques, and major concepts of the field, as well as to provide an overview of the field of biology. Biology not only provides the student with the opportunity to learn about and appreciate other organisms that live on earth, but also develops the background necessary to provide an understanding of the multitude of physical and physiological processes that are characteristic of the living condition. The laboratory experience is essential in this course and students receive experiences that parallel work done by scientists. Visual aids, explanations, and lectures are used to both reinforce and extend the course content and concepts.
3411 HONORS BIOLOGY
Year Credit 1 Grade 10-12 Est. Fee $10
Prerequisites: Teacher recommendation
Required Readings: A summer homework assignment is required. A student selected for this class must see the instructor during the second semester exam week in order to obtain their summer assignment.
Honors Biology is designed for highly motivated students with considerable interest in the sciences. Honors Biology is a laboratory-oriented course in which the students spend 25-30% of their time in the laboratory or laboratory-related activities. Lab investigations are designed to allow the students to collect data, analyze it and make inferences to basic biological concepts. Studies delve into biological concepts in areas of ecological relationships, cellular biochemistry, cell structure, classification, genetics and evolution. Tests are, in part, the problem solving type designed to measure the student's critical thinking and problem solving skills as they apply to particular biological concepts. During the year, several formal lab write-ups are required in addition to one special assignment each quarter. Summer assignments may also be found at the Northview website www.sylvanianorthview.org.

3443 HONORS STEM RESEARCH
Year Credit 1 Grade 10-12 Est. Fee: $50
Prerequisite: Honors Physical Science and instructor approval.
This course provides opportunities to learn the scientific method and to develop projects of the student's own design. Students are expected to research, discuss, and present a variety of topics and to propose a project that will be completed independently by the student. This is a seminar style class incorporating mastery learning. There may be opportunities for community outreach and school projects which enrolled students will be expected to attend afterschool or off-campus. The class involves project development and implementation, data analysis, and preparation of reports and presentations with an eye towards entering various science competitions. Students are required to attend two competitions outside of the school day in March. Course fee includes entry fee for these two competitions.

3204 AMERICAN HISTORY
Year Credit 1 Grade 10
This course completes the chronological study of the history of the United States begun in eighth grade. This study includes not only history from 1877 to the present, but integrates each of the other six social studies standards. As students study historic events, they consider the geographic setting, the cultural perspectives, the economic implications and the role of the government. They develop a deeper understanding of their role as citizens and continue to expand their command of social studies skills and methods.

3207 AP UNITED STATES HISTORY
Year Credit 1 Grade 10
Prerequisites: Overall GPA of 3.0 or teacher recommendation.
This American History course is a survey offering which is more rigorous than regular American History. The course is designed to provide upper level 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.

3500 PHYSICAL EDUCATION
Semester Credit ½ Grade 9-10
Physical Education classes meet every day for one semester. Appropriate clothing is required for participation. The course includes instruction covering the six state standards including knowledge content and 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

- **3740** Art Foundations: Year, 1 credit
- **3742** AP Art History: Year, 1 credit
- **3743** 2D Design: Year, 1 credit
- **3741** 3D Design: Year, 1 credit
- **3739** Art Appreciation: Semester, .5 credit
- **8346** Computer Graphics: Semester, .5 credit
- **3113** Drama: Semester, .5 credit
- **3114** Theater Workshop: Semester, .5 credit
- **3117** Public Speaking: Semester, .5 credit
- **3120** Intro to Journalism: Semester, .5 credit
- **3128** Journalism: Year, 1 credit
- **3129** Yearbook: Year, 1 credit
- **4760** Art of Photojournalism: Semester, .5 credit

Music

- **3758** Symphonic Band: Year, 1 credit
- **3756** Concert Band: Year, 1 credit
- **3750** Band Auxiliary: Quarter, .25 credit
- **3751** Concert Orchestra: Year, 1 credit
- **3752** Wind Ensemble: Year, 1 credit
- **3762** Chamber Orchestra: Year, 1 credit
- **3764** A Cappella/Honors: Year, 1 credit
- **3769** Harmony Road Show: Year, 1 credit
- **3768** Popular Music: Semester, .5 credit
- **3775** Northview Men's Chorus: Year, 1 credit
- **3776** Northview Women's Chorus: Year, 1 credit

BUSINESS & MANAGEMENT

- **8310** Business Foundations: Semester, .5 credit

ENGINEERING & INDUSTRIAL

- **8392** Engineering Design: Semester, .5 credit
- **83921** 3D Modelling & Prototyping: Year, 1 credit
- **8394** Engineering Applications: Semester, .5 credit
- **8396** Introduction to Alternative Energy: Semester, .5 credit
- **8398** Computer Aided Design: Semester, .5 credit

ENVIRONMENTAL & AGRICULTURE

- **8441** Agriculture & Environmental Systems: Year, 1 credit
- **8442** Plant and Horticulture: Year, 1 credit

HEALTH, EDUCATION & HUMAN SERVICES

- **8376** Personal Wellness and Development: Semester, .5 credits
- **8377** Principles of Nutrition and Wellness: Semester, .5 credit
- **8360** Introduction to Education: Semester, .5 credit
- **8330** Health Careers Foundation: Semester, .5 credit

INFORMATION TECHNOLOGIES

- **8311** Software Applications: Semester, .5 credit
- **8309** Today's Technology: Semester, .5 credit
- **8415** Intro to Computer Programming: Semester, .5 credit
- **8598** Intro to Visual Technology: Semester, .5 credits
- **8599** Careers in Visual Technology: Semester, .5 credits

SCIENCE

- **3426** AP Physics 1: Year, 1 credit
- **3443** Honors STEM Research: Year, 1 credit

SOCIAL STUDIES

- **3328** Geography: Semester, .5 credit

WORLD LANGUAGES

- **3700** French I: Year, 1 credit
- **3701** French II: Year, 1 credit
- **3702** Honors French III: Year, 1 credit
- **3730** Spanish I: Year, 1 credit
- **3731** Spanish II: Year, 1 credit
- **3732** Honors Spanish III: Year, 1 credit
- **3726** Chinese I: Year, 1 credit
JUNIOR: 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 following course descriptions to finalize your course selections.

To help you plan your schedule, include the required courses listed below plus a minimum of 1.5 electives.

Required Courses: American Literature, Math, Science, Social Studies elective

The following course descriptions are designed to assist in scheduling your Junior year. We have 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.

Juniors 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 a flexible schedule option, the district is not responsible for transportation outside regular scheduled routes.

Note: The school reserves the right to limit or cancel course offerings.

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**ENGLISH CURRICULUM**

**3124 AMERICAN LITERATURE**

<table>
<thead>
<tr>
<th>Year</th>
<th>Credit</th>
<th>Grade</th>
<th>Est Fee: $30 (Required Novels)</th>
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<tbody>
<tr>
<td></td>
<td>1</td>
<td>11</td>
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</table>

Prerequisite: English 9 & 10

American Literature is a study of well-known American authors with an emphasis on the historical context and American ideals presented in the literature of America. Major literary genres include both fiction and nonfiction through study of journals, essays, diaries, sermons, poems, plays, novels, documents, speeches, and articles. Critical and analytical terminology to discuss and respond to literature is emphasized. Writing skills are developed 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.org, is required for this course.

**3125 JUNIOR HUMANITIES**

<table>
<thead>
<tr>
<th>Year</th>
<th>Credit</th>
<th>Grade</th>
<th>Est Fee $30 (Required Novels)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>1</td>
<td>11</td>
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</table>

Junior Humanities analyzes how diverse American communities create the American culture. Literature analysis and discussion will include the cultural heritage in which the works were created - such as the religion, philosophy, economics, and social issues of race and gender of that period - as well as the universal concerns shared by all cultures. Students will explore various texts, such as 17th, 18th, and 19th century nonfiction and 19th, 20th, 21st century 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 reading, located on the Northview website at www.sylvanianorthview.org, is required for this course.

**3126 AP ENGLISH LANGUAGE & COMPOSITION**

<table>
<thead>
<tr>
<th>Year</th>
<th>Credit</th>
<th>Grade</th>
<th>Est Fee: $30 (Required Novels)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>1</td>
<td>11</td>
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</table>

Prerequisite: English 9 & 10 and 10th grade teacher’s recommendation.

Students 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 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 Northview website at www.sylvanianorthview.org, is required for this course.

**3135 AP ENGLISH LITERATURE & COMPOSITION**

<table>
<thead>
<tr>
<th>Year</th>
<th>Credit</th>
<th>Grade</th>
<th>Est Fee: $30 (Required Novels)</th>
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<tbody>
<tr>
<td></td>
<td>1</td>
<td>12</td>
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</tbody>
</table>

Prerequisite: English 9 & 10 and 10th grade teacher’s recommendation.

Students in Advanced Placement English Language & Composition pursue studies equivalent to a college level study in literature and composition. Classic literature from a variety of genres, time periods, disciplines, types and rhetorical contexts will be studied with an emphasis on critical and analytical techniques used to evaluate literature. A heavy emphasis on written composition allows 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 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.

**MATH CURRICULUM**

**3308 GEOMETRY**

<table>
<thead>
<tr>
<th>Year</th>
<th>Credit</th>
<th>Grade</th>
<th>Est Fee: $30 (Required Novels)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>9-12</td>
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</tbody>
</table>

Prerequisite: Algebra I or Algebra I (2B)

This course discusses the properties of plane and space figures, including parallel and perpendicular lines, triangles (including right triangles and trigonometry), parallelograms, trapezoids, and circles. It also teaches the concepts of congruence, similarity, and parallelism, and uses these concepts to develop logical reasoning skills so that proof-reading skills are developed. Students will calculate the area and volume of various polygons and three-dimensional figures. Students will study examples of geometry in the physical world and how to use geometric concepts to solve problems. A TI-83 Plus or TI-84 Plus graphing calculator is required. Summer work is required for this course, please see instructor.

**3300 INTERMEDIATE ALGEBRA**

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<thead>
<tr>
<th>Year</th>
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<th>Grade</th>
<th>Est Fee: $30 (Required Novels)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>11-12</td>
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</tbody>
</table>

Prerequisite: Algebra I and Geometry and teacher recommendation.

Intermediate Algebra reviews topics form Algebra I and extends these topics 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 only linear functions, but quadratic, absolute value, radical, and exponential functions; applications; writing equations of lines based on given information or data collection; extensions of simplifying techniques of exponents and polynomials. This course will include many applications and use of technology (graphing calculators, motion detectors, and internet research) and more project based learning, which will include writing samples. A TI-83 Plus or TI-84 Plus graphing calculator is required.
3312 ALGEBRA II
Year Credit 1 Grade 10-12
Prerequisite: Geometry or Intermediate Algebra
Algebra II studies the problems of Algebra I in greater depth and is a more sophisticated treatment of those problems. In addition, the concept of function is developed through the use of linear, quadratic, exponential, logarithmic, and radical functions. Students will explore the complex number system, matrices, and conic sections. This course requires a summer assignment which can be found at http://moodle.sylvanianorthview.org/course/assignment.php?id=2. A TI-83 Plus or TI-84 Plus graphing calculator is required.

3313 HONORS ALGEBRA II
Year Credit 1 Grade 10-12
Prerequisite: Honors Geometry and teacher recommendation
The emphasis in Honors Algebra II is on application problems involving linear, exponential, logarithmic, quadratic, radical, polynomial, and rational functions. In addition, sequences and series, analytical geometry, and statistical topics are explored. A student should be prepared to move at a rapid pace in the course. A TI-83 Plus or TI-84 Plus graphing calculator is required.

3315 STATISTICS
Year Credit 1 Grade 11-12
Prerequisite: Algebra II
Statistics is a course that offers a change from a traditional math course. Although proficiency in algebra skills is needed, students will also learn to analyze and represent their answers graphically. Students will use real-world data to explore the specific topics: sampling techniques, probability, measures of central tendency, visual data descriptions using technology, 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 math course or concurrently with any course after Algebra II. Concurrent credit may be available to those students who qualify through Lourdes College. See page 15 for details. A TI-83 Plus or TI-84 Plus graphing calculator is required.

3325 AP STATISTICS
Year Credit 1 Grade 11-12
Prerequisite: Algebra II
This college level course is for the student who desires all the knowledge of statistics above and beyond the general statistics class. The course provides instruction on four broad conceptual themes – Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. Students will draw connections between all aspects of the statistical process, including design, analysis, and conclusions. Students will learn how to communicate methods, results, and interpretations using the vocabulary of statistics and how to use graphing calculators and computers to enhance the development of statistical understanding. AP Statistics is for high achieving math students and may be taken as a student’s lone math course or concurrently with any course after Algebra II. A TI-83 Plus or TI-84 Plus graphing calculator is required.

3321 PRE-CALCULUS
Year Credit 1 Grade 11-12
Prerequisite: Algebra II
Pre-calculus introduces the student to the trigonometric functions, 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 on the study of analytical geometry. Application problems using these functions are studied. A TI-83 Plus or TI-84 Plus graphing calculator is required.

3320 HONORS PRE-CALCULUS
Year Credit 1 Grade 11-12
Prerequisite: Algebra II and teacher recommendation
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 prepared to move at a rapid pace and should be able to advance beyond memorization to application of knowledge. A TI-83 Plus or TI-84 Plus graphing calculator is required.

SCIENCE CURRICULUM

3421 AP BIOLOGY
Year Credit 1 Grade 11-12 Est. Fee $10
7 periods or equivalent
Prerequisite: Teacher recommendation, Biology or Honors Biology, Chemistry or Honors Chemistry or being taken concurrently
A course for highly motivated/interested students, AP Biology gives in-depth treatment to cell structure and function, taxonomy, evolution, ecology, biochemistry, genetics, protein synthesis, plant and animal physiology, applied botany, biogeneretics, history of biology, homeostatic mechanisms, behavior, gene action, and more. Laboratory experiences provide opportunities for the student to further develop observational and analytical skills and are 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 investigate macromolecule structure, photosynthetic rates, enzyme function 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 concepts. A summer assignment of outside readings and selected text chapters is required. Students electing to take AP Biology should see the instructor before the end of the second semester exams to sign out a text. Summer assignments may also be found at the Northview website www.sylvianorthview.org. The course is recognized by colleges as a laboratory credit course. It is expected that students will take the AP Exam.

3435 ENVIRONMENTAL SCIENCE I
Semester Credit 1/2 Grade 11-12 Est. Fee $5
Prerequisites: Biology or Honors Biology
Environmental Science I is an elective science course involving the study of soil science, water quality, the Great Lakes, animals of Ohio: birds, reptiles, amphibians, fish, and mammals. These topics will be discussed in the context of current environmental issues in the world around us. Class will consist of hands-on, projects based activities, lab investigations inside and outside the 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 Grade 11-12 Est. Fee $5
Environmental Science II is an extension of Environmental Science I; it will address current issues of energy use, fossil fuels, alternative energy, global warming, and what impact they have on the topics covered in Environmental I. Also addressed will be pollution, recycling and waste management. Addi-tional topics covered will be plate tectonics, basic meteorology, GPS technology, and natural resources management. Research projects, presentations, outdoor and indoor lab activities, and classroom activities will facilitate the learning of material in this program. Students have the opportunity to participate in statewide Envirothon Program.

3419 AP ENVIRONMENTAL SCIENCE
Year Credit 1 Grade 11-12 Est. Fee $10
Prerequisite: Biology, Chemistry is recommend, (strong math skills are needed)
AP Environmental 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 of environmental science. This course will go beyond the introductory level of environmental science. The range of topics to be covered include: climate, weather, biomes, ecosystem dynamics, biodiversity, global warming, renewable and nonrenewable energies, solid waste, air pollution, water pollution, environmental ethics, populations dynamics, toxic hazardous and current event topics. Students will have the opportunity to explore through various methods such as; lab investigations, outdoor activities, group and individual projects, guest speakers and community events/presentations. As part of the curriculum students will choose from a wide variety of environmental community events to participate in, throughout the school year. A summer assignment outside of class is required. It is expected that all students will take the AP Exam. Summer assignments may also be found at the Northview website www.sylvianorthview.org. Students electing to take AP Environmental Science should see the instructor before the end of second semester exams for the assignment.
3432 ZOOLOGY I
Semester Credit 1 2/3
Grade 11-12
Est. Fee: $8

Prerequisite: Biology

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 I includes topics such as evolution and animal diversity, animal ecology, and the study of the following Phyla: Protozoa, Porifera, Cnidaria, Annelida, Mollusca, Arthropoda, and Echinodermata, in other words, anything from single-celled animals to sponges, to spiders, to starfish. The class will consist of lab investigations, research projects and presentations, field work, lectures, and a variety of dissections. Summer assignments may also be found at the Northview website www.sylvanianorthview.org.

3433 ZOOLOGY II
Semester Credit 1 2/3
Grade 11-12
Est. Fee: $8

Prerequisite: Biology

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 study, in depth, the following Classes: Fishes, Amphibians, Reptiles, Birds, and Mammals. Current issues in biodiversity and threats to animal species will also be researched and discussed. The class will consist of lab investigations, research projects and presentations, field work, lectures, and a variety of dissections.

3434 ASTRONOMY I
Semester Credit 1 2/3
Grade 11-12

Prerequisites: Algebra I and Biology or H Biology

Astronomy I is a general survey course first introducing the students to the night sky, its many constellations, brighter stars and motions. The historical development of astronomical thought and our place in the Universe is 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 manned and unmanned exploration of the planets will also be discussed.

3437 ASTRONOMY II (NV)
Semester Credit 1 2/3
Grade 10-12

Prerequisites: Science 9 (C and P)
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 and 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 the course will explore the origin, formation and evolution of stars. Lab work in this course will make extensive use of computer software and the Internet.

3422 CHEMISTRY
Year Credit 1
Grade 10-12
Est. Fee $10

Prerequisites: Physics, Science or H. Phys. Science, Biology and Algebra I.

7 Periods or equivalent.

Chemistry is a lecture-laboratory course that focuses on methods and techniques of measurements and problem solving as pertaining to atoms and chemical reactions. To better understand the invisible world of atoms 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 of the periodic table serve 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 analysis. Due to the challenging nature of the subject material, students taking this course are required to attend a mandatory lab make-up/review session on alternating Fridays during common periods.

3431 HONORS CHEMISTRY
Year Credit 1
Grade 10-12
Est. Fee $10

7 periods or equivalent

Prerequisites: Algebra I & Physical Science or Honors Physical Science with B or better grades; teacher recommendation.

Honors Chemistry covers the same general topics as Chemistry, but in greater depth and at an accelerated pace. We will also cover topics including equilibrium, reaction kinetics, and acids and bases that are not covered in regular Chemistry. The course would be most appropriate for the student with definite future goals in chemistry, engineering, pre-med, etc. With permission, sophomores could take Biology and Chemistry concurrently on Honors Biology and Honors Chemistry. Due to the challenging nature of the subject material, students are required to attend a mandatory lab make-up/review/help session on alternating Fridays during common periods. A summer assignment of selected text chapters is required. Those students selecting Honors Chemistry must see the instructor before the end of second semester. Summer assignments may also be found at the Northview website www.sylvanianorthview.org.

3423 AP CHEMISTRY
Year Credit 1
Grade 11-12
Est. Fee $10

7 periods or equivalent

Prerequisites: Algebra II, Chemistry with a GPA of “B” or better, and teacher recommendation

A course for the advanced college-bound science student, AP Chemistry emphasizes the quantitative, experimental aspects of Chemistry. Some of the early work in the course will serve as a review of Chemistry, including topics such as periodicity of matter and chemical reactions, bonding, 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 these principles. Additional topics studied in-depth are thermochemistry, acid-based theory, chemical equilibrium, rates of reaction, 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 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 Fridays during common periods. 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 the instructor before the end of second semester. Summer assignments may also be found at the Northview website www.sylvanianorthview.org.

3425 PHYSICS
Year Credit 1
Grade 11-12
Est. Fee $10

7 periods or equivalent

Prerequisites: Algebra II or permission of instructor

It is 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 understanding of general principles and models and on the nature of scientific inquiry. The level of mathematical sophistication will extend to simple trigonometry but rarely beyond. The historical development of science is considered along with the role of science in contemporary society. Students who are going to major in physical science or engineering should consider taking AP Physics. Due to the challenging nature of the subject material, students taking this course are required to attend a mandatory lab make-up/review/help session on alternating Fridays during their commons.

3429 HONORS PHYSICS (SV)
Year Credit 1
Grade 10-12
Est. Fee: $10

7 periods per week

Prerequisites: Science 9 (C and P), Algebra II, 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 field of study in college. Students who enroll in those programs of study are generally required to take a Physics course. Honors Physics would be the course to take in high school to prepare you for college physics. Coursework in Honors Physics will include the mechanics of motion, waves, sound, optics, and electricity. Extensive lab work, data analysis and problem solving are the main foci of the course.
entry fee for these two competitions. Students are expected to attend afterschool or off-campus. Students are required to attend the course, which may be scheduled on alternating Fridays during their commons. Summer work is required, please see the instructor. Summer work is required, please see the instructor.

3430 ANATOMY
Year Credit 1 Grade 11-12 Est. Fee $10
Prerequisite: Biology, Honors Biology, Teacher recommendation, Chemistry or Honors Chemistry or taken concurrently highly recommended. One of the above required.

Students selecting Anatomy should have a minimum GPA of “B” in Biology. Anatomy and Physiology is a rigorous, advanced life-science course designed to educate the student about the human body. This course follows a lecture-laboratory format, and is based on the understanding of human functions 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 homeostasis and disease. The course begins with a review of the principles of biochemistry and cell biology (both previously developed and learned in Biology and/or Chemistry). It continues with a thorough examination of human primary tissues and concludes with a study of each of the body’s systems. Anatomy and Physiology is supplemented with numerous lab activities throughout the year including an extensive vertebrate (cat) dissection. A number of other lab skills and techniques will be developed including: microscopy, tissue staining, blood typing principles, measuring, and data analysis. This course is recommended for those students interested in any medically related career or who are otherwise highly motivated to learn about the human body.

34433 HONORS STEM RESEARCH 2
Year Credit 1 Grade 11-12 Est. Fee: $50
Prerequisite: Honors STEM Research 1 and instructor approval.

This is a seminar style class incorporating mastery learning that builds on skills developed in Honors STEM Research 1. There may be opportunities for community outreach and school projects which enrolled students will be expected to attend afterschool or off-campus. Students are required to attend two competitions outside of the school day in March. Course fee includes entry fee for these two competitions.
### JUNIOR: Electives

#### ARTS & COMMUNICATION

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<tr>
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<td>Art Foundations</td>
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<tr>
<td>3742</td>
<td>AP Art History</td>
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</tr>
<tr>
<td>3743</td>
<td>2D Design</td>
<td>Year</td>
<td>1</td>
</tr>
<tr>
<td>3741</td>
<td>3D Design</td>
<td>Year</td>
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</tr>
<tr>
<td>3745</td>
<td>Intermediate 2D Design</td>
<td>Year</td>
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</tr>
<tr>
<td>3744</td>
<td>Intermediate 3D Design</td>
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<tr>
<td>3739</td>
<td>Art Appreciation</td>
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<td>8346</td>
<td>Computer Graphics</td>
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<tr>
<td>8607</td>
<td>Visual Communications Design</td>
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<td>3113</td>
<td>Drama</td>
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<td>3114</td>
<td>Theater Workshop</td>
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<td>Public Speaking</td>
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<td>3120</td>
<td>Intro to Journalism</td>
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<td>3128</td>
<td>Journalism</td>
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<td>3129</td>
<td>Yearbook</td>
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<td>3137</td>
<td>Creative Writing</td>
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<td>4760</td>
<td>Art of Photojournalism</td>
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#### Music

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<td>Symphonic Band</td>
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<tr>
<td>3756</td>
<td>Concert Band</td>
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<tr>
<td>3750</td>
<td>Band Auxiliary</td>
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<tr>
<td>3751</td>
<td>Concert Orchestra</td>
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<td>3752</td>
<td>Wind Ensemble</td>
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<tr>
<td>3762</td>
<td>Chamber Orchestra</td>
<td>Year</td>
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<tr>
<td>3764</td>
<td>A Cappella/Honors</td>
<td>Year</td>
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<tr>
<td>3769</td>
<td>Harmony Road Show</td>
<td>Year</td>
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<tr>
<td>3768</td>
<td>Popular Music</td>
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<td>3767</td>
<td>AP Music Theory</td>
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<td>3775</td>
<td>Northview Men's Chorus</td>
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<tr>
<td>3776</td>
<td>Northview Women's Chorus</td>
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#### ENVIRONMENTAL & AGRICULTURE

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#### BUSINESS & MANAGEMENT

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<td>8319</td>
<td>Money Management</td>
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<td>8314</td>
<td>Business Technology</td>
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<tr>
<td>8610</td>
<td>Financial Management</td>
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#### ENGINEERING & INDUSTRIAL

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<tr>
<td>8385</td>
<td>Engineering I</td>
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<td>8491</td>
<td>Automotive Collision</td>
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<td>8489</td>
<td>Construction I</td>
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<td>8398</td>
<td>Computer Aided Design</td>
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<td>8392</td>
<td>Engineering Design</td>
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<td>83921</td>
<td>3D Modelling &amp; Prototyping</td>
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<td>8394</td>
<td>Engineering Applications</td>
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#### HEALTH, EDUCATION & HUMAN SERVICES

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<td>8351</td>
<td>Cosmetology</td>
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<td>8331</td>
<td>Medical Technology</td>
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<td>8372</td>
<td>Child Development</td>
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<td>8376</td>
<td>Personal Wellness and Development</td>
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<td>8377</td>
<td>Principles of Nutrition and Wellness</td>
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<td>8378</td>
<td>Career and College Readiness</td>
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<tr>
<td>8379</td>
<td>Food Science &amp; Culinary Art</td>
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#### INFORMATION TECHNOLOGIES

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<td>Software Applications</td>
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<td>8309</td>
<td>Today's Technology</td>
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<td>8505</td>
<td>Interactive Media I</td>
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<td>8541</td>
<td>Honors Computer Programming</td>
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#### SCIENCE

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<tr>
<td>3444</td>
<td>Honors STEM Research II</td>
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#### SOCIAL STUDIES

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<td>AP Psychology</td>
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<td>Contemporary Law</td>
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<td>3205</td>
<td>Sociology</td>
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<tr>
<td>3328</td>
<td>Geography</td>
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#### WORLD LANGUAGES

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<td>3700</td>
<td>French I</td>
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<tr>
<td>3701</td>
<td>French II</td>
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<tr>
<td>3702</td>
<td>Honors French III</td>
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<td>3705</td>
<td>Honors French IV</td>
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<tr>
<td>3730</td>
<td>Spanish I</td>
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<tr>
<td>3731</td>
<td>Spanish II</td>
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<tr>
<td>3732</td>
<td>Honors Spanish III</td>
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<td>Honors Spanish IV</td>
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<td>3726</td>
<td>Chinese I</td>
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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 your course selections.

To help you plan your schedule, include the required courses listed below plus a minimum of one (1.5) elective.

**Required Courses:** British Literature with a semester of Critical Writing, Technical Writing, or Creative Writing  Math  Government

The following course descriptions are designed to assist in scheduling your Senior year. We have a nine-period day. It is recommended that Seniors take five courses with a lunch and study hall each semester. Open periods will be filled with an additional study hall.

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 a flexible schedule option, the district is not responsible for transportation outside regular scheduled routes.

Note: The school reserves the right to limit or cancel course offerings.

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### ENGLISH CURRICULUM

**3131 SENIOR COMPOSITION & LITERATURE**

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<thead>
<tr>
<th>Year</th>
<th>Credit</th>
<th>Est Fee: $40 (Required Novels)</th>
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<td></td>
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<td>Prerequisite: English 9, 10 &amp; 11</td>
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*Concurrent College Credit may be available to those that qualify. See page 15 for details.

Senior Composition & Literature is a survey course that emphasizes critical analysis of a variety of literature (with a concentration on British literature) including short stories, poems, plays, novels, and prose essays. Writing experiences for this course will extend to expository and persuasive essays, as well as research projects. Students will also be guided through the completion of a college entrance application essay. 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](http://www.sylvanianorthview.org), is required for this course.

**3126 AP ENGLISH LANGUAGE & COMPOSITION**

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<tr>
<th>Year</th>
<th>Credit</th>
<th>Est Fee: $50 (Required Novels)</th>
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<td></td>
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<td>Prerequisite: English 9, 10 &amp; 11 and 11th grade teacher's recommendation.</td>
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</table>

Students 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 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 Northview website at [www.sylvanianorthview.org](http://www.sylvanianorthview.org), is required for this course.

**3135 AP ENGLISH LITERATURE & COMPOSITION**

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<tr>
<th>Year</th>
<th>Credit</th>
<th>Est Fee: $30 (Required Novels)</th>
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<td>Prerequisite: English 9, 10 &amp; 11 and 11th grade teacher's recommendation.</td>
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</table>

Students in Advanced Placement English Language & Composition pursue studies equivalent to a college level study in literature and composition. Classic literature from a variety of genres, time periods, disciplines, types and rhetorical contexts will be studied with an emphasis on critical and analytical techniques used to evaluate literature. A heavy emphasis on written composition allows 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 must be purchased or supplied by the student. A summer reading, located on the Northview website at [www.sylvanianorthview.org](http://www.sylvanianorthview.org), is required for this course.

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### MATH CURRICULUM

**3151 SENIOR HUMANITIES**

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<th>Year</th>
<th>Credit</th>
<th>Est Fee: $35 (Required Novels)</th>
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<td>Prerequisite: English 9, 10 &amp; 11</td>
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Senior Humanities is a college preparatory class that explores the connections between literature, philosophy, history, visual and musical arts. Critical and analytical skills will be employed to evaluate the effects of Eastern 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. Students will also be guided through the completion of a college entrance application essay. 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](http://www.sylvanianorthview.org) is required for this course.

**3312 ALGEBRA II**

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<th>Year</th>
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<td>Prerequisite: Geometry or Intermediate Algebra</td>
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Algebra II studies the problems of Algebra I in greater depth and is a more sophisticated treatment of those problems. In addition, the concept of function is developed through the use of linear, quadratic, exponential, logarithmic, and radical functions. Students will explore the complex number system, matrices, and conic sections. his course requires a summer assignment which can be found at [http://moodle.sylvaniaschools.org/course/category.php?id=2](http://moodle.sylvaniaschools.org/course/category.php?id=2). A TI-83 Plus or TI-84 Plus graphing calculator is required.

**3314 COLLEGE PREP MATH**

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<th>Year</th>
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<td>12</td>
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<td>Grade 12</td>
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**Prerequisite: Algebra II, and teacher recommendation**

This course is designed primarily for those seniors who feel they are not ready to take precalculus. Topics include a review of algebra, logarithms, and matrices and an introduction to calculus, statistics, and trigonometry. All seniors who expect to go to college and who do not take precalculus should take this course. Although this course is not an alternative to pre-calculus, it is not an algebra review course. A TI-83 Plus or TI-84 Plus graphing calculator is required.

**3315 STATISTICS**

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<th>Year</th>
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<td>Grade 11-12</td>
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**Prerequisite: Algebra II**

Statistics is a course that offers a change from a traditional math course. Although proficiency in algebra skills is needed, students will also learn to analyze and represent their answers graphically. Students will use real-world data (collected or given) to explore these specific topics: sampling techniques, probability, measures of central tendency, visual data descriptions using technology, 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 math course or concurrently with any course after Algebra II. Concurrent credit may be available to those students who qualify through Lourdes College. See page 15 for details. A TI-83 Plus or TI-84 Plus graphing calculator is required.
3325 AP STATISTICS
Year Credit 1 Grade 11-12

Prerequisite: Algebra II

This college level course is for the student who desires all the knowledge of statistics above and beyond the general statistics class. The course provides instruction on four broad conceptual themes – Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. Students will draw connections between all aspects of the statistical process, including design, analysis, and conclusions. Students will learn how to communicate methods, results, and interpretations using the vocabulary of statistics and how to use graphing calculators and computers to enhance the development of statistical understanding. AP Statistics is for high achieving math students and may be taken as a student’s lone math course or concurrently with any course after Algebra II. A TI-83 Plus or TI-84 Plus graphing calculator is required.

3321 PRE-CALCULUS
Year Credit 1 Grade 11-12

Prerequisite: Algebra II

Pre-calculus introduces the student to the trigonometric functions, 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 on the study of analytical geometry. Application problems using these functions are studied. A TI-83 Plus or TI-84 Plus graphing calculator is required.

3320 HONORS PRE-CALCULUS
Year Credit 1 Grade 11-12

Prerequisite: Algebra II and teacher recommendation

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 prepared to move at a rapid pace and should be able to advance beyond memorization to application of knowledge. A TI-83 Plus or TI-84 Plus graphing calculator is required.

3324 HONORS CALCULUS
Year Credit 1 Grade 12

Prerequisite: Pre-calculus and teacher recommendation

This course is for the student willing to work hard to gain knowledge of calculus prior to entering college but without the pressure and time constraints placed on the AP course. Topics include a brief review of pre-calculus, limits, differentiation, and integration of polynomial, rational, radical, and trigonometric functions. Applications of these concepts will also be explored. Students should be confident in their knowledge of algebra and trigonometry. A graphing 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.

3317 AP CALCULUS AB
Year Credit 1 Grade 12

Prerequisite: Honors or Regular Pre-Calculus and teacher recommendation

This course prepares students to take the AP Test in May. This test covers college material equivalent to Calculus I and the majority of Calculus II, at a rapid pace. Calculus topics include limits, functions, differentiation, integration, and the application of these concepts. It is recommended that a person have at least a 3.0 average in all previous math courses before attempting AP Calculus. The student must have an AP approved graphing calculator. Summer work is required for this course, please see instructor.

3323 AP CALCULUS BC
Year Credit 1 Grade 12

Prerequisite: AP Calculus AB or Honors Pre-calculus with teacher recommendation

AP Calculus BC is a continuation of AP Calculus AB. Typically, the BC curriculum continues with the rest of Calculus II and a bit of Calculus III. Specific topics exclusively in AP Calculus BC include derivatives and integration of parametric, polar and vector functions; simple partial fractions; improper integrals; solving logistic differential equations; polynomial approximations and series; and additional applications of derivatives and integrals. Students enrolled in this course must meet with the AP Calculus AB instructor periodically at arranged times.

SOCIAL STUDIES CURRICULUM

3215 AMERICAN GOVERNMENT
Year Credit 1 Grade 12

American Government is meant to give students a broad overview of the politics of local, state, and national government in the United States. Another 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 possibilities into the political system. Areas of study include executive and legislative relationships at all levels, state and national judiciaries, political parties, elections and propaganda.

3216 AP UNITED STATES GOVERNMENT AND POLITICS
Year Credit 1 Grade 12

Prerequisites: AP American History and an overall student GPA of 3.0

The Advanced Placement course in American Government is designed to give students a critical perspective on politics and government. This course involves both the study of general concepts used to interpret United States government and comparative government review to promote greater depth of comprehension. Active political participation will be encouraged to instill familiarity with the various institutions, groups, beliefs and ideas that make up the American political reality. At the conclusion of the course, students will have the opportunity to take the Advanced Placement Examination with the goal of qualifying for college credit.
## Arts & Communication

- **3740** Art Foundations: Year, 1 credit
- **3742** AP Art History: Year, 1 credit
- **3743** 2D Design: Year, 1 credit
- **3741** 3D Design: Year, 1 credit
- **3745** Intermediate 2D Design: Year, 1 credit
- **3744** Intermediate 3D Design: Year, 1 credit
- **3747** Honors Senior Studio 2D Design: Grade 12
- **3746** Honors Senior Studio 3D Design: Grade 12
- **3739** Art Appreciation: Semester, .5 credit
- **3746** Computer Graphics: Semester, .5 credit
- **8608** Visual Communications Design II: Year, 2 credits
- **3113** Drama: Semester, .5 credit
- **3114** Theater Workshop: Semester, .5 credit
- **3117** Public Speaking: Semester, .5 credit
- **3120** Intro to Journalism: Semester, .5 credit
- **3128** Journalism: Year, 1 credit
- **3129** Yearbook: Year, 1 credit
- **3137** Creative Writing: Semester, .5 credit
- **4760** Art of Photojournalism: Semester, .5 credit

### Music

- **3758** Symphonic Band: Year, 1 credit
- **3756** Concert Band: Year, 1 credit
- **3750** Band Auxiliary: Quarter, .25 credit
- **3751** Concert Orchestra: Year, 1 credit
- **3752** Wind Ensemble: Year, 1 credit
- **3762** Chamber Orchestra: Year, 1 credit
- **3764** A Cappella/Honors: Year, 1 credit
- **3769** Harmony Road Show: Year, 1 credit
- **3768** Popular Music: Semester, .5 credit
- **3767** AP Music Theory: Semester, .5 credit
- **3775** Northview Men’s Chorus, Year, 1 credit
- **3776** Northview Women’s Chorus, Year, 1 credit

## Business & Management

- **8408** Financial Accounting: Year, 1 credit
- **8315** Business Technology II: Year, 2 credits
- **8317** Financial Management II: Year, 2 credits
- **8319** Money Management: Semester, .5 credit

## Engineering & Industrial

- **8388** Engineering II: Year, 2 credits
- **8492** Automotive Collision II: Year, 3 credits
- **8490** Construction II: Year, 3 credits
- **8392** Engineering Design: Semester, .5 credit
- **83921** 3D Modelling & Prototyping: Year, 1 credit
- **8394** Engineering Applications: Semester, .5 credit
- **8396** Introduction to Alternative Energy: Semester, .5 credit
- **8398** Computer Aided Design: Semester, .5 credit

## 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
- **8372** Child Development: Semester, .5 credit
- **8376** Personal Wellness and Development: Semester, .5 credits
- **8377** Principles of Nutrition and Wellness: Semester, .5 credit
- **8378** Career and College Readiness: Semester, .5 credit
- **8379** Food Science & Culinary Art: Year, 1 credit (SV)

## Information Technologies

- **8506** Interactive Media II: Year, 2 credit
- **8311** Software Applications: Semester, .5 credit
- **8309** Today’s Technology: Semester, .5 credit

## Science

- **3421** AP Biology: Year, 1 credit
- **3435** Environmental Science I: Semester, .5 credit
- **3436** Environmental Science II: Semester, .5 credit
- **3430** Anatomy: Year, 1 credit
- **3432** Zoology I: Semester, .5 credit
- **3433** Zoology II: Semester, .5 credit
- **3434** Astronomy I: Semester, .5 credit
- **3437** Astronomy II: Semester, .5 credit
- **3422** Chemistry: Year, 1 credit
- **3431** Honors Chemistry: Year, 1 credit
- **3423** AP Chemistry: Year, 1 credit
- **3425** Physics: Year, 1 credit
- **3429** Honors Physics (SV): Year, 1 credit
- **3426** AP Physics 1: Year, 1 credit
- **3419** AP Environmental Science: Year, 1 credit
- **3443** Honors STEM Research: Year, 1 credit
- **3444** Honors STEM Research II: Year, 1 credit

## Social Studies

- **3210** Psychology: Semester, .5 credit
- **3212** AP Psychology: Year, 1 credit
- **3217** Contemporary Law: Semester, .5 credit
- **3205** Sociology: Semester, .5 credit
- **3328** Geography: Semester, .5 credit

## World Languages

- **3700** French I: Year, 1 credit
- **3701** French II: Year, 1 credit
- **3702** Honors French III: Year, 1 credit
- **3705** Honors French IV: 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 credit
- **3735** Honors Spanish IV: Year, 1 credit
- **3736** AP Spanish V: Year, 1 credit
- **3726** Chinese I: Year, 1 credit
ART

3740  ART FOUNDATIONS
Year Credit Grades Est. Fee
9-12 1 9-12 $27
This course is an introduction to the various materials and techniques used in art. The elements and principles of art will be introduced; the foundation for all art. Projects will include drawing, painting, clay, sculpture, printmaking, design and many more. This class is a must for most future art classes.

3742  AP ART HISTORY
Year Credit Grade
9-12 1 9-12
The AP Art History course explores such topics as the nature of art, its uses, its meanings, art making, and responses to art. Through investigation of diverse artistic traditions of cultures from prehistory to the present, the course fosters in-depth and holistic understanding of the history of art from a global perspective. Students learn and apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, constructing understanding of individual works and interconnections of art-making processes and products throughout history.

3739  ART APPRECIATION (NV)
Semester Credit Grades Est. Fee
1/2 10-12 $16
This course is for students who want to gain some fundamental understanding of the visual arts. Students will engage in the processes of creating art as well as analyzing and responding to art and what it can communicate. Students will use a variety of media (both 2 and 3-dimensional) for studio projects. Students who have already taken Art Foundations but do not want to pursue 2D or 3D Design can take this course.

3743  2D DESIGN
Year Credit Grade Est. Fee
10-12 1 10-12 $33
Prerequisite: Art Foundations
The goal of this course is to continue to develop skills for personal expression by exploring a new variety of 2-dimensional media. Students will be challenged to stretch their imagination to create drawings, paintings, and prints that go beyond a literal or realistic representation of subject matter. Problem-solving pertaining to 2-dimensional design issues will be stressed. Regular outside assignments will reinforce concepts presented in class and/or serve as preliminary work for major studio pieces.

3744  INTERMEDIATE 3D DESIGN
Year Credit Grade Est. Fee
11-12 1 11-12 $35
Prerequisite: 3D Design
Students enrolled in this course need to be self-motivated, self-directed learners and able to plan, manage, and focus their time efficiently and productively. This course is designed for students who have an above average 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 drawing, painting, printmaking, and design will be introduced. Students will begin to look at opportunities available in art-related careers and the training required for those careers. Appropriate methods for matting/displaying work and stretching canvas will be presented. Regular outside drawing and writing assignments will enrich the classroom experience as well as contribute to the student's portfolio of work.

3745  INTERMEDIATE 2D DESIGN
Year Credit Grade Est. Fee
11-12 1 11-12 $33
Prerequisite: 2D Design
Students enrolled in this course need to be self-motivated, self-directed learners and able to plan, manage, and focus their time efficiently and productively. This course is designed for students who have an above average 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 sculpture, handbuilt and wheel-thrown ceramics, and metals will be introduced. Students will explore clay construction, decorative processes, throwing wheels, alternative firing processes, and much more. Regular outside drawing and writing assignments will enrich the classroom experience as well as contribute to the student's portfolio of work.

3741  3D DESIGN
Year Credit Grade Est. Fee
10-12 1 10-12 $35
Prerequisite: Art Foundations
The focus of this course is to continue to develop skills for personal expression by exploring sculpture, handbuilt and wheel-thrown ceramics, and metals. This class will also cover the firing process using the kiln. Students will be challenged to stretch their imagination to create 3-dimensional works that go beyond a literal or realistic representation of subject matter. Problem-solving pertaining to 3-dimensional design issues will be stressed. Regular outside assignments will reinforce concepts presented in class and/or serve as preliminary work for major studio pieces.

3747  HONORS SENIOR STUDIO 2D DESIGN
Year Credit Grade Est. Fee
12 1 12 $33
Prerequisite: Intermediate 2D Design
Students enrolled in this course need to be self-motivated, self-directed learners and able to plan, manage, and focus their time efficiently and productively. The development of skills in advanced drawing, painting, and printmaking as well as personal expression will be continued. Much emphasis is on the creation of a high quality, intellectual body of work. Students have the option of producing a portfolio that meets the standards of the Advanced Placement Program. Those standards are generally equal to college-level work and require much time in addition to scheduled classes.
3746 HONORS SENIOR STUDIO 3D DESIGN  
Year Credit 1 Grade 12 Est. Fee $35  
Prerequisite: Intermediate 3D Design  
Students enrolled in this course need to be self-motivated, self-directed learners and able to plan, mange, and focus their time efficiently and productively. The development of skills in advanced sculpture, ceramics, and metals as well as personal expression will be continued. Much emphasis is on the creation of a high quality, intellectual body of work. Students have the option of producing a portfolio that meets the standards of the Advanced Placement Program. Those standards are generally equal to college-level work and require much time in addition to scheduled classes.  
Return to course offering page: 12

ARTS & COMMUNICATIONS PATHWAY

8346 COMPUTER GRAPHICS  
Semester Credit ½; Grades 9-12 Est. Fee $10  
In CGD you can learn the basic art and design skills it takes to go into the field of Computer Graphics and Visual Communications. In this introductory class, you can create and print images that focus on each of the Elements of Art and Principles of Design, all on a computer running state of the art software. Computer Graphic Design I is a class designed for technically-minded students who wish to develop the art skills needed to be a designer of any kind. Students also study art history and aesthetics to further develop their understanding and appreciation of visual media. Computer experience is recommended but not required.  
Return to course offering page: 9, 10, 11, 12

8597 3D ANIMATION (SV)  
Year Credit 1 Grade 9-12  
Learn the animation techniques used in movies and video games using industry standard software and techniques. Students will learn how to create animation rigs for 3D characters and objects using Autodesk Maya, the most used software in the game and movie industry today. The recording and exporting of animations for film and games will be emphasized. Students will also gain exposure to the Unreal Engine, one of the professional game engines used in the industry today.  
Return to course offering page: 9, 10

8606 3D MODELLING & ENVIRONMENTS  
Year Credit 1 Grade 9-12  
Learn how to create the characters and objects found in movies and video games with industry-standard software. Students will learn how to use a variety of 3D modeling tools and techniques to create high quality models for characters, props, and environments. The course will also include: texturing and lighting principles, 3D modeling, storyboarding, hard surface and organic modeling, and more. Course software: Autodesk Maya, Mudbox and the Unreal Engine.  
Return to course offering page: 9, 10

VISUAL COMMUNICATION DESIGN I (SV)  
COLLEGE TECH PREP  
Year Credit 2 Grade 11 Est. Fee $40  
2 periods per day  
The job market for Visual Communication Design is one of the largest growing job markets in the United States and Europe. Key competencies that are learned are the basic design principles, type and image as information and communication, visual hierarchy, computer technology and process, presentation skills, and professionalism. Software packages learned include Adobe Photoshop, Illustrator, Premiere, Autodesk Maya and Mudbox. These software packages are commonly utilized by professionals in the 2D and 3D design industry today.  
Students will have the opportunity to design a wide variety of 2D projects such as: logos, posters, packaging, magazine layouts, etc., and 3D projects such as: architecture, vehicles, humanoids, landscapes and more. Video creation with Adobe Premiere will constitute the last major project of the course. Career opportunities for Visual Communication Design are wide ranging, including: Graphic Designers, Multimedia Specialists, Game Designers, CGI Artists, 3D Animators and more.

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

VISUAL COMMUNICATION DESIGN II (SV)  
COLLEGE TECH PREP  
Year Credit 2 Grade 12 Est. Fee $50  
Prerequisite: Visual Communication Design I  
Students will have the opportunity to design portfolio pieces using industry standard software. The course will also include a variety of print media design for the advanced VCD students in the second year of study. All students 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  
Return to course offering page: 12

BUSINESS & MANAGEMENT PATHWAY

8310 BUSINESS FOUNDATIONS  
Semester Credit ½; Grade 9-10 Est. Fee $15  
This class is the introductory course for the Business and Management pathway. Students will have the opportunity to investigate a variety of business fields while developing communication, critical-thinking, problem-solving, and life-long learning skills. Students will actively participate in multimedia instruction while exploring the following areas: introduction to business, marketing, economics and personal finance, business law, accounting, management, international business, and entrepreneurship.  
Return to course offering page: 9, 10

8313 INTRO TO MARKETING  
Semester Credit ½; Grade 9-12 Est. Fee $5  
This course introduces students to the 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 techniques, employability skills, business ethics and law, economic principles, and international business. Technology, leadership, and communications will be incorporated in classroom activities.  
Return to course offering page: 9, 10, 11, 12

8408 FINANCIAL ACCOUNTING  
Year Credit 1 Grades 11-12 Est. Fee $40  
Students will track, record, summarize, and report a business’s financial transactions. They will develop financial documents, project future income and expenses, and evaluate the accuracy of a business’s financial information. Students will also apply tools, strategies, and systems to evaluate a company’s financial performance and monitor the use of financial resources. Technology, employability skills, leadership and communications will be incorporated in classroom activities. Students enrolled in this class will be involved in the co-curricular organization, Business Professionals of America.  
Return to course offering page: 11, 12

8319 MONEY MANAGEMENT  
Semester Credit ½; Grade 11-12 Est. Fee $10  
As junior and senior students prepare to engage with and contribute to the “real-world,” they need to make wise and informed financial decisions, become conscience and effective consumers, maximize their earning potential, and ultimately gain control of their current resources to make the most of their financial future. Example topics explored through this course may include, but are not limited to: budgeting and goal setting, consumer awareness, checking and banking services, saving and investing, understanding your taxes, managing credit and debt, buying and selling a car, housing choices and alternatives, purchasing insurance, and career choices.  
Return to course offering page: 11, 12
BUSINESS TECHNOLOGY I
COLLEGE TECH PREP
Year  Credit 2  Grades 11  Est. Fee $35
Prerequisite: Application & Introduction to Software Applications
It is expected that all Tech Prep students will successfully complete Algebra II before graduating.
This Tech Prep course is for the career- or college-bound student who is interested in pursuing a career in business. Students will be utilizing the popular software program Microsoft Office 2013. Students will develop an understanding of business practices that are needed by everyone to excel in a business field. Areas of emphasis are: accounting, finance, management, marketing, entrepreneurship, business communications, business economics, international business, technology, and career development in business. Business Technology students will acquire critical-thinking, decision-making, and business ethics skills. As members of Business Professionals of America, students will have the chance to participate in regional, state, and national competition. These courses may be taken for honors credit. See the instructor for additional requirements.
Return to course offering page: 11

83143 BUSINESS TECH I: Strategic Entrepreneurship
Students will use innovation skills to generate ideas for new products and services, evaluate the feasibility of ideas, and develop a strategy for commercialization. They will use technology to select target markets, profile target markets, define the venture’s mission, and create business plans. Students will take initial steps to establish a business. Students will calculate and forecast costs, break-even analysis, and sales. Establishing brand, setting prices, promoting products, and managing customer relationships will be emphasized.
Return to course offering page: 11

83144 BUSINESS TECH I: Operations Management
Students will learn to plan, organize, and monitor day-to-day business activities. They will use technology to plan production activities, forecast inventory needs, and negotiate vendor contracts. Students will also calculate break-even, set cost-volume-profit goals, and develop policies and procedures to promote workplace safety and security. They will design sustainability plans and use lean and six sigma principles to plan for quality improvement. Corporate social responsibility, ethics, risk management and compliance will be emphasized. As a co-curricular component, students enrolled in this course assist in the daily operations of Northview's school store, The Cat Cave.
Return to course offering page: 11

BUSINESS TECHNOLOGY II
COLLEGE TECH PREP
Year  Credit 2  Grade 12  Est. Fee $35
Prerequisite: Business Technology I
This senior level program is for students who wish to continue gaining valuable business skills. Instructional emphasis will include professional development and networking, business law, human resource management, general administrative functions, accounting, business communications and technology. During second semester, students will be released during this class to take part in a part-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 Tech Prep students will be required to complete a senior project. Students may receive college credits through dual enrollment. These courses may be taken for honors credit. See the instructor for additional requirements.
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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 with employees and customers. Students will use technology to analyze the internal and external business environment, determine trends impacting business, and examine risks threatening organizational success. Ethical challenges, project management and strategic planning will also be addressed.
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83154 BUSINESS TECH II: Human Resources Management
Students will develop human resources strategies to prepare job search portfolios as well as the skills necessary to obtain, retain, and effectively use talent throughout the organization. Students will utilize technology to create job applications, job descriptions, and job profiles to support the talent acquisition process. They will learn to recruit applicants, administer employment assessments, conduct background investigations, and make and communicate hiring decisions. Students will also develop employee handbooks and establish performance improvement processes. Rewards and recognition practices, relationship management and compliance will be addressed. Students will also participate in internship opportunities second semester of this course.
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FINANCIAL MANAGEMENT I (SV)
COLLEGE TECH PREP
Year  Credit 2  Grade 11  Est. Fee $30
The Financial Management courses are for the career- or college-bound student who is interested in pursuing a career in business management. Career and academic skills are integrated and will grant you the opportunity to gain practical knowledge associated with real-world business situations. An emphasis is placed on critical thinking skills as they relate to financial management, money, investments, banking and credit, financial planning, professional development and networking. Special activities 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 real-life application to the classroom. You will become a member of Business Professionals of America and may compete at regional, state, and national competitions. During second semester of senior year, you will intern at a local business to provide experiences to further prepare you for your business future.

86103 FINANCIAL MANAGEMENT I: Fundamentals of Financial Services
Students will develop knowledge and skills needed in the banking, insurance and investment industries. They will analyze banking products and services, 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 ratios to evaluate company performance and select profitable investments for clients. Technology, employability skills, leadership and communications will be incorporate in classroom activities.

86104 FINANCIAL MANAGEMENT I: Financial Accounting
Students will track, record, summarize, and report a business’s financial transactions. They will develop financial documents, project future income and expenses, and evaluate the accuracy of a business’s financial information. Students will also apply tools, strategies, and systems to evaluate a company’s financial performance and monitor the use of financial resources. Technology, employability skills, leadership and communications will be incorporated in classroom activities.

FINANCIAL MANAGEMENT II (SV)
COLLEGE TECH PREP
Year  Credit 2  Grade 12  Est. Fee $30
Prerequisite: Financial Management I
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 semester, you will internship at a local business to provide experiences to further prepare you for your business future. You may become a member of Business Professionals of America and compete at regional, state, and national competitions. All Tech Prep students will be required to complete a senior project. Upon successful completion of this two-year program, you can earn transferable college credits.
86113 FINANCIAL MANAGEMENT II: Corporate Finance
Students will manage policy and strategy for corporate budgeting, investment, and financial planning. They will calculate profitability, predict business success and the likelihood of failure, and compare business performance within and across industries. Students will also develop and track the achievement of financial goals. They will determine how to balance risk with return and select strategies for recovering from risky situations and disasters. Technology, employability skills, leadership and communications will be incorporated in classroom activities.

86114 FINANCIAL MANAGEMENT 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 with employees and customers. Students will use technology to analyze the internal and external business environment, determine trends impacting business, and examine risks threatening organizational success. Ethical challenges, project management and strategic planning will also be addressed. Students may also earn college credit through “College Credit Plus”.

COMMUNICATIONS

3113 DRAMA
Semester Credit ½ Grades 9-12
Drama is a semester course surveying the basic elements of acting. Students will explore pantomime, voice, improvisation, stage direction, movement and character creation. Students will perform a variety of short scenes throughout the semester. With instructor approval, this course may be taken for honors credit.

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3114 THEATER WORKSHOP
Semester Credit ½ Grades 9-12 Est. Fee: $25 (for supplies)
Theatre Workshop is a semester course introducing the basic elements of stagecraft and technical theatre. Students will explore the “behind the scenes” aspects of design and production including properties, scenery construction, make-up, costumes, lighting, sound, publicity and theatre business culminating in the creation of a personal technical theatre portfolio. With instructor approval, this course may be taken for honors credit.

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3117 PUBLIC SPEAKING
Semester Credit ½ Grade 9-12
Public Speaking is a semester course that introduces students to speech communication and provides a safe platform to experiment with and grow their abilities in a variety of speaking formats. Speaking opportunities will include informative, demonstration, impromptu, and persuasive speeches as well as debate utilizing parliamentary procedure. With instructor approval, this course may be taken for honors credit.

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3137 CREATIVE WRITING
Semester Credit ½ Grades 11-12 Est. Fee: $25
The main objective of this course is to provide a foundation for students in creative writing. It will challenge students in a new way and provide an outlet for their own unique, creative approach to writing. The course will primarily focus on all forms of poetry and short story writing, while allowing students to bring their individual perspectives into the classroom. This course will also feature more creative pieces of literature to assist in the exploration of style, form and genre. Some supplemental materials may be required and must be purchased or supplied by the student

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4760 ART OF PHOTOJOURNALISM
Semester Credit ½ Grades 9-12 Est. Fee: $10
Preference given to 9th and 10th graders.
Students will learn the basics of digital photography including composition, camera basics and Photoshop skills. Each class is limited to 21 students. Students enrolled in the class can use their own digital camera or one of the school supplied cameras. Additional equipment, while helpful, is not necessary. This course fulfills half of the required Fine Arts credit.

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3120 INTRO TO JOURNALISM
Semester Credit ½ Grades 9-12
Preferred pre-requisite class for newspaper staff
The students will learn the basics of working on the newspaper and yearbook staff. This course will require the students to practice various types of writing including: news, sports, editorials, columns, reviews, and features. Students are taught interviewing, news gathering skills, and copyreading techniques. Students will also learn about design using computers in media production as well as infographics, headlines, caption writing and design.

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3128 JOURNALISM
Year 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, writing, photography and design of the newspaper. The work involved in this class demands that extra time be spent beyond the regularly assigned publications period. Staffers often spend evenings completing deadlines. Staff selections are made through application and appointment in December and January.

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3129 YEARBOOK
Year Credit 1 Grades 10-12
PERMISSION OF THE INSTRUCTOR IS REQUIRED.
* 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 yearbook. Staff members are given specific year long assignments such as writing, editing, photography, art, business and page design or layout. Every staff 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 evenings completing deadlines. 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.

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ENGINEERING & INDUSTRIAL PATHWAY

8394 ENGINEERING APPLICATION
Semester Credit ½ Grades 9-12 Est. Fee: $20
Engineering Applications is designed for students who are interested in pursuing a career in engineering and/or design. Students involved should have an interest in math and sciences. Students will interact with each other and will be challenged to break through normal thinking 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 ½ credits or 1 full credit in this pathway will fulfill the Fine Arts requirement for graduation.

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### 8392 ENGINEERING DESIGN
Semester  | Credit  | Grades  | Est. Fee | Year  | Credit  | Grade  | Est. Fee  
--- | --- | --- | --- | --- | --- | --- | ---
 | .5 | 9-12 | $20 | | | | 
This course is designed to be a prerequisite to Computer Aided Design and an introduction to technical 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, multi-views, section views, and auxiliary views. Students will complete a hands-on, problem solving activity by the end of the course. Students completing two ½ credits or 1 full credit in this pathway will fulfill the Fine Arts requirement for graduation.

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### 83921 3D MODELLING & PROTOTYPING
Semester  | Credit  | Grades  | Est. Fee | Year  | Credit  | Grade  | Est. Fee  
--- | --- | --- | --- | --- | --- | --- | ---
 | 1 | 9-12 | $20 | | | | 
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 Pathway. This course will introduce the 3D Solidwork software package and students will learn how to use a 3D printer to create solid models. Three dimensional scanning technology will also be incorporated into the classroom which will be utilized to digitize real objects. This course will also require students to complete problem solving projects relating to course material. Students enrolled should have a interest in math and sciences. Students completing two ½ credits or 1 full credit in this pathway will fulfill the Fine Arts requirement for graduation.

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### 8396 INTRODUCTION TO ALTERNATIVE ENERGY
Semester  | Credit  | Grades  | Est. Fee | Year  | Credit  | Grade  | Est. Fee  
--- | --- | --- | --- | --- | --- | --- | ---
 | .5 | 9-12 | $20 | | | | 
This course is designed for students who are interested in pursuing a career 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” concepts, energy trends, and potential ways to cut energy costs will be discussed. Particular areas of interest will include 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 two ½ credits or 1 full credit in this pathway will fulfill the Fine Arts requirement for graduation.

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### 8398 COMPUTER AIDED DESIGN (CAD)
Semester  | Credit  | Grades  | Est. Fee | Year  | Credit  | Grade  | Est. Fee  
--- | --- | --- | --- | --- | --- | --- | ---
 | .5 | 9-12 | $20 | | | | 
This course is an introduction to the field of two 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 development. Classroom activities will be focused around geometric 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 an interest in math and sciences. Students completing two ½ credits or 1 full credit in this pathway will fulfill the Fine Arts requirement for graduation.

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### ENGINEERING I
#### COLLEGE TECH PREP
Year  | Credit  | Grade  | Est. Fee  
--- | --- | --- | ---
 | 2 | 11 | $57  
2 periods per day
Prerequisite: Application
Corequisite: Physics
This course is part one of a two-year program. Students involved in this program will be eligible to earn transcript college credit. The instructor will issue a separate college grade upon completion of the course. This is a great opportunity for students who are interested in pursuing a college degree in engineering. In this course engineering standards will be reinforced along with employability skills. Unique problem solving projects such as those sponsored by NASA will be used as a tool to instruct classroom activities. Students may also have the opportunity to tour local colleges and companies. Students completing two ½ credits or 1 full credit in this pathway will fulfill the Fine Arts requirement for graduation.

These courses may be taken for honors credit. See the instructor for additional requirements.

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### 8475 ENGINEERING TECH PREP I: Aerospace Engineering
Year  | Credit  | Grade  | Est. Fee  
--- | --- | --- | ---
 | 2 | 11 | $57  
This course will introduce students to the evolution of flight, navigation and control, flight fundamentals, aerospace materials, propulsion, space travel, and orbital mechanics. Students will learn and apply principles of aerospace design and construction to aircraft, rockets and spacecraft.

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### 8481 ENGINEERING TECH PREP I: Manufacturing Operations
This course will provide students with an introduction to manufacturing processes. Students will learn the production processes applied across manufacturing operations. Students will be able to demonstrate a broad array of technical skills with an emphasis given to quality practices, measurement, maintenance and safety.

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### ENGINEERING II
#### COLLEGE TECH PREP
Year  | Credit  | Grade  | Est. Fee  
--- | --- | --- | ---
 | 2 | 12 | $57  
Prerequisite: Engineering Tech Prep I
This course is the second and final part of the Engineering program. It will enable students to fully prepare for their first year of an Associate's or Bachelor's degree in Engineering. Students will complete various unique problem solving projects such as underwater remotely operated innovations. Internships will be utilized to provide an opportunity to visit and work beside local engineers who will assist students through a Mentorship/Job shadowing experience during the last semester. After completing this program, students will have up to 9 transcript college credit hours.

These courses may be taken for honors credit. See the instructor for additional requirements.

### 8485 ENGINEERING TECH PREP II: DC & AC Electronic Circuits
Students will learn the fundamental principles of electricity with emphasis on DC (direct current) circuits and an introduction to AC (alternating current) circuits. They will use concepts of Ohm’s Law, the Power Formula, and Kirchoff’s Laws with series, parallel, and series-parallel circuit applications. The relationship between electricity and magnetism and motor theory will also be introduced. The students will use and maintain digital multimeters and oscilloscopes.

### 8482 ENGINEERING TECH PREP II: Robotics
Students will apply the knowledge and skills necessary to program and operate robots, using the teach pendant as the main interface point. The students will learn robotic operations and system configurations. Students will code, compile, and debug programs using the robotic programming language.

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AUTOMOTIVE COLLISION I (SV)  
COLLEGE TECH PREP  
Year  Credit 3  Grades 11  Est. Fee $66  
3 periods per day  
This ASE certified program will supply you with specialized learning experiences concerned with all phases of collision damage including metal straightening, plastic filler application, grinding, sanding, painting and replacement of body components including trim. The Automotive Collision Repair program meets three periods per day in a lab situation. Good mechanical interest, aptitude and attendance are recommended for success in this program. The senior year of the program will focus on enhancing your skills. You will apply what you have learned by working on customer vehicles. Career opportunities in Automotive Collision are: auto body repair person, auto body painter, sheet metal works, auto body estimator, body shop manager, auto frame repair person, auto parts sales, auto glass installer, and auto sales person.  

84913 AUTO COLLISION I:  
Painting & Refinishing  
Students will restore and refinish vehicle exterior body and paint finish. Students will inspect and identify substrate, type of finish, surface condition, and film thickness; develop and execute a plan for refinishing using a total product system. Students will inspect, clean, and determine condition of spray guns and related equipment. Additionally, students will observe safety precautions when using hazardous materials.  

84915 AUTO COLLISION I:  
Nonstructural Inspection & Repair  
Students will learn the skills and knowledge of automotive body panel repairs, replacements, and adjustments. Students will analyze, document and repair nonstructural collision damage. Students will remove corrosion protection, undercoating, sealer, and other protective coatings as necessary to perform repairs. Emphasis will be given to joining and cutting aluminum, steel and other metals. Students will maintain tools and facilities while complying with personal and environmental safety practices.  

CONSTRUCTION I (SV)  
COLLEGE TECH PREP  
Year  Credit 3  Grade 11  Est. Fee $81  
3 periods per day  
This ASE certified program will supply students a well-rounded foundation and preparation for entry into the always-expanding construction industry. Students will learn about AC/DC circuits, residential wiring, controls wiring, heating/air conditioning & applied thermal science, rigging systems, and structural design through the use of self-directed modules. The principles learned will be tested through lab and field experiences. The students will learn carpentry skills and use tools that the professionals use. Qualifying students will be placed with a local employer for paid work experience and training during the second semester of senior year. Are you ready to work toward a high paying career in the construction industry?  

84893 CONSTRUCTION I:  
Core & 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 placed on safe and green construction practices.  

84895 CONSTRUCTION I:  
Structural Systems  
Students will learn procedures and techniques required for layout and framing of walls and ceilings, including roughing-in door and window openings, constructing corners and partitions; bracing walls and ceilings; and applying sheathing. Students will learn methods of roof, cold formed steel, and wood stair framing. Students will learn site and personal safety, material properties, design procedures, and code requirements for structural systems.  

84897 CONSTRUCTION I LAB  
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CONSTRUCTION II (SV)  
COLLEGE TECH PREP  
Year  Credit 3  Grade 12  Est. Fee $81  
3 periods per day  
This course will introduce to students the materials, methods, and equipment used in carpentry and masonry. Students will organize a project work sequence through interpreting plans and diagrams within a construction drawing set. They 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 technology, safety, applicable code requirements and correct practices are learned.  

84903 CONSTRUCTION II:  
Carpentry & Masonry  
This course will address applications of interior and exterior finish work. Students will identify material properties and select for appropriate application. Students will install thermal and moisture protection including roofing, siding, fascia and soffits, gutters, and louvers. Students will install drywall; trim-joinery and molding and apply wall, floor and ceiling coverings and finishes. Throughout the course, the safe handling of materials, personal safety, prevention of accidents and the mitigation of hazards are emphasized.  

84905 CONSTRUCTION II:  
Structural Coverings and Finishes  
This course will address applications of interior and exterior finish work. Students will identify material properties and select for appropriate application. Students will install thermal and moisture protection including roofing, siding, fascia and soffits, gutters, and louvers. Students will install drywall; trim-joinery and molding and apply wall, floor and ceiling coverings and finishes. Throughout the course, the safe handling of materials, personal safety, prevention of accidents and the mitigation of hazards are emphasized.
ENVIRONMENTAL & AGRICULTURE PATHWAY

8441 AGRICULTURE & ENVIRONMENTAL SYSTEMS (SV)

Year Credit 1 Grade 9-10 Est. Fee $17
This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry.

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8442 PLANT & HORTICULTURE SCIENCE (SV)

Year Credit 1 Grade 9-10 Est. Fee $17
This first course in the pathway focuses on the knowledge and skills required to research, develop, produce and market agricultural, horticultural, and native 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. Throughout the course, students will learn communication, leadership, and business management skills reflective of the industry.

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HORTICULTURE I (SV) COLLEGE TECH PREP

Year Credit 2 Grade 11 Est. Fee $17
The focus of the Horticulture program is to prepare individuals for and to assist them in obtaining a career in the agricultural field in conjunction with a purposeful education. The Horticulture program is designed to give students the opportunity to participate in a multifaceted and cooperative program by providing internships or work experiences in the specific area of the student’s interest. The primary emphasis of the program is classroom instruction with hands-on projects.

8433 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 understand different ecosystems and handle animals that are closely lived in our park system.

8434 HORTICULTURE I: Greenhouse & Nursery Management
Students will learn the operational practices needed for the successful growth of nursery stock and/or greenhouse plants. They will learn essential greenhouse practices including water and fertilizer distribution, lighting, ventilation and temperature control. Students will learn pest and disease identification and control along with bio-security practices. Students will demonstrate knowledge of propagation methods, plant health, nutrition, and growth stimulation. Throughout this course, business and employability skills will be emphasized.

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HORTICULTURE II (SV) COLLEGE TECH PREP

Year Credit 2 Grade 12 Est. Fee $17

8437 HORTICULTURE II: Landscape Systems Management
Students will learn methods for establishing and managing landscapes to promote growth and balance. The classification and care of woody and herbaceous landscape plants will be learned. Students will learn to optimize growing conditions, balance nutrients, and manage pests and disease. They will apply proper planting, fertilizing, and pruning techniques while safely operating well maintained specialized equipment. Throughout the course, students will assess implications of landscape installation on the environment, and employ communication, business, and management strategies.

8439 HORTICULTURE II: Business Management
Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners 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 apply concepts of ethics and professionalism while implications of business regulations will be identified.

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HEALTH, EDUCATION & HUMAN SERVICES PATHWAY

8330 HEALTH CAREERS FOUNDATION
Semester Credit ½ Grade 9-10
This course is designed to give students with an interest in pursuing a medical or health-related career overview of the numerous health occupations. In addition to providing an introduction to the various health professions, students will learn occupational skills needed for those professions. The students will gather information about selected health care careers through participation in a series of hands-on projects. A broad concept of how health care is organized and delivered will be studied. Students will explore 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.

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8377 PRINCIPLES OF NUTRITION & WELLNESS
Semester Credit ½ Grade 9-12 Est. Fee $25
In this course, students will use principles of nutrition to ensure a healthy body throughout the lifecycle. An emphasis will be placed on planning and preparing meals with an understanding of nutrients and their benefits, portion control and dietary needs. Additional information will include steroid and supplemental use, body weight and management and the implementation of physical activity to maintain a healthy lifestyle.

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8379 FOOD SCIENCE & CULINARY ART (SV)
Year Credit 1 Grade 11-12 Est. Fee $25
In this course, students will apply basic culinary practices and understand how flavor, texture and appearance are affected during food preparation. Students will evaluate chemical reactions as they occur in cooking methods and assess how to control high-risk food safety situation. Food safety and sanitation techniques will align to industry-recognized certifications.

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Do you want to remember what it is like to be a kid again? Most people in life will be responsible for interacting with children either as a parent or caregiver. This class is essential for everyone who plans to become a mother or father someday or even those who choose to enter into a career path responsible for interacting with children such as child care and education. This class explores child development topics such as: parent readiness, conception, prenatal care, labor and delivery, characteristics of ages and stages, play, childhood nutrition, and positive guidance techniques. Do you love kids or do they drive you crazy? Would you like to gain important skills on dealing with children? If so, this class is designed for you.

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In this course, students will develop effective learning strategies and skills to provide a strong foundation for successful lifelong learning. Throughout the course, students will research careers and occupations, review postsecondary admissions qualifications, develop interviewing skills and participate in internships. Additional topics will include principles and techniques of professionalism, networking, conflict-resolution, negotiation, leadership and entrepreneurship.

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In this course, students will analyze interests, aptitudes and skills to prepare for careers and transition through life. An emphasis will be placed on work ethics, team building, communication and leadership skills. Additional topics will include technology etiquette and career planning.

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In this course, students will develop a personalized approach to healthy living. An emphasis will be placed on developing personal health for an adolescent that can be used as they transitions through life. Additional topics will focus on problem-solving, work ethics, nutritional and food selections, family dynamics and personal health.

In this course, students will learn basic shampooing, conditioning and hair-cutting including corrective scalp treatment. Students will also learn infection control with natural and synthetic hair. Students will also learn infection control and diseases. Students will be able to determine hair porosity, elasticity, density, texture and growth patterns as well as conduct chemical tests for treated hair and ability to recommend corrective scalp treatment.

Students will learn the anatomy of the head and scalp, structure of the hair and various techniques and procedures for analyzing hair, scalp disorders and diseases. Students will be able to determine hair porosity, elasticity, density, texture and growth patterns as well as conduct chemical tests for treated hair and ability to recommend corrective scalp treatment.

Students will apply basic skills, knowledge, and safety practices when giving permanent/chemical waves, curl re-forming, chemical relaxers and hair color techniques to include tinting, highlighting, bleaching and foiling.

Students will learn the knowledge and skills to perform both manicures and pedicures. They will learn how to maintain personal hygiene and infection control. Students will give plain/oil manicures, pedicures, and hand/harm and foot/leg massages. Enhanced hand and foot treatments using specialized products and techniques will be performed.

Prerequisite: Successful completion of Early Childhood Education I

The second year of the Early Childhood Program will continue to focus on studying young children from birth through grade 3. A Professional Portfolio will be completed by the end of the program. You will take part in practicum experiences (4 days/week) in kindergarten through grade 3 classrooms within the Sylvania School District. You may also choose to complete your experience in a local early childhood center. These non-paid placements change each quarter to allow you four opportunities to work with various age levels. If you choose, you may pursue work in an area childhood center (day care/preschool) for pay. You will earn certifications in communicable disease, child abuse awareness, first aid CPR and complete all required work for a CDA (Child Development Associate).

Upon completing the program, you may seek employment in day care, preschool centers, school age programs or become a home child care provider. In addition, you may seek to further your education well prepared for a 2 year associate or 4 year bachelor’s degree in early childhood education. Career opportunities for people earning degrees include: elementary teachers, early childhood intervention specialists (special education), day care owner/administrator and various other career choices relating to the care and education of children. You will have the opportunity to earn transferable college credits upon successful completion of this two-year program. Students must provide their own transportation to placements.

These courses may be taken for honors credit. See the instructor for additional requirements.

Prerequisite: Application and teacher interview

Do you like working with young children, birth through grade 3? Would you like to have fun while learning about young children? Have you ever considered a career working with children? If you answered yes to these questions, Early Childhood Education is the program for you. Junior students work in a preschool with three to five year old children located at Northview High School. While enrolled in the two year program you will gain knowledge in child development, guidance techniques, assessment, curriculum planning, health and safety. Other areas of study include working with infants and toddlers exploring middle childhood years, children with special needs and an overall view of careers in education.

These courses may be taken for honors credit. See the instructor for additional requirements.
8335 COSMETOLOGY II
Year  Credit  4  Grade  12  Est. Fee $50
Prerequisite: Cosmetology I
This is the second year program for Cosmetology. Senior Cosmetology stu-
dents can provide services for clientele, intern in an area salon, and practice
for the upcoming licensing exam. Upon passing the exam, the student can
be licensed by the State of Ohio as a professional Cosmetologist.

83511 COSMETOLOGY II:
Advanced Hair Cutting & Styling
Students will learn advanced cutting and formal styling using specialized
equipment and techniques. This course offers enhanced training in current
trends and razor techniques.

83513 COSMETOLOGY II:
Advanced Chemical Services
Students will learn advanced chemical services using specialized products
and techniques. Students will do advanced coloring, dimensional coloring,
corrective techniques, texturizing, and advanced chemical wave wrapping
techniques.

83515 COSMETOLOGY II:
Skin Care Fundamentals
Students will apply the principles of anatomy, skin analysis, infection control
and safety to safe hair removal, skincare treatments, and facial massage.
Students will use electrical and manipulative facial treatments including
masks, packs, and make-up techniques. Students will also learn advanced
skin care treatments, targeted massage, end enhancement applications using
specialized products and techniques.

83517 COSMETOLOGY II:
Salon Operations
Students will learn the fundamentals of managing a cosmetology salon.
Students will learn about employment and customer liability, insurance,
leases, record keeping, communication and sales.

MEDICAL TECHNOLOGY I
COLLEGE TECH PREP
8333 ANATOMY
Year  Credit  3  Grades 11  Est. Fee $90
2 periods per day Med. Tech
1 period per day Anat.
Prerequisite: Application
Med Tech I is a Tech Prep course, which combines two periods of the lab
portion of the class with one period of Anatomy & Physiology to give stu-
dents interested in medical fields an advantage as they pursue their career
goals. These classes emphasize a firm foundation in Medical Terminology,
Diseases, Ethics, and Emergency First Aid. Hands on applications will be
acquired through professional guest speakers, health care field trips and
victim/patient care skills. The course covers the following:
Introduction to Health Care, medical terminology, and First Responder
Course - Students will be trained as First Responders and instructed in basic
management of emergency medical/pre-hospital care of the sick and injured.
First Responders are trained to reach patients, find out what is wrong and
provide emergency care. Students will receive the following certificates: CPR
for the Professional Rescuer, Emergency Response, Oxygen Administration,
Automated External Defibrillation, and Preventing Disease Transmission.
All Med Tech students are required to take Anatomy & Physiology which
will be automatically scheduled upon enrollment in this program.
These courses may be taken for honors credit. See the instructor for
additional requirements.

83321 MED TECH I: Medical Terminology
83322 MED TECH I: Nutrition & Wellness

MEDICAL TECHNOLOGY II
COLLEGE TECH PREP
83362 Med Tech II: Patient-Centered Care

INFORMATION

TECHNOLOGIES

PATHWAY

8311 SOFTWARE APPLICATIONS
Semester  Credit  1/2  Grade: 9-12  Est. Fee $10
The emphasis of this course is to extend your knowledge of Microsoft Office
2010 (Word, Excel and PowerPoint). Microsoft Access will be introduced.
You will use this proper procedures and techniques to create more advanced
documents, workbooks, and presentations suitable for course work, profes-
sonal purposes, and personal use. You will also learn how to use Publisher
to produce brochures and flyers.

8309 TODAY'S TECHNOLOGY
Semester  Credit  1/2  Grade  9-12  Est. Fee $10
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,
presentation and collaboration tools, research, organization, and concept
mapping tools, and other widgets in order to better complete academic,
professional, and personal endeavors to successfully function in today’s
technologically driven society.

8415 INTRO TO COMPUTER PROGRAMMING
Semester  Credit  1/2  Grade  9-10
This course will introduce students to computer programming. Students will
learn how to program in a variety of languages that are being used in many
career fields. Emphasis will be placed on learning how to logically process
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.
8541 HONORS PROGRAMMING I
Object Oriented Programming
This course is one part of Honors Programming I and must be taken in conjunction with Honors Object Oriented Programming. Honors Object Oriented 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 programming 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.

8540 HONORS PROGRAMMING I
Visual Programming
This 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; logical structure of programs; control containers such as graphics, dialogs, and forms; and controls, including buttons, sliders, mouse motion, and edit boxes. After this course, students will be able to design and create applications with a working Graphical User Interface.

8542 HONORS PROGRAMMING II:
Computer and Mobile Applications
This course is one part of Honors Programming II and must be taken in conjunction with AP Computer Science A. Honors Computer and Mobile Applications provides the training for students to create applications for mobile devices using commercial and open source software. Students will write code for mobile apps that will be compatible with millions of Android 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 product and code. Students will learn to develop mobile apps in conjunction with Honors Object Oriented Programming. Honors Visual Programming and Honors Mobile Applications. In Honors Programming II students learn and practice key computer science concepts by designing and developing new computer and mobile applications. Students will continue to develop object-oriented programs while focusing on mobile apps. Students will design, create, install, test, and modify their own mobile apps on different devices and operating systems. Honors Programming II provides preparation for the AP Computer Science A examination while also providing a solid background for students pursuing a career in the lucrative and rapidly expanding world of mobile computing and mobile app development.

8543 HONORS PROGRAMMING II:
AP Computer Science A
This course is one part of Honors Programming II and must be taken in conjunction with Honors Computer and Mobile Applications. AP Computer Science A includes items covered in most college entry-level computer science courses. The curriculum follows the outline for AP Computer Science A developed by the College Board. Topics covered include problem solving 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.

8598 INTRO TO VISUAL TECHNOLOGY
Semester Credit ½ Year 9-10
In IVT you can learn the basic art and design skills it takes to go into the field of Computer Graphics and Visual Communications. In this introductory class, you can create and print images that focus on each of the Elements 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 visual driven world. Students also study art history and aesthetics to further develop their understanding and appreciation of visual media.

8599 CAREERS IN VISUAL TECHNOLOGY
Semester Credit ½ Year 9-10
Prerequisite: Intro to Visual Technology
In this advanced class, you can continue to explore the field of Computer Art and Illustration on the latest Adobe software. You will discover the variety of fields in which visual technology is a vital piece of equation and how the visual medial influences nearly everything in our world. You can work with: Advanced topics in printing and scanning, such as color management and high resolution print media; development of page-layouts that combine text and graphics; further development of digital photography skills; further exploration in computer based commercial art and fine art; and advanced techniques in Illustrator and Photoshop.

INTERACTIVE MEDIA I
COLLEGE TECH PREP
Year Credit 2 Grade 11 Est. Fee $30
Over two years in interactive media students will study design techniques, creating and editing digital images, web design, and video and sound. These courses may be taken for honors credit. See the instructor for additional requirements.

Software
Apple computers and the Adobe Master Suite of programs are utilized. Programs include but are not limited to: Photoshop, Illustrator, InDesign, Dreamweaver, Flash, Premiere Pro, and After Effects.

8512 INTERACTIVE MEDIA I:
DESIGN TECHNIQUES
Students will learn techniques for transforming photographic images, through use of digital cameras, computers, and mobile devices. To accomplish this, they will learn software photo editing techniques including layering, color correction, masking, and special effects using current commercial and open source programs and applications.

8510 INTERACTIVE MEDIA I:
WEB DESIGN
Students will learn the dynamics of the Web environment while pursuing an in-depth study of both Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS). Web based protocols such as FTP, TCP/IP, and HTTP will be addressed. Students will create a website with tag text elements, special characters, lines, graphics, hypertext links, and graphical tables.
8511 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 source software.

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

MUSIC

Instrumental Music

BAND
Prerequisites: A minimum of one year of band experience or permission of the band director.
The Northview Band program provides the student with a wide variety of musical experiences. All students enrolled in band perform with the marching band during the first quarter of the school year. At the conclusion of the fall marching season the band will be divided into three concert bands. Students will be placed in one of the three concert bands based on an audition held in January or February of the previous year. The concert bands will present a number of formal concerts each year as well as participate in Ohio Music Education Association Adjudicated Events. Students are also provided the opportunity for small ensemble and solo performances. All band students also perform at winter sport events as a member of the pep band. The pep band provides spirit and support for Northview winter sports teams. The pep band performs at several home boys and girls basketball games, and one hockey game. The pep band also performs at pep assemblies throughout the year. All band members must perform at a minimum of 4 games. Band is a continuing program. A student cannot drop out and then rejoin without special permission of the director.

MARCHING BAND
The marching band is an integral part of the pageantry and excitement generated at Northview varsity football games in the fall. The band will provide entertainment during the pre-game and half-time activities, as well as provide spirit and support for the Northview team and its’ fans. The band also participates in a number of parades, including the Fall Festival parade, and the Memorial Day parade in the spring. The band may also participate in a limited number of special events, such as band festivals or competitions. A band camp is held at Northview in August, two weeks before the first week in which classes are scheduled to begin. These very important rehearsals are where we learn the marching fundamentals and musical skills needed to present our fall schedule of performances. Attendance at band camp is MANDATORY! Attendance is also required at all scheduled performances.

HONORS OPTION
The Honors Option will be available to students who are enrolled in the Wind Ensemble, Chamber Orchestra or A Cappella Choir. The Honors Option in Music will focus on the development and application of critical thinking skills - analysis, synthesis, evaluation and problem solving. Students must demonstrate an appreciation of the aesthetics and an understanding of the creative process in music. Student responsibility, intrinsic motivation, independent study and research will be emphasized. Because of the performance emphasis of these classes, the already rigorous course expectations and the time consuming schedule students encounter in music, interested students need carefully evaluate their total responsibilities to school and home before committing themselves to the Honors Option in music. A decision to enroll should be discussed with and supported by your teacher and parents.

3752 WIND ENSEMBLE
3761 HONORS WIND ENSEMBLE
The Wind Ensemble will consist of mostly upperclassmen and the most experienced players. The emphasis will be on the more advanced techniques of performance and the literature covered will be of the highest level. Attendance is required at all scheduled performances.

3758 SYMPHONIC BAND
The Symphonic Band will consist of mostly upperclassmen and experienced players. The emphasis will be on developing more advanced techniques of performance and the literature covered will be of a higher level. Attendance is required at all scheduled performances.

3756 CONCERT BAND
The Concert Band will consist of mostly underclassmen and less experienced players. Basic musicianship and fundamental skills will be stressed. Attendance is required at all scheduled performances.

3750 BAND AUXILIARY
Quarter Credit: 1/4 Grade: 9-12
Prerequisite: Acceptance is based on the tryout
The band auxiliary consists of the Northview flag corps and majorettes. Tryouts are held in the spring of each year. This course is for those students who do not play a band instrument. Attendance at scheduled performances is mandatory.

3751 CONCERT ORCHESTRA
Year Credit: 1 Grade: 9-12
Prerequisite: A minimum of one year of orchestra experience or permission of the orchestra director
The Northview 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 this ensemble is devoted to specific orchestral techniques, and the orchestra performs standard educational string literature. Highlights of the year are the December concert, State Orchestra Adjudicated Event, and the May Pops Concert. There are many opportunities for additional enrichment and service, such as Solo and Ensemble contest and select orchestras at the district, regional, and state levels. Attendance at all scheduled performances is mandatory.

* A Pay to Participate fee is required for this class
Northview's young male voices, but also open to upperclassman involvement. The fundamental skills of voice production, sight-reading, tuning, blend, and balance. This women’s chorus is primarily a skill building group for Northview’s young female voices, but also open to upperclassman involvement and leadership. The Northview Women’s chorus will perform at all Northview choral events, including OMEA District and State competitions.

\[A \text{ Pay to Participate fee is required for this class}\]

**Vocal Music**

3763 JAZZ BAND

Year: Credit 1.5 Grade: 9-12
Prerequisite: Enrollment in HS Band or by permission of director

The Jazz Band is a musical group organized to study and perform the various styles of jazz music, such as Big Band Dance Music, Pop and Rock, Ballads, the Blues, and small group jazz. A basic understanding of improvisational techniques is also given. The Jazz Band performs a number of times throughout the school year. Practices will be conducted after school hours. Attendance at scheduled performances is mandatory.

\[A \text{ Pay to Participate fee is required for this class}\]

3764 A CAPPELLA CHOIR

3766 HONORS A CAPPELLA CHOIR

Year: Credit 1 Grade: 10-12

A Cappella Choir is Northview’s most select mixed ensemble. The choir, in addition to concerts, performs in a concert tour for an average of four days every other year. During the years when the A Cappella Choir does 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 sightseeing and display their range through video-recorded exercises. While not required, it is recommended that a student wishing to become a member of the A Cappella Choir participate in the Northview Chorus and/or Symphonic Choir in preparation for this auditioned group. Attendance at scheduled performances is required. Note: The selection of choral music based upon its historic and music significance and at times will have religious text.

3768 POPULAR MUSIC

Semester: Credit 1.5 Grade: 10-12

Jazz, Blues, Rock-n-Roll and all popular music from the 1910’s to the present will be studied. The course involves a great deal of music listening in conjunction with defining what musical traits characterize each style of popular music. Each student will be able to classify and categorize popular music examples by artist and by the stylistic techniques used.

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3775 MEN’S CHORUS

Year: Credit 1 Boys Grades: 9-12 Est. Fee: $50

Northview Men’s Chorus is a 9th-12th vocal group focused on developing the fundamental skills of voice production, sight-reading, tuning, blend, and balance. This men’s chorus is primarily a skill building group for Northview’s young male voices, but also open to upperclassman involvement and leadership. The Northview Men’s chorus will perform at all Northview choral events, including OMEA District and State competitions.

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3776 WOMEN’S CHORUS

Year: Credit 1 Girls Grades: 9-12 Est. Fee: $50

Northview Women’s Chorus is a 9th-12th vocal group focused on developing the fundamental skills of voice production, sight-reading, tuning, blend, and balance. This women’s chorus is primarily a skill building group for Northview’s young female voices, but also open to upperclassman involvement and leadership. The Northview Women’s chorus will perform at all Northview choral events, including OMEA District and State competitions.

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3767 AP MUSIC THEORY

Year: Credit 1 Grade: 11-12 Est. Fee: $65
Corequisite: A Cappella Choir, Chamber Orchestra, Wind Ensemble, or consent of the instructor

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 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 helpful. Aural skills will be learned and developed through the use of several music skills computer programs. Students will develop listening skills to enable them to hear and notate musical examples and heighten compositional skills. It is expected that students will take the AP exam.

Return to course offering page: 9, 10, 11, 12

3769 THE HARMONY ROAD SHOW

Year: Credit 1 Grade: 10-12
Prerequisite: A Cappella Choir

Specializing in vocal jazz, Harmony Road Show ("HRS") is a mixed voice audition-only group of 16 singers. Students learn jazz performance techniques both on and off microphones. They are expected to learn about vocal sound technology and tech set-up of speakers and microphones in various performance venues. HRS performs by invitation at many community functions, at choir concerts, and with the Northview Jazz Band in the spring. The Harmony Roadshow has performed and workshopped with members of M-Pact, Up-in-the-Air, New York Voices, and vocal jazz/vocal pop professionals from around the world. Attendance at scheduled performances is required. Students are required to furnish their own formal uniforms in accordance with uniform guidelines. Members are encouraged to check out the BG SU New York Voices vocal jazz camp in August.

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**SCIENCE**

A full year of physical science, a full year of biological science and a full year of elective science are required for graduation.

3421 AP BIOLOGY

Year: Credit 1 Grade: 11-12 Est. Fee $10
7 periods or equivalent
Prerequisite: Teacher recommendation, Biology or Honors Biology, Chemistry or Honors Chemistry or being taken concurrently

A course for highly motivated interested students, AP Biology gives in-depth treatment to cell structure and function, taxonomy, evolution, ecology, bio-synthesis, genetics, protein synthesis, plant and animal physiology, applied botany, biogenergetics, history of biology, homeostatic mechanisms, behavior, gene action, and more. Laboratory experiences provide opportunities for the student to further develop observational and analytical skills and are 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 investigate macromolecule structure, photosynthetic rates, enzyme function parameters, transformation in bacteria, plant and animal morphology and histology, microbial activity and identification and electroforesis as well as other laboratory topics. Tests emphasize both the course content and its concepts. A summer assignment of outside readings and selected text chapters is required. Students electing to take AP Biology should see the instructor before the end of second semester exams to sign out a text. The course is recognized by colleges as a laboratory credit course. Summer assignments may also be found at the Northview website www.sylvianorthview.org. It is expected that students will take the AP Exam.

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### 3435 ENVIRONMENTAL SCIENCE I

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<th>Semester</th>
<th>Credit</th>
<th>Grade 11-12</th>
<th>Est. Fee: $5</th>
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**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 Lakes, animals of Ohio—birds, reptiles, amphibians, fish, and mammals. These topics will be discussed in the context of current environmental issues in the world around us. Class will consist of hands-on, projects based activities, lab investigations inside and outside the classroom, research project and presentations. Students also have the opportunity to participate in the area-wide, Student Watershed Watch Program.

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### 3436 ENVIRONMENTAL SCIENCE II

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<th>Semester</th>
<th>Credit</th>
<th>Grade 11-12</th>
<th>Est. Fee: $5</th>
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**Prerequisite:** Science 9 (C and P) and Biology and Environmental I

Environmental Science II is an extension of Environmental Science I; it will address current issues of energy use, fossil fuels, alternative energy, global warming, and what impact they have on the topics covered in Environmental I. Also addressed will be pollution, recycling and waste management. Additional topics covered will be plant science, basic forestry, GPS technology and natural resources management. Research projects, presentations, outdoor and indoor lab activities, and classroom activities will facilitate the learning of material in this program. Students have the opportunity to participate in statewide Envirothon Program.

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### 3432 ZOOLOGY I

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<th>Semester</th>
<th>Credit</th>
<th>Grade 11-12</th>
<th>Est. Fee: $8</th>
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**Prerequisite:** Biology

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 I includes topics such as evolution and animal diversity, animal ecology, and the study of the following Phyla: Protozoa, Porifera, Cnidaria, Annelida, Mollusca, Arthropoda, and Echinodermata, in other words, anything from single-celled animals to sponges, to spiders, to starfish. Class includes lab investigations, research projects, presentations, field work, lectures, and dissections.

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### 3433 ZOOLOGY II

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<th>Semester</th>
<th>Credit</th>
<th>Grade 11-12</th>
<th>Est. Fee: $8</th>
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**Prerequisite:** Zoology I, Biology

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 include classification and evolution of the Phylum Chordata. We will study, in depth, the following Classes: Fish, Amphibians, Reptiles, Birds, and Mammals. Current issues in biodiversity and threats to animal species will also be researched and discussed. The class includes lab investigations, research projects, presentations, field work, lectures, and dissections.

*Return to course offering page: 11, 12*

### 3434 ASTRONOMY I

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<th>Semester</th>
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**Prerequisites:** Algebra I and Biology or H Biology

Astronomy I is a general survey course first introducing the students to the night sky, its many constellations, brighter stars and motions. The historical development of astronomical thought and our place in the Universe is 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 manned and unmanned exploration of the planets will also be discussed.

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### 3437 ASTRONOMY II

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<th>Semester</th>
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**Prerequisites:** Astronomy I, Algebra I, & Geometry

Astronomy II picks up where Astronomy 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 the Universe, Black Holes, Neutron Stars, Dark Matter, and the possibility of 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 at 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 system! Galaxy, so be prepared to include as many of the facts that you have learned in the past year in the creation of your "Being".

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### 3422 CHEMISTRY

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<th>Year</th>
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<th>Est. Fee $10</th>
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7 Periods or equivalent.

Chemistry is a lecture-laboratory course that focuses on methods and techniques of measurements and problem solving as pertaining to atoms and chemical reactions. To better understand the invisible world of atoms 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 of the periodic table serve 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 analysis. Due to the challenging nature of the subject material, students taking this course are required to attend a mandatory make up/ review session on alternating Fridays during commons.

### 3431 HONORS CHEMISTRY

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<th>Year</th>
<th>Credit</th>
<th>Grade 10-12</th>
<th>Est. Fee $10</th>
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7 periods or equivalent

**Prerequisites:** Algebra I & Physical Science or Honors Physical Science with B or better grades: teacher recommendation.

Honors Chemistry covers the same general topics as Chemistry, but in greater depth and at an accelerated pace. We will also cover topics including equilibrium, reaction kinetics, and acids and bases that are not covered in regular Chemistry. The course would be most appropriate for the study with definite future goals in chemistry, engineering, pre-med, etc. With permission, sophomores could take Biology and Chemistry concurrently on Honors Biology and Honors Chemistry. Due to the challenging nature of the subject 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 students selecting Honors Chemistry must see the instructor before the end of second semester. Summer assignments may also be found at the Northview website www.sylvanianorthview.org.
A course for the advanced college-bound science student, AP Chemistry emphasizes the quantitative, experimental aspects of Chemistry. Some of the topics studied in AP Chemistry include: periodicity of matter, and chemical reactions, bonding, 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 these principles. Additional topics studied in-depth are: thermochemistry, acid-base theory, chemical equilibrium, rates of reaction, 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 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 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 the instructor before the end of second semester. Summer assignments may also be found at the Northview website www.sylvianorthview.org. Return to course offering page: 11, 12

Anatomy and Physiology is a rigorous, advanced life-science course designed to educate the student about the human body. This course follows a lecture-laboratory format, and is based on the understanding of human functions 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 homeostasis and disease. The course begins with a review of the principles of biochemistry and cell biology (both previously developed and learned in Biology and/or Chemistry). It continues with a thorough examination of human primary tissues and concludes with a study of each of the body’s systems. Anatomy and Physiology is supplemented with numerous lab activities throughout the year including an extensive vertebrate (cat) dissection. A number of other lab skills and techniques will be developed including: microscopy, tissue staining, blood typing principles, measuring, and data analysis. This course is recommended for those students interested in any medically related career or who are otherwise highly motivated to learn about the human body.

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This course covers a broad spectrum of topics generally considered to be included in an introductory course in Physics. Emphasis is on the understanding of general principles and models and on the nature of scientific inquiry. The level of mathematical sophistication will extend to simple trigonometry but rarely beyond. The historical development of science is considered along with the role of science in contemporary society. Students who are going to major in physical science or engineering should consider taking AP Physics. Due to the challenging nature of the subject material, students taking AP Physics are required to attend a mandatory lab make-up/review/help session on alternating Fridays during their commons.

This course covers a broad spectrum of topics generally considered to be included in an introductory course in Physics. Emphasis is on the understanding of general principles and models and on the nature of scientific inquiry. The level of mathematical sophistication will extend to simple trigonometry but rarely beyond. The historical development of science is considered along with the role of science in contemporary society. Students who are going to major in physical science or engineering should consider taking AP Physics. Due to the challenging nature of the subject material, students taking AP Physics are required to attend a mandatory lab make-up/review/help session on alternating Fridays during their commons.

This course is designed to prepare students for the AP National Psychology Exam. It is equivalent to an introductory college course in psychology. The course receives honors credit. Students who successfully complete the national exam may receive and advance placement and/or waiving of course work at the university level. All areas of psychology are covered. This includes but is not limited to: history and methodology, biological basis of behavior, states of consciousness, learning and cognition, memory, personality, 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 through both oral and written format. There is a heavy emphasis on study skills and genuine class participation in activities and discussion.

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, and have an opportunity to design and conduct sociological research.
3228 GEOGRAPHY
Semester Credit 1/2 Grade 9-12
Geography is a social studies offering for all grades. The course will include an 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 well as an understanding of recent history and current events.

WORLD LANGUAGES

Proficiency in a World Language is highly valued in the global marketplace as it empowers learners to be able to interact with a variety of different cultures. World Language students are encouraged to be active learners of the language they are studying and participate in the cultural experiences offered such as World Language Week, The World Language and/or The Chinese Culture Club. Students will utilize 21st Century Skills with a focus on communicating in the target language as well as comparing and contrasting practices and perspectives of the target cultures. For more information on proficiency levels visit actfl.org.

Many colleges now require a minimum of two years but recommend three or more years of a consecutive second language for admission to the college as well as require second language study upon admission for most majors. All levels will help prepare students to be successful on the Advanced Placement (AP) exam in level 5. Level 1 French and Spanish may be taken in grade 8, followed by consecutive levels in high school or it may also be started at any grade in high school.

3726 Chinese I
Year Credit 1 Grade 9-12
Chinese I is designed around the Ohio World Language Standards and the World-Readiness Standards for Learning Languages by ACTFL. The course introduces the modes of communication in interpersonal conversations, presentational writing and speaking, and interpretive reading and listening skills. 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 through the study of topics such as school, family and weekend activities. Students will begin to learn how to pronounce words by writing with Pin Yin (Chinese phonetic writing system). Students will also learn how to write Chinese characters. The targeted proficiency level for students at this level is Novice-Low according to the ACTFL Proficiency Guidelines, or the ability to identify with words and phrases and express ideas with memorized words and phrases.

LEVEL 1

3700 FRENCH I
Year Credit 1 Grade 9-12
3720 GERMAN I (SV)
Year Credit 1 Grade 9-12 Est. Reading Fee $10
3730 SPANISH I
Year Credit 1 Grade 9-12 Est. Reading Fee $10

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 1 of the World Language class is designed to provide students the opportunity to communicate in the target language via reading, writing, listening and speaking. According to ACTFL, the proficiency goal for a level 1 student is Novice-High or the ability to describe in strings of sentences and express personal thoughts in at least two time frames.

LEVEL 2

3701 FRENCH II
Year Credit 1 Grade 9-12 Prerequisite: French I
3721 GERMAN II (SV)
Year Credit 1 Grade 10-12 Est. Reading Fee $10 Prerequisite: German I
3731 SPANISH II
Year Credit 1 Grade 9-12 Est. Reading Fee $10 Prerequisite: Spanish I

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 2 of the World Language class is designed to provide students 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 2 student is Novice-Mid or the ability to describe with phrases and identify with short sentences in present time frame.

LEVEL 3

3702 HONORS FRENCH III
Year Credit 1 Grade 10-12 Prerequisite: French II
3722 HONORS GERMAN III (SV)
Year Credit 1 Grade 11-12 Est. Reading Fee $10 Prerequisite: German II
3732 HONORS SPANISH III
Year Credit 1 Grade 10-12 Est. Reading Fee $10 Prerequisite: Spanish II

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 3 of the World Language class is designed to provide students 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 strings of sentences and express personal thoughts in a single time frame.

LEVEL 4

3705 HONORS FRENCH IV
Year Credit 1 Grade 11-12 Est. Reader Fee $12 Prerequisite: French III
3723 HONORS GERMAN IV (SV)
Year Credit 1 Grade 12 Est. Reading Fee $10 Prerequisite: German III
3735 HONORS SPANISH IV
Year Credit 1 Grade 11-12 Est. Reading Fee $10 Prerequisite: Spanish III

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 4 of the World Language class is designed to provide students 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 4 student is Intermediate-Mid or the ability to describe in strings of sentences and express personal thoughts in at least two time frames.

LEVEL 5

3706 AP FRENCH LANGUAGE
Year Credit 1 Grade 12 Est. Reading Fee $51 Prerequisite: French IV
3736 AP SPANISH LANGUAGE
Year Credit 1 Grade 12 Est. Reading Fee $51 Prerequisite: Spanish IV

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 students 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-Mid/High or the ability to describe in strings of sentences and express personal thoughts, opinions or debate in multiple time frames. Students are able to earn college credit by performing well on college placement tests and on the Advanced Placement (AP) exam for those universities accepting AP exam scores. *See teacher for assigned summer activity.
Notes:
1. Intermediate Algebra and Algebra 2 are not equivalent; Algebra 2 is a higher level course and the only option to follow Intermediate Algebra.
2. College Prep and Precalculus are not equivalent; Precalculus is the higher level course. Either may follow Algebra 2.
3. Following any honors course, students may take any course following the "regular" equivalent. (For ex., a student completing Hon. Geo. may take any course that follows Reg. Geo.)
4. It is uncommon for students to follow any path other than that outlined above.
5. Students having completed Precalc. should not enroll in College Prep without extenuating circumstances.
6. Due to the nature of the math curriculum, students should not "double up" except with the following exceptions: 1) Stats with a course beyond Alg. 2; or 2) Geometry with Inter. Alg. after failing Geo. or Alg. 1. Students failing a semester of a course are strongly encouraged to take the course during summer school.

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<thead>
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<th>Year</th>
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<th>11th</th>
<th>12th</th>
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<td>Geometry</td>
<td>Intermediate Algebra</td>
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<td>College Prep</td>
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<td>Algebra II</td>
<td>Precalculus</td>
<td>Calculus</td>
<td>Statistics</td>
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<td>Precalculus</td>
<td>College Prep</td>
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*The above chart shows what may commonly be taken during a particular year, given that a student has completed the prerequisite course(s).
Create Your Four Year Plan

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<thead>
<tr>
<th>SUBJECT AREAS</th>
<th>GRADE 9 CLASSES/CR</th>
<th>GRADE 10 CLASSES/CR</th>
<th>GRADE 11 CLASSES/CR</th>
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See Page 4 for Graduation Requirements