



**North Olmsted High School
Course Selection Guide
9TH - 12TH Grade
2025 - 2026**

North Olmsted High School Counseling Office

Counselors' Assignment by Student's Last Name

Margie McMullen	A - G 9th - 11th Grade
Wendy Walland	H - O 9th - 11th Grade
Tricia Calloway	P - Z 9th - 11th Grade
Kristy LaBella	A - Z 12th Grade

Graduation Requirements

[Graduation Requirements.pdf - Google Drive](#)

Presidential Award of Academic Excellence

The criteria for this award are that students must have a 3.5 weighted or better GPA after 7 semesters, and an ACT composite score of 24 or 1160 SAT (Critical Reading & Math)

Honors Diploma

There are now several different Honors Diplomas! Please know for all the Honors Diplomas, the cumulative GPA criteria is an unweighted 3.5 or higher by the 7th semester of high school. Click on the Ohio Department of Education Website below for information on the criteria for each Honors Diploma. See your school counselor if you have questions. <http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Honors-Diplomas>

Arts Credit for College

Some colleges recommend that students best prepare for college by including at least 1.00 credit of the fine and performing arts in their high school curriculum. While all courses in the art and music departments satisfy this recommendation, only selected courses in other departments can be used. The state universities in Ohio have addressed which courses satisfy their recommendations.

Academic Credit

Credit is awarded upon the satisfactory completion of the course. Credit for all courses is awarded at the end of the first semester and second semester. Partial credit is not awarded. To receive academic credit, students must pass two out of the three grading opportunities in a semester. (The grading opportunities for a semester are the two quarter grades and end of semester exam.)

Class Load – Minimum

Students are required to maintain a minimum course load of 5.25 credits each year. Most students carry six or seven classes.

Schedule Changes & Impact on Grading

Students may not add a course to their schedule after the completion of the 7th day of school in a semester. This does not apply to course level changes that can occur throughout the year with approval of a student's counselor, teacher, parent, and administrator. The grade(s) earned-to-date of change follows the student as "grade-in-progress" to the new course. After adding a class, the student is responsible for the work assigned prior to his/her joining the class.

For class dropping procedure, see Schedule Change and Class Drop Policy included in this guide.

Grade Point Average (GPA)

The grade point average, calculated at the end of each quarter, serves as a progress report. The grade point average, which becomes a part of the cumulative record, is calculated on the final grades earned at the end of each semester.

Class Rank

Class rank is determined at the conclusion of each academic semester. Class rank is based on the student's cumulative grade point average and is recorded on the student's transcript

Auditing Courses

Auditing is limited to elective courses and courses which are not prerequisites for other courses pending available space. **This request must be made within the first four weeks of the course.** A student who audits a course must attend all classes, complete all classwork, and abide by all classroom policies. The student will not receive a grade on his/her report card nor earn credit. The grade for an audit course will be recorded AU on the student's transcript and not affect the student's GPA. Auditing is a privilege, and cannot be used exclusively to protect GPA. If a student does not adhere to the provisions of this agreement, he/she will be removed from the course. Audited courses do not figure into athletic eligibility.

Repeating Courses

Students may request to repeat World Language courses in order to improve their comprehension of course material. If the original grade was a passing grade, the highest grade will become the grade of record for the course and the original grade and credit will be removed from the transcript. If the original grade was a failing grade, that failing grade and the new grade will remain on the transcript, and will affect the student's grade point average. Students must notify their school counselor if they wish to repeat a World Language course in which the original grade was passing.

Credit Flexibility

All public school districts in the state of Ohio are required to offer alternative means to earn a high school diploma through a program called Credit Flexibility. Students and parents interested in more information on the Credit Flexibility Option should contact the school principal and the appropriate school counselor.

Educational Options

(Summer school, correspondence, and virtual classes)

Students with approval from their school counselor and administrator may utilize approved educational options such as summer school, correspondence courses, and virtual learning courses to earn credit toward graduation. Students are advised to confer with their counselor concerning educational options and requirements. All students may take summer school to make up classes they have failed. Grades earned in summer school are included in GPA calculations; however, summer school coursework cannot be used to recover athletic eligibility.

College Credit Plus (CCP)

College Credit Plus provides students with the opportunity to take classes at college while attending high school and earn both high school and college credits. Students who qualify may take the courses at college at no cost other than transportation. The purpose of the program is to allow rigorous academic pursuits and to provide a wider variety of options to high school students. CCP courses available at North Olmsted High School are English Composition 1, English Composition 2, US History to 1877, and US History 1877 - present.

A mandatory informational meeting will be held in after winter break. A letter of intent for this program must be completed by April 1 for the following school year and is open to 9th through 12th grade students. No exceptions to the deadline can be made. (Please be aware that the deadline typically falls over Spring Break.) Although in most cases the college courses do not require tuition, the student may be billed for any course that he or she fails or withdraws.

Please note: North Olmsted HS cannot change student schedules as a result of scheduling difficulty at CCP locations.

For more information see: https://www.ohiohighered.org/college_credit_plus



College Credit Plus/Online Associate of Arts Crosswalk tri-c.edu/onlineaa

1st Semester			
H.S. Subject	Tri-C Course	A.A. Degree Requirement	College Credits
English	ENG-1010: College Composition I (OT36)	Communication	3
Social Studies	HIST-1010: History of Civilization I (OT36) or HIST-1020: History of Civilization II (OT36)	Social and Behavioral Sciences	3
		Total Credits	6
		Total Cumulative Credits	6

2nd Semester			
H.S. Subject	Tri-C Course	A.A. Degree Requirement	College Credits
Science	ESCI-1410: Physical Geography (OT36) and ESCI-141L: Physical Geography Lab (OT36)	Natural and Physical Sciences	3 1
Elective	COMM-1010: Fundamentals of Speech Communication	Communication	3
		Total Credits	7
		Total Cumulative Credits	13

3rd Semester			
H.S. Subject	Tri-C Course	A.A. Degree Requirement	College Credits
English	ENG-1020: College Composition II (OT36)	Communication	3
Elective	PSY-1010: General Psychology (OT36) or SOC-1010: Introduction to Sociology (OT36)	Social and Behavioral Sciences	3
		Total Credits	6
		Total Cumulative Credits	19

4th Semester			
H.S. Subject	Tri-C Course	A.A. Degree Requirement	College Credits
Elective	PHIL-1010: Introduction to Philosophy (OT36) or PHIL-2020: Ethics* (OT36)	Arts and Humanities	3
Science	BIO-1040: The Cell and DNA (OT36) or BIO-1050: Human Biology (OT36)	Natural and Physical Sciences	3
		Total Credits	6
		Total Cumulative Credits	25

5th Semester			
H.S. Subject	Tri-C Course	A.A. Degree Requirement	College Credits
English	ENG-2350: British Literature I* (OT36) or ENG-2510: African American Literature* (OT36)	Arts and Humanities	3
Elective/Fine Arts	ART-2020: Art History Survey: Prehistoric to Renaissance* (OT36) or DANC-1100: Dance Appreciation (OT36)	Arts and Humanities	3
Mathematics	MATH-1190: Algebraic and Quantitative Reasoning (OT36) or MATH-1410: Elementary Probability and Statistics I* (OT36) or MATH-1580: Precalculus* (OT36)	Mathematics <i>Course choice dependent on plans for future studies</i>	3+
		Total Credits	9
		Total Cumulative Credits	34

Continued on the back

6th Semester			
H.S. Subject	Tri-C Course	A.A. Degree Requirement	College Credits
Social Studies	HIST-1510: U.S. History to 1877 (OT36) or HIST-1520: U.S. History Since 1877 (OT36)	Social and Behavioral Sciences	3
Social Studies	POL-1010: American National Government (OT36)	Elective	3
Elective/Economics	ECON-2000: Principles of Microeconomics* (OT36) or ECON-2010: Principles of Macroeconomics* (OT36)	Elective	3
		Total Credits	9
		Total Cumulative Credits	43

At this point, the student will have completed all Ohio Transfer 36 requirements and petition to graduate with the OT36 Certificate.**

7th Semester			
H.S. Subject	Tri-C Course	A.A. Degree Requirement	College Credits
Elective	Foreign Language Elective (Level I)	Elective	4
English	ENG-2360: British Literature II* (OT36) or ENG-2520: African American Literature II* (OT36)	Elective	3
Elective/Fine Arts	ART-2030: Art History Survey: Late Renaissance to Present* (OT36)	Elective	3
		Total Credits	10
		Total Cumulative Credits	53

8th Semester			
H.S. Subject	Tri-C Course	A.A. Degree Requirement	College Credits
Elective	Foreign Language Elective (Level II)	Elective	4
Elective/Financial Literacy	FIN-1061: Personal Finance	Elective	3
		Total Credits	7
		Total Cumulative Credits	60

Notes

- *Denotes advanced study course (12 credits required)
- **The Ohio Transfer 36 (OT36) is a subset of courses from the general education requirements of Associate of Arts (AA), Associate of Science (AS) and bachelor's degrees at many institutions. Transfer students with an earned AA or AS degree that contains an identifiable OT36 will have met the requirements of the receiving institution. Generally speaking, the OT36 requirements are the general education requirements for all public colleges and universities in the state of Ohio and will satisfy requirements when transferred to any such institution.
- This document is designed to be a guide and template. Actual academic plans may vary based on student placement/course eligibility and course availability each semester. All students will be required to meet with a Tri-C Academic Counselor to select courses and finalize schedules.
- Students may choose to take coursework over the summer terms when high school is not in session. This is designed to be a flexible program with many options for completion. Taking summer courses may reduce the workload during the academic year and reduce overall time to degree completion.

NOHS Grading Scale

The achievement mark represents the teacher's determination of the degree of the student's mastery of the curriculum, individual teacher requirements, specific course requirements, department guidelines, board and high school policies, and state mandates. The following scale is the standard by which all grades will be calculated unless students are otherwise notified in writing.

Grade	Regular	Assigned Wt. Honors/Advanced	AP	CCP
A+	4.0	4.5	5.0	
A	4.0	4.5	5.0	5.0
A-	3.7	4.2	4.7	
B+	3.3	3.8	4.3	
B	3.0	3.5	4.0	4.0
B-	2.7	3.2	3.7	
C+	2.3	2.8	3.3	
C	2.0	2.5	3.0	3.0
C-	1.7	2.2	2.7	
D+	1.3	1.3	1.3	
D	1.0	1.0	1.0	0
D-	.7	.7	.7	
F	0	0	0	0

Schedule Change and Class Drop Policy

Students are required to take a minimum number of academic credits each school year, as defined in the Course Selection Guide. The student course load includes both required and elective courses, and can include classes at North Olmsted High School, Polaris Career Center, or other educational options such as College Credit Plus. Students schedule their classes with the support of teachers, counselors, administrators, and parents during the registration period. Much time is taken to make certain the decisions made during the registration period are in the best academic interest of the student. Students are urged to choose their course selections thoughtfully and to seek assistance as needed.

Students are given opportunities to review and make changes in their schedules before they are submitted. The student schedule becomes official once it is entered and accepted into the Master Scheduling System. Any changes to schedules have a serious impact on class size, teaching assignments, and the overall operation of the academic program of North Olmsted High School. Students and parents should not plan a schedule with the idea it can be changed, because as a rule, it will not be changed.

Once a schedule is submitted and accepted, it can only be changed without academic consequences under the following circumstances:

1. Academic misplacement as determined and initiated by the teacher
2. A graduation requirement is needed
3. Failure in a prerequisite class
4. Study Hall is dropped to add a class
5. A technical error or an obvious mistake
6. A health issue, requiring documentation by a physician

A student who withdraws from a class for any reason not indicated above and/or not agreed upon by the NOHS administration will receive a grade of F for the duration of the class. The grade of F will be indicated on the student's transcript and will be calculated into the grade point average of the student.

A student who wishes to drop an academic course (including Honors and Advanced Placement) must complete the green schedule change form from the School Counseling Office and obtain teacher and parent signatures. Once the form is complete, it is returned to the school counselor, then turned into NOHS administration for final decision. If the reason for the change is not from the approved list above, the resulting grade will be a failure for the duration of the class.

Note: Courses must have and maintain appropriate student enrollment to be offered. The North Olmsted High School Administration reserves the right to make changes to course offerings as a result of enrollment concerns.

Schedule Change and Impact on Grading

Students may not add a course to their schedule after the completion of the 7th day of school in a semester. This does not apply to course level changes that can occur throughout the year with the approval of a student's counselor, teacher, and administrator. The grade(s) earned-to-date of change follows the student as "grade-in-progress" to the new course. After adding a class, the student is responsible for the work assigned prior to his/her joining the class.

Athletic Sports Eligibility

North Olmsted Student/Athletes must meet OHSA and local North Olmsted school district Board policies in order to be eligible for athletics.

In accordance with the OHSA, to be eligible, a student/athlete must be currently enrolled in school and have received passing grades in a minimum of 5 one-credit courses, or the equivalent, in the immediately preceding grading period. **Freshman in the 1st grading period must have passed a minimum of four courses of all subjects taken in the preceding grading period.**

The North Olmsted Board of Education recognizes the positive values associated with and gains as a result of participation in interscholastic extracurricular activities in grades 7 – 12. Furthermore, the Board of Education understands the importance of participating in interscholastic and extracurricular activities. It believes that these activities enhance success both in and out of the classroom. Therefore, the North Olmsted Board of Education has established minimum grade point average expectations as a part of this policy in order for a student to participate in interscholastic athletics. In order to be eligible in grades 9 – 12, a student must be currently enrolled and must have met the minimum grade point average as indicated below. These standards must be met, as well as the standards of the OHSA in order for a student to be eligible for interscholastic athletics.

Grade and GPA		
9th Grade	Grade Point Average	1.25
10th Grade	Grade Point Average	1.50
11th Grade	Grade Point Average	1.75
12th Grade	Grade Point Average	2.00

OHSA – Senior High School – Summary

Age Limitation:

When a high school student (grades 9-12) turns 20 years of age, he/she becomes ineligible for interscholastic athletics.

Physical Examinations:

OHSA physical exams are required to participate in athletics at NOHS. The physical exam must be performed by a medical examiner and students need to submit the signed OHSA physical form to the high school athletic office. The form must be turned in prior to tryouts. The OHSA form is available on the athletic website.

<https://northolmstedathletics.org>

Grade Point Average:

In order to be eligible in grades nine through twelve, a student must be currently enrolled and must have been enrolled in school the immediately preceding grading period. During the preceding grading period, the student must have received passing grades in a minimum of five one-credit courses or the equivalent, which count toward graduation (OHSA 4-4-1).

Residence:

School residents are all students whose parents or legal guardians are actual residents of the school district in which the school resident is entitled to attend school free. Any modification of this rule is subject to formal action by the district Board of Education and/or Commissioner of the Ohio High School Athletic Association.

A student is eligible at the school located in the Ohio school district where the parent or legal guardian resides when all other eligibility standards are met. If your parent/legal guardian lives outside of Ohio, you are not eligible unless you meet one of the exceptions to the residency bylaws. Where there has been a change of custody, the student must reside in the same school district with the legal guardian.

How Should the NCAA Eligibility Process Work?

The attached guide is helpful for what classes to take and when, as well as the NCAA requirements.

http://fs.ncaa.org/Docs/eligibility_center/Student_Resources/CBSA.pdf

http://fs.ncaa.org/Docs/eligibility_center/Student_Resources/DI_ReqsFactSheet.pdf

http://fs.ncaa.org/Docs/eligibility_center/Student_Resources/DII_ReqsFactSheet.pdf

http://fs.ncaa.org/Docs/eligibility_center/Student_Resources/DIII_Amat.pdf

Grade 9

- Student takes academic college-preparatory courses, preferably one in each of the following areas: English, math, science, social studies and world language. The student should compare their course selection at our school against the list of NCAA-approved core courses.

Grade 10

- Student continues to take academic college-preparatory courses, preferably one in each of the following areas: English, math, science, social studies and world language, and making sure they are on the list of NCAA-approved core courses.
- Student registers with the NCAA Eligibility Center at eligibilitycenter.org.
- At the end of the year, the student contacts the school counseling office asking them to provide their official transcript to the NCAA Eligibility Center.

Grade 11

- The student continues to take college preparatory courses in the areas listed above.
- The student checks with a counselor to make sure he or she will graduate on time with all required NCAA core courses.
- The student takes the ACT or SAT, submitting his or her scores to the NCAA using code 9999 to ensure that the score is reported directly to the Eligibility Center.
- At the end of the year, the student contacts the school counseling office asking them to provide their official transcript to the NCAA Eligibility Center.

Grade 12

- Student finishes last NCAA core courses.
- Student takes the ACT or SAT again, if necessary, submitting his or her scores to the NCAA using code 9999.
- After April 1, the student goes back into their Eligibility Center account to update their academic and amateurism information and requests a final amateurism certification decision from the NCAA Eligibility Center.
- After graduation, the student contacts the school counseling office asking them to provide their final official transcript with proof of graduation to the NCAA Eligibility Center.

Make sure to check the specific criteria for Division I and Division II on the NCAA Eligibility Center website www.eligibilitycenter.org

Approved core-course list

Students should verify the classes they are taking to ensure they are on the approved core-course list. If a student has a question, they should contact their school counselor and the NCAA Eligibility Center.

Important Information Regarding Nontraditional Courses

The rules regarding software-based credit recovery, virtual, online, independent study and correspondence courses have changed. These types of courses, which are identified by the NCAA Eligibility Center as nontraditional courses, must meet new guidelines in order to be used for college-bound student-athletes who are planning to attend an NCAA Division I or II college or university. Please visit the www.eligibilitycenter.org to view a school/program's List of NCAA Courses

NCAA LIST OF APPROVED CORE COURSES

ENGLISH	SOCIAL STUDIES	MATH	SCIENCE	ADDITIONAL CORE
*English 9 *Hon English 9 *English 10 *Hon English 10 *English 11 *Hon English 11 *AP English Language and Composition *English 12 *Hon English 12 *AP English Literature and Composition *CCP College Comp I - 1010 *CCP College Comp II - 1020	*US History *Hon US History - 1510 *CCP US History - 1520 *AP US History *Govt & Economics *Hon Govt & Economics *AP Govt & Politics *Psychology *Hon Psychology *AP Psychology *Sociology *Great Religions *History & Politics of Community *Modern World History *Honors Modern World History	*Algebra 1 *Geometry *Hon Geometry *Algebra 2 *Hon Algebra 2 *Algebra/Trig *Transition to College Math *AP Precalculus *Hon Calculus *AP Calculus AB *AP Calculus BC *AP Computer Science Principles *Introductory Statistics *Quantitative and Qualitative Math	*Environmental Science *AP Environmental Science *Physical Science *Physical Geology *Hon Biology *AP Biology *Chemistry *Hon Chemistry *CCP Chemistry *AP Chemistry *Physics *Hon Physics *AP Physics I *AP Physics C *Anatomy & Physiology *Honors Anatomy & Physiology	*French I *Hon French I *French II *Hon French II *French III *Hon French III *French IV *Hon French IV *Spanish I *Hon Spanish I *Spanish II *Hon Spanish II *Spanish III *Hon Spanish III *Spanish IV *Arabic I *Arabic II *Honors Arabic II *Arabic III *Honors Arabic III *Arabic IV *Honors Arabic IV *CCP Arabic IV

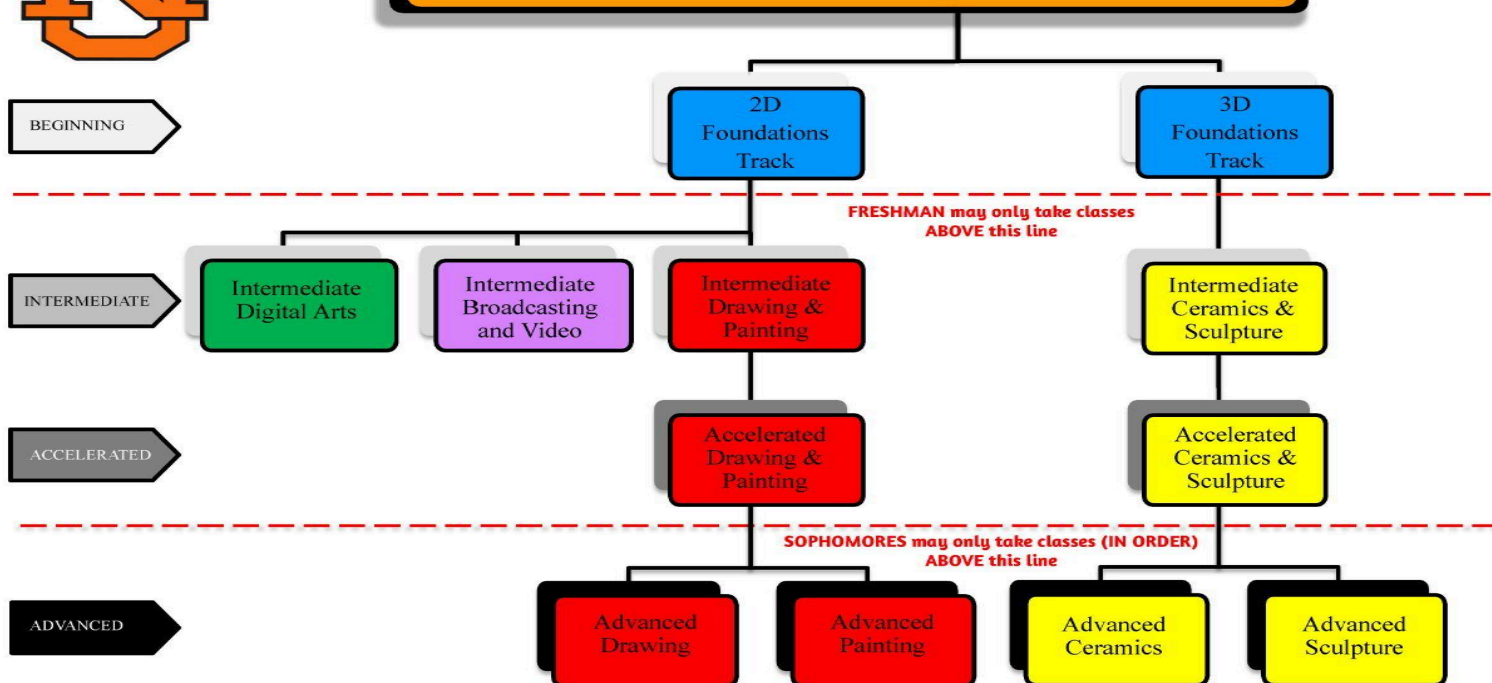
NCAA LIST OF NON-APPROVED CORE COURSES

Dramatic Reading I - Dramatic Reading II - Intro to Communication - Service Learning

Fine and Performing Arts



NOHS FINE ART COURSES



JUNIORS may take any level course, but Juniors are required to have at least four (4) Art credits before moving on to any Advanced Level course (Ideally would have three (3) classes from one column, and at least one from another column before they could continue on). Therefore, no student can be in an Advanced level class prior to the start of their Junior year. They must also meet the prerequisites with their letter grades for the courses before moving on. (see course descriptions)

Students will be able to take Advanced level courses multiple times. Advanced level courses are a combination of Juniors and Seniors and will have different levels (or tracks) built in, including honors designations at the same level. Advanced students taking an Advanced class more than once will complete different projects and assignments.

Revised Jan. 2025

- All art courses are semester length courses.
- 2D or 3D Foundations **MUST** be taken before a student can progress into the Intermediate level of the next course. No Freshman can take an Intermediate level course.
- Courses must be taken in the proper – connected – order (see flowchart). No prerequisites may be skipped.
- Only Juniors and Seniors may enroll in Advanced Level courses
- Students must have a “C” or better in their Intermediate Art Course to take an Accelerated Course.
- Students must have a “B” or better in their Accelerated Art Course to take an Advanced Course.

- **Advanced level course can be taken multiple times junior AND senior year**
- **Honors credit can be earned in all courses. To earn honors credit students will be required to do additional research, projects and writing outside of class.**

Advanced Level courses:

Advanced Level courses can be taken multiple times. The advanced courses have different levels built in so students can continue to progress in their chosen area.

JUNIORS may take any level course, but Juniors are required to have at least four (3) art credits before moving to any **Advanced Level** course.

*Ideally, one would have three (3) courses from one column, and at least one from another column before they could continue. Therefore, no student would be in an **Advanced Level** class prior to the start of their Junior year.*

Honors Credit:

Honors credit can be earned in all courses. Students wishing to earn honors credit must have a minimum 3.00 GPA and a recommendation from a teacher in a core subject area (English, Science, Social Studies, or Math). Students will be required to complete additional coursework in order to earn honors credit. The additional coursework will include researching, writing, creating, and exploring materials in greater depth. Students will be required to complete challenges that will require written essays along with performance/presentation based products. The challenges will be tied to the areas of 6 Science, History, Math, Literature, Cultural, and Art Production. (note: Students will not be permitted to retake a course under the honors designation if they have already taken the course.)

2D FOUNDATIONS

Grade	9TH – 12TH	Credit	.50 credit
Course Number	000001A	Length of Course	Semester
Prerequisite	None		

HONORS 2D FOUNDATIONS - W

Grade	9TH – 12TH	Credit	.50 credit
Course Number	000001B	Length of Course	Semester
Prerequisite	3.00 GPA and recommendation from a teacher in a core subject		

2-D Foundations is a semester-long introductory course that explores the elements and principles of 2-D art and design. This course emphasizes 2-D drawing, painting and design, using a variety of media and techniques introduced throughout the year. Color theory, as well as the Elements of Art and Principles of design will be stressed. Media may include pencils, pen and ink, charcoal, colored pencils, markers, and a variety of paints. The course includes studio production, art history, and art criticism. 2-D Foundations is a prerequisite for the 2-D track of high school art courses. **A course fee is required.**

3D FOUNDATIONS

Grade	9 TH – 12 TH	Credit	.50 credit
Course Number	000002A	Length of Course	Semester
Prerequisite	None		

HONORS 3D FOUNDATIONS - W

Grade	9 TH – 12 TH	Credit	.50 credit
Course Number	000002B	Length of Course	Semester
Prerequisite	3.00 GPA and recommendation from a teacher in a core subject		

Foundations is a semester-long introductory course that explores the elements and principles of 3-D art and design. This course emphasizes a variety of materials in the production of 3-D studio work. A variety of media and techniques will be introduced throughout the year. Media included may be pencils, wood, paper mache, paints, clay, plaster, glazes, and a craft (tie-dye, weaving, jewelry, etc.) The course includes studio production, art history, and art criticism. 3-D Foundations is a prerequisite for the 3-D track of high school art courses. **A course fee is required.**

INTERMEDIATE DRAWING & PAINTING

Grade	10 TH – 12 TH	Credit	.50 credit
Course Number	000006A	Length of Course	Semester
Prerequisite	Grade of C or higher in 2D Foundations & teacher recommendation		

HONORS INTERMEDIATE DRAWING & PAINTING - W

Grade	10 TH – 12 TH	Credit	.50 credit
Course Number	000006B	Length of Course	Semester
Prerequisite	Honors designation requires 3.00 GPA and recommendation from a teacher in a core subject		

This semester-long course is designed for students who want to continue exploring drawing and painting as a means for creative expression and communication. Students will develop strong observational skills and understanding of the elements and principles of design. Strong emphasis will be placed on visual perception and creative thought. Materials used will consist of graphite, charcoal, ink, watercolor, and acrylics among others. The course will also explore artwork by past masters and contemporary artists in connection with studio projects. Students will learn to critique their own artwork and the work of others. **A course fee will be required, and students may need to purchase additional materials such as a sketchbook.**

ACCELERATED DRAWING & PAINTING

Grade	10 TH – 12 TH	Credit	.50 credit
Course Number	000006C	Length of Course	Semester
Prerequisite	Grade of C or higher in Intermediate Drawing & Painting & teacher recommendation		

HONORS ACCELERATED DRAWING & PAINTING - W

Grade	10 TH – 12 TH	Credit	.50 credit
Course Number	000006D	Length of Course	Semester

Prerequisite Honors designation requires 3.00 GPA and recommendation from a teacher in a core subject

In this semester-long class students will begin to further explore techniques in drawing, painting and printmaking. More in depth projects will be used to foster student's technical skills, creative thought, and understanding of the elements and principles of design. Materials used will consist of ink, charcoal, pastels, graphite, acrylic, watercolor and collage/mixed media among others. The course will also further explore artwork that is both by past masters and contemporary artists in connection with studio projects. Participation in individual critique, group critique and discussion is encouraged and sometimes required. **A course fee will be required, and students may need to purchase additional materials.**

ADVANCED DRAWING

Grade	11 TH – 12 TH	Credit	.50 credit
Course Number	000007A	Length of Course	Semester
Prerequisite	Grade of B or Higher in Accelerated Drawing & Painting and teacher recommendation		

HONORS ADVANCED DRAWING - W

Grade	11 TH – 12 TH	Credit	.50 credit	Course
Number	000007B	Length of Course	Semester	
Prerequisite	3.00 GPA and recommendation from a teacher in a core subject			

In this semester-long class, students will develop a more advanced command of technical drawing skills. This class teaches the student how to accurately see and record objects on paper and other drawing mediums from the world around them while pursuing more thematic depth and complexity in their work. Drawing techniques are taught through a variety of media such as graphite, pastels, charcoal, conté, artist markers, ink, and pastel among others. Additional advanced application of materials will be covered. Students will have the opportunity to expand on printmaking techniques that were introduced at the Accelerated Level. Students will have the opportunity to self-select media and be expected to demonstrate a level of discipline and motivation to meet deadlines. Exploration of personal artistic interest and intent is a major component of the course. Participation in individual critique, group critique and discussion is expected. **A course fee will be required, and students may need to purchase additional materials. Students are permitted to take advanced courses multiple times, choosing a different emphasis for study each semester.**

ADVANCED PAINTING

Grade	11 TH – 12 TH	Credit	.50 credit
Course Number	000008A	Length of Course	Semester
Prerequisite	Grade of B or Higher in Accelerated Drawing & Painting and teacher recommendation		

HONORS ADVANCED PAINTING - W

Grade	11 TH – 12 TH	Credit	.50 credit
Course Number	000008B	Length of Course	Semester
Prerequisite	Honors designation requires 3.00 GPA and recommendation from a teacher in a core subject		

In this semester-long class, students will develop a more advanced command of technical painting skills. This class teaches the student how to accurately see and record objects on canvas and other paintable surfaces from the world around them while pursuing more thematic depth and complexity in their work. Painting techniques are taught through a variety of media such as oils, acrylics, watercolors, etc. Additional advanced application of materials will be covered. Students will have the opportunity to expand on printmaking techniques that were introduced at the Accelerated Level. Students will have the opportunity to self-select media and be expected to demonstrate a level of discipline and motivation to meet deadlines. Exploration of personal artistic interest and intent is a major component of the course. Participation in individual critique, group critique and discussion is expected. **A course fee will be required, and students may need to purchase additional materials. Students are permitted to take advanced courses multiple times, choosing a different emphasis for study each semester.**

INTERMEDIATE BROADCASTING & VIDEO

Grade	10 TH – 12 TH	Credit	.50 credit
Course Number	000020A	Length of Course	Semester
Prerequisite	Grade of C or higher in 2D Foundations & Art teacher recommendation		

HONORS INTERMEDIATE BROADCASTING & VIDEO - W

Grade	10 TH – 12 TH	Credit	.50 credit
Course Number	000020B	Length of Course	Semester
Prerequisite	3.00 GPA and recommendation from a teacher in a core subject		

This introductory course deals with the basics of video production and broadcasting. Students will learn the basics of videography as they shoot, import, edit, and export videos in an online video editor. The course will explore investigative reporting, storyboarding, creating funny and informative videos and script writing. Students enrolled in this class will produce and broadcast segments for the ENN school announcements. Rules and ethics of journalism, as well as copyright and fair use of images will be examined in this course. Students will be required to supply their own headphones. **A course fee will be required.**

INTERMEDIATE DIGITAL ARTS

Grade	10 TH – 12 TH	Credit	.50 credit
Course Number	000009A	Length of Course	Semester
Prerequisite	Grade of C or higher in 2D Foundations & Art teacher recommendation		

HONORS INTERMEDIATE DIGITAL ARTS - W

Grade	10 TH – 12 TH	Credit	.50 credit
Course Number	000009B	Length of Course	Semester
Prerequisite	Honors designation requires 3.00 GPA and recommendation from a teacher in a core subject		

This introductory course deals with the basics of still photography as well as utilizing computer technology to produce an artistic images and design digital creations. This course uses a web-based digital platform to present lessons and information on-line in a blended learning classroom. Students can view lessons and information on-line and then work on assignments in class with the teacher available as a resource for assistance if needed. Students will learn how to manipulate an image using camera controls, and how to enhance and alter the image with Photoshop. This course will emphasize digital camera use, image manipulation, graphic design, visual literacy, and the principles and elements of art in composition. This course is a prerequisite for both the Photography and Digital Arts tracks. Digital SLR cameras will be provided for this course. Students will be required to get a parent/guardian signature for permission to utilize the Art Dept. websites prior to utilizing class computers. **A course fee will be required.**

Music Department

HONORS CREDIT can be earned in many of the Music courses. Students wishing to earn honors credit must have a minimum 3.00 GPA, an honors recommendation from a teacher in a core subject area (English, Science, Social Studies, or Math), and audition. Students will be required to complete additional coursework in order to earn honors credit. In addition to the responsibilities associated with the course, students will go above and beyond performance standards by analyzing, composing and improvising musical concepts. Critical thinking skills are required. Course grades are derived from performances, research reports, skill assessments and student directed assignments.

ORCHESTRA

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000052 000053	Length of Course	Year
Prerequisite	Teacher recommendation		

HONORS ORCHESTRA - W

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000052A 000053A	Length of Course	Year
Prerequisite	Honors recommendation required (see above)		

This course affords string players (Violin, Viola, Cello, Bass) the opportunity to perform standard works of orchestra repertoire to high standards of excellence. Standard works of music serve as a text for the orchestra supplemented by group instruction. Members are expected to attend all rehearsals and performances of the orchestra as well as all concerts

CONCERT BAND/MARCHING BAND (FALL)

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000054 000055	Length of Course	Year
Prerequisite	Head Director recommendation		

HONORS CONCERT BAND/MARCHING BAND (FALL) - W

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000054A 000055A	Length of Course	Year
Prerequisite	Honors recommendation required (see above)		

This course affords students who play, wind or percussion instruments to have an opportunity to have experience learning standard works for marching and concert band . In order to receive the head director's recommendation, students must either participate in a middle school band program or discuss a plan of action to be playing ready for the next school year.

The course reviews the fundamentals of playing and musicianship. Standard works of the band repertoire will be used as the text. Members of Concert Band are members of Marching Band or Eaglets during football season and are to be at all rehearsals and performances of both groups. Students will be requested to attend all outside of school time rehearsals including rehearsals in the Summer. Marching band exemptions can be sought out through a discussion with the directors.

CONCERT CHOIR

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000060 000061	Length of Course	Year
Prerequisite	None		

Concert Choir is a non-auditioned choir open to all students' grades 9-12. This group focuses on the basics of singing through a wide variety of styles, including barbershop, jazz, gospel, popular and classical. Concert Choir performs at NOHS choir concerts and may perform at OMEA large group contests. No previous experience is necessary. A uniform fee is required.

HONORS SYMPHONIC CHORALE - W

Grade	10 TH – 12 TH	Credit	1.00 credit
Course Number	000069A 000069B	Length of Course	Year
Prerequisite	Honors recommendation required (see previous page)		

Symphonic Chorale, the premiere concert choir at North Olmsted High School, is composed of mixed voices, divided into Soprano, Alto, Tenor, and Bass, and is for students capable of performing the most challenging choral literature. Students selected for enrollment in Symphonic Chorale are expected to attend and participate in all scheduled functions including OMEA large group contest. Audition packets for entrance into the year-long class will be made available in the spring. A uniform fee is required.

“SPECIAL EDITION”

Grade	10 TH – 12 TH	Credit	1.00 credit
Course Number	000064 000065	Length of Course	Year
Prerequisite	Enrollment by Audition		

Special Edition is a small, auditioned vocal ensemble that sings popular music in an unaccompanied style.

This group sings on microphones with limited choreography and the singers must be the highest order of vocal musicians. Students should have experience in traditional music ensembles or Coming Attractions. Audition packets as well as rehearsal schedules for this class will be made available in the spring. Students will be required to attend practices and performances outside of school hours.

It is highly suggested and encouraged that students in this class are also a part of Concert Choir or Symphonic Chorale. If not, students MUST be in another MUSIC ensemble (band/orchestra included). An equipment fee is required.

“COMING ATTRACTIONS”

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000066 000067	Length of Course	Year
Prerequisite	Enrollment by Audition		

Coming Attractions is a small, auditioned vocal ensemble that sings popular music in an unaccompanied style.

This group sings on microphones with limited choreography and the singers must exhibit an advanced vocal and musical ability. Audition packets as well as rehearsal schedules for this class will be made available in the spring. Students will be required to attend practices and performances outside of school hours.

It is highly suggested and encouraged that students in this class are also a part of Concert Choir or Symphonic Chorale. If not, students MUST be in another MUSIC ensemble (band/orchestra included). An equipment fee is required

Dramatic Arts Electives

DRAMATIC READING I

Grade	9 TH – 12 TH	Credit	.50 credit
Course Number	000071	Length of Course	Semester
Prerequisite	English teacher recommendation		

“All the world’s a stage” and most of us would like our chance to perform in front of an audience. This course introduces students to basic acting techniques. Students will present projects, which will stress both vocal and physical skills, which are essential for actors. The course is composed of both individual and group projects which involve the creation of original scenes to perform as well as short scenes from plays which must be memorized. Students will also be introduced to several areas of technical theater and will complete projects to demonstrate basic understanding of: costuming, scenic design, and stage lighting, and script reading. For the final class project, students will work in production groups to produce a short play for the class and invited guests. Good memorization skills are essential to be successful in this class.

DRAMATIC READING II

Grade	10 TH – 12 TH	Credit	.50 credit
Course Number	000072	Length of Course	Semester
Prerequisite	B in Dramatic Reading I and recommendation from Dramatic Reading I teacher		

This course is designed for students who have been successful in Dramatic Reading I who would like to refine their acting skills and expand their knowledge about dramatic literature. Students will work in small groups each day and choose from a variety of projects, which focus on comic acting, dramatic acting, and pantomime. Performance of classic scenes from major historical periods will be emphasized. Students will also be able to select individual projects to expand their knowledge in design areas such as: scene painting, costuming, lighting and sound, script reading, and stage makeup, and to explore special topics such as musical theatre, theatre management, playwriting, and directing. (Students may take this course a second time for an additional .5 credit with the permission of the instructor, but not during the same school year as Dramatic Reading II.)

INTRO. TO COMMUNICATION

Grade	9 TH – 12 TH	Credit	.50 credit
Course Number	000073	Length of Course	Semester
Prerequisite	English Teacher Recommendation		

In order to interact effectively with others, it is important to have an understanding of the process of communication and to be able to practice speaking in a comfortable environment. This course will introduce students to the main factors that influence communication with single individuals, within small groups, and in front of a large group (public speaking). Students will learn and practice both oral and nonverbal communication skills by interacting with students in the class as well as through interviews and discussions with adults and students outside the class. Public speaking is a major component as students will practice and improve skills for presentation and speech-making.

NOHIAN

Grade	9 TH - 12 TH	Credit	1.00 credit
Course Number	000009 000010	Length of Course	Year
Prerequisite	Application and teacher selection in the late winter		

This course provides students with experience in desktop publishing to produce the yearbook. This course involves some work outside the regular classroom. Students are involved in every aspect of production, including page design, copywriting, photography, sales, Photoshop, editing, interviewing, and budgeting. Students will be required to take photographs at after-school events, solicit advertisements from local businesses, and sell and distribute yearbooks to the student body. This is a true 21st-century classroom that is student led that requires great organizational skills and commitment to the book's publication

HONORS NOHIAN - W

Grade	10 TH - 12 TH	Credit	1.00 credit
Course Number	000009H 000010H	Length of Course	Year
Prerequisite	Acceptance by the advisors via an application and one year experience in regular NOHIAN		

This course provides students with experience in and exposure to the many intricacies of creating a yearbook that the regular NOHIAN course doesn't. Students will learn what it takes to manage and lead their peers in the publishing world and how to work collaboratively in a journalistic setting. They will learn more deeply our photo editing software and our online design software to digitally produce a yearbook.

They will demonstrate knowledge of graphic design and think creatively when organizing information within the yearbook. In this college and career ready course, students think critically to meet deadlines, track to goals and utilize multimedia to market and

disseminate information that aligns with and models an actual business. Most importantly, students enrolled in this honors course will be the leaders in the regular NOHIAN class period.

Comprehensive Business & Vocational Education

9th Grade	10th Grade	11th Grade	12th Grade
Financial Literacy	Computer Applications	Computer Applications	Computer Applications
Computer Applications	*Introduction to Business	*Introduction to Business	Entrepreneurship
*Introduction to Business	Entrepreneurship	Entrepreneurship	Investing & Product Development
	Investing & Product Development	Investing & Product Development	*Accounting I
	*Accounting I	*Accounting I	*Accounting II
		*Accounting II	Executive Business Management
		Executive Business Management	Multi-Media Marketing
		Multi-Media Marketing	
* Denotes year-long course. All others are a semester.			

Comprehensive Business Education

FINANCIAL LITERACY

Grade	9 TH	Credit	.50 credit
Course Number:	000113	Length of Course	Semester
Prerequisite	None		

The Financial Literacy course is designed to provide students with the knowledge they need to make a lifetime of informed financial decisions in today's fast paced and ever-changing society. Financial responsibility and decision-making, planning and money management, informed consumer, investing, credit and debit, and risk management and insurance will be just some of the topics covered in this semester-long class. These topics will assist students in making the best financial decisions in the present and when planning for a strong financial future.

COMPUTER APPLICATIONS

Grade	9 TH - 12 TH	Credit	.50 credit
Course Number	000151	Length of Course	Semester
Prerequisite	None		

This **semester** course is designed to introduce students to common applications; word processing, spreadsheets, PowerPoint presentations, and Desktop Publishing. Using Microsoft software, students will become aware of the role of each of these applications in society and will have substantial hands-on experience with each. The purpose of these experiences is to enable students to make active use of the applications in other school subjects and in daily living activities. Students will conduct classroom presentations using technology, a preparatory skill for college and work. Additionally, students will focus on improving touch typing keyboarding techniques as they learn to prepare business letters, reports, tables, and other documents.

INTRODUCTION TO BUSINESS

Grade	9 TH - 11 TH	Credit	.50 credit
Course Number	000110	Length of Course	Semester
Prerequisite	None		

Underclassmen are encouraged to begin their exposure to the business curriculum by first taking this semester-long general overview course of business functions. Business ethics, economics, entrepreneurship, management, leadership, human resources, production, and business operations are all areas that are introduced with a practical real-life approach. Students will be able to apply the business curriculum to their lives as it provides practical and real-life knowledge. After discovering your interests while taking the introductory course, students will want to follow up with many of our business courses such as Executive Business Management, Multi-Media Marketing, Entrepreneurship, Accounting and Investing.

ENTREPRENEURSHIP

Grade	10 TH - 12 TH	Credit	.50 credit
Course Number	000136	Length of Course	Semester
Prerequisite	None		

Students who are interested in starting or owning their own business and learning the complexities of operating a business will benefit from this semester course. You will study the various types of business ownership, where to begin the legal process, study the characteristics of effective business management and marketing while integrating theories into actual practice. Through our affiliation with Junior Achievement's Applied Economics program, the class will form a mini-corporation. To raise capital you will sell stock, elect officers, run board meetings, select and market a product, as well as keep the financial records for the company and stockholders. ****If you are a sophomore and have not taken Intro to Business, it is recommended that you take Intro to Business prior to this course.***

INVESTING & PRODUCT DEVELOPMENT

Grade	10 TH - 12 TH	Credit	.50 credit
Course Number	000137	Length of Course	Semester
Prerequisite	None		

Did you ever wonder why the American stock market has such an influence on American businesses or why the stock market seems to affect your entire life—as a consumer, employee, investor, and/or business owner? This semester course investigates the American financial system, the American economy and the American stock market and how they operate both nationally and internationally. You will learn the intricacies (ins and outs) of the American stock market while participating in a 10-week Ohio Stock Market Challenge where you will be involved in real-time investing decisions. Additionally, you will be introduced to product development while exploring current business rules and regulations, ethical issues and being introduced to current marketing and e-commerce trends and practices. You will participate in a product development-marketing project that will include creating, designing and marketing a product or service. ****If you are a sophomore and have not taken Intro to Business, it is recommended that you take Intro to Business prior to this course.***

ACCOUNTING I

Grade	10 TH - 12 TH	Credit	1.00 credit
Course Number	000130 000131	Length of Course	Year
Prerequisite	Integrated Math 1 highly recommended		

Accounting is the language of business. Accounting is the recording and planning of all financial activities of a business. The end result is the preparation of meaningful financial reports for managers, investors and owners. This is a hands-on learning process in which accounting records are prepared systematically by following set procedures as we complete multiple financial records on a daily basis.

This course covers both the traditional manual method of accounting as well as more modern automated accounting. This course is highly recommended for all students planning to major in Business at the college level. Learning your accounting fundamentals in high school sets the college Business major up for success in the rigorous accounting curriculum that all Business majors in college must take. Students who plan to venture out into a business of their own or continue the family business also need to learn accounting in order to develop an understanding of the cash flow and financial aspects of their business. **A course fee for a workbook will be required.**

ACCOUNTING II

Grade	11 TH - 12 TH	Credit	1.00 credit
Course Number	000141 000142	Length of Course	Year
Prerequisite	Accounting I		

This year-long course continues to develop accounting knowledge at a more in-depth and advanced level. This course begins with a simulation project in which the student takes on all of the accounting activities of a merchandising business for an entire month of an Accounting business cycle. Advanced concepts such as depreciation methods, uncollectible debt, inventory methods, and automated accounting sub systems are learned.

Accounting I is a prerequisite to this course. Teacher recommendation is required to enroll.

A course fee for a simulation will be required.

MULTI-MEDIA MARKETING

Grade	11 TH - 12 TH	Credit	. 50 credit
Course Number	000134	Length of Course	Semester
Prerequisite	None		

Various marketing activities including market research, product design, test marketing, distribution, advertising, and personal sales are explored in this **semester** course. Students will test the validity of the classroom material as they use their knowledge to analyze media promotions, retail pricing policies and customer service used in businesses throughout the community. Market research will be done with the goal of presenting their findings to an organization that will benefit from the results. *The use of digital technology will be employed to create product and service advertisements. Digital photography and video will be used to support marketing campaigns.* Guest speakers and marketing simulations in which students must make decisions regarding price, production, research, and advertising all serve to enhance the student's opportunity to acquire marketing information. Cooperative learning is often used as student groups are representative of the corporate office environment

EXECUTIVE BUSINESS MANAGEMENT

Grade	11 TH - 12 TH	Credit	.50 credit
Course Number	000133	Length of Course	Semester
Prerequisite	None		

Major components of executive business management are presented for study in this semester course. Topics include: planning, organizing, and company goal setting, staffing, directing through motivation and leadership, effective communication, business presentations and etiquette, ethics, social responsibility and business legality. Students will become proficient in professional presentation techniques.

The theory of management is emphasized through text readings, discussions, sharing of business experiences, case studies and community business leader visits and presentations. Reading periodic literature, current events in business, and interviews with executives will help to present a complete picture of the job of a business for both college-bound students and those entering the world of work immediately following high school.

Cooperative Education offers students the opportunity to achieve gainful employment in a field of interest. A variety of experiences in the areas of business and retail allow students to develop marketable skills.

Family and Consumer Sciences

CREATIVE COOKING

Grade	10 TH - 12 TH	Credit	.50 credit
Course Number	000413	Length of Course	Semester
Prerequisite	None		

Learn the basic skills of cooking. This course will teach food safety and sanitation. Students will learn safe equipment use and kitchen safety before engaging in the hands on activity of preparing food. Foods prepared include pancakes, coffee cake, muffins, cookies, pizza, cinnamon rolls, salsa, enchiladas, salads, stir-fry, roux, sushi and chicken parmesan. Students will study healthy eating, diets and eating trends. Nutrition labels and careers in the culinary field will be examined. Students are responsible for any damage caused to equipment provided for this class. **A course fee is required for this course.**

Industrial Technology

9th Grade	10th Grade	11th Grade	12th Grade
Introduction to CAD	Introduction to CAD	Introduction to CAD	Introduction to CAD
CAD II	CAD II	CAD II	CAD II
Home Repair & Maintenance	Home Repair & Maintenance	Home Repair & Maintenance	Home Repair & Maintenance
Honors Design & Manufacturing	Honors Design & Manufacturing	Honors Design & Manufacturing	Honors Design & Manufacturing
	Honors Robotics	Honors Robotics	Honors Robotics
All courses are semester courses			

Industrial Technology

INTRODUCTION TO CAD

Grade	9 TH - 12 TH	Credit	.50 credit
Course Number	000457	Length of Course	Semester
Prerequisite	Integrated Math 1 completed or concurrently enrolled		

If you enjoy designing and creating new things, this class is for you. Introduction to CAD (COMPUTER AIDED DESIGN) is a semester course that exposes students to the world-famous AutoCAD software. Start building skills to prepare for the fields of engineering, design architecture and construction. A variety of activities will be provided to challenge students of varying abilities including a tower designing and building contest. Manual drafting is covered for the first 6 weeks of the course. Students are responsible for any damage caused to equipment provided for this class. **A course fee is required for consumables.**

CAD II

Grade	9 TH - 12 TH	Credit	.50 credit
Course Number	000460	Length of Course	Semester
Prerequisite	Introduction to CAD		

This course is an extension of Introduction to CAD. Emphasis is placed on mastering skills learned in Introduction to CAD. Three-dimensional software is introduced and used for designing projects. Bridge design and construction as well as house construction, architecture and floor plans are covered in CAD II. A Student MUST complete Introduction to CAD to participate in this course. Students are responsible for any damage caused to equipment provided for this class. **A course fee is required for consumables.**

HOME REPAIR AND MAINTENANCE

Grade	9 TH - 12 TH	Credit	.50 credit
Course Number	000451	Length of Course	Semester
Prerequisite	None		

Enrolled students will learn and master skills related to residential repairs. This course will provide future home owners and renters with a tool box full of home maintenance skills and knowledge. A wide range of home construction and maintenance issues will be covered. Home foundation, home framing, roofing installation and repair, electrical safety and repair, plumbing installation and repair will be covered. The design of the course will provide students at all levels a valuable learning experience.

*Home Repair and Maintenance is recommended prior to enrolling in Design and Manufacturing.

HONORS DESIGN AND MANUFACTURING - W

Grade	9 TH – 12 TH	Credit	.50 credit
Course Number	000450H	Length of Course	Semester
Prerequisite	Integrated Math 1		

Honors Design and Manufacturing is a course that will expose students to the skill of Drafting and Design, CAD (Computer Aided Drafting) software, and Manufacturing Machinery. Students will explore structural design of objects in manufacturing and investigate the design and construction process involved. Three-dimensional software will be used to create 3D models. This class will also provide students with project based learning opportunities that include problem solving, design principles, manufacturing techniques, conceptual skills, and processes from conception to completion. Students will have access to a CNC (computer numerical control) machine, Laser Engraver and 3D printer. Software used: AutoCAD and Inventor. The heightened pace of the class will enable students to cover in further detail the concepts covered in Introduction to CAD and CAD II including additional content and activities. Students are responsible for any damage caused to equipment provided for this class. A course fee is required for this course.

HONORS ROBOTICS - W

Grade	10 TH – 12 TH	Credit	.50 credit
Course Number	000466	Length of Course	Semester
Prerequisite	Integrated Math I completed or running concurrently enrolled		

Honors Modular Technology and Robotics is a semester course designed for the student interested in a pre-engineering course of study. This course will expose students to the skills of problem solving, experimentation through software, machinery, mathematics, and robotics. Students will be challenged to complete several modules during the first 9 weeks of the course and will use the learned skills to complete a robotics unit in the second 9 weeks of the course. Students should expect challenging and rigorous academic coursework and projects. Students are responsible for any damage caused to equipment provided for this class.

Modules included in this course:

Robotics, Construction, Hydraulics, Navigation, Bio-Medical, Graphics & Animation, Space, Multimedia, Mechanisms, Computer Maintenance, Automotive, Basic Electricity, Electronics, CNC, Research & Design and Aerodynamics

English

ENGLISH 9 (Fundamental)

Grade	9 TH	Credit	1.00 credit
Course Number	000208 000209	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed for students needing review and reinforcement in the basic skills of reading, writing, spelling, vocabulary development, speaking, and language arts skills as outlined in our Course of Study and Ohio's Learning Standards for English Language Arts. This course is geared for students who are either below or near grade level reading and who need direct reading instruction and intervention. The course will emphasize development of specific reading comprehension skills, practical reading applications, content area reading skills, and study skills. While focusing on reading, this course will also provide the necessary skills and framework in grade level writing instruction. These will include narrative, expository, argumentative, and research writing. Students will be recommended for this course based on reading scores and academic performance.

ENGLISH 9

Grade	9 TH	Credit	1.00 credit
Course Number	000210 000211	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed for students with average abilities in English. The course emphasizes writing skills, usage and grammar, vocabulary development, non-fiction, and literature, with a continuing emphasis on developing reading skills as outlined in our Course of Study and Ohio's Learning Standards for English Language Arts. This course includes a study of short stories, novels, poetry, non-fiction and informational texts, and mythology.

HONORS ENGLISH 9 - W

Grade	9 TH	Credit	1.00 credit
Course Number	000212 000213	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed for students with high proficiency in the language skills of reading, writing, editing, listening, and speaking. It will further develop and refine skills in usage, grammar, vocabulary, and multi-paragraph composition. Students should have strong critical reading, writing, and research skills. Literature study will include classic works and Shakespeare, as well as drama, poetry, and non-fiction. Considerable independent work and numerous projects are required. The course follows the guidelines that are outlined in our Course of Study and Ohio's Learning Standards for English Language Arts. **This course has a summer reading requirement.**

ENGLISH 10 (Fundamental)

Grade	10 TH	Credit	1.00 credit
Course Number	000219 000220	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed for students needing review and reinforcement in the basic skills of reading, writing, spelling, vocabulary development, speaking, and language arts skills as outlined in our Course of Study and Ohio's Learning Standards for English Language Arts. Students who are reading and writing below grade level and who need direct reading instruction, as well as students who need intervention, should take this course. Development of specific reading comprehension skills, practical reading applications, content area reading skills, and study skills are emphasized. A research paper will be required. Students will be recommended for this course based on reading scores and academic performance.

ENGLISH 10

Grade	10 TH	Credit	1.00 credit
Course Number	000221 000222	Length of Course	Year
Prerequisite	Teacher recommendation		

This literature and composition course is structured for students with average proficiency in language skills as outlined in our Course of Study and Ohio's Learning Standards for English Language Arts. It emphasizes the critical reading of fiction, nonfiction, drama, and poetry. In addition, writing skills, grammar, and vocabulary development will be stressed. The student will continue to develop general English proficiencies. A variety of composition styles – including personal narrative, argumentative, and expository writing – are emphasized. A typed research paper is required.

HONORS ENGLISH 10 - W

Grade	10 TH	Credit	1.00 credit
Course Number	000223 000224	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed for the student who has **high proficiency** in English skills and who can work well independently. It emphasizes a concentrated approach to the critical analysis and interpretation of fiction, nonfiction, and poetry. Contemporary and classic literature, including Shakespeare, will be studied. The course reinforces and expands the process of writing through extensive essay assignments and projects. The principles of exposition are also emphasized as outlined in our Course of Study and Ohio's Learning Standards for English Language Arts. A focus on grammar and vocabulary development will be included, and advanced research skills will be reinforced. A typed research paper will be required. **This course has a summer reading requirement.**

ENGLISH 11(Fundamental)

Grade	11 TH	Credit	1.00 credit
Course Number	000229 000230	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed for students needing review and reinforcement in language skills. Students who are reading and writing below grade level and who need direct reading instruction, as well as students who need intervention, should take this course. Development of specific reading comprehension skills, practical reading applications, content area reading skills, communicative skills and study skills are emphasized using a data driven reading program outlined in our Course of Study and Ohio's Learning Standards for English Language Arts. A typed research paper will be required.

ENGLISH 11

Grade	11 TH	Credit	1.00 credit
Course Number	000231 000232	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed for students with average proficiency in language skills as outlined in our Course of Study and Ohio's Learning Standards for English Language Arts. The student will continue to develop general English proficiencies. A variety of composition styles – including personal narrative, argumentative, and expository writing – are emphasized. The literary focus is American literature, and non-fiction, poetry, and drama. A typed research paper will be required.

HONORS ENGLISH 11 - W

Grade	11 TH	Credit	1.00 credit
Course Number	000234 000235	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed for the student with high proficiency in language skills who can work and read independently. It emphasizes the critical analysis and interpretation of American literature--including fiction, drama, poetry, and nonfiction--as outlined in our Course of Study and Ohio's Learning Standards for English Language Arts. This course expands the writing process through extensive essay assignments, as well as a formal research paper.

AP LANGUAGE & COMPOSITION - W

Grade	11 TH - 12 TH	Credit	1.00 credit
Course Number	000236A 000236B	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed to engage students into becoming skilled readers of prose written in a variety of rhetorical contexts, and into becoming skilled writers who compose for a variety of purposes. Through reading and writing, students will become aware of the interactions among writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. **This course has a summer reading requirement.**

ENGLISH 12 (Fundamental)

Grade	12 TH	Credit	1.00 credit
Course Number	000240 000241	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed for the students needing review and reinforcement of English skills for entrance into the work world immediately after graduation. Students who are reading and writing below grade level and who need direct reading instruction, as well as students who need intervention, should take this course. Development of specific reading comprehension skills, practical reading applications, content area reading skills, and study skills are emphasized using a data driven reading program outlined in our Course of Study and Ohio's Learning Standards for English Language Arts

ENGLISH 12

Grade	12 TH	Credit	1.00 credit
Course Number	000242 000243	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed for students who have achieved average grades in past English courses. It emphasizes a study of how writers use different styles to deal with various universal themes in literature. As part of the literature study, students refine critical reading skills and review composition skills as outlined in our Course of Study and Ohio's Learning Standards for English Language Arts. British and world authors will be studied and the historical background of important literary periods will be considered. The course prepares students for college work as well as for life and the pursuit of a career.

HONORS ENGLISH 12 - W

Grade	12 TH	Credit	1.00 credit
Course Number	000244 000245	Length of Course	Year
Prerequisite	Teacher recommendation		

This course is designed for students with **high proficiency** in language skills. It will further develop and refine skills in sentence structure, English usage, mechanics, and paragraph and short-essay construction as outlined in our Course of Study and Ohio's Learning Standards for English Language Arts. Emphasis will be on organizing and developing a variety of coherent essays of the type students will be asked to produce in college. Intensive writing will gradually lead into more sophisticated essays based on critical reading of literature. Literature study will include non-fiction, classic works of the world, Shakespeare, and other British writers.

AP LITERATURE AND COMPOSITION - W

Grade	11th or 12th	Credit	1.00 credit
Course Number	000248 000249	Length of Course	Year
Prerequisite	3.5 average in all previous English Classes and teacher recommendation		

Advanced Placement Literature and Composition serves the interest of eleventh or twelfth-grade students who wish to pursue college-level study while still in secondary school. Students will be involved in both the study and practice of literature and writing. Through speaking, listening, and reading, but chiefly through their own experience of writing, students will become more aware of the resources of language: connotation, metaphor, imagery, syntax, and tone. Writing assignments will focus on the critical analysis of literature. In addition to rigorous writing assignments, students will be engaged in the careful reading of literary works. They will develop critical standards for the independent appreciation of any literary piece, and they will increase their sensitivity to literature as a shared experience. Students are expected to take the AP exam in May. **This course has a summer reading requirement.**

COLLEGE COMPOSITION I (CCP ENG 1010) - W

Grade	ALL	Credit	3.00 CCP 1.00 NOHS Credit
Course Number:	000270CCP	Length of Course	Semester
Prerequisite:	Appropriate Accuplacer Test Score and Teacher Recommendation		

This will be a College Credit Plus course taught at North Olmsted High School by a North Olmsted teacher. All students will be dual enrolled at Tri- C. This course focuses on the study and practice in academic writing; reading and interpretation of selected texts. Course may be thematically organized. Prerequisite(s): Appropriate placement test score (Accuplacer, ACT, SAT). Course Requirements: By the end of their first writing course, students will have written a variety of texts with opportunities for response and revision and a minimum of 5000 total words (roughly 20 total pages of written work). Electronic or other projects of equivalent rigor and substance may be included, but the primary focus of the course must be the composing of formal written work. (3 semester hours).

COLLEGE COMPOSITION II (CCP ENG 1020) - W

Grade	12 th	Credit	3.00 CCP 1.00 NOHS Credit
Course Number:	000271CCP	Length of Course	Semester
Prerequisite:	CCP ENG 1010 and Teacher Recommendation		

This course focuses on the study and practice of persuasive and argumentative writing with emphasis on analysis and research; reading and interpretation of selected texts. Course may be thematically organized. The second course in composition may take several forms. For example, it might be a continuation of the first course (such as the second of two first-year composition courses), an intermediate course in written exposition, or a writing-intensive course that is aligned with a specific discipline. However it is conceived, the course should build on the foundations of the first course, developing and expanding concepts and practices that were introduced in the first writing course. It must be a course that focuses on instruction in writing and must meet the following outcomes. **Course Requirements:** By the end of their second writing course, students will have written a variety of texts, including at least one researched essay, with opportunities for response and revision, and a minimum of 5000 total words (roughly 20 total pages of written work). Electronic or other projects of equivalent rigor and substance may be included, but the primary focus of the course must be the composing of formal written work. (3 semester hours)

CREATIVE WRITING

Grade	11 TH - 12 TH	Credit	.50 credit
Course Number	000250	Length of Course	Semester
Prerequisite	Teacher recommendation		

This course is designed for students who have an interest in creative writing, whether it be poetry, fiction, or drama. The course guides students in the development of their own unique style and voice, while at the same time focusing on writing polished pieces of work to be shared with their peers and on occasion with the larger school community. This course includes a study of published poets, fiction writers, and dramatists, who will serve as role models to inspire students and to provide examples of what great writing looks like. The course also frequently utilizes peer evaluation, as the course will be structured as a workshop, encouraging students to help each other revise and edit their work.

READING ELECTIVE

Grade	9 TH - 12 TH	Credit	.25 credit
Course Number	000200	Length of Course	Semester
Prerequisite	Scores and teacher recommendation		

The objective of the course is to enable students to strengthen comprehension of instructional level and grade-level reading materials. Students will achieve this by applying skills and strategies designed to increase decoding skills to improve reading rate, comprehension, and fluency. They will read multiple genres to include American literature such as reading selected stories, dramas, and poetry. This course focuses on learning and applying comprehension strategies to better understand text.

READING FOUNDATIONS

Grade	9 TH - 12 TH	Credit	.50 credit
Course Number	900207 900208	Length of Course	Semester
Prerequisite	Scores and teacher recommendation		

This course is designed to remediate weaknesses in foundational reading skills so that students are able to effectively decode words and comprehend text. Students will work on developing the following skills: building phonemic awareness and phonics skills to include identifying and manipulating speech sounds, attend to sound-symbol relationships, spelling accuracy, accurate letter, word and text reading, vocabulary development, and text comprehension strategies through the use of a multisensory learning education program. Each student works toward mastery of these skills at their own pace.

Health & Physical Education

INTRODUCTION TO WELLNESS & SPORT

Grade	9 TH	Credit	.25 credit
Course Number	000906	Length of Course	Semester
Prerequisite	None		

This will be a mandatory class for all students newly enrolled in Physical Education. Students will learn how to develop and maintain a healthy lifestyle. Students will be exposed to various activities that will improve their cardiovascular health and overall well-being. The emphasis of this class will be to encourage students to find what fitness strategies work for them. Students will participate in a wide variety of activities including the PACER test, Cooper Test, One Mile Walk test, as well as many strength training assessments. Students will also learn to set goals, and strive to develop techniques that will allow them to maintain a certain level of fitness for the rest of their lives. Students will have a chance to participate in various team sports, and lifetime activities so they can see which avenue they would like to choose when selecting future PE courses. Uniform fee required.

TEAM SPORTS & COMPETITIVE GAMES

Grade	10 th - 12 th	Credit	.25 credit
Course Number	000910	Length of Course	Semester
Prerequisite	Intro to Wellness or teacher recommendation		

Students who take this course will participate in various team sports and other games. Sports may include: soccer, flag football, volleyball, basketball, softball, and team handball. Students will receive proper instruction and be asked to utilize the basic fundamental skills associated with each sport. This course will also encourage students to participate in a competitive nature while having fun at the same time. This course will also emphasize the importance of teamwork, fair play, and sportsmanship. Safety, rules, and strategies of the games are heavily emphasized. This course can fulfill a student's second semester of Physical Education requirement or can be taken as an elective. Students will be assessed according to the state standards of Ohio.

INDIVIDUAL SPORTS & LIFETIME ACTIVITIES

Grade	10 th - 12 th	Credit	.25 credit
Course Number	000911	Length of Course	Semester
Prerequisite	Intro to Wellness or teacher recommendation		

Students who enroll in this course will participate in a wide variety of individual and recreational sports. Activities may include: tennis, pickleball, badminton, golf, table tennis, bowling, and fitness for life. Students will gain skill acquisition required for each activity and an understanding of basic strategy and rules that apply. Students will identify and utilize various individual activities that will allow them the opportunity to maintain a high level of health and wellness throughout a lifetime. This course can fulfill a student's second semester of Physical Education requirement or can be taken as an elective. Students will be assessed according to the state mandates of Ohio.

FITNESS AND FLEXIBILITY

Grade	10 th - 12 th	Credit	.25 credit
Course Number	000905	Length of Course	Semester
Prerequisite	Intro to Wellness or teacher recommendation		

This Physical Education elective is participatory in nature and will emphasize the importance of quality fitness and self-awareness of individual fitness. Students will be introduced to activities including, but not limited to Yoga, Zumba, Pilates, Aerobics, Dance, Stretching, and Strength Training. This course requires a very high level of active participation. Students will be required to purchase their own yoga mat. This course can fulfill a student's second semester of Physical Education requirement or can be taken as an elective. Students will be assessed according to the state standards of Ohio.

PLYOMETRICS, AGILITY, AND WEIGHTS (PAW)

Grade	10 th - 12 th	Credit	.25 credit
Course Number	000913	Length of Course	Semester
Prerequisite	Intro to Wellness or teacher recommendation		

This Physical Education course is meant to stress the importance of personal health and fitness through participation in weight training, plyometrics, cross fit, resistance training, etc. This course is intended to improve the students' balance, coordination, speed, stability, and quickness. In addition, this course will focus on proper training techniques that motivate students to achieve maximum performance while decreasing their risk for injury at the same time. Proper use of equipment and safety techniques are heavily emphasized. This course requires a very high level of active participation.

This course can fulfill a student's second semester of Physical Education requirement or can be taken as an elective. Students will be assessed according to the state standards of Ohio.

LEADERSHIP IN SPORT AND SPORTS ANALYSIS

Grade	11th - 12th	Credit	.50 credit
Course Number	000907	Length of Course	Semester
Prerequisite	Junior or Senior		

Leadership in Sport and Sports Analysis will look at how leaders in sport and their role in running successful athletic programs foster high functioning teams. This course is designed for students possibly interested in the field of coaching, the management and organization of teams in general, or possibly a career in sport analytics. Students will learn guidelines and principles for organizing a successful athletic program. Students will also learn current trends in analytics in sports. Topics include, but are not limited to developing a coaching philosophy, evaluating theories in motivation, understanding team dynamics, communicating effectively, improving player performance, analytics used in various sports, and how coaches use analytics in real game situations. This course will also emphasize an awareness of the demands of the coaching profession and explore issues and ethical considerations significant to coaching.

HEALTH

Grade	10 th	Credit	.50 credit
Course Number	000904	Length of Course	Semester
Prerequisite	None		

This course examines and addresses the health related issues that affect today's growing adolescents. The topics to be addressed will correlate with the various components of health such as: physical, mental, social, emotional, and environmental. A sampling of the topics to be covered include: personal health and habits, human growth and development, relationships, human reproduction, safety, first aid & CPR, chemical use/abuse/prevention, and diseases.

Math

	General/College Bound	Advanced
Freshman Year	Algebra 1 Creative Coding and More 1 and 2(elective)	Honors Geometry Or Honors Algebra 2 Creative Coding and More 1 and 2 (elective)
Sophomore Year	Geometry AP Computer Science Principles (elective) Creative Coding and More 1 and 2 (elective)	Honors Algebra 2 Or AP Precalculus Or AP Stats (elective) AP Computer Science A (elective) AP Computer Science Principles (elective) Creative Coding and More 1 and 2 (elective)
Junior Year	Algebra 2 Quantitative and Qualitative Math Introductory Stats AP Stats (elective) Or AP Computer Science Principles (elective)	AP Precalculus Or AP Calculus AB Or AP Stats (elective) AP Computer Science A (elective)
Senior Year	Algebra/Trig Or Quantitative and Qualitative Math Or Introductory Stats Or Transition to College	Honors Calculus Or AP CalculusAB Or AP Calculus BC Or AP Stats AP Computer Science A

ALGEBRA 1

Grade

9TH – 11TH

Credit

1.00 credit

Course Number

000660A 000660B

Length of Course

Year

Prerequisite

Teacher recommendation

Proficiency with the skills and concepts presented in Algebra 1 is key for success in advanced mathematics courses. The emphasis in Algebra 1 is on functions. Through the study of linear, exponential, and quadratic functions, you will be able to see the structure of functions, to make generalizations about all functions, and to describe unique features of specific functions. You will work with sets of real numbers and apply properties of numbers and equality to simplify and solve various types of situations. Modeling with functions is an important part of the Algebra 1 curriculum. Connections will be made between the algebraic and graphical representations of function. Aligned to Ohio's New Learning Standards in Mathematics for the traditional pathway, the Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. **A scientific calculator is required for this course. A graphing calculator is highly recommended**

GEOMETRY

Grade	10 TH - 12 TH	Credit	1.00 credit
Course Number	000661A 000661B	Length of Course	Year
Prerequisite	Teacher recommendation		

The focus of Geometry is the study of Euclidian Geometry. By studying plane figures both on and off the coordinate grid, students develop an understanding of the structures of geometry. The ability to use postulates, corollaries, and theorems in writing proofs for properties of two-dimensional figures is key to the success of a student in Geometry. The properties of triangles, quadrilaterals, and circles are an important component in the Geometry course. Students use transformations to understand congruence in terms of rigid motions, and similarity in terms of similarity transformations. Geometry looks at the relationships in right triangles to begin developing an understanding of trigonometry and will build on their Algebra 1 skills to expand their knowledge of parabolas. Students will study both two- and three-dimensional figures. Aligned to Ohio's New Learning Standards in Mathematics for the traditional pathway, the Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. **A scientific calculator is required for this course. A graphing calculator is highly recommended.**

HONORS GEOMETRY - W

Grade	9 TH	Credit	1.00 credit
Course Number	000661HA 000661HB	Length of Course	Year
Prerequisite	"B" or better in 8 th grade Algebra 1 and teacher recommendation		

The focus of Honors Geometry is to deepen the students' understanding of geometric relationships and demonstrate this understanding through formal mathematical proofs and arguments. Transformational geometry is a major component of Honors Geometry. Students will use their understanding of dilations and proportional reasoning to build a formal understanding of similarity. Students will develop and apply trigonometric ratios as well as develop equations for non-right triangles. Students will study probability, conditional probability independence, unions and intersections. Angles, arcs, line segments in a circle will be investigated and will be used to develop tools that can help solve problems. Aligned to Ohio's New Learning Standards in Mathematics for the traditional pathway, the Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. **A scientific calculator is required for this course. A graphing calculator is highly recommended**

ALGEBRA 2

Grade	10 TH – 12 TH	Credit	1.00 credit
Course Number	000662A 000662B	Length of Course	Year
Prerequisite	Geometry and teacher recommendation		

Algebra 2 continues the study of functions that was started in Algebra 1. Through the study of specific functions such as linear, exponential, and polynomial functions you will be able to see the structure of functions. You will be able to make generalizations about functions as well as point out their unique features. Algebra 2 will work with various sets of real numbers as well as complex numbers. The applications of properties of numbers and properties of equality will enhance the study of functions and allow students to model a wide range of phenomena. The focus on transforming functions will help build connections between the algebraic and graphical representations of functions. Aligned to Ohio's New Learning Standards in Mathematics for the traditional pathway, the Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. **A scientific calculator is required for this course. A graphing calculator is highly recommended.**

HONORS ALGEBRA 2 - W

Grade	9 TH – 10 TH	Credit	1.00 credit
Course Number	000662HA 000662HB	Length of Course	Year
Prerequisite	“B” or better in Honors Geometry or teacher recommendation		

Honors Algebra 2 is a continuation of the study of functions that were introduced in Algebra 1. This course emphasizes problem solving, reasoning and discovery to cover topics that include functions, linear equations, systems, polynomials, rational expressions, irrational and complex numbers, trigonometric functions, exponential functions, and logarithmic functions. Emphasis is placed advanced operations, solving, graphing, writing equations and systems, and modeling a variety of types of situations. Aligned to Ohio’s New Learning Standards in Mathematics for the traditional pathway, the Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.. **A scientific calculator is required for this course. A graphing calculator is highly recommended.**

TRANSITION TO COLLEGE MATHEMATICS

Grade	12 TH	Credit	1.00 credit
Course Number	000645A 000646B	Length of Course	Year
Prerequisite	Teacher Recommendation/senior status and Algebra 2		

This course is intended to transition the college bound student to the rigor of a college mathematics course. There will be much emphasis placed on problem solving and applications of graphing calculators. Applications from Algebra and Geometry will be reinforced as well as an informal investigation of vectors and matrices and the use of radian measure in terms of acceleration and velocity. **A scientific calculator is required, a graphing calculator is recommended**

INTRODUCTORY STATISTICS

Grade	11 TH - 12 TH	Credit	.50 credit
Course Number	000608	Length of Course	Semester
Prerequisite	Successful completion of the first semester of Algebra 2 or teacher recommendation		

The objective of Introductory Statistics is to promote skills such as collecting and interpreting data. Students will learn the value of statistics in acquiring knowledge and making decisions in today’s society. Computer and project based, this course will introduce students to the process of interpreting categorical and quantitative data, through the topics discussed in this class, students will become critical and thoughtful consumers of information.

QUANTITATIVE AND QUALITATIVE MATHEMATICS

Grade	11 TH - 12 TH	Credit	.50 credit
Course Number	000604	Length of Course	Semester
Prerequisite	Successful completion of the first semester of Algebra 2 or teacher recommendation		

This course will challenge students to think about mathematical concepts and quantities in different ways. Emphasis will be placed on doing, thinking, and talking about mathematics as well as applying the concepts to projects. This course will include topics in Numerical Reasoning, Direct Variation, Systems of Equations and Inequalities, Exponential Functions, and Trigonometry.

ALGEBRA AND TRIGONOMETRY

Grade	11 TH - 12 TH	Credit	1.00 credit
Course Number	000631 000632	Length of Course	Year
Prerequisite	Algebra 2 and teacher recommendation		

This course is intended to prepare the student to study Calculus. Trigonometric concepts from geometry will be reviewed and will then continue into the investigation of trigonometric identities. Other topics discussed will include the introduction of radian measure and operations with vectors and matrices. **There will be some use of a graphing calculator. A scientific calculator is required.**

AP PRECALCULUS - W

Grade	10 TH – 11 TH	Credit	1.00 credit
Course Number	000642A 000642B	Length of Course	Year
Prerequisite	“B” or better in Honors Algebra 2 and teacher recommendation		

Formerly Honors Math Analysis, this is a precalculus course and is designed to prepare the student to take AP Calculus the following year. Included in this course are polynomial and rational functions, exponential and logarithmic functions, trigonometric and polar functions, and functions involving parameters, vectors, and matrices. Students will study aspects of theorems, proofs, and mathematical theory. **Students are expected to take the AP exam in the spring. A graphing calculator is required for the course and is required for this exam.** As an advanced placement course, students should expect a rigorous course with daily homework, individual daily concept review, and an emphasis on practical and theoretical understanding of concepts.

HONORS CALCULUS - W

Grade	11 TH – 12 TH	Credit	1.00 credit
Course Number	000637 000638	Length of Course	Year
Prerequisite	“B” or better in Algebra/Trig and teacher recommendation		

This course reviews elementary functions as well as logarithms and exponentials. It will introduce the student to the concept of limits and the beginning elements of calculus including derivatives and integrals. **Scientific calculators required; graphing calculators strongly recommended.** Students are not expected to take the AP Calculus exam. As an honors level course, students should expect a rigorous course with daily homework, individual daily concept review, and an emphasis on practical and theoretical understanding of concepts.

AP CALCULUS AB - W

Grade	11 TH – 12 TH	Credit	1.00 credit
Course Number	000643 000644	Length of Course	Year
Prerequisite	“B” or better in AP PreCalculus and teacher recommendation		

Calculus AB is the equivalent of a first semester college calculus course. Students will study the concepts of calculus geometrically, numerically, analytically, and verbally. The connections between derivatives, integrals, limits, approximations, and applications will be emphasized. **Students are expected to take the AP exam in the spring. A graphing calculator is required for the course and is required for this exam.** As an AP level course, students should expect a very rigorous course with daily homework, individual daily concept review, and an emphasis on practical and theoretical understanding of concepts. Students are expected to memorize certain identities, theorems, and definitions as well as make connections between concepts. This is a challenging course offered for serious mathematics students.

AP CALCULUS BC - W

Grade	12 TH	Credit	1.00 credit
Course Number	000653 000654	Length of Course	Year
Prerequisite	AP Calculus AB and teacher recommendation		

Calculus BC is an extension of Calculus AB. It is the equivalent of a second semester college calculus course. Students will study advanced calculus topics geometrically, numerically, analytically, and verbally. The connections between derivatives, integrals, limits approximations, applications, polar and parametric equations, and series will be emphasized. **Students are expected to take the AP exam in the spring. A graphing calculator is required for the course and is required for this exam.** As an AP level course, students should expect a very rigorous course with daily homework, individual daily concept review, and an emphasis on practical and theoretical understanding of concepts. Students are expected to memorize certain identities, theorems, and definitions as well as make connections between concepts. This is a challenging course offered for serious mathematics students.

Math Electives

CREATIVE CODING AND MORE 1

Grade	9 th - 10 th	Credit	0.5 credit
Course Number	000619	Length of Course	Semester
Prerequisite	Successful completion of 8 th grade math		

This semester length course introduces students to the basics of mobile computing, coding, and design. Topics covered include creative app design, user interfaces, components, events, internet connections, and other introductory coding basics. We will use MIT App Inventor (a block-based language) to learn to code through tutorials and extend to problem solving and "Apps for Good" social issues. Social impacts of computing (Computational Action) will be woven through the entire course. Students should expect a collaborative, creative, active, project-based learning environment where "learning by doing" is the norm.

CREATIVE CODING AND MORE 2

Grade	9 th - 10 th	Credit	0.5 credit
Course Number	000620	Length of Course	Semester
Prerequisite	Successful completion of 8th grade math and Creative Coding 1		

This course switches attention from mobile apps in a block-based language to web-based app development in a text-based language (Python). This semester length course is based on the idea that learning about coding should be fun and engaging. The problems we solve are visually engaging, allow for multiple correct solutions, and provide visual cues when a solution goes awry. The end of each unit gives students the opportunity to combine the concepts of the unit into an app of their own design. Students should expect a collaborative, creative, active, project-based learning environment where "learning by doing" is the norm. *Students with prior experience in Python should talk to the teacher to ensure this is a good placement.*

AP COMPUTER SCIENCE PRINCIPLES - W

Grade	10 TH - 11 TH	Credit	1.00 credit
Course Number	000160A 000160B	Length of Course	Year
Prerequisite	"B" or higher in both Algebra 1 and English 9		

AP Computer Science Principles is designed to introduce the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world. The course emphasizes three key themes: creativity, the use of technology as a means for solving computational problems and exploring creative endeavor, and a focus on people and society, not just on machines and systems. As an AP level course, students should be expected to have a significant amount of homework.

AP STATISTICS - W

Grade	10 TH - 12 TH	Credit	1.00 credit
Course Number	000635 000636	Length of Course	Year
Prerequisite	May be taken with Algebra 2 or higher and teacher recommendation		

AP Statistics introduces students to the major concepts and tools used in collecting, analyzing, and drawing conclusions from data. Students will be exposed to four broad conceptual themes: (1) Exploring data: (observing patterns and departures from patterns); (2) Planning a study (deciding what and how to measure); (3) Anticipating patterns (producing models using probability and simulation); (4) Statistical inference (confirming models). **Students are expected to take the AP exam in the spring. TI-84, TI-84+, or TI-Nspire calculator is necessary for success in the course and on the AP exam. AP Calculus students may use the TI-84, TI-84+, or TI-Nspire for both classes.** As a technology based course, the class is taught in a computer lab. As an AP level course, students should expect to have a significant amount of homework.

AP COMPUTER SCIENCE A - W

Grade	10 TH - 12 TH	Credit	1.00 credit
Course Number	000164A 000164B	Length of Course	Year
Prerequisite	Geometry and teacher recommendation		

Computer Science A is the equivalent to a first semester, college level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities. **Students are expected to take the AP exam in the spring.** As an AP level course, students should be expected to have a significant amount of homework.

Science

	General Preparation	College Preparation
9th Grade	Physical Science	Honors Biology
10th Grade (choose up to two)	Biology	Chemistry, Honors Chemistry
		Physics, Honors Physics, AP Physics 1
11th Grade and 12th Grade (choose up to two per year)	Anatomy and Physiology	AP Biology
	Chemistry	AP Chemistry
	Environmental Science	AP Environmental Science
	Physical Geology	AP Physics 1 (algebra-based)
	Physics	AP Physics C (calculus-based)
	Honors Anatomy & Physiology	

SCIENCE OVERVIEW

The courses offered through the North Olmsted High School Science Department satisfy the Ohio Core science graduation requirements of Ohio Revised Code Section 3313.603. This section of the law requires that students successfully complete three credits in science which shall include the following or their equivalent: physical sciences, life sciences, and advanced study in chemistry, physics or other physical science; advanced biology or other life science; and/or astronomy, physical geology or other Earth or space science.

ORC 3313.603 requires that all science courses satisfying the Ohio Core science graduation requirements provide inquiry-based laboratory experiences that engage students in asking valid scientific questions and gathering and analyzing information. In order to construct knowledge and understanding, courses must provide opportunities for all students to use the following inquiry and application processes, including appropriate laboratory safety techniques, in their learning activities:

- Identify questions and concepts that guide scientific investigations;
- Design and conduct science investigations;
- Use technology and mathematics to improve investigations and communications;
- Formulate and revise explanations and models using logic and evidence (critical thinking);
- Recognize and analyze explanations and models; and
- Communicate and support a scientific argument.

The North Olmsted High School Science Department highly recommends that all college bound students earn four credits of high school science including a minimum of one credit in each of the following disciplines - biology, chemistry and physics.

PHYSICAL SCIENCE

PHYSICAL SCIENCE

Grade	9 TH	Credit	1.00 credit
Course Number	000711A 000711B	Length of Course	Year
Prerequisite	None		

Physical science introduces students to key concepts and theories that provide a foundation for further study in other science disciplines. Physical science comprises the systematic study of the physical world as it relates to fundamental concepts about matter, energy and motion. A unified understanding of phenomena in physical, living, Earth and space systems is the culmination of all previously learned concepts related to chemistry, physics, and Earth and space science, along with historical perspective and mathematical reasoning.

BIOLOGY

BIOLOGY

Grade	10 TH	Credit	1.00 credit
Course Number	000720 000721	Length of Course	Year
Prerequisite	75 th percentile or above on one of the current year's Fall or Winter Reading or Math MAP tests and a "A" semester average in 8th grade Science Parents must sign the Written Acceleration form		

Biology investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Students engage in investigations to understand and explain behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. **A course fee will be required.**

HONORS BIOLOGY - W

Grade	9 TH - 10 TH	Credit	1.00 credit
Course Number	000722 000723	Length of Course	Year
Prerequisite	Science teacher recommendation. For incoming 9 th Graders: Minimum B average in 8th Grade Science and teacher recommendation. 75 th percentile or above on one of the current year's Fall or Winter Reading or Math MAP tests and a "A" semester average in 8th grade Science Parents must sign the Written Acceleration form		

Honors Biology provides an accelerated inquiry-based laboratory experience for students possessing superior skills in reading comprehension, critical thinking and application. Honors students must be willing to accept the challenge of academic rigor, including out-of-class research and assignments. **A course fee will be required.**

AP BIOLOGY - W

Grade	10 TH - 12 TH	Credit	1.50 credit
Course Number	000724 000725	Length of Course	Year
Prerequisite	Minimum C average in Honors Chemistry; Honors Chemistry teachers' recommendations		

AP Biology is a second year course designed to provide high school students with a learning experience equivalent to that of a full-year, introductory college course typically taken by biology majors during their first year. AP Biology includes those topics regularly covered in a college biology course for majors, and differs significantly from the usual first high school course in biology with respect to the level of textbook, the range and depth of topics covered, the type of laboratory work performed by the students, and the time and effort required of the students. AP Biology is designed to teach students how to develop a conceptual framework of modern biology, including an understanding of science as a process rather than an accumulation of facts; personal experience in scientific inquiry; recognition of unifying theme that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns.

This course is recommended for students interested in careers in biology, medicine, bioengineering fields. All students who are willing to accept the challenge of a rigorous academic curriculum and meet all of the prerequisites should consider AP Biology. **This course meets for 1.5 periods per day.** Students are expected to take the AP Examination in the spring which may lead to college credit. **A course fee will be required.**

CHEMISTRY

CHEMISTRY

Grade	10 TH - 12 TH	Credit	1.00 credit
Course Number	000730 000731	Length of Course	Year
Prerequisite	Minimum C average in Algebra 1 and current Science teacher's recommendation		

Chemistry introduces students to key concepts and theories that provide a foundation for further study in other sciences as well as advanced science disciplines. Chemistry comprises a systematic study of the predictive physical interactions of matter and subsequent events that occur in the natural world. The study of matter through the exploration of classification, its structure and its interactions is emphasized. Investigations are used to understand and explain the behavior of matter in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. An understanding of leading theories and how they have informed current knowledge prepares students with higher order cognitive capabilities of evaluation, predication, and application. **A course fee will be required.**

HONORS CHEMISTRY - W

Grade	9 TH - 12 TH	Credit	1.00 credit
Course Number	000732 000733	Length of Course	Year
Prerequisite	Minimum B average in Algebra 1 and current Science teacher's recommendation		

Honors Chemistry provides an accelerated, inquiry-based laboratory experience emphasizing the theoretical and mathematical concepts of chemistry. This course is recommended for students interested in pursuing a career in any medical field, engineering field, or the biological and physical sciences. Students should possess superior reading, mathematical and critical thinking skills, and must be willing to accept the challenge of academic rigor. **A course fee will be required.**

AP CHEMISTRY - W

Grade	10 TH - 12 TH	Credit	1.50 credit
Course Number	000734 000735	Length of Course	Year
Prerequisite	Minimum C average in Honors Chemistry or B average in Chemistry with teacher recommendation; concurrently enrolled in Algebra 2 or higher math		

Advanced Placement Chemistry is a first year college-level Natural Science Core Course that provides students the opportunity to earn up to 10 college credits as well as participate in the administration of the AP Chemistry Examination in early May. AP Chemistry differs significantly from the usual first year high school course in chemistry with respect to the level of textbook, the range and depth of the topics covered, the emphasis on chemical calculations and the mathematical formulation of principles, the nature and variety of the laboratory work performed by the students, and the time and effort required of the students. AP Chemistry is designed to teach students how to develop a conceptual framework of chemistry, including an understanding of science as a process rather than an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of chemistry; and application of chemical knowledge and critical thinking to social concerns.

This course is recommended for those students interested in careers in medicine, engineering, or the biological, life and physical sciences. This course meets for 1.5 periods per day. A course fee will be required.

PHYSICS

PHYSICS

Grade	10 TH - 12 TH	Credit	1.00 credit
Course Number	000740A 000740B	Length of Course	Year
Prerequisite	Minimum C average in Algebra 1 and current science teacher's recommendation		

Physics elaborates on the study of the key concepts of motion, forces and energy as they relate to increasingly complex systems and applications that will provide a foundation for further study in science and scientific literacy. Students engage in investigations to understand and explain motion, forces and energy in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications.

A course fee will be required.

HONORS PHYSICS - W

Grade	10 TH - 12 TH	Credit	1.00 credit
Course Number	000742 000743	Length of Course	Year
Prerequisite	Enrolled concurrently in Algebra 2 or higher and current Science teacher's recommendation		

Honors Physics provides an accelerated, inquiry-based laboratory experience emphasizing the theoretical and mathematical concepts of physics. This course is recommended for students interested in pursuing a career in any medical field, engineering field, or the biological and physical sciences. Students should possess superior reading, mathematical and critical thinking skills, and must be willing to accept the challenge of academic rigor, including out-of-class projects and assignments. **A course fee will be required.**

AP PHYSICS I - W

Grade	10 TH - 12 TH	Credit	1.00 credit
Course Number	000750A 000750B	Length of Course	Year
Prerequisite	Enrolled concurrently in Algebra/Trig or AP Precalculus; and Current Science Teacher's Recommendation		

AP Physics 1 is equivalent to the first semester of a typical introductory, algebra-based, college physics course, but is designed to be taught over a full academic year to enable AP students to develop a deep understanding of the content and to focus on applying their knowledge through rigorous inquiry investigations and activities. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy and power; oscillations and fluids.

No prior coursework in physics is necessary for students to enroll in this course. Students should possess superior reading, mathematical and critical thinking skills, and be willing to accept the challenge of academic rigor, including out-of-class projects and assignments. Grade point average in previous math course work should be a C or better.

This course is recommended for students interested in pursuing a career in any medical field, engineering field, or the biological and physical sciences. Students are expected to take the AP Examination in the spring which may lead to college credit. Students are advised to consult the college/university admissions office to determine the availability of college credit based on their selected college major and earned score on the AP examination. **A course fee will be required.**

AP PHYSICS C - W

Grade	10 TH - 12 TH	Credit	1.00 credit
Course Number	000753 000754	Length of Course	Year
Prerequisite	Minimum B average in AP Physics 1 or Honors Physics; enrolled concurrently in AP Calculus; and teacher recommendation		

Mechanics – Semester 1

Electricity and Magnetism – Semester 2

AP Physics C is a second year calculus-based course designed to provide students with a learning experience equivalent to that of two semesters of college physics, with a laboratory component intended for physical science or engineering majors. The first half of the course is devoted to calculus-based mechanics with an emphasis on kinematics, Newton's Laws, work, energy and power, systems of particles, linear momentum, rotation, oscillation, and gravitation. The second half of the course is devoted to electricity and magnetism with an emphasis on electrostatics, conductors, capacitors, electric circuits, magnetostatics, and electromagnetism. Introductory differential and integral calculus is used throughout the course and on both AP Physics C exams.

This course is recommended for students interested in careers in engineering or the physical sciences. All students who are willing to accept the challenge of a rigorous academic curriculum and meet all prerequisites should consider AP Physics C. Students are expected to take either or both AP examinations in the spring which may lead to college credit. **A course fee will be required.**

ANATOMY AND PHYSIOLOGY

ANATOMY & PHYSIOLOGY

Grade	11 TH - 12 TH	Credit	1.00 credit
Course Number	000726A 000726B	Length of Course	Year
Prerequisite	Current science teacher's recommendation.		

Anatomy and Physiology is the study of the structure and function of the human body. Anatomy and Physiology comprises a systematic study of the fundamental concepts of cellular structure, tissues, and organs of the human body. The study of the structure and function of the human body through analysis of the skeletal, muscular, cardiovascular, lymphatic, digestive, respiratory, urinary, nervous, integumentary, endocrine and reproductive systems will be emphasized. Investigations are used to understand and explain the interrelationships between structure and function at the gross and microscopic levels of organization of the human body in a variety of inquiry and scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. **A course fee will be required.**

HONORS ANATOMY & PHYSIOLOGY - W

Grade	11 TH - 12 TH	Credit	1.00 credit
Course Number	000727A 000727B	Length of Course	Year
Prerequisite	Minimum C average in Honors Chemistry OR a B average in Chemistry.		

Honors Anatomy and Physiology provides an accelerated, inquiry-based laboratory experience emphasizing a systematic approach to the structure and function of the human body. This course is recommended for students interested in pursuing a career in any medical field or the biological sciences. Students should possess superior reading, mathematical and critical thinking skills, and must be willing to accept the challenge of academic rigor, including out-of-class projects and assignment.

PHYSICAL GEOLOGY

PHYSICAL GEOLOGY

Grade	11 TH - 12 TH	Credit	1.00 credit
Course Number	000716A 000716B	Length of Course	Year
Prerequisite	None		

Physical geology incorporates chemistry, physics and environmental science and introduces students to key concepts, principles and theories in geology. Investigations are used to understand and explain the behavior of matter in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications.

The study of Earth's Structure, Groundwater Erosion and Deposition, Oceanography, Paleontology, Anthropology, Seismology, Volcanism, Plate Tectonics, Earth Resources, and Glaciers will be emphasized. **An outdoor field experience is a required element for this course.**

ENVIRONMENTAL SCIENCE

ENVIRONMENTAL SCIENCE

Grade	11 TH - 12 TH	Credit	1.00 credit
Course Number	000718 000719	Length of Course	Year
Prerequisite	None		

Environmental Science is designed for high school students to dig deeper into the study of their natural world. Students will identify past, current and future environmental issues and solutions. Investigations are used in this course to explain and understand the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. This is a high school level course which satisfies the Ohio Core science graduation requirements. It includes inquiry-based laboratory experiences that engage students in asking valid scientific questions and gathering and analyzing information.

AP ENVIRONMENTAL SCIENCE - W

Grade	11 TH - 12 TH	Credit	1.00 credit
Course Number	000717A 000717B	Length of Course	Year
Prerequisite	Successful completion of Algebra 1. Successful completion of Biology with a minimum of 90% and teacher recommendation or successful completion of Honors Biology with a minimum of 80% and teacher recommendation		

AP Environmental is designed to provide high school students with a learning experience equivalent to that of a semester, introductory college environmental science course. Students will study scientific concepts, principles and methodologies of environmental science. Students will identify and analyze environmental problems and evaluate risks associated with these problems and they will also examine alternative solutions for resolution and prevention.

This course is recommended for students interested in studying our natural world, or students interested in fields pertaining to it. Students will meet for 1 period a day. Students will be encouraged to take the AP Exam in the spring which may lead to college credit.

Social Studies

NOTE: Honors, AP, and CCP courses are taught at an accelerated level with high academic expectations. Students enrolling in these courses are required to have excellent social science and language arts skills.

MODERN WORLD HISTORY

Grade	9 TH	Credit	1.00 credit
Course Number	000810A 000810B	Length of Course	Year
Prerequisite	Teacher recommendation		

This course examines world events from circa 1600 to the present. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. Major time periods to be covered will be the Enlightenment, the English Industrial Revolution, the French Revolution, Imperialism's effects on Africa, India, and Asia, and the World Wars.

HONORS MODERN WORLD HISTORY - W

Grade	9 TH	Credit	1.00 credit
Course Number	000812A 000812B	Length of Course	Year
Prerequisite	Teacher recommendation with exceptional skills in both Grade 8 History and Grade 8 Language Arts		

This course examines world events from circa 1600 to the present. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. Major time periods to be covered will be the Enlightenment, the English Industrial Revolution, the French Revolution, Imperialism's effects on Africa, India, and Asia, and the World Wars. Students will be taught at an accelerated pace with greater rigor and depth than the general-level course. The use of critical thinking skills and their application to the understanding of historical events is required.

UNITED STATES: HISTORY 1877 – PRESENT

Grade	10 TH	Credit	1.00 credit
Course Number	000820 000821	Length of Course	Year
Prerequisite	Required course		

Students continue the chronological study of the history of the United States with emphasis on domestic affairs. This course examines the history of the United States of America from 1877 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. Historic themes include: Imperialism, the World Wars, the Cold War, and contemporary society.

HONORS UNITED STATES HISTORY: 1877-PRESENT - W

Grade	10 TH	Credit	1.00 credit
Course Number	000822 000823	Length of Course	Year
Prerequisite	“B” average in Honors World History or “A” average in General World History and teacher recommendation		

This course is designed for students of exceptionally high ability with an interest in United States history. This course will be taught at an accelerated pace and with greater challenge and depth than the general-level course. Students should possess **superior reading ability** and be willing to accept the challenge of an increased workload, out-of-class assignments, and research. Students continue the chronological study of the history of the United States with emphasis on domestic affairs. This course examines the history of the United States of America from 1877 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today’s citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. Historic themes include: Imperialism, the World Wars, the Cold War, and contemporary society.

CCP - UNITED STATES HISTORY TO 1877 - 1510 - W

Grade	ALL	Credit	3 CCP 1.00 NOHS credit
Course Number	000824CCP	Length of Course	Semester

Prerequisite: Appropriate Accuplacer Test Score and Teacher Recommendation

This course is designed for students ready to take on college-level studies. This course will be taught at an accelerated pace. Students should possess superior reading ability and be willing to accept the challenge of an increased workload, out-of-class assignments, and research. Students continue the chronological study of the history of the United States with emphasis on domestic affairs. This course examines the history of the United States of America prior to 1877. This will be a College Credit Plus course taught at North Olmsted High School by a North Olmsted teacher. All students will be dual enrolled at Cuyahoga Community College. This course focuses on the study and practice in academic writing; reading and interpretation of selected texts. Course may be thematically organized. Prerequisite(s): Appropriate placement test score (Accuplacer, ACT, SAT). Course Requirement. (3 Semester Hours).

CCP - UNITED STATES HISTORY 1877 – PRESENT – 1520 - W

Grade	ALL	Credit	3 CCP 1.00 NOHS credit
Course Number	000825CCP	Length of Course	Semester

Prerequisite: Appropriate Accuplacer Test Score and Teacher Recommendation

This course is designed for students ready to take on college-level studies. This course will be taught at an accelerated pace. Students should possess superior reading ability and be willing to accept the challenge of an increased workload, out-of-class assignments, and research. Students continue the chronological study of the history of the United States with emphasis on domestic affairs. This course examines the history of the United States of America to the present. This will be a College Credit Plus course taught at North Olmsted High School by a North Olmsted teacher. All students will be dual enrolled at Cuyahoga Community College. This course focuses on the study and practice in academic writing; reading and interpretation of selected texts. Course may be thematically organized. Prerequisite(s): Appropriate placement test score (Accuplacer, ACT, SAT). Course Requirement. (3 Semester Hours).

GOVERNMENT & ECONOMICS

Grade	11 TH	Credit	1.00 credit
Course Number	000830 000831	Length of Course	Year
Prerequisite	Required course		

The course will integrate factual knowledge and concepts of government and economics, and how the two interact and affect one another. Students will examine the Constitution, the Bill of Rights, the federal system of checks and balances, the responsibilities of active citizenship, various political/economic systems, voting, economic laws, the effect of government on the economy, and elements of personal financial responsibility. There will be an emphasis on personal and real-world application of principles learned in class. The economics sections explore the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants. More specifically, it examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security.

HONORS GOVERNMENT & ECONOMICS - W

Grade	11 TH	Credit	1.00 credit
Course Number	000832 000833	Length of Course	Year
Prerequisite	“B” average in 10th grade Honors or “A” in General U.S. History teacher recommendation		

This course is designed for college-bound students possessing above-average reading comprehension, writing, and analytical skills.

AP GOVERNMENT & POLITICS - W

Grade	11 TH – 12 TH	Credit	1.00 credit
Course Number	000836 000838	Length of Course	Year
Prerequisite	Teacher recommendation		

This course will require students to critically analyze government and politics in the United States and study general concepts used to interpret policy. It requires familiarity with the various institutions, groups, beliefs and ideas that constitute American politics. The course will prepare students for intermediate and advanced college-level courses. Demands are equivalent to those of a full year introductory college course. Students are highly encouraged to take the College Board AP examination in May. Students enrolled in this course may not take other Government courses.

GREAT RELIGIONS

Grade	12th	Credit	.50 credit
Course Number	000849A	Length of Course	Semester
Prerequisite	None		

This class will examine the major religions of the world including those originating in India: Hinduism and Buddhism and those originating in the Middle East: Judaism, Christianity, and Islam.

There will also be a focus on the religions of China and Japan: Taoism, Confucianism, and Shinto (time permitting). Students will be required to demonstrate their knowledge through class discussions, the use of supplemental readings, projects, and testing.

SOCIOLOGY

Grade	12 TH	Credit	.50 credit
Course Number	000855	Length of Course	Semester
Prerequisite	None		

This course will explore the interaction between humans in many societies and environments and how humans interact socially with one another. Students will explore social institutions such as the family as well as social issues such as racism and mass media. Students will also study the role that culture and subcultures play in the socialization of the individual.

MODERN HISTORY AND THE MOTION PICTURE AGE

Grade	12th	Credit	.50 credit
Course Number	000856	Length of Course	Semester
Prerequisite	None		

Lights, Camera, Action! This class is a study of modern history through the lens of the most important movies of the 20th century from early Hollywood through today's blockbusters. This is a course for students who love movies, music, culture, and the arts. Motion pictures both inform us about and reflect upon our own history, values, and understanding of our rapidly changing society.

PSYCHOLOGY

Grade	12 TH	Credit	1.00 credit
Course Number	000800 000802	Length of Course	Year
Prerequisite	None		

The field of psychology includes personality, human development, perception, learning, memory, intelligence, social behavior, motivation, stress, and psychological disorders. The past and current theories and contributions of major psychologists are explored. Psychology students will be able to think more critically and gain insight into the phenomena of their everyday lives.

AP PSYCHOLOGY - W

Grade	12 TH	Credit	1.00 credit
Course Number	000800A 000800B	Length of Course	Year
Prerequisite	Teacher recommendation		

The demands of this course are consistent with those of a full year introductory college-level course. Students are encouraged to take the College Board AP test at the end of the course. Students are exposed to psychological facts, principles, and phenomena associated with the major fields of psychology as outlined by the College Board. Topics explored include current research findings and methods, the biological impact on behavior, developmental psychology, abnormal psychology, and issues of cognition. Topics and activities follow guidelines established by the American Psychological Association (APA) as well as the College Board. Students are highly encouraged to take the AP Psychology test in the spring.

S.I.T.E.S. SOCIAL INVOLVEMENT THROUGH EDUCATION AND SERVICE

Grade	12 TH	Credit	1.00 credit
Course Number	English - 000260 000261 Global Community Issues 000860A 000860B Service 000865 000866		

Prerequisite: Application and teacher recommendation

Length of Course Year

Applications are due January 21, 2025

Students enrolled in this program will earn three credits—one each in English, Social Studies, and Service-Learning.

Students become actively involved in the affairs of their community, bring these experiences back to the classroom, then reflect on, evaluate, and assimilate them into their English and Social Studies curricula. This program is open to seniors only by application and acceptance. Upon successful program completion, students will earn 3.00 credits: 1.00 English 12 (or Honors 12), 1.00 Social Studies (either Global Community Issues or Honors Global Community Issues), and 1.00 Service-Learning. Students must pass the Social Studies course in order to receive credit for the Service-Learning course.

Honors S.I.T.E.S. - SOCIAL INVOLVEMENT THROUGH EDUCATION AND SERVICE - W

Grade	12 TH	Credit	1.00 credit
Course Number	Honors English - 000262 000263 Honors Global Community Issues 000862A 000862B Service 000865 000866 (Service-Learning is a general level course for all SITES students)		

Prerequisite

Application and teacher recommendation

Length of Course Year

Applications are due January 21, 2025

NOTE: Honors and AP courses are taught at an accelerated level with high academic expectations. Students enrolling in these courses are required to have excellent social science and language arts skills.

World Language and Cultures

Why World Languages?

Research shows that students who study world languages...

- Score higher on the SAT and ACT;
- Develop greater cultural sensitivity toward others;
- Increase vocabulary
- Perform better on tests of reading and math;
- Have more highly developed listening and retention skills;
- Are more creative;
- Display more highly developed thinking skills;
- Will be better prepared to contribute to local, state and national economies to compete in the global economy.

Some universities require 2 to 3 years of a World Language as an entrance requirement: Some universities do not require a World language for entrance BUT do require World language credit for a university graduation requirement.

3 years of World language study may be used to qualify for Honors Diploma
3 years of World language is required for Ohio Award of Merit Scholars.

2 years of World language study fulfills NCAA eligibility to play college sports requirements.

In order to be successful, World Language students should plan for consistent, out of class review of vocabulary and concepts.

Arabic

ARABIC 1

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000550A 000550B	Length of Course	Year
Prerequisite	World Language and culture interest		

This first course introduces and develops the concepts and use of basic vocabulary and phrases in the target language. Learners will engage in level-appropriate oral and written communication skills. They will demonstrate an ability to understand spoken, simple phrases and read brief texts. Various cultural aspects of the target language countries will be introduced. A course fee will be required.

NOTE: The Ohio Department of Education recognizes four levels of language difficulty, with Arabic being among the most difficult, and languages like Spanish and French being the least difficult. Their rankings take into account differences in vocabulary, sound production, writing system and grammatical structure, and logically presume that the languages that differ greatly from English take the native English speaker more time to learn. As such, students should expect a challenging pace, with a great deal of time spent learning the basics of the writing system.

ARABIC 2

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000551A 000551B	Length of Course	Year
Prerequisite	Arabic 1 or teacher recommendation		

The second course further develops listening, speaking, reading, and writing skills by combining and recombining learned phrases and words. New vocabulary and phrases will be introduced in the target language. Learners will continue to investigate the culture of the target language countries. A course fee will be required.

NOTE: The Ohio Department of Education recognizes four levels of language difficulty, with Arabic being among the most difficult, and languages like Spanish and French being the least difficult. Their rankings take into account differences in vocabulary, sound production, writing system and grammatical structure, and logically presume that the languages that differ greatly from English take the native English speaker more time to learn. As such, students should expect a challenging pace, with a great deal of time spent learning the basics of the writing system.

HONORS ARABIC 2 - W

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000552A 000552B	Length of Course	Year
Prerequisite	B Average in Arabic 1 & teacher recommendation		

In addition to the Arabic 2 description the Honors Arabic 2 course is designed for students of exceptionally high ability with interest in the target language. This course is taught at an accelerated pace with greater rigor and depth than the regular-level course. Honors level students should possess superior reading ability and be willing to accept the challenge of academic rigor, including out-of-class research and assignments. A course fee will be required.

NOTE: The Ohio Department of Education recognizes four levels of language difficulty, with Arabic being the most difficult, and languages like Spanish and French being the least difficult. Their rankings take into account differences in vocabulary, sound production, writing system and grammatical structure, and logically presume that the languages that differ greatly from English take the native English speaker more time to learn. As such, students should expect a challenging pace, with a great deal of time spent learning the basics of the writing system.

ARABIC 3

Grade	10 TH – 12 TH	Credit	1.00 credit
Course Number	000560A 000560B	Length of Course	Year
Prerequisite	Arabic 2 or teacher recommendation		

The third course continues to develop students' skills in written and spoken Arabic. A course fee will be required.

NOTE: The Ohio Department of Education recognizes four levels of language difficulty, with Arabic being among the most difficult, and languages like Spanish and French being the least difficult. Their rankings take into account differences in vocabulary, sound production, writing system and grammatical structure, and logically presume that the languages that differ greatly from English take the native English speaker more time to learn. As such, students should expect a challenging pace, with a great deal of time spent learning the basics of the writing system.

HONORS ARABIC 3 - W

Grade	10 TH – 12 TH	Credit	1.00 credit
Course Number	000561A 000561B	Length of Course	Year
Prerequisite	B or Better Average in Arabic 2 & teacher recommendation		

In addition to the Arabic 3 description the Honors Arabic 3 course is designed for students of exceptionally high ability with interest in the target language. This course is taught at an accelerated pace with greater rigor and depth than the regular-level course. Honors level students should possess superior reading ability and be willing to accept the challenge of academic rigor, including out-of-class research and assignments. A course fee will be required.

NOTE: The Ohio Department of Education recognizes four levels of language difficulty, with Arabic being the most difficult, and languages like Spanish and French being the least difficult. Their rankings take into account differences in vocabulary, sound production, writing system and grammatical structure, and logically presume that the languages that differ greatly from English take the native English speaker more time to learn. As such, students should expect a challenging pace, with a great deal of time spent learning the basics of the writing system.

ARABIC 4

Grade	10 TH – 12 TH	Credit	1.00 credit
Course Number	000538 000539	Length of Course	Year
Prerequisite	Arabic 3 or teacher recommendation		

The fourth course requires learners to initiate, sustain, and bring to closure a wide variety of communicative tasks in the appropriate time frames. Application and extension of grammar concepts and vocabulary through original self-expression in written and oral form will be expected. Cultural study will include researching, comparing, and contrasting historical events, geographical, and political issues of the home and target countries. A course fee will be required.

HONORS ARABIC 4 - W

Grade	10 TH – 12 TH	Credit	2.00 credit
Course Number	000540 000541	Length of Course	Year
Prerequisite	B Average or better in Arabic Honors 3 & teacher recommendation		

This course is designed for students who have successfully completed Honors Arabic 3 with an A or B average. In addition to the Arabic 4 description, the Honors course is designed for students of exceptionally high ability with interest in the target language. This course is taught at an accelerated pace with greater rigor and depth than the regular-level courses. Honors level students should possess superior reading ability and be willing to accept the challenge of academic rigor, including out-of-class research and assignments.

French

FRENCH

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000500 000501	Length of Course	Year
Prerequisite	World Language and culture inter		

This first course introduces and develops the concepts and use of basic vocabulary and phrases in the target language. Learners will engage in level-appropriate oral and written communication skill. They will demonstrate an ability to understand spoken, simple phrases and read brief texts. Various cultural aspects of the target language countries will be introduced. A course fee will be required.

FRENCH 2

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000502 000503	Length of Course	Year
Prerequisite	French 1 or teacher recommendation		

The second course further develops listening, speaking, reading, and writing skills by combining and recombining learned phrases and words. New vocabulary and phrases will be introduced in the target language. Learners will continue to investigate the culture of the target language countries. A course fee will be required.

HONORS FRENCH 2 - W

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000504 000505	Length of Course	Year
Prerequisite	B average in 8th grade French or High School French 1 & teacher recommendation		

In addition to the French 2 description the Honors French 2 course is designed for students of exceptionally high ability with interest in the target language. This course is taught at an accelerated pace with greater rigor and depth than the regular-level course. Honors level students should possess superior reading ability and be willing to accept the challenge of academic rigor, including out-of-class research and assignments. A course fee will be required.

FRENCH 3

Grade	10 TH – 12 TH	Credit	1.00 credit
Course Number	000506 000507	Length of Course	Year
Prerequisite	French 2 or teacher recommendation		

The third course provides for the intermediate use of grammar structures which lead to higher-level comprehension and communication of the target language. At this level, learners will speak and write in the appropriate time frames. Reading materials will be utilized to acquire new knowledge and information, including cultural aspects of the target language countries. A course fee will be required.

HONORS FRENCH 3 - W

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000508 000509	Length of Course	Year
Prerequisite	B Average or better in Honors French 2 & teacher recommendation		

This course is designed for students who have successfully completed Honors French 2 with an A or B average. In addition to the course description for French 3, the Honors Level course is designed for students of exceptionally high ability with interest in the target language. This course is taught at an accelerated pace with greater rigor and depth than the regular-level courses. Honors level students should possess superior reading ability and be willing to accept the challenge of academic rigor, including out-of-class research and assignments. A course fee will be required.

FRENCH 4

Grade	10 TH – 12 TH	Credit	1.00 credit
Course Number	000510 000511	Length of Course	Year
Prerequisite	French 3 or teacher recommendation		

The fourth course requires learners to initiate, sustain, and bring to closure a wide variety of communicative tasks in the appropriate time frames. Application and extension of grammar concepts and vocabulary through original self-expression in written and oral form will be expected. Cultural study will include researching, comparing, and contrasting historical events, geographical, and political issues of the home and target countries. A course fee will be required.

HONORS FRENCH 4 - W

Grade	10 TH – 12 TH	Credit	2.00 credit
Course Number	000512 000513	Length of Course	Year
Prerequisite	B Average or better in French Honors 3 & teacher recommendation		

This course is designed for students who have successfully completed Honors French 3 with an A or B average. In addition to the French 4 description, the Honors course is designed for students of exceptionally high ability with interest in the target language. Honors level students should possess superior reading ability and be willing to accept the challenge of academic rigor, including out-of-class research and assignments. A course fee will be required.

Spanish

SPANISH 1

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000526 000527	Length of Course	Year
Prerequisite	World Language and culture interest		

This first course introduces and develops the concepts and use of basic vocabulary and phrases in the target language. Learners will engage in level-appropriate oral and written communication skills. They will demonstrate an ability to understand spoken, simple phrases and read brief texts. Various cultural aspects of the target language countries will be introduced. A course fee will be required.

SPANISH 2

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000530 000531	Length of Course	Year
Prerequisite	Spanish 1 or teacher recommendation		

The second course further develops listening, speaking, reading, and writing skills by combining and recombining learned phrases and words. New vocabulary and phrases will be introduced in the target language. Learners will continue to investigate the culture of the target language countries. A course fee will be required.

HONORS SPANISH 2 - W

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000532 000533	Length of Course	Year
Prerequisite	B Average in 8th Grade Spanish or High School Spanish 1 & teacher recommendation		

In addition to the Spanish 2 description the Honors Spanish 2 course is designed for students of exceptionally high ability with interest in the target language. This course is taught at an accelerated pace with greater rigor and depth than the regular-level course. Honors level students should possess superior reading ability and be willing to accept the challenge of academic rigor, including out-of-class research and assignments. A course fee will be required.

SPANISH 3

Grade	10 TH – 12 TH	Credit	1.00 credit
Course Number	000534 000535	Length of Course	Year
Prerequisite	Spanish 2 or teacher recommendation		

The third course provides for the intermediate use of grammar structures which lead to higher-level comprehension and communication of the target language countries. At this level, learners will speak and write in the appropriate time frames. Reading materials will be utilized to acquire new knowledge and information, including cultural aspects of the target language countries. A course fee will be required.

HONORS SPANISH 3 - W

Grade	9 TH – 12 TH	Credit	1.00 credit
Course Number	000536 000537	Length of Course	Year
Prerequisite	B Average or better in Honors Spanish 2 & teacher recommendation		

This course is designed for students who have successfully completed Honors Spanish 2 with an A or B average. In addition to the course description for Spanish 3, the Honors Level course is designed for students of exceptionally high ability with interest in the target language. This course is taught at an accelerated pace with greater rigor and depth than the regular-level courses. Honors level students should possess superior reading ability and be willing to accept the challenge of academic rigor, including out-of-class research and assignments. A course fee will be required.

SPANISH 4

Grade	10 TH - 12 TH	Credit	1.00 credit
Course Number	000538 000539	Length of Course	Year
Prerequisite	Spanish 3 or teacher recommendation		

The fourth course requires learners to initiate, sustain, and bring to closure a wide variety of communicative tasks in the appropriate time frames. Application and extension of grammar concepts and vocabulary through original self-expression in written and oral form will be expected. Cultural study will include researching, comparing, and contrasting historical events, geographical, and political issues of the home and target countries. A course fee will be required.

HONORS SPANISH 4 - Possible CCP course - W

Grade	10 TH - 12 TH	Credit	2.00 credit
Course Number	000540 000541	Length of Course	Year
Prerequisite	B Average or better in Spanish Honors 3 & teacher recommendation		

This course is designed for students who have successfully completed Honors Spanish 3 with an A or B average. In addition to the Spanish 4 description, the Honors course is designed for students of exceptionally high ability with interest in the target language. This course is taught at an accelerated pace with greater rigor and depth than the regular-level courses. Honors level students should possess superior reading ability and be willing to accept the challenge of academic rigor, including out-of-class research and assignments. A course fee will be required.

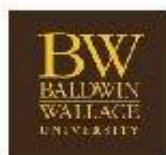
POLARIS

CAREER CENTER



Polaris offers a wide range of exciting career-technical programs for students beginning in 11th grade, all featuring high-quality training in a state-of-the-art setting.

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General Information

Registration/Enrollment

Our application process has never been easier. You can register online **NOW** at www.polaris.edu/HSapply. The application only takes a few minutes to complete.

Contact the Polaris Enrollment Office at 440.891.7732 with additional enrollment related questions.

Student Fees

There is no tuition cost to attend Polaris. However, all programs will require fees to cover the cost of tools, uniforms, workbooks, etc. Payment plans are available.

Transportation

Busing to and from Polaris is provided by your school district. A Polaris parking permit must be obtained if you plan to drive to school.



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2025-2026 Polaris Career-Technical Programs

Aeronautics

Your career opportunities will soar as you explore the exciting field of aviation with a focus on aeronautical studies, aeronautical systems, engineering technology, air traffic control, aviation management, flight technology and drone operations.

Automotive Technology

Using the latest equipment, you will learn to maintain, diagnose and service automobiles with an emphasis on brake and electrical systems, engine performance systems, suspensions, alignments, engine repair and automotive heating and cooling.

Baking & Pastry Arts

You will learn the art of producing quality bakery products with an emphasis on decorative pastry arts. From bread production to chocolates and candies, you will learn the ABCs of food and food preparation. These skills will be developed and refined in the class-managed bakery, *Indulge*.

Business Professional & Office Technology

Skilled office professionals are in demand. In this program, you will learn the latest office management skills and techniques and become proficient in Microsoft Office, computer operations, business communications, finance, and customer service.



Computer Networking Academy

The Computer Networking Academy will open the door to the high-wage, high-demand field of computer networking, cyber security, and information technology. This program will give you an opportunity to earn valuable industry certifications and college credits prior to graduating from high school.

Construction Trades

Construction Trades teaches you how to maintain, repair, construct and remodel buildings and homes in a real-world, practical setting. The program includes the fundamentals of blueprint reading, site preparation, carpentry, masonry, plumbing, roofing, machining, electrical wiring, and site layout.

Cosmetology

Learn to care for hair, skin and nails and create style and beauty in a student-run salon & spa setting. Join the *Salon Allure* staff and prepare for an exciting future.

Criminal Justice

Gain exposure to the latest in law enforcement techniques using the latest equipment and instruction. During your two years at Polaris, you will be trained in the enforcement of the law and the protection of life and property in a real-world setting.

Culinary Arts & Restaurant Management

Explore basic culinary/cooking essentials and foodservice management skills in our state-of-the-art educational kitchen and production lab. You will apply your new talents in the class-managed restaurant, *Savour*, while learning customer relations, cost controls, basic accounting principles, marketing, purchasing, inventory, teambuilding skills and communications.

Dental Assisting

Learn to work chairside with the dentist in the care and treatment of patients. Along with basic dental laboratory procedures, you will learn dental terminology, the use of instruments and equipment, x-ray procedures, preparation of dental materials and dental office management skills.





Emergency Medical Technician/Fire Training

If you like helping people, this is the program for you! Learn to be an Emergency Medical and homeland security. This program is offered in partnership with Cuyahoga Community College's Public Safety Training Center. ****Students must be 16 years old by August 1 to enroll in this program.***

Exercise Science & Rehab Therapy

While in this program, you will learn the basics of preventing, diagnosing, and treating injuries related to sports and/or exercise. Exercise Science & Rehab Therapy is designed to prepare students to transition to college and pursue a career in the athletic training, fitness, or health care fields.

Heating, Ventilating, Air Conditioning & Refrigeration

This cool profession is heating up! Join HVAC/R and learn to install, maintain, troubleshoot, and repair heating and cooling systems in both residential and commercial settings.

Medical Professions

Learn the basic clinical and administrative procedures necessary to work in a doctor's office, clinic, or hospital. Coursework includes instruction in anatomy & physiology, medical ethics, medical terminology, office procedures, medical records, and laboratory skills.

Pre-Nursing

As a Pre-Nursing student, you will learn to monitor patients' conditions and assess their needs to provide the best possible care and support, observe and interpret patients' symptoms and communicate them to physicians; collaborate with physicians and nurses to devise individualized care plans for patients; perform routine procedures (blood injections, etc.); and many other important responsibilities. ****Students must qualify for this program based on their transcript and other criteria.***

Pre-Veterinary Science

Learn to provide basic healthcare for animals including post-surgery care, emergency first aid, instrument maintenance, animal health histories and more.

Precision CNC Machining

Join this innovative, high-tech career and secure your future in a high-demand/high-wage profession. Feel the satisfaction of making your own components from concept to completion using state-of-the-art Computer Numerical Control (CNC) production technology and equipment. ****This program has no student fees thanks to the generosity of several local industry partners and grants.***

Visual Communication & Design

This program explores how the spectrum of design techniques can be directed toward opportunities in the creative professional workplace. This program will enhance conventional and digital media skills.

Welding Technology

This program will teach you the fundamentals of welding - the most common method of permanently joining metal parts. You will receive training in gas, arc, fluxcore and MIG & TIG welding using cutting-edge technology.



Special Admissions Programs – Counselor recommended

Building Services & Ground Maintenance, Deli & Food Production and High School Job Training Programs which include:

- Employability Skills Lab
- Community Work Experience
- Retail Services

Applications are being accepted now at www.polaris.edu/HSapply



For additional information, contact Cindy Crisler, Polaris Enrollment Coordinator, at 440.891.7732 or ccrisler@polaris.edu.

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