MADISON-PLAINS HIGH SCHOOL

HIGHER EXPECTATIONS-HIGHER ACHIEVEMENT

Course and Program Offerings

Introduction

This course description book has been prepared to assist students and parents in selecting the appropriate courses for their academic and vocational goals. It contains all the courses offered at Madison-Plains High School. ***Every course listed may not be offered at the high school during the next school year***. Students should work with their parents, teachers, school counselor, and admisistration as they select courses for the next school year.

The courses offered this year are reflected on the student's scheduling sheet. Students are required to take specific courses to meet the high school graduation requirements. There are multiple course options that meet the graduation requirements, so it is important to plan your high school course selections carefully. School counselors and teachers will assist students and parents during the scheduling process.

There are several factors students and parents need to consider when selecting courses.

1.) **Course Changes**: Students and parents need to know that after course registration this spring there will be limited opportunities to change courses for next year. The school uses registration information to determine course offerings, teaching assignments, and schedules. Changes in student schedules impact this planning. Once the registration process is completed, schedule changes will not be honored. It is vital that students choose carefully for next year.

2.) **Course Offerings and Availability**: Every course listed in the course description book may not be offered at the high school in the next school year. The courses that are offered next year will be based on adequate student enrollment and staff available to teach the course. Certain classes may be removed from course selection after students initially register. In these cases, students may select another course. In some cases, a student may have a course conflict and will have to choose between two or more courses.

The process for course selection and registration is a vital part of developing a student's four-year plan for graduation. Please take the time to gather information by talking to teachers and the school counselor prior to selecting courses. Parents may schedule an appointment with the school counselor by calling the high school.

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GRADUATION REQUIREMENTS

To receive a high school diploma from Madison-Plains High School, students must achieve the following:

- ✓ Ohio Department of Education Minimum Curriculum Requirements
- ✓ Madison-Plains High School Minimum Curriculum Requirements
- ✓ Ohio Department of Education Testing Requirements
- ✓ Perform 20 hours of approved, documented Community Service hours

Minimum Curriculum Requirements

Curriculum Requirements	State Minimum for Graduation	Additional MPLSD Requirements	Credits Earned	Credits Remaining
English Language Arts	4 units			
Health	½ unit			
Mathematics	4 units[i]			
Physical Education	½ unit[ii]	See note [ii]		
Science	3 units[iii]			
Social Studies	3 units[iv]			
Electives	5 units[v]			
Fine Arts	See note[vi]	1 unit		
Economics/Financial Literacy	See note[vii]	See note [vii]		
TOTAL CREDITS REQUIRED	22 units			

[i] Mathematics units must include 1 unit of algebra II or the equivalent of algebra II.

[ii] Physical Education Credit/Exemption is required by state law for graduation. If a child cannot participate in gym class for 3 consecutive gym periods or more, then a written medical doctor's excuse may be required excusing the student. In the case of physically handicapped students, a written medical doctor excuse requesting complete exclusion from participation or limited participation must be submitted to the principal. This notice shall state the reason to be completely excused from gym or state the extent the handicapped student should participate. All students participating in physical education are required to have the appropriate clothing (gym shorts, a t-shirt and gym shoes as required by the program). Students are expected to be in attendance, dress properly and participate in order to receive a passing grade. Gym lockers may be issued to students. Students may place a lock on the locker when storing clothes or valuables

[iii] Science units must include 1 unit of physical sciences, 1 unit of life sciences and 1 unit advanced study in one or more of the following sciences: chemistry, physics, or other physical science; advanced biology or other life science; astronomy, physical geology, or other earth or space science.

[iv] Social studies units must include ½ unit of American history and ½ unit of American government.

[v] Electives units must include one or any combination of foreign language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required.

[vi] Ohio requirements state that all students must complete at least two semesters of fine arts taken any time in grades 7-12. Madison-Plains requires 1 credit of fine arts to be completed in grades 9-12. Students following a career-technical pathway are exempted from the fine arts requirement.

[vii] All students must receive instruction in economics and financial literacy during grades 9-12. This requirement is fulfilled by completing a CTE pathway, or by completing Money Matters, Personal Financial Management or Business in agriculture classes.

[viii] The State Board of Education may decide to include an algebra II end-of-course examination in place of the algebra I end of course exam beginning for students entering ninth grade on or after July 1, 2016.

Ohio Department of Education Testing Requirements

House Bill 487 updated Ohio's graduation requirements to ensure that all students are ready for success in college and work. As a result, the Class of 2017 (10th-graders in the 2014-2015 school year) will be the last students to take the current Ohio Graduation Tests. The new requirements take effect with students entering ninth grade in the 2014-2015 school year (Class of 2018). Additionally, every student in the Class of 2018 and beyond will have the opportunity to take a nationally-recognized college admission exam free of charge in Grade 11.

Testing Requirements for the Graduating Class of 2017

Students who entered ninth grade before July 1, 2014, are required to pass the Ohio Graduation Tests (OGT) in the areas of Reading, Writing, Math, Science, and Social Studies. Students are provided multiple opportunities to take and pass all five parts of the OGT including: Spring of Sophomore year; Summer, Fall and Spring of Junior year; Summer, Fall and Spring of Senior year. The Ohio Department of Education provides an alternative pathway toward meeting the OGT requirement as outlined below:

Alternative Way to Meet the OGT Testing Requirements

A student may meet the testing requirements for passing all five Ohio Graduation Tests if he or she meets ALL of the following criteria:

- Passes four of the five tests and has missed passing the fifth test by no more than 10 points;
- Has a 97 percent attendance rate, excluding any excused absences, through all four years of high school
- Has not been expelled from school in any of the last four school years
- Has at least a grade point average of 2.5 out of 4.0 in the courses of the subject area not yet passed
- Has completed the high school curriculum requirement
- Has participated in any intervention programs offered by the school and must have had a 97 percent attendance rate in any intervention programs offered outside the normal school day
- Has letters recommending graduation from the high school principal and from each high school teacher in the subject area not yet passed

Testing Requirements for the Graduating Classes of 2018 and beyond

1. All students in the Graduating Classes of 2018 and beyond must take end-of-course exams in the following subjects:

    - Algebra I[1] and geometry or integrated math I and II
    - Biology
    - American history and American government
    - English I and English II

    Students studying Advanced Placement (AP), International Baccalaureate (IB) or taking College Credit Plus (CCP) courses in physical science, American history or American government may take assessments aligned to those courses in lieu of end-of-course exams to avoid double testing.

2. All students in the Graduating Classes of 2018 and beyond must *also* meet one of the following three requirements:
    a. Earn a cumulative passing score of 18 points on the seven end-of-course tests. Students must earn a minimum of four points in math, four points in English, and six points across science and social studies. Points are earned as follows: an Advanced score = 5 points, an Accelerate score = 4 points, a Proficient score = 3 points, a Basic score = 2 points, a Limited score = 1 point.
    b. Earn a composite score of 13 on the WorkKeys and an approved industry-recognized credential. The state of Ohio will pay one time for those who take the WorkKeys assessment.
    c. Earn a "remediation-free" score on the ACT or SAT. The state of Ohio will pay for all 11th-grade students in the Class of 2018 and beyond to take the exam free of charge.

DIPLOMA WITH HONORS

Students seeking a Diploma with Honors must meet seven of the eight following criteria in the college preparatory curriculum:

Diploma with Honors Criteria *Students need to fulfill all but one of the applicable criteria for the Diploma with Honors.*		
Subject	*Academic* *Diploma with Honors*	*Career-Technical* *Diploma with Honors*
English	4 units	4 units
Mathematics	4 units, including Algebra I, Geometry, Algebra II or the equivalent and another higher level course or a four-year sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II or the equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
Science	4 units, including physics and chemistry	4 units, including two units of advanced science
Social Studies	4 units	4 units
Foreign Language	3 units (must include no less than 2 units for which credit is sought), i.e., 3 units of one language or 2 units each of two languages	N/A
Fine Arts	1 unit	N/A
Electives	N/A	4 units of Career-Technical minimum. Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post-secondary credit
Grade Point Average	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT Score [excluding scores from the writing sections]*	27 ACT / 1210 SAT	27 ACT / 1210 SAT
Additional Assessment	N/A	Achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment or equivalent

Diploma with Honors requirements pre-suppose the completion of all minimum high school diploma requirements in the Ohio Revised Code as listed in this guide.

VALEDICTORIAN/SALUTATORIAN/CLASS RANKING:

Valedictorian: of each class must receive "The Diploma of College Preparatory with Honors" listed in the student handbook as designed by the State Board of Education. In order to be considered for Valedictorian, a student must have completed the following classes at Madison-Plains High School: Jr. College English, Sr. College English, Pre-calculus, Calculus, A.P. History, A.P. Government (Class 2016) and 3 years of consecutive foreign language.

Salutatorian: will automatically be the second numerically ranked student in the class. In the event of a tie for Valedictorian, the Salutatorian will be the highest numerically ranked student not tied for the number one in the class. In order to be considered for Salutatorian, a student must have completed the following classes at Madison-Plains High School: Jr. College English, Sr. College English, Pre-calculus, Calculus, A.P. History, A.P. Government (Class 2016) and 3 years of consecutive foreign language.

Consideration for Valedictorian/Salutatorian: In order to be considered for Valedictorian/Salutatorian, the student must also take the ACT by April of the graduation year. The highest composite score will be used to break all ties. In the event two students have identical GPAs, identical composite scores on the ACT and equal high school credits earned, a tie will be declared.

Red Cross Honor Cord: Each senior making a donation three times in their senior year will be eligible to receive a special honor cord from their school in recognition of their dedication and volunteerism.

Senior Residency Rule: If a student's family moves from the school district during the last grading period of their senior year, the student may be allowed to complete the school year with the approval of the principal and superintendent.

PROMOTION REQUIREMENTS

The minimum credits for grade classification are as follows:

10th Grade – completion of 5 credits – must pass 4 core areas

11th Grade – completion of 10 credits – must have passed 4 core areas

12th Grade – completion of 15 credits – must pass at least English, Social Studies, Math

Graduation – students must complete 22 credits.

The core areas are English, Science, Math and Social Studies. Some students may require a 5th year of high school to complete requirements.

COLLEGE PREPARATORY CURRICULUM

The Ohio Board of Regents, governing body of Ohio colleges and universities, recommends college-bound students take the following:

4	Credits of English
4	Credits of Mathematics *(Including Algebra I, Geometry, and Algebra II)*
3	Credits of Social Studies
3	Credits of Science (Physical, Biology, Chemistry)
2	Credits of a single Foreign Language *(Some colleges require 3 credits of a single foreign language)*
1	Credit of Fine Art
1	Credit of Business Management

VIRTUAL LEARNING ACADEMY (VLA)

Virtual Learning Academy (VLA) is an online curriculum provider offering 100 core and elective courses to students in grades K-12. VLA courses are 100% aligned to Ohio's Content Standards, which are rooted in the National Academic Content Standards.

COLLEGE CREDIT PLUS (CCP)

Ohio's College Credit Plus can help you earn college and high school credits at the same time by taking college courses from community colleges or universities. The purpose of this program is to promote rigorous academic pursuits and to provide a wide variety of options to college-ready students.

It is our intent to offer the following college course in cooperation with Southern State Community College and the state of Ohio.

College Credit Plus Course Names and Course Numbers

Number	Course Name	Credit
274	CCP English Composition 1 – 1101	1
275	CCP English Composition 2 - 1102	1
346	CCP American History 1 - 1110	1
347	CCP American History 2 - 1111	1
348	CCP Introduction to Western Civilization 1 - 1151	1
349	CCP Introduction to Western Civilization 2 - 1152	1
412	CCP College Algebra 1141	1
528	CCP Chemistry 1120	1

The Following Classes Meet the Requirements for Weighted Grades.

All AP Courses Traditional and VLA
All College Credit Plus Classes
Pre-Calculus
Calculus
Physics
Chemistry II
Spanish IV
French IV

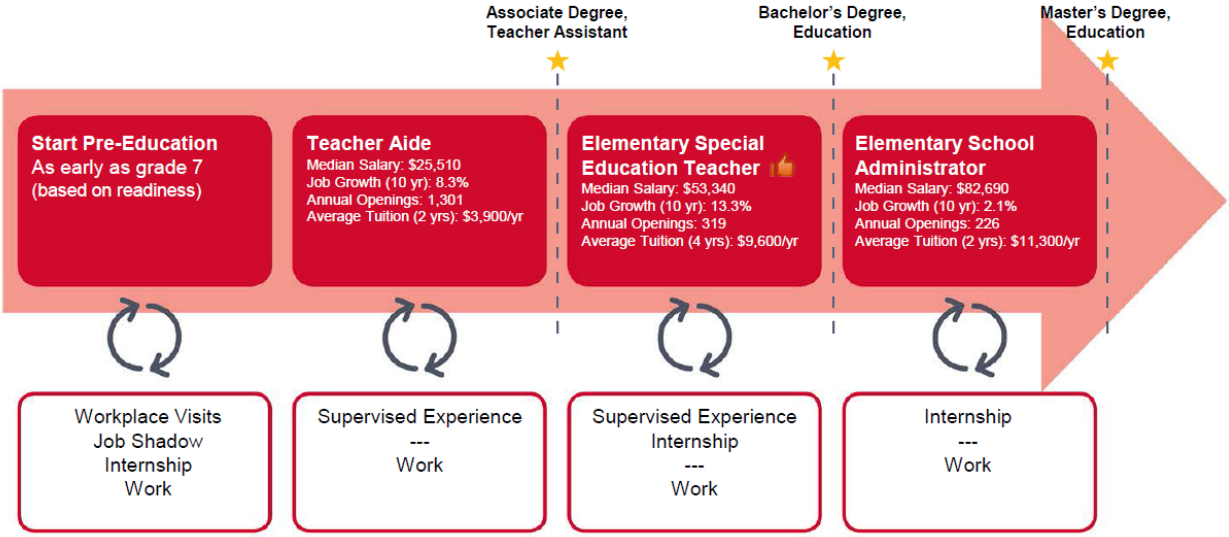
Weighted Point Values

Alpha Mark	Grade Scale	Point Values	Weighted Point Value
A	93-100	4.0	5.0
A-	90-92	3.67	4.67
B+	88-89	3.33	4.33
B	83-87	3.0	4.0
B-	80-82	2.67	3.67
C+	78-79	2.33	3.33
C	73-77	2.0	3.0
C-	70-72	1.67	2.67
D+	68-69	1.33	1.33
D	63-67	1.0	1.0
D-	60-62	0.67	.67
F	0-59	0	0

CAREER PATHWAYS

A Career Pathway is a collective look at education and training, wage and outlook information for related occupations. These pathways offer an overview of the various career options along with education and training that can begin as early as grade 7. Whether a student is interested in going to college, getting a certificate or working right after high school, career pathways can be customized for any ambition or plan. The curriculum at Madison-Plains offers a variety of opportunities for students. The following are possible career pathways for students attending Madison-Plains Local Schools.

Education and Training Career Pathway



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:
gainful employment and/or postsecondary study.

Ohio In-demand Occupations

Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit ohiohighered.org.

Education and Training Career Pathway

Secondary Pathway: **Teaching Professions** Postsecondary Program: **Teacher Assistant**

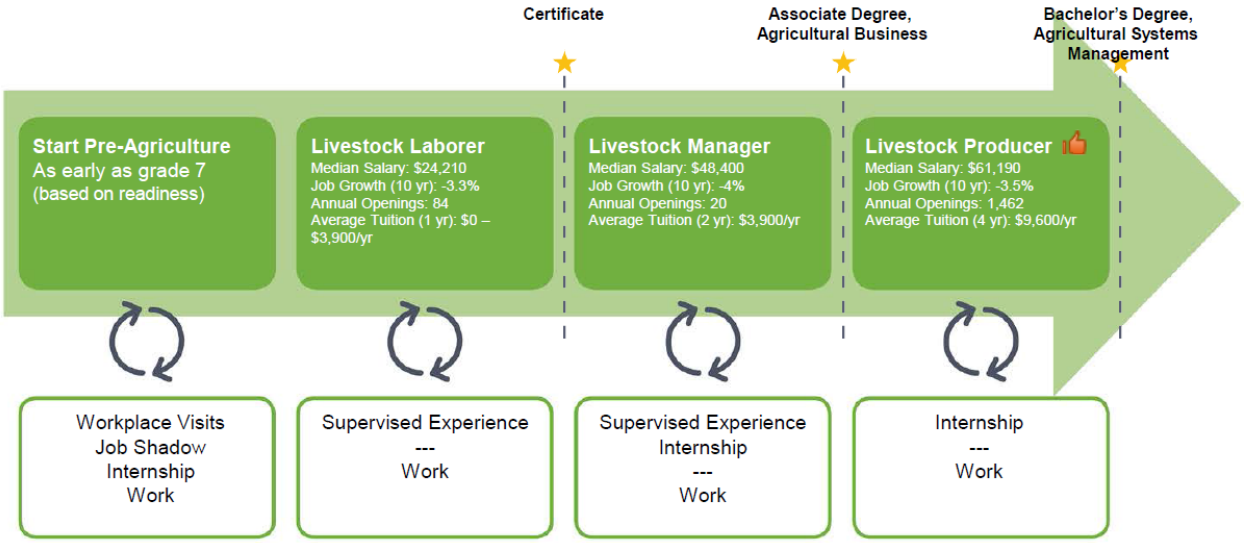
An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Introduction to Education & Training		
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	World Languages		
	11	English III	Algebra II	Chemistry	U.S. History	Teaching Professions I	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Teaching Professions II			
Postsecondary	Year 1 1st Semester	English Composition I	Intro to Education	Observing, Recording, Assessment	Childhood Guidance	Intro to Psychology	Early Education Seminar	Early Education Practicum	
	Year 1 2nd Semester	English Composition II	Biology	Child Development & Curriculum	Creative Curriculum	Language & Literacy Experiences	Human Development	Elementary Curriculum	Cognitive Curriculum
	Year 2 1st Semester	Business Math	Educational Psychology	Children with Exceptionalities	Families, Communities, & Schools	Practicum I	Seminar I		
	Year 2 2nd Semester	History	Educational Technology	Health, Safety, & Nutrition	Administration & Staff Dynamics	Education Capstone	Practicum II	Seminar II	

High School Career-Technical Education Program Courses
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses
Required Courses
Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information. *11/2014*
Course titles and sequences will vary between schools.

Agriculture and Environmental Systems Career Pathway



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Agriculture and Environmental Systems Career Pathway

Secondary Pathway: **Animal Science and Management** Postsecondary Program: **Livestock Management**

An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Animal & Plant Science	Ag, Food, & Natural Resources	
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Livestock Selection, Nutrition, & Mgt	World Languages	
	11	English III	Algebra II	Chemistry	U.S. History	Animal Health	World Languages		
	12	English IV	Trigonometry/ Calculus	Animal Anatomy & Physiology	U.S. Government	Business Management	A&E Capstone		
Postsecondary	Year 1 1st Semester	Technical Writing	Technical Math	Biology	Computer Applications	Introduction to Animal Production	Livestock Operations Management		
	Year 1 2nd Semester	Economics	Humanities Elective	Animal Anatomy & Physiology	Reproductive Management	Livestock Health	Livestock Selection & Evaluation	Agri-Business Co-Op Experience	
	Year 2 1st Semester	Business Communication	Social Science Elective	Records & Analysis	Operations Leadership	Animal Nutrition	Manure Management	Elective	
	Year 2 2nd Semester	Reproduction & Marketing Leadership	Livestock Genetics	Small Animal Production	Ruminant Nutrition	Farm Business Management	Elective		

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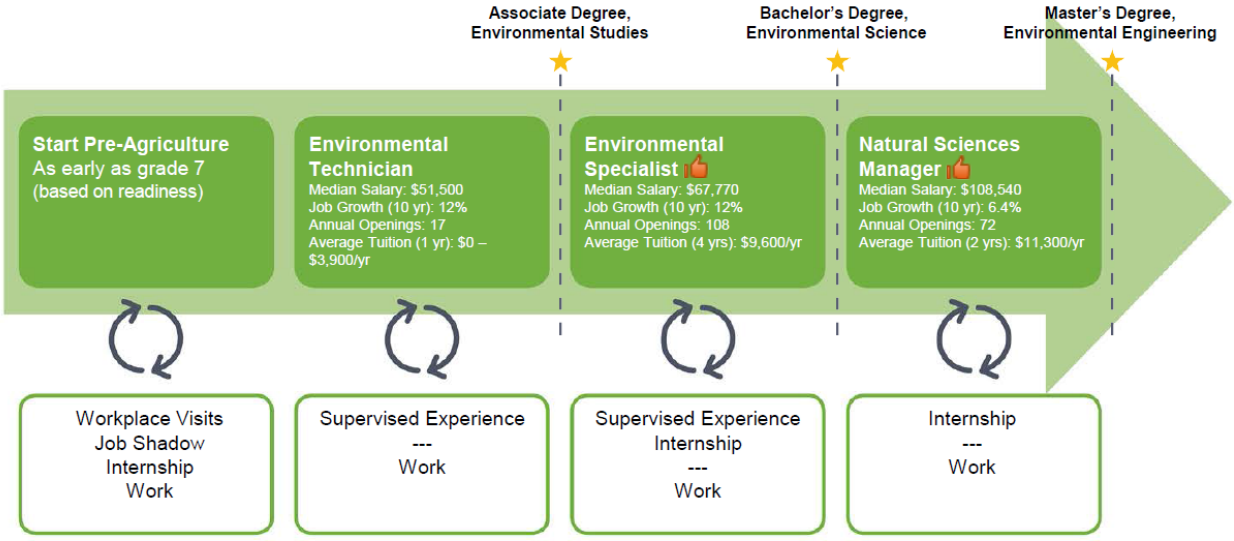
Agriculture and Environmental Systems Career Pathway



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Agriculture and Environmental Systems Career Pathway

Secondary Pathway: **Natural Resource Management** Postsecondary Program: **Environmental Science**

An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Ag, Food, & Natural Resources	Natural Resources	
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Environmental Science	World Languages	
	11	English III	Algebra II	Chemistry	U.S. History	Environmental Systems Management	Forestry & Woodland Ecosystems	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Park & Recreational Management	Urban Forestry		
Postsecondary	Year 1 1st Semester	English Composition I	Biology I	College Algebra	Intro to Environmental Science	Environmental Laws & Regulations	Health & Safety for Water Operation		
	Year 1 2nd Semester	Technical Writing	Chemistry I	Physical Geology	Environmental Aspects of Soils	Environmental Site Assessment	Pollution Control	Drinking Water Treatment	
	Year 2 1st Semester	Introduction to Psychology	Hazardous Materials Management	Environmental Hydrology	Environmental Sampling	Safety & Loss Prevention	OSHA General Industrial Safety & Health		
	Year 2 2nd Semester	Cultural Anthropology	Environmental Analytical Methods	Applied Environmental Engineering	Air Pollution & Monitoring	Environmental Restoration			

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Required Courses
Recommended Electives

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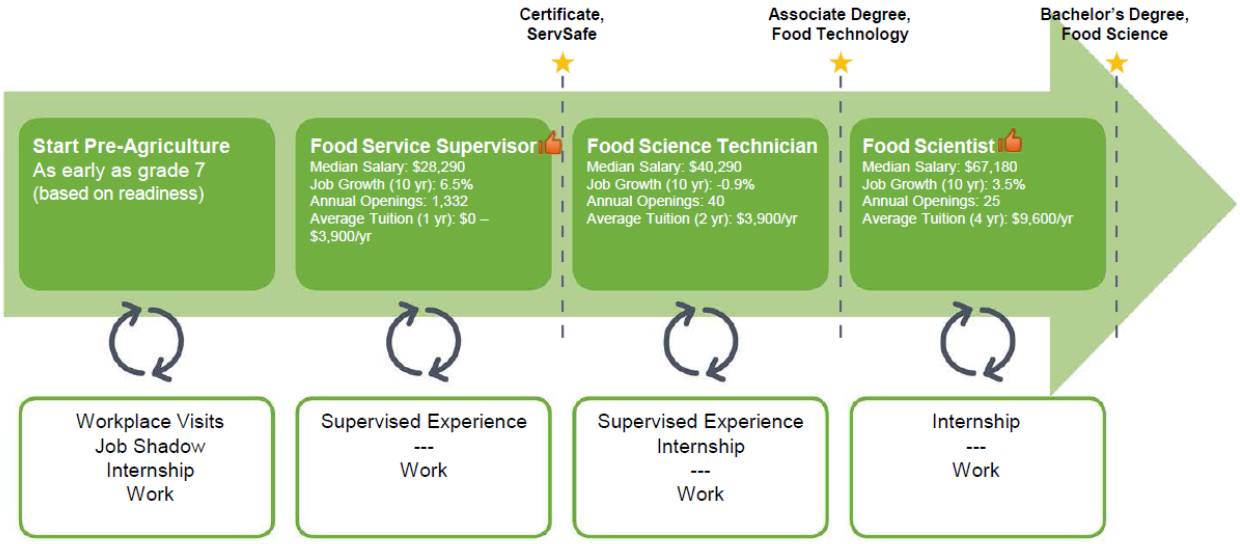
Agriculture and Environmental Systems Career Pathway



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Agriculture and Environmental Systems Career Pathway

Secondary Pathway: **Food Science and Technology** Postsecondary Program: **Food Science and Technology**

An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Science and Technology of Food	Ag, Food, & Natural Resources	
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Applications of Food Science & Safety	Principles & Practices of Bioscience	World Languages
	11	English III	Algebra II	Chemistry	U.S. History	Meat Science/ Genetics	World Languages		
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Food Marketing & Research	A&E Capstone	Agriculture Communication & Leadership	
Postsecondary	Year 1 1st Semester	English Composition	Intro to Food Science	Chemistry I	Human Nutrition				
	Year 1 2nd Semester	Public Speaking	Food Safety	Chemistry II	Biology I	Food Regulations			
	Year 2 1st Semester	Ethics	Technical Math	Advanced Food Science	Microbiology	Sensory Evaluation	Seminar		
	Year 2 2nd Semester	Product Development	HACCP Safety Training	Food Chemistry	Product Processing	Food Production			

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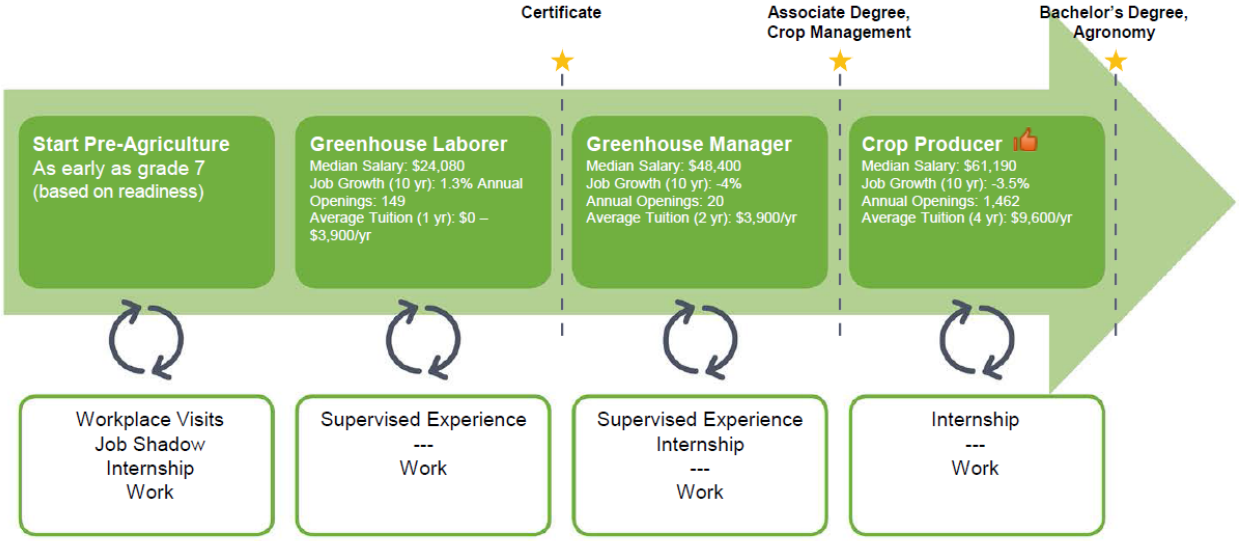

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Agriculture and Environmental Systems Career Pathway

Secondary Pathway: **Horticulture** Postsecondary Program: **Horticultural Science**

An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Ag, Food, & Natural Resources	Animal & Plant Science	
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Greenhouse & Nursery Management	Agronomic Systems	World Languages
	11	English III	Algebra II	Chemistry	U.S. History	Business Management	World Languages		
	12	English IV	Trigonometry/ Calculus	Anatomy & Physiology	U.S. Government	Ag Econ, International/ Commodities	A&E Capstone		
Postsecondary	Year 1 1st Semester	English I	Soil Science	Agriculture Survey	Animal Agriculture				
	Year 1 2nd Semester	English II	Technical Math	Biology	Soil Fertility	Ag Elective	Agri-Business Co-Op		
	Year 2 1st Semester	Public Speaking	Sales Management	Business Management	Plant Pests	Crop Production			
	Year 2 2nd Semester	Agriculture Seminar	Ag Marketing & Trade	Pest Management	Equipment Management	Humanities/ Social Science Elective			

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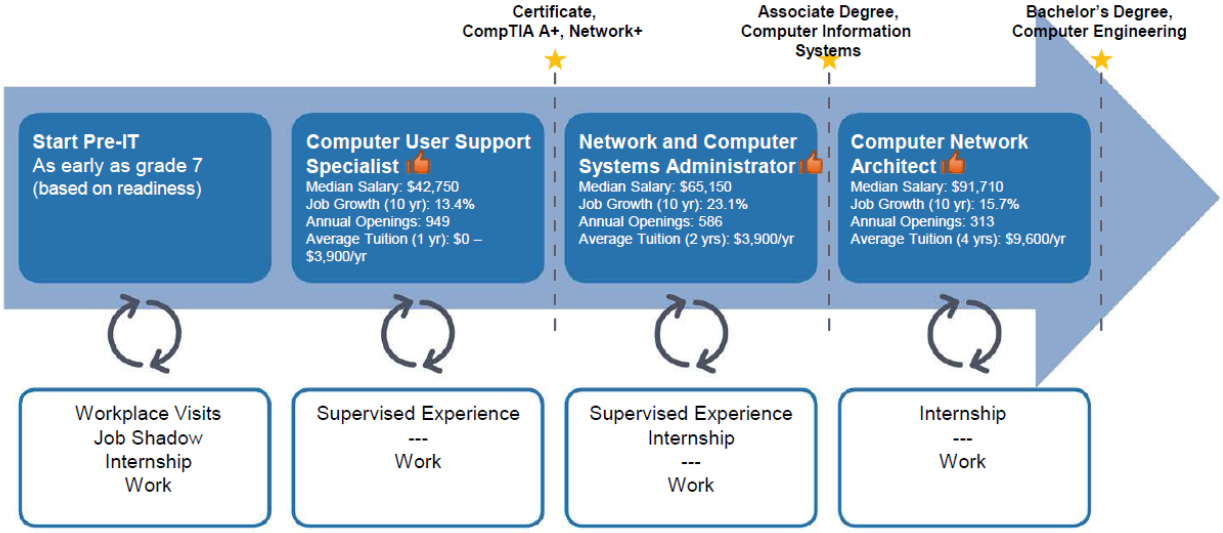
Information Technology Career Pathway



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Ohio In-demand Occupations

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Information Technology Career Pathway

Secondary Pathway: **Network Systems** Postsecondary Program: **Computer Networking**

An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Information Technology	Networking	
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Network Operating Systems	Network Management	World Languages
	11	English III	Algebra II	Chemistry	U.S. History	Network Security	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Routing & Switching			
Postsecondary	Year 1 1st Semester	Operating Systems & Software	Computer Hardware Support	Cisco I: Networking Technologies	Networking Fundamentals				
	Year 1 2nd Semester	English	TCP/IP	Cisco II: Basic Router Technologies	Network Administration				
	Year 2 1st Semester	Intro to Business	Technical Writing	Cisco III: LAN Switching & Wireless	Math	Natural Science Elective			
	Year 2 2nd Semester	Professional Success Strategy	Networking Capstone	Cisco IV: WAN Technologies	Arts & Humanities Elective	Social Science Elective			

High School Career-Technical Education Program Courses
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses
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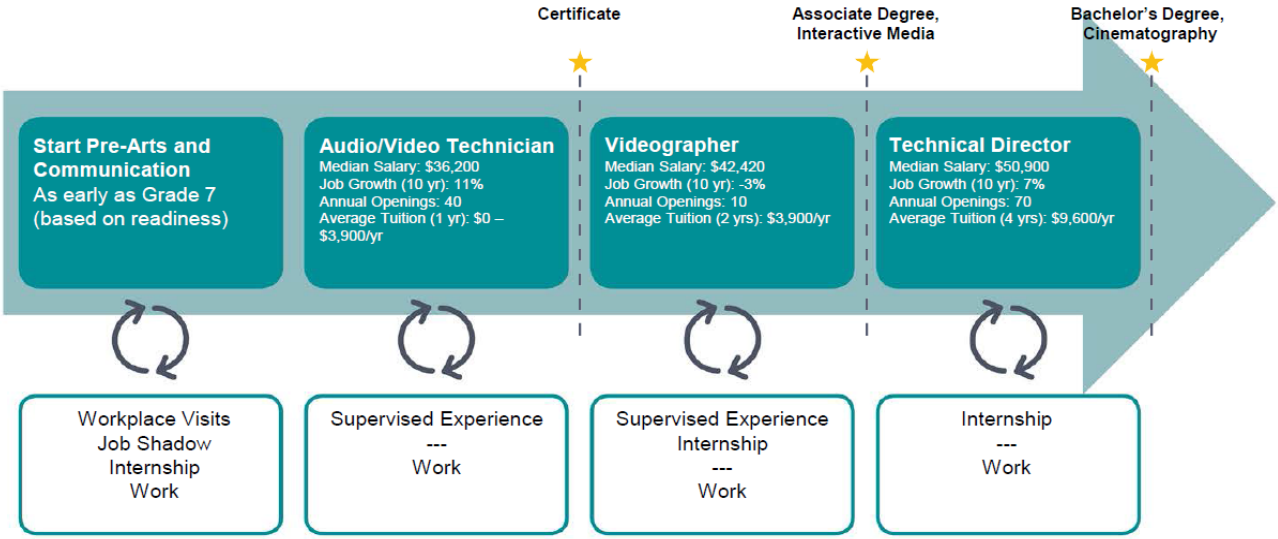
Arts and Communication Career Pathway



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Arts and Communication Career Pathway

Secondary Pathway: **Media Arts** Postsecondary Program: **Interactive Media**

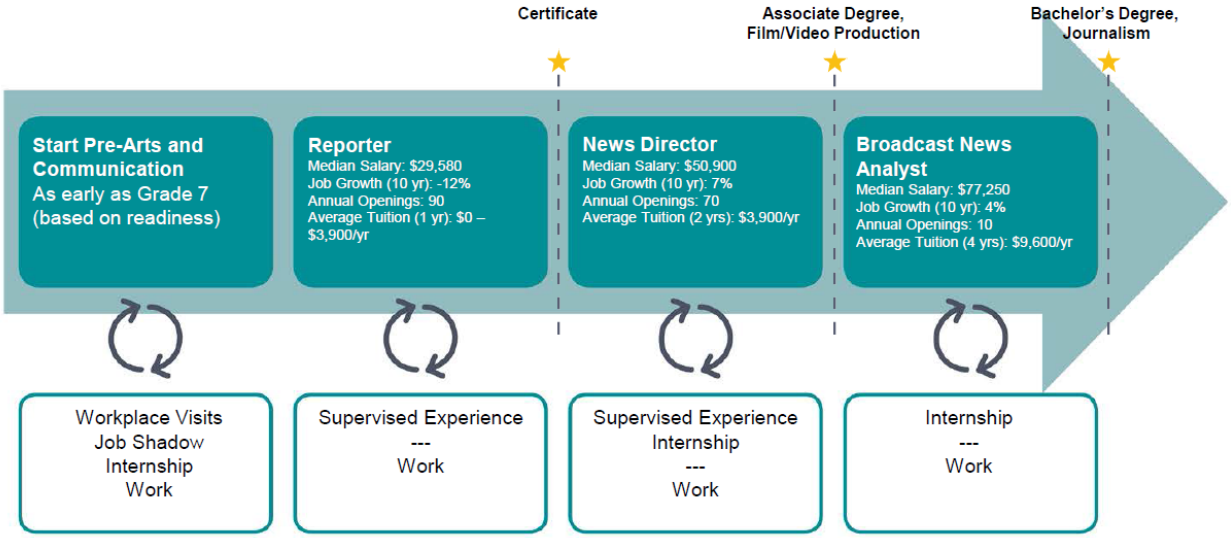
An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Arts & Communication Primer		
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Media Arts Introduction	Video Production	World Languages
	11	English III	Algebra II	Chemistry	U.S. History	Digital Cinema	World Languages		
	12	English IV	Trigonometry/ Calculus	Environmental Science	U.S. Government	Multi-Media Web Production	Arts & Communication Capstone		
Postsecondary	Year 1 1st Semester	English	Interactive Design Principles	Basics of Video & Sound	Intro to Computer Design	HTML	Biology		
	Year 1 2nd Semester	Storyboarding	Visual Communication	Intro to Humanities	CSS	Branding	Media & Graphics Optimization	Audio Production	
	Year 2 1st Semester	Statistics	Flash I & II	Sociology	Java-script Fundamentals	Content Management & Integration	Video Production		
	Year 2 2nd Semester	Web Design	Advanced Flash III	Interactive Portfolio	Interactive Media Practicum	Interactive Media Seminar	DVD Creation		

High School Career-Technical Education Program Courses
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses
Required Courses
Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information. *11/2014*
Course titles and sequences will vary between schools.

Arts and Communication Career Pathway



Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:
gainful employment and/or postsecondary study.

Ohio In-demand Occupations

Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit ohiohighered.org.

Arts and Communication Pathway Model

Secondary Pathway: **Media Arts** Postsecondary Program: **Film/Video Production**

An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Arts & Communication Primer		
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Introduction to Media Arts	Video Broadcast	World Languages
	11	English III	Algebra II	Chemistry	U.S. History	Media Arts Writing	World Languages		
	12	English IV	Trigonometry/ Calculus	Environmental Science	U.S. Government	Business of Arts & Communication	Video Production		
Postsecondary	Year 1 1st Semester	English	Digital Media Concepts	Intro to Audio/Visual Production	Market Research for Multimedia	Multimedia Information Design			
	Year 1 2nd Semester	Public Speaking	Videography	2D Graphics	English Composition	Technical Communication	Math for Technology		
	Year 2 1st Semester	Multimedia Information Design	Digital Video Editing	Applied 2D Graphics	Graphic Imaging Tech. Co-op	Audio Production & Sound Design	Video Editing & Compositing		
	Year 2 2nd Semester	Internship	Humanities Elective	Multi Camera Production & Lighting	Motion Graphics- After Effects	Audio/Video Capstone	Social Science Elective	Audio/Visual Elective	

High School Career-Technical Education Program Courses
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses
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Course titles and sequences will vary between schools.

COURSE DESCRIPTIONS BY DEPARTMENT

ENGLISH-LANGUAGE ARTS

The English-Language Arts program offers a wide variety of courses so that each student will be able to meet his/her academic needs. Each student selects those courses that are appropriate for the student's abilities in English-Language Arts, that will best strengthen his/her English-Language Arts skills, and that will most adequately prepare the student for his/her post-high school plans. Four units are required for graduation.

The following are the required course offerings and recommended sequences:

Grade 9	Civics-English Language and Literature I
Grade 10	Civics-English Language and Literature II
Grade 11	English-Language Arts III
Grade 12	English-Language Arts IV

In addition, the department encourages students to take one or more of the following electives.

Newspaper Journalism I
Newspaper Journalism II
Newspaper Journalism III
Introduction to Literature
Composition I
Composition II
Speech
Yearbook
Mythology*
Senior Seminar
Women & Literature*
Creative Writing*
Contemporary Literature*

** Availability of these courses depends upon course enrollment. Some courses may be offered alternating years.*

English-Language Arts Course Names and Course Numbers

Number	Course Name	Credit
265/280	Civics-English I “Language and Literature”	1
270/282	Civics-English II “ Language and Literature”	1
272	English-Language Arts III	1
203	English-Language Arts IV	1
212	Newspaper Journalism I	1
213	Newspaper Journalism II	1
215	Newspaper Journalism III	1
214	Yearbook	1
246	Senior Seminar	½
207	Mythology	½
278	Women & Literature	½
216	Creative Writing	½
247	Contemporary Literature	½
248	Introduction to Literature	½
200	Composition I	½
201	Composition II	½
202	Speech	½
VLA122	VLA-English Language Arts I	1
VLA123	VLA-English Language Arts II	1
VLA126	VLA-Integrated English language Arts I	1
VLA127	VLA-Integrated English language Arts II	1
VLA128	VLA-Integrated English language Arts III	1
VLA129	VLA-Integrated English language Arts IV	1
VLA131	VLA-Poetry	½
VLA130	VLA-Short Stories	½

COLLEGE AND CAREER READINESS CORE COURSES IN ENGLISH-LANGUAGE ARTS

CIVICS-ENGLISH I "LANGUAGE AND LITERATURE" (265,280) ……..…….…… year, 1 credit

This is the ninth grade English section of the Civics-English Program. This class is for all incoming freshmen. Students will be surveying grammar, vocabulary, reference, and literature skills that will be needed for the rest of the high school and college preparatory experience. Students will also be developing the reading, writing, and speaking skills needed for the ninth grade English end of course exam.

CIVICS-ENGLISH II "LANGUAGE AND LITERATURE" (270,282)…….……..……..…..year, 1 credit

This is the tenth grade English section of the Civics-English program. Students will be reinforcing and developing the grammar, vocabulary, literature, writing and speaking skills that were started in the ninth grade level of this program. In addition, students will be exploring selections from World Literature. Students in this class will be taking the PLAN college preparatory test, OGT, and the tenth grade end of course English exam.

ENGLISH-LANGUAGE ARTS III (272)…..……..……year, 1 credit

Designed for juniors, this course teaches students about the themes, style, and rhetorical features of prominent American texts. Students should expect to read and be accountable for no less than four full-length books and several shorter readings (short stories, poems, chapters of books, etc.). Assignments will focus on College and Career Readiness standards such as reading closely; citing examples and research; analyzing figurative language; understanding irony and ambiguity; gathering information; presenting information clearly; using correct and descriptive language; and correctly interpreting a variety of texts. Students will be required to complete a 6-page APA style research paper for completion of this class.

ENGLISH-LANGUAGE ARTS IV (203) ……..……year, 1 credit

This course teaches students about major British literary periods and takes an interactive approach to the study of literature by incorporating literary theory and reading comprehension, research, writing, listening, and speaking skills. Course study will include a variety of genres within British literature beginning with the Anglo-Saxon Period and ending with Twentieth Century Period literature. Composition in all genres is a major component of this course, as well as development of analytical and critical thinking skills. Grammar, mechanics, and usage will be covered within the context of the literature and writing. A formal, documented 7 page research paper is required. In order to prepare students for the college setting, two supplementary reading requirements are mandated each nine weeks.

ENGLISH ELECTIVES

These classes may not be offered every year. Please check the registration form to see if it is offered. Some course offerings are dependent on enrollment numbers.

NEWSPAPER JOURNALISM I (212)……year, 1 credit

(Sophomores, Juniors, and Seniors)

Students will write articles for the school newspaper, *The Eagle Eye* and assume all responsibilities associated with producing a newspaper (such as taking photographs, creating layouts, interviewing subjects, selling papers, etc.) In order to write effective articles, students will learn about interview techniques, the inverted pyramid, types of newspaper articles, parts of a newspaper, and newspaper layout. Students will also further develop their writing skills by reviewing common misuses of punctuation and words that are typically misused. Assignments will include numerous newspaper articles, quizzes, tests, and various daily assignments used to teach the principles of journalism.

NEWSPAPER JOURNALISM II (213) ……year, 1 credit

(Juniors and Seniors) (Pre-requisite: Must complete Newspaper Journalism I with a "C" or higher.)

Students will write articles for the school newspaper, *The Eagle Eye* and assume all responsibilities associated with producing a newspaper (such as taking photographs, creating layouts, interviewing subjects, selling papers, etc.). Students in Newspaper Journalism II will also serve as mentors to Newspaper Journalism I students.

NEWSPAPER JOURNALISM III (215) ……year, 1 credit

(Seniors) (Pre-requisite: Must complete Newspaper Journalism II with a "B" or higher.)

This course is intended for students who have completed Newspaper Journalism II with a "B" or better. Students will write articles for the school newspaper, *The Eagle Eye* and assume all responsibilities associated with producing a newspaper (such as taking photographs, creating layouts, interviewing subjects, selling papers, etc.). Students in Newspaper Journalism III will also serve as mentors to Newspaper Journalism I and II students.

YEARBOOK (214)…….year, 1 credit

(Juniors and Seniors) (*Pre-requisite: "C" or higher in current English class)*

This course is designed to teach the skills necessary to produce the school yearbook, which offers a complete record of an entire school year at MPHS. The year begins by planning the coverage for the school year and designing a unifying theme for the book. Students will study magazine journalism including layout and design techniques, writing and editing copy, and headlines and picture captions. This course provides the study of and practice in gathering and analyzing information, interviewing, note taking, and photography. Students will learn strategies of planning, proofing, marketing (ad sales), and distribution of the yearbook. At times, assignments and deadlines require staff members to work outside of the regular school day. Students will learn good work habits and are responsible for all phases of yearbook publication. Enrollment will be limited and is subject to approval by the advisor after completing an application.

SENIOR SEMINAR (246)……semester, ½ credit

The course consists of preparing an extensive research paper, a product or project stemming from the research, a presentation to a panel of judges, and a polished portfolio highlighting the student's work. Additionally a mentor is required for each student to assist the student in the process of the research project.

MYTHOLOGY: Myths, legends, fairy tales, and folktales (207)…… semester, ½ credit

(Juniors and Seniors) (Pre-requisite: Must have a "C" or better in current English course.)

Mythology is an elective class which introduces students to classical Greek mythology and the mythology of other cultures, as well as fairy tales, folktales, and legends.

WOMEN & LITERATURE (278)…….. semester, ½ credit

(Juniors and Seniors) (Pre-requisite: Must have a "C" or better in current English course.)

This course will follow the often neglected history of the evolution of women and their literature in the English language. It is a comprehensive overview of the female (and often feminist) literary tradition.

CREATIVE WRITING (216)…….semester, ½ credit

(Juniors and Seniors) (Pre-requisite: Must have a "C" or better in current English course.)

In this semester course, students will be asked to write in a variety of genres including poetry, creative non-fiction, plays, children's books, and a variety of short stories. They will learn the workshop model and learn the value of revision. Mentor texts will be used to help students reflect on their own craft.

CONTEMPORARY LITERATURE (247)…….semester, ½ credit

(Juniors and Seniors) (Pre-requisite: Must have a "C" or better in current English course.)

This course provides students with the opportunity to analyze, interpret, and respond to multiple genres of contemporary (1960-present) literature, with a focus on young adult literature and current authors. Students will read short stories, novels, poetry, drama, memoirs, film, non-fiction, and visual texts, and examine these texts as a reflection of the past, a mirror of the present and an indicator of the future. Areas of exploration will include the following: social responsibility, relationships, and individual empowerment. Students will be asked to read and analyze literature which may deal with mature themes faced by adolescents today. Therefore, students should consult their parents and receive their permission prior to enrolling in this course.

INTRODUCTION TO LITERATURE (248) .....semester, ½ credit

Students will review basic forms of literary and informational texts and read various short stories, essays, poems, speeches, excerpts of dramas, and novel excerpts. Emphasis will be placed on building reading, comprehension, and independent thinking and studying skills.

COMPOSITION I (200) …….semester, ½ credit

Students will review basic grammar and writing skills to build on prior knowledge and begin writing at the high school level. Topics covered will include basic sentence and paragraph structure, standard essay structure, and differing formats for various written genres. Students will write narratives, argumentative essays, and research essays.

COMPOSITION II (201) ……semester, ½ credit

(Pre-requisite: Must complete Composition I with a "C" or higher.)

Students will continue building on their writing skills from junior high and freshman year. This class will focus on honing writing skills, sentence variation, writing in various content areas, and more specific grammar skills. Topics covered will include parallelism, figurative language, and rhetoric, among others.

SPEECH (202) ……semester, ½ credit

This course introduces students to a variety of speaking situations. Class activities focus on basic public speaking skills. Students are required to give speeches, (informative, persuasive, demonstrative and entertaining), tell stories, conduct interviews, present an oral interpretation, and explore pantomime and drama. Library research and organization are stressed as part of speech preparation.

VLA ENGLISH LANGUAGE COURSES

*Courses marked require additional materials.

VLA-ENGLISH LANGUAGE ARTS I (VLA122)…….year, 1 credit

Students review writing conventions, including parts of speech, sentence combining, parallel structure, capitalization, and punctuation. They apply the writing process to develop persuasive, descriptive, narrative, and expository paragraphs. They also write business letters and a longer expository composition. Students will also read, analyze, and respond to various literary genres including poetry, short stories, nonfiction, and the novel, Neighbor Rosicky by Willa Cather.

VLA-ENGLISH LANGUAGE ARTS II (VLA123)…….year, 1 credit

Students review writing conventions, including parts of speech, sentence combining, parallel structure, capitalization, and punctuation. They will apply the writing process to develop argumentative/persuasive/opinion, narrative/descriptive, and informative/expository/explanatory paragraphs in various writings. They also write business letters, give a speech, and present a longer informative/expository composition. Students will read, analyze, and respond to various literary genres including poetry, short stories, nonfiction, and the novellas, The Pearl by John Steinbeck and Neighbor Rosicky by Willa Cather.

VLA-INTEGRATED ENGLISH LANGUAGE ARTS I (VLA126).....year, 1 credit

Students review writing conventions, including parts of speech, sentence combining, parallel structure, capitalization, and punctuation. They apply the writing process to develop persuasive, descriptive, narrative, and expository paragraphs. They also write business letters and a longer expository composition. Students will also read, analyze, and respond to various literary genres including poetry, short stories and nonfiction.

VLA-INTEGRATED ENGLISH LANGUAGE ARTS II (VLA127)…….year, 1 credit

Students review writing conventions, including parts of speech, sentence combining, parallel structure, capitalization, and punctuation. They will apply the writing process to develop argumentative/persuasive/opinion, narrative/descriptive, and informative/expository/explanatory paragraphs in various writings. They also write business letters, give a speech, and present a longer informative/expository composition. Students will read, analyze, and respond to various literary genres including poetry, short stories, nonfiction and novellas.

VLA-INTEGRATED ENGLISH LANGUAGE ARTS III (VLA128).....year, 1 credit

Students review the basics of grammar, refine writing, improve vocabulary, and delve into the world of American literature. Students apply the writing process to review paragraph writing and functional document writing such as business letters and resumes. Students also write longer descriptive and persuasive compositions and engage in several creative writing activities. They apply research skills to develop a persuasive speech. Students will also read, analyze, and respond to various genres in American literature, including poetry, short stories, nonfiction, and a novel.

VLA-INTEGRATED ENGLISH LANGUAGE ARTS IV(VLA129)…….year, 1 credit

In this course, students read and respond to English literature from the Anglo Saxon Period through the Twentieth Century. The first half of the course focuses on writing. Students apply the writing process to write paragraphs, persuasive and expository compositions, and reflective essays. They also engage in an extensive research project and develop a formal research paper. During the second semester, students read, analyze, and respond to various genres in British literature, including poetry, essays, and the Elizabethan drama, Romeo and Juliet by William Shakespeare.

VLA ENGLISH ELECTIVES

*Courses marked require additional materials.

VLA-POETRY (VLA131)…….. semester, ½ credit

Poems were selected to encourage and motivate students to read and enjoy American poetry. Students read and analyze poems and use the writing process to respond to poems. They also study literary terms related to each selection.

VLA-SHORT STORIES (VLA130)…….. semester, ½ credit

Stories were selected to encourage and motivate students to read and enjoy American literature. Students read several short stories and use the writing process to respond to each selection. They write a short story and independently complete research.

WORLD LANGUAGES

The foreign language department includes offerings in both French and Spanish. All college preparatory students should enroll in a foreign language.

Foreign language requirements vary by college; however, the department encourages three years of one language. A diploma of honors requires three credits of one foreign language or two credits of each.

World Language Course Names and Course Numbers

Number	Course Name	Credit
803	French I	1
804	French II	1
805	French III	1
812	French IV	1
801	Spanish I	1
802	Spanish II	1
807	Spanish III	1
808	Spanish IV	1
813	Hispanic Culture and Language	½
814	Cultural Diversity	½
VLA140	VLA-French I	1
VLA141	VLA-French II	1
VLA142	VLA-French III	1
VLA143	VLA-French IV	1
VLA144	VLA-Spanish I	1
VLA145	VLA-Spanish II	1
VLA146	VLA-Spanish III	1
VLA147	VLA-Spanish IV	1
VLA148	VLA-Latin I	1

FRENCH I (803)………………………………………………….……………………….…………….……...year, 1 credit

(Pre-requisite: "C" average in English is required)

This class is an introduction to French grammar and culture. Emphasis will be on listening, speaking, reading and writing in the present tense.

FRENCH II (804)…………………………………………….……………………………….…………year, 1 credit

(Pre-requisite: "C" average in French I is required)

This class continues the development of language including the past tense. Review of basic grammar skills is undertaken while students are advancing to new grammatical structures.

FRENCH III (805)…………………………………………………….…………………….……………...year, 1 credit

(Pre-requisite: "B" average in French II is required)

Emphasis is on listening and reading comprehension, advanced grammar, all verb tenses and increased conversation.

FRENCH IV (812) ……………………………………………………………………….……………...year, 1 credit

(Pre-requisite: "B" average in French III is required) (Weighted Grade)

This course develops mastery in certain areas of grammar while giving further practice in the four modes of communication on an advanced level. Novels and projects are intertwined in this advanced class.

SPANISH I (801)……………………………………………………………………………….……….....year, 1 credit

(Pre-requisite: "C" average grade in English is required)

This course is an introduction to basic Spanish grammar with emphasis on the development of speaking, listening, reading, and writing skills in the present tense. The students will learn the geography of the Spanish-speaking countries and culture.

SPANISH II (802)………………………………………………………………….…….……..………..year, 1 credit

(Pre-requisite: "C" average grade in Spanish I is required)

This course is a continuation of basic grammatical structures including past, future, and conditional tenses. An emphasis is placed on oral communication development and in depth look into cultures and traditions of the Spanish-speaking countries.

SPANISH III (807)……year, 1 credit

(Pre-requisite: "B" average is required in Spanish II)

This course stresses the importance of using the acquired skills from Spanish I and II through a variety of projects and exercises. Grammar includes all verb tenses not yet covered in Spanish I and II. There will be written essays, oral presentations, and intensive reading practice, and listening exercises. The students are required to communicate in the target language.

SPANISH IV (808)……year, 1 credit

(Pre-requisite: "B" average is required in Spanish III) (Weighted Grade)

Intensive reading, writing, and grammar refinement. Students read novels, write compositions, and give oral presentations. Emphasis is placed on vocabulary enrichment and improving the student's ability to listen and communicate. The course prepares students for college placement and/or advanced credits.

HISPANIC CULTURE AND LANGUAGE (813)…….semester, ½ credit

(Sophomores, Juniors, and Seniors only. This course may <u>not</u> be taken as a pre-requisite for Spanish II)

This is a semester course offered to students who want to learn cultural traditions of Hispanic America and basic communication skills in Spanish without rigorous grammar exercises. Students will learn mainstream Spanish culture and values. Students must be willing to participate verbally in the presence of classmates. There will be several projects of verbal nature aimed to gain knowledge of the Hispanic culture and language.

This course does not count as a foreign language credit.

CULTURAL DIVERSITY (814) ……semester, ½ credit

(Sophomores, Juniors, and Seniors only)

Students will learn an appreciation for various and diverse cultures of the world. The study will include a brief overview of the geography, history, lifestyles, and value systems of these cultures. Participants will be expected to work together to gather information and offer presentations to the class. This class will require a fair amount of personal involvement and interaction.

This course does not count as a foreign language credit.

VLA FOREIGN LANGUAGES

*Courses marked require additional materials.

VLA-FRENCH I (VLA140) ……..……..……..……..year, 1 credit

(Pre-requisite: "C" average in English is required)
Students in French I develop knowledge and skills to begin communicating in the target language. They speak, listen, read, and write the language in short sentences and paragraphs that contain the learned vocabulary words and phrases. Students also gain insight into the target culture by examining literature, music, laws, foods, values, traditions, and behaviors.

VLA-FRENCH II (VLA141) ……..……..……..……year, 1 credit

(Pre-requisite: "C" average in French I is required)
Students in French II will participate in simple conversational situations using sentences and groups of sentences. They create with the target language by combining and recombining learned phrases and words. Students write simple messages, read texts dealing with familiar topics, and understand main ideas when listening to conversations dealing with familiar topics or themes. Students also gain an awareness and understanding of, and appreciation for, cultural contributions made by people of the target language.

VLA-FRENCH III (VLA142) ……..……..……..……..year, 1 credit

(Pre-requisite: "B" average in French II is required)
Students in French III initiate and sustain conversations by making statements, asking questions, and giving appropriate responses. They communicate using correct time frames on everyday topics, both orally and in writing. When writing, students compose cohesive paragraphs related to familiar topics and personal experiences. Students develop understanding of main ideas and significant details in extended discussions and presentations, both live and recorded. They acquire new knowledge and information from texts including short literary texts and media. Students continue to expand their knowledge and understanding of the cultural significance of the target language.

VLA-FRENCH IV (VLA143) ……..……..……..……..year, 1 credit

(Pre-requisite: "B" average in French III is required)
Students in French IV speak and write the target language using coherent paragraphs. They learn to initiate, sustain, and bring to closure a wide variety of communicative tasks using appropriate time frames. They expand comprehension skills that allow them to acquire knowledge and information from comprehensive, authentic texts including literary texts and media. Students continue to develop insight into the nature of the target language and culture.

VLA-SPANISH I (VLA144) ……..year, 1 credit

(Pre-requisite: "C" average grade in English is required)
Students in Spanish I develop knowledge and skills to begin communicating in the target language. They speak, listen, read and write the language in short sentences and paragraphs that contain the learned vocabulary words and phrases. Students also gain insight into the target culture by examining literature, music, laws, foods, values, traditions, and behaviors.

VLA-SPANISH II (VLA145) ……..year, 1 credit

(Pre-requisite: "C" average grade in Spanish I is required)
Students in Spanish II participate in simple conversational situations using sentences and groups of sentences. They create with the target language by combining and recombining learned phrases and words. Students write simple messages, read texts dealing with familiar topics, and understand main ideas when listening to conversations dealing with familiar topics or themes. Students also gain an awareness, understanding of, and appreciation for cultural contributions made by people of the target language.

VLA-SPANISH III (VLA146) ……year, 1 credit

(Pre-requisite: "B" average is required in Spanish II)
Spanish III is offered to students interested in pursuing greater fluency in reading, writing, speaking and understanding the target language. The students will be required to recall previously learned words and phrases and build upon them as they learn to create more native-like writing and conversation. This course also continues with a more intense study of grammar and appreciation for cultural contributions made by people of the target language.

VLA-SPANISH IV (VLA147) ……..year, 1 credit

(Pre-requisite: "B" average is required in Spanish III)
Spanish IV is offered to those students interested in becoming proficient in reading, writing, speaking and understanding the target language. The students will be required to review all grammatical structure and recall previously learned vocabulary to strive for a native-like proficiency level as well as continue a more intense study of cultural aspects including art and literature. The student will be responsible for comprehension and discussion of these works in the target language as well as public presentation including personal opinion.

VLA-LATIN I (VLA148)……year, 1 credit

(Pre-requisite: "C" average grade in English is required)
A student in Latin I will see the influences of the Latin language on modern English. This first level course, consisting of thirty-six units, covers vocabulary, basic grammar, reading, word derivation and the influence of Roman civilization on the modern world. With some sincere effort, at the conclusion of this course, the student will be able to say just as Julius Caesar once did, "Veni, vidi, vici (I came, I saw, I conquered)."

MATHEMATICS

The mathematics program offers a variety of courses for students at all grade levels. Mathematically gifted students may work at an accelerated pace. Students are encouraged to take as many mathematics courses as possible. Current Instructor's approval is required for next course sequence. Freshmen and Sophomores will be placed in math classes.

Math Sequence of Courses

IF COMPLETED	THEN ENROLL IN:
Linear Algebra with A, B, C, D	Algebra I
Algebra 1 with A, B, C, D	Geometry
Algebra 1 with F	repeat Algebra 1
Geometry with A, B, C, D	Algebra 2
Geometry with F	repeat Geometry
Algebra 2 with A, B	Pre-Calculus
Algebra 2 with C, D	Transitions to College Math and Statistics
Algebra 2 with F	repeat Algebra 2
Pre-Calculus with A or B	Calculus
Pre-Calculus with C, D, F	Transitions to College Math and Statistics

*Geometry and Algebra II may be taken simultaneously. Algebra I must appear on the transcript to take Geometry or Algebra II.

Mathematics Course Names and Course Numbers

Number	Course Name	Credit
400	Algebra I	1
402	Algebra II	1
411	Geometry	1
447	Transition to College Math and Statistics	1
406	AP Statistics	1
403	Pre-Calculus	1
405	Calculus	1
444	Linear Algebra	1
VLA158	VLA-Algebra II	1
VLA161	VLA-Advanced Math	1
VLA162	VLA-AP Calculus AB	1
VLA163	VLA-Calculus	1
VLA164	VLA-Intervention Math	1
VLA165	VLA-Transition to College Math	½

ALGEBRA I (400)…….year, 1 credit

The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. It will cover the Ohio's Learning Standards for Math. Students may be hand scheduled in Linear Algebra prior to taking Algebra I based on the results of 7th and 8th grade state and Algebra Readiness Assessments. This class is a pre-requisite for Geometry. This class is a blended curriculum. It is recommended to have access to graphing calculators and internet access outside of the classroom.

ALGEBRA II (402)…….year, 1 credit

Students extend their repertoire of functions to include polynomial, rational, and radical functions. It will cover the Ohio's Learning Standards for Math. May be taken simultaneously with Geometry. This class is a blended curriculum. It is recommended to have access to graphing calculators and internet access outside of the classroom.

GEOMETRY (411)……..……..year, 1 credit

(Pre-requisite: Algebra I)

The fundamental purpose of this course in Geometry is to formalize and extend students' geometric experiences from the middle grades. It will cover the Ohio's Learning Standards for Math. May be taken simultaneously with Algebra II. This class is a blended curriculum. It is recommended to have access to graphing calculators and internet access outside of the classroom.

TRANSITION TO COLLEGE MATH AND STATISTICS (447)…….year, 1 credit

(Pre-requisite: Algebra II)

This course is an introduction to statistical and probability concepts. Topics to be studied include descriptive statistics, probability of finite sample spaces, probability distributions, hypothesis testing, confidence intervals and parameter estimation. It is a fast paced review of algebraic concepts designed to improve readiness for college. The course covers graphing of linear, polynomial and exponential functions as well as properties of exponents, rational expressions and solving quadratics and systems of equations. Scientific calculators required, graphing calculators strongly recommended.

AP STATISTICS ……. semester, 1 credit

(Weighted Grade)

This course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. Professional mathematics organizations have strongly endorsed the use of calculators in mathematics instruction and testing. The use of a graphing calculator in AP Statistics is considered an integral part of the course, thus it is a requirement that students have one of their own for use outside of the classroom. The students of this course will also be required to conduct a statistical study on their own as a final project for the course, with the majority of the work being done outside the classroom.

PRE-CALCULUS (403)…….. year, 1 credit

(Pre-requisite: Algebra II with a B average or teacher recommendation) (Weighted Grade)

The in depth study of functions including polynomial, quadratic, exponential, logarithmic, trigonometric, and conic sections, right triangle and unit circle perspectives. This will also include proving trigonometric identities, graphing of trigonometric functions, and the study of vectors. TI-83/84 calculators are required. This is a pre-requisite for Calculus.

AP CALCULUS (405)……year, 1 credit

(Pre-requisite: Pre-Calculus with a B average or teacher recommendation) (Weighted Grade)

This course is an introductory course in calculus, including differential and integral calculus. It is designed for students who have done well in previous college preparatory math courses and have a real desire to continue their mathematical growth. Topics include: derivatives of algebraic, log, exponential and trigonometric functions, the definite and indefinite integral, and basic integration techniques. Graphing calculators are required.

LINEAR ALGEBRA (444)…….year, 1 credit

Students will be hand scheduled in Linear Algebra based on the results of 7th and 8th grade state and Algebra Readiness Assessments. This course is given prior to Algebra I. This course covers the Ohio's Learning Standards: mathematic relationships, linear functions, statistical models, linear equations and inequalities, systems of linear equations and inequalities, and some non-linear functions (such as exponential). This class is a blended curriculum. It is recommended to have access to graphing calculators and internet access outside of the classroom.

VLA MATH COURSES

*Courses marked require additional materials.

***VLA-ALGEBRA II (VLA158).....year, 1 credit**

In this course, students will begin by reviewing basic algebra and geometry topics. They demonstrate fluency in operations with real numbers, vectors and matrices; represent and compute with complex numbers; use fractional and negative exponents to find solutions for problem situations; describe and compare the characteristics of the families of quadratics with complex roots, polynomials of any degree, logarithms, and rational functions. They investigate rates of change, intercepts, zeros and asymptotes of polynomial, rational, and trigonometric functions graphically and with technology; identify families of functions with graphs that have rotation symmetry or reflection symmetry about the y-axis, x-axis, or y =x. They solve problems with matrices and vectors, solve equations involving radical expressions and complex roots, solve 3 by 3 systems of linear equations, and solve systems of linear inequalities; solve quadratic expressions, investigate curve fitting, and determine solutions for quadratic inequalities. They investigate exponential growth and decay and use recursive functions to model and solve problems; compute with polynomials and solve polynomial equations using a variety of methods including synthetic division and the rational root theorem; solve inverse, joint, and combined variation problems; solve rational and radical equations and inequalities; and describe the characteristics of the graphs of conic sections. Students use permutations and combinations to calculate the number of possible outcomes recognizing repetition and order; compute the probability of compound events, independent events, and dependent events.

***VLA-ADVANCED MATH (VLA161)……..……..year, 1 credit**

In this course, students determine what properties hold for operations with complex numbers. They apply combinations as a method to create coefficients for the Binomial Theorem; solve problems involving derived measurements; use radian measures to solve problems involving angular velocity and acceleration; apply informal concepts of successive approximation, upper and lower bounds, and limits in measurement situations. Students use matrices to represent translations, reflections, rotations, dilations, and their compositions; derive and apply the basic trigonometric identities; relate graphical and algebraic representations of lines, simple curves, and conic sections. Students recognize and compare specific shapes and properties in multiple geometries; analyze the behavior of arithmetic and geometric sequences and series as the number of terms increases; translate between the numeric and symbolic form of a sequence or series. They describe and compare the characteristics of transcendental and periodic functions and represent the inverse of a transcendental function symbolically; solve systems of equations using matrices and graphs, with and without technology. They use mathematical induction and explore the concepts of limit; compare estimates of the area under a curve over a bounded interval by partitioning the region with rectangles; translate freely between polar and Cartesian coordinate systems; use the concept of limit to find instantaneous rate of change for a point on a graph as the slope of a tangent at a point. They use descriptive statistics to analyze and summarize data, including measures of center, dispersion, correlation, and variability; and use theoretical or experimental probability to determine probabilities in real-world situations involving uncertainty.

***VLA-AP CALCULUS AB (VLA162)……..……..year, 1 credit**

(Weighted Grade)

The study of AP Calculus AB in the Virtual Learning Academy (VLA) environment is designed for students who want to extend their knowledge of mathematics and broaden their success in solving problems intuitively. Students will rigorously explore, discover, and reinforce rich mathematics topics and applications of calculus concepts. The intent of this course is to give students a "true" understanding and interpretation of calculus concepts and enable them to apply their knowledge in varied problem-solving scenarios, both real and simulated. Students will complete many-in-depth investigations and often use the TI-Nspire graphing calculator as a tool to complete their investigations. Students will have ample opportunities to express and connect problem-solving results graphically, numerically and verbally. The culminating activity in this course will be the completion of the AP Calculus AB exam successfully. *Note: A TI-Nspire graphing calculator is required for this course.*

***VLA-CALCULUS (VLA163)……year, 1 credit**

Calculus is a course intended to cover topics similar to the topics explored in an entry-level College Calculus course offered at most colleges or universities. This course is written in accordance with the Ohio Academic Content Standards and includes such topics as Limits, Rates of Change, Differentiation, Functions of Derivatives, Indefinite and Definite Integrals, Areas in a Plane, Volumes of Generated Solids, L'Hôpital's Rule, and Slope Fields. This course can be demanding at times; however, when explored with an open mind, Calculus can be an enjoyable challenge. Be prepared to be amazed by how math works! *A Graphing Calculator is required for this course.* Instructions for using the graphing calculator will be based on a TI-84 Plus.

VLA MATH ELECTIVES

*Courses marked require additional materials.

***VLA-INTERVENTION MATH (VLA164)……year, 1 credit**

This course is designed to review the student in basic concepts necessary for success in applying mathematics involved in everyday life. The subject matter studied is familiar and motivational, integrating problem solving and focusing on real applications of mathematical skills. This course is designed primarily for the student who seeks to improve his or her knowledge of basic mathematics. Topics studied include computations and applications of whole numbers, decimals, fractions, ratios, and percent; measurement in metric and customary units; geometric figures, finding volume and surface area; statistics, graphs, and probability; and integers, the coordinate plane, and algebraic equations.

***VLA-TRANSITION TO COLLEGE MATH (VLA165)…….. semester, ½ credit**

This course covers traditional topics in college algebra and trigonometry at the freshman level. This course was written in accordance with the Ohio Academic Content Standards for grades 11 and 12 and includes such topics as: Systems of Linear Equations, Complex Numbers, Quadratic Functions, Logarithms, Trigonometry, Matrices, Vectors, and the Conic Sections.

SCIENCE

The Science program offers a variety of courses to meet the academic needs of students at all grade levels. With the assistance of both the science and guidance departments, students are advised to select those courses that are most appropriate for the particular year. Students are also encouraged to take the upper level elective courses to enhance their preparation for the rigors of post-graduation collegiate pursuits.

Three units are required for graduation including: Biology, a physical science, and an advanced science credit.

**Denotes courses that meet the physical science requirement*
***Denotes courses that meet the advanced science credit*
****Chemistry meets both the physical science credit and advanced science credit, but only counts as one credit toward graduation.*

Course offerings and suggested sequences:

Freshman	Sophomore	Junior/Senior
Biology	Chemistry***	Chemistry***
Integrated Physical Science*	Biology	Biology
	Integrated Physical Science*	Environmental Science**
		Chemistry II**
		Anatomy and Physiology**
		CTE Environmental Science for Ag and Natural Resources**
		CTE Plant and Animal Science**
		Physics**

Science Course Names and Course Numbers

Number	Course Name	Credit
504	Integrated Physical Science	1
500	Biology	1
511	Anatomy & Physiology	1
530	Chemistry	1
532	Chemistry II	1
535	Physics	1
555	Environmental Science	1
621	Engineering Your Future	1
659	CTE Environmental Science for Ag and Natural Resources	1 ½
656	CTE Animal and Plant Science	1 ½
VLA170	VLA-Physical Science	1
VLA171	VLA-Chemistry w/Lab	1
VLA172	VLA-Physics	1
VLA173	VLA-AP Physics w/Lab	1
VLA174	VLA-Integrated Biology Science	1
VLA175	VLA-Integrated Environmental Science	1
VLA176	VLA-Integrated Physical Science	1
VLA177	VLA-Integrated Science	½

INTEGRATED PHYSICAL SCIENCE (504)…….……..…….year, 1 credit

Students enrolled in Integrated Physical Science study the same topics presented in Physical Science to assure total alignment with the Academic Content Standards. However, assessment has been adapted to a more appropriate format and level of difficulty. This course addresses physical science and related principles in Earth and Space Sciences. Physical Science concepts include the nature of matter and energy; identifiable physical properties of substances; and properties of forces that act on objects. Students will learn about forces and motions, structures and properties of atoms, how atoms react with each other to form other substances, and how molecules react with each other or other atoms. Earth and Space Science topics include processes that move and shape the Earth, Earth's interaction with the solar system, and gravitational forces and weather. Students continue to develop a deeper understanding of the processes of scientific inquiry and how these processes use evidence to support conclusions based on logical reasoning. Students investigate ways in which science and technologies combine to meet human needs and solve human problems. Students will trace the historical development of scientific theories and ideas, explore scientific theories and develop their scientific literacy to become knowledgeable citizens.

BIOLOGY (500)…….……..…….year, 1 credit

Biology is a course based on the Ohio Science Content Standards and fulfills the Ohio Core requirement for life science. In this course, students will advance studies in the following: structure, function and natural cycles of living systems; molecular basis in heredity through genetics; base properties with emphasis on the levels of organization; interdependence and behavior or organisms through ecology; cellular structure and reproduction. By the conclusion of this course students will be able to describe how human activities can impact the status of natural systems, summarize the historical development of scientific theories and idea, and describe emerging issues in the study of life science, and explain that scientific knowledge must be based on evidence, be predictive, logical, subject to modification, and limited to the natural world. Extensive laboratory activities, dissections, and research projects will be part of this course.

ANATOMY AND PHYSIOLOGY (511) ……..……year, 1 credit

(Pre-requisite: Biology with a "B" average) (Juniors and Seniors)

A laboratory course designed to study the anatomy and physiology of the human body with emphasis placed on anatomy. This course is limited to juniors and seniors. This course is highly recommended for college preparatory students, pre-nursing students, or any student planning a career in a medical-related profession.

CHEMISTRY (530)……………..…………………………………………………………………………….….year, 1 credit

(Pre-requisite: Biology with a "B" average and Algebra I with a "B" average, or teacher recommendation)

Chemistry is a course based on the Ohio Science Content Standards and fulfills the Ohio Core requirement for advanced study in chemistry. This course will help students develop an understanding of chemistry, cultivate problem-solving and critical thinking skills related to chemistry, and apply chemistry knowledge to decision making about scientific technological issues. The course includes the major concepts, vocabulary and intellectual and laboratory skills expected in any introductory chemistry course. Students will study both inorganic and organic chemistry with an emphasis on chemical structure and chemical reactions and nuclear processes and reactions. Students should be proficient in Algebra 1 skills so that students may be successful with concepts such as the mole, solution concentration, and gas laws

RECOMMENDATION: The purchase of TI-83 Plus or comparable hand held calculator.

CHEMISTRY II (532)…………………………………………………………..………………………….. year, 1 credit

(Pre-requisite: Algebra II with at least a "B" average and Chemistry with at least a "B" average, or teacher recommendation) (ACT Readiness Scores) (Weighted Grade)

This course is designed to meet the requirements of a first-year college chemistry is organized in alignment with AP requirements. A current college textbook will be used. There will be increased emphasis on chemical calculations, mathematical formulation of principles, and the level of laboratory work done. Topics covered include: the structure of matter, atomic theory, chemical bonding, nuclear chemistry, states of matter, gases and gas laws, liquids and solids, solutions and solubility, reactions, stoichiometry, equilibrium, kinetics, and thermodynamics. After completing Chemistry II, students will be well-prepared for the college laboratory class or may test out of it altogether.

This course is currently being reviewed by the College Board of Regents for AP status. If permission is granted, this course will become AP Chemistry II.

PHYSICS (535)……year, 1 credit

(Pre-requisite: Algebra II with at least a "B" average and Chemistry with at least a "C" average, or teacher recommendation) (ACT Readiness Scores) (Weighted Grade)

Physics is a course that accelerates the Ohio Content Standards and fulfills the Ohio Core requirement for advanced study in physics. *This course is designed to stimulate and prepare students planning to pursue technical careers, attend technical school, or attend college and major in science, engineering, or other related fields.* In this course students will understand the roles of physics in current and future developments. By the conclusion of this course students will be able to apply principles of force and motion to mathematically analyze, describe, and predict the net effects on objects and systems; demonstrate that waves (sound, seismic, water and light) have energy and can transfer energy when they interact with matter; and explain how scientific evidence is used to develop and revise scientific predictions and theories. This course is a requirement for the Honors Diploma designation. Extensive math and laboratory activities are a part of this course.

RECOMMENDATION: The purchase of TI-83 Plus or comparable hand held calculator.

ENVIRONMENTAL SCIENCE (555)……year, 1 credit

(Juniors and Seniors) (Pre-requisite: Biology with at least a "B" average and Chemistry with at least a "C" average.)

This course is an advanced science course designed to extend the knowledge gained in Biology to prepare students for advancements in their educational career and entrance into the variety of fields of life science. Some chemistry is incorporated along with physical geology. The content for this course will align with the Ohio's Learning standards for Environmental Science. This course involves investigations which are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. Additionally, this course will explore populations and interactions between groups of organisms. A focus will be on the interactions of humans and the global environment. Students will also investigate problems facing the environment and the possibilities available to combat these issues. This course will leave students with an appreciation for the vast and complex world working together outside their window and the confidence to make decisions based on sound science. Extensive long-term laboratory research and field work may be involved along with data collection and class meetings outside of the designated regular class meeting time.

ENGINEERING YOUR FUTURE (621)…….…….year, 1 credit

(Pre-requisite: Algebra II which may be taken concurrently

Students will receive instruction in concepts and tools fundamental to solving engineering problems. Students will also need to use what they have learned in other courses, particularly math and sciences courses. The course is primarily project-based with instruction given in the context of the projects. Students are required to work together and will make frequent presentations to their peers. This is a year-long course. Elective science credit will be given

CTE ENVIRONMENTAL SCIENCE FOR AGRICULTURE AND NATURAL RESOURCES (659) .... 1 year, 1.5 credits

Students will study relationships between organisms and their environment. Principles of biogeochemical cycles, air-water-land relationships, non-point pollution, and wetlands will be applied. Students will examine fundamentals of resource development, agriculture sustainability, energy needs and pollution control. They will analyze and interpret data gathered from studies on the ecosystem. Throughout this course, students will develop responses to environmental problems and develop management strategies for responsible conservation and resource development.

Students enrolled in this course are required to be members of the Madison Plains FFA, Ohio FFA Association, and The National FFA Organization. They will be given opportunities to compete for Local, State, and National Recognition, through completion of a Supervised Agricultural Experience program and Outstanding participation in the FFA Chapter. *(4 Credits Wilmington College for two Ag classes, 4 Credits Southern State Community College. Read articulation agreement carefully for all credit details. Articulation agreement located in the Guidance Office)*

CTE ANIMAL AND PLANT SCIENCE (656) ……..……..year, 1.5 credits

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.

Students enrolled in this course are required to be members of the Madison Plains FFA, Ohio FFA Association, and The National FFA Organization. They will be given opportunities to compete for Local, State, and National Recognition, through completion of a Supervised Agricultural Experience program and Outstanding participation in the FFA Chapter. *(4 Credits Wilmington College for two Ag classes, 4 Credits Southern State Community College. Read articulation agreement carefully for all credit details. Articulation agreement located in the Guidance Office)*

VLA SCIENCE COURSES

*Courses marked require additional materials.

VLA-PHYSICAL SCIENCE (VLA170).……..……..……..year, 1 credit

Physical Science addresses related principles in Earth and Space Sciences. Physical Science concepts include the nature of matter and energy; identifiable physical properties of substances; and properties of forces that act on objects. Students will learn about forces and motions, structures and properties of atoms, how atoms react with each other to form other substances, and how molecules react with each other or other atoms. Earth and space science topics include processes that move and shape Earth, Earth's interaction with the solar system, and gravitational forces and weather. Students continue to develop a deeper understanding of the processes of scientific inquiry and how these processes use evidence to support conclusions based on logical reasoning. Students investigate ways in which science and technologies combine to meet human needs and solve human problems. Students will trace the historical development of scientific theories and ideas, explore scientific theories and develop their scientific literacy to become knowledgeable citizens.

VLA-CHEMISTRY W/LAB (VLA171).....year, 1 credit

Do you wonder why you have to take Chemistry? To put it as straightforward as possible, chemistry is everywhere. From the clothes you wear to the cell phone you use, the food you eat, and the car you ride in; chemistry involves understanding the physical and chemical nature of substances known as matter. Not exciting enough? How about this? If you can speak the language of chemistry, you will find yourself with access to a whole new molecular world, a world where billions of dollars are made every day and have been made for centuries. Here's the best part, you don't have to be a chemist or a researcher with a PhD.

With the wealth of information available to every person with web access, just knowing content is no longer acceptable. Employers of today want people who can take this large amount of information and process it quickly. In this course you will be taught to reason scientifically, communicate using chemical and physical terminology unique to chemistry, and examine the theories that led to and are still leading to new discoveries every day. Most importantly, you will take what you have learned and apply critical thinking skills to evaluate, predict, and apply your own theories or to confirm the theories of other people.

In essence, you are being asked to learn a new language and to take this new language and communicate with others. If you were taking a foreign language class, you would learn how to read, write and articulate that language. In this course, you will do the same thing, except this time, you will learn the language of chemistry.

VLA-PHYSICS (VLA172).....year, 1 credit

The Physics course addresses the science of matter and energy and the interactions between the two. This study is grouped in traditional fields such as motion, acoustics, optics, thermodynamics, electrical applications, magnetism, and nuclear applications. Students have the opportunity to explore basic science processes of inquiry and scientific investigation as they progress through the course.

VLA-AP PHYSICS W/LAB (VLA173)……..……..…….year, 1 credit

(Weighted Grade)

Physics is described as the study of matter and energy, how matter and energy relate to each other, and how they affect each other over time and through space. Physicists ask the fundamental questions. How did the universe begin? How and of what is it made? How does it change? What rules govern its behavior? Through research and understanding those basic questions came laws, theories and principles. Physics is the study of our physical world and the fundamental laws of nature on which all science is based. Topics to be covered are Newtonian mechanics, energy, momentum, static mechanics, fluid mechanics, waves, sound and light.

*Required Course Fee

VLA-INTEGRATED BIOLOGY SCIENCE (VLA174)……..……..…….year, 1 credit

Students enrolled in Integrated Bio Science study the same topics presented in Life Science to assure total alignment with the Academic Content Standards. However, assessment has been adapted to a more appropriate format and level of difficulty. This course emphasizes the concepts, principles and theories that enable people to understand the living environment. Students study life science concepts such as cells and their structure and function, the genetic and molecular bases of inheritance, biological evolution, and the diversity and interdependence of life. Students explain the Earth's history using geologic evidence, identifying the Earth's resources, and exploring processes that shape the Earth. The flow of energy and the cycling of matter through biological and ecological systems are addressed in the Integrated Bio Science course. Embedded throughout this study are the basic science processes of inquiry, modeling investigations and the nature of science. Students learn to trace the historical development of scientific theories, ideas, ethical guidelines in science, the interdependence of science and technology, and the study of emerging issues to become scientifically literate citizens.

VLA-INTEGRATED ENVIRONMENTAL SCIENCE (VLA175)…….……year, 1 credit

Students enrolled in Differentiated Environmental Science study the same topics presented in Environmental Science to assure total alignment with the Academic Content Standards. However, assessment has been adapted to a more appropriate format and level of difficulty.

The students draw on their previous experience and connect Earth, space, life and physical sciences into a coherent study of the environment. Emphasis is placed on the interactions between humans and Earth, ecosystems, biological evolution, populations and diversity. Students also explore matter and energy relationships. The human interactions with science and technology are discussed, as well as how man has modified current ecosystems and natural systems. Students have the opportunity to use basic science processes of inquiry, scientific investigation, and the nature of science to examine past events, current situations, and to develop and revise scientific predictions, ideas or theories.

***VLA-INTEGRATED PHYSICAL SCIENCE (VLA176)…….……year, 1 credit**

Students enrolled in Integrated Physical Science study the same topics presented in Physical Science to assure total alignment with the Academic Content Standards. However, assessment has been adapted to a more appropriate format and level of difficulty. This course addresses physical science and related principles in Earth and Space Sciences. Physical Science concepts include the nature of matter and energy; identifiable physical properties of substances; and properties of forces that act on objects. Students will learn about forces and motions, structures and properties of atoms, how atoms react with each other to form other substances, and how molecules react with each other or other atoms. Earth and Space Science topics include processes that move and shape the Earth, Earth's interaction with the solar system, and gravitational forces and weather. Students continue to develop a deeper understanding of the processes of scientific inquiry and how these processes use evidence to support conclusions based on logical reasoning. Students investigate ways in which science and technologies combine to meet human needs and solve human problems. Students will trace the historical development of scientific theories and ideas, explore scientific theories and develop their scientific literacy to become knowledgeable citizens.

VLA-INTEGRATED SCIENCE (VLA177)…….. semester, ½ credit

This is a survey course aligned with the twelfth grade Academic Content Standards. Students learn about cell specialization, biotechnology, DNA, evolutionary theory, equilibrium of systems, electromagnetic radiation, isotopes, radioactive decay, and concepts of forces and motion as applied to large and small objects and energy levels. Integrated with these topics are historical perspectives, the process of inquiry, the nature of science, ethical practices and the use of appropriate technology. Students apply the principles of forces and motion and describe and predict the net effects of forces and motion of objects or systems. Students explore scientific research, scientific literature, and the relationship of science and society.

SOCIAL STUDIES

Students have a wide range of social studies classes from which to choose at the high school. Students choose their classes based upon their interests and abilities at the four grade levels. The Ohio Department of Education requires 3 units of social studies credits for graduation; at least ½ credit is to include Government.

The student, with the advice of parents, teachers, and guidance counselors, selects the social studies classes which will best strengthen his/her social studies skills and prepare the student for their future.

The following classes are available:

Grade 9	Civics-English I "American History"
Grade 10	Civics-English II "World Studies"
Grade 11	American Government, American History, Economics, Sociology, Modern American History, Ohio History,
Grade 12	World History, Modern American History, AP American History, Ohio History, Sociology, and Economics

Social Studies Course Names and Course Numbers

Number	Course Name	Credit
280/345	Civics-English I "American History"	1
282/330	Civics-English II "World Studies"	1
340	AP American History	1
320	Economics	½
306	Sociology	½
301	American Government	1
300	CCP/AP American Government	1
339	World History	1
308	Modern American History	½
309	Ohio History	½
VLA100	VLA-World History	1
VLA101	VLA-U.S. History	1
VLA102	VLA-Government	½
VLA103	VLA-Geography	½
VLA104	VLA-Citizenship	½
VLA105	VLA-Sociology	½
VLA106	VLA-Psychology	½
VLA107	VLA-Economics	½

CIVICS-ENGLISH I "AMERICAN HISTORY" (280,345)…….....year, 1 credit

This class is required for all ninth grade students. Students explore the time period from 1750 to 1790 and Industrial Age to the present. Events from American history are studied in the context of world events from this time period. This class focuses on six key learning elements; American history, the roles of people in diverse societies, how people around the world interact, decision-making, the principles and processes of democracy, and the rights and responsibilities of citizenship. Students will be taking the American History end of course exam.

CIVICS-ENGLISH II "WORLD STUDIES" (282,330)…….……..…….year, 1 credit

This is the second year of the Civics-English program. World Studies is a survey course that explores the key events and global historical developments since the time of classical civilization that have shaped the world we live in today. The scope of the class includes all aspects of human experience: economics, science, religion, philosophy, politics and law, military conflict, literature and the arts.

The course will illuminate connections between our lives and those of our ancestors around the world. Students will uncover patterns of behavior, identify historical trends and themes, explore historical movements and concepts, and test theories. Students will have the opportunity to take part in special activities, such as the class trip to New York and Philadelphia.

AP AMERICAN HISTORY (340)…….……year, 1 credit

(Weighted Grade)

This class is a special college preparatory course equivalent to a college freshman class in American history. Various content, ideas, and historical interpretations of American history are studied along with some primary source materials. Students in the class may elect to take the annual advanced placement test in May. College credit may be earned with a high enough score on this nation-wide test. Major periods of American history examined include: The founding, revolution confederation, and Constitutional periods, Jeffersonian and Jacksonian democracy, developments in the West, the sectional disputes, Civil War, the rise of big business, labor and modern America, the populists, progressive, expansionists, and war, reasons for boom, depression, New Deal, the crucial decade, cold war, Korea, and recent presidential administration.

ECONOMICS (320)…….…semester, ½ credit

(Juniors and Seniors)

In this course the student will study the three types of economic systems with particular emphasis on the market economy. The course focuses on the basic laws of economics and the application of the laws to personal financial decisions. Students will begin and conduct their own business.

SOCIOLOGY (306)……..……..semester, ½ credit

(Juniors and Seniors)

Sociology is a science that studies human society and social behavior. The focus is on group behavior rather than individual behavior. Subjects that are dealt with in this class are adolescence, adulthood, race, gender, age, deviance, social stratification, the family, and education.

AMERICAN GOVERNMENT (301)…….……..year, 1 credit

This is a course dealing with American government. Emphasis is placed on the three major branches of national government. An important goal of this course is to help the student become a more responsible citizen. Current events are discussed and shown how they fit into present American government. This is moving to the 11th grade therefore Juniors and Seniors will be required to take this per graduation requirement. End of course exam will be given.

*If AP designation granted, course will become AP American Government

CCP/AP AMERICAN GOVERNMENT (300)…….……..year, 1 credit

This is a college preparatory course devoted to the three branches of government: Legislative, Judicial, and Executive branch. This class is taught with tremendous amounts of writing. Students will take the Advance Placement test in Government in May.

WORLD HISTORY (339)…….……..year, 1 credit

A survey of the major historical periods in civilization from early beginnings to 1500 A.D. is covered in the first semester and present times will be covered by the end of the year. Students will gain perspectives on both western and world civilization. This class focuses not only on historical developments but those in the arts, philosophy, and science as well. World Civilization does not provide the government credit required for graduation. Students must take American Government for graduation and the government end of course exam.

MODERN AMERICAN HISTORY (308)…….……..semester, ½ credit

(Juniors and Seniors)

Study of modern American history starting post World War II and continuing into the 21st Century. Focus on the Cold War, Vietnam War, 9/11 and present day conflicts. Study of American policies and world affairs, development into a world super-power and culture/civilization/leadership.

OHIO HISTORY (309)……semester, ½ credit

(Juniors and Seniors)

Study of early Ohio from the Hopewell era through the American Civil War and into the 20th Century. The course will emphasize the Native American influences and pioneer struggles that carried Ohio into the mid-1800's. Study of the original settlers of the Ohio territory, Thomas Worthington and the early territorial government, early development of the state, War of 1812, early transportation and education, Ohio's contributions during the Civil War, and leadership.

VLA SOCIAL STUDIES COURSES

*Courses marked require additional materials.

VLA-WORLD HISTORY (VLA100).....year, 1 credit

In this course, students will continue the chronological study of world history. As students study historic eras, they consider the influence of geographic settings, cultural perspectives, economic systems and various forms of government. Students gain a deeper understanding of the role of citizens and continue to develop their research skills.

VLA-U.S. HISTORY (VLA101)……year, 1 credit

In this course, students will study the chronological order of the history of the United States with emphasis on domestic affairs. As students study historic eras, they consider the geographic, cultural, economic and governmental changes that have occurred. Students develop a deeper understanding of their role as citizens and continue to expand their command of social studies skills and methods.

VLA-GOVERNMENT (VLA102)…….. semester, ½ credit

In this course, students will focus upon the historic roots of the political system and how it has changed over time. It also continues to develop an understanding of the rights and responsibilities of citizenship.

VLA SOCIAL STUDIES ELECTIVE COURSES

*Courses marked require additional materials.

VLA-GEOGRAPHY (VLA103)..... semester, ½ credit

In this course, students will have the opportunity to study the interaction of people and cultures, as well as natural and physical environments in the major areas of the world. The course is designed to familiarize students with the world and how they, along with their community, can play a role in the development of the world. Students will also study and develop an understanding of various regions of the world and will focus on several geographic topics in each region. In addition, students should develop an understanding of how physical geography impacts the way humans live and interact with their world and how humans have changed the world's physical geography. As citizens our lives are greatly impacted by the rest of the world and this is our opportunity to learn about many of these places and issues.

VLA-CITIZENSHIP (VLA104)..... semester, ½ credit

In this course, students will focus on current events and recent history while being allowed to choose topics of particular interest. Students demonstrate skills necessary for active, effective citizenship.

VLA-SOCIOLOGY (VLA105)..... semester, ½ credit

This course is an introduction to the field of Sociology. Students will have the opportunity to explore the study of social relationships in a variety of areas. The students begin by understanding what sociology is, then learn how sociology applies to real life. Students examine topics that they can relate to, such as cultural diversity, adolescent development, and society's rules. Students gain an understanding of society's functions and how people function in society. At the conclusion of this course, students will have insight to themselves, to other people in their lives, and to their world as a whole.

VLA-PSYCHOLOGY (VLA106)…….. semester, ½ credit

The Study of Psychology is a fascinating look at human development and behavior. Psychology is a social science like criminology and sociology. It is a study of what makes us unique as human beings. There are mental processes or procedures that humans use to interact and function successfully. As children grow physically, emotionally and psychologically, they are influenced by many factors. Psychologists and psychiatrists are people who can directly affect the lives of children in need. A study of the types of psychologists and psychiatrists is included in unit one. Also studied are key vocabulary words used in psychology. There is a study of a family and its interactions with each other that allows students to see a character as he or she develops into adulthood.

VLA-ECONOMICS (VLA107)…….. semester, ½ credit

In this course, students will learn the personal economic responsibilities highlighted in this course. General topics addressed include: effects of shortages and surpluses, incentives; inflation, components of the economic system, supply and demand, purchasing power of money, comparative advantage, trade, exchange rates, taxes, role of individuals, and consequences of economic choices.

BUSINESS & TECHNOLOGY

Business & Technology Course Names and Course Numbers

Number	Course Name	Credit
178	Business Management A	½
179	Business Management B	½
181	Cisco Certified Network Associate (CCNA)	1
182	CTE Computer Hardware and Installation	½
183	CTE Introduction to Television & Radio Production	1
184	CTE Office Management	1
185	CTE Web Design	½
187	CTE Marketing Principles	½
188	CTE Strategic Entrepreneurship	1
189	CTE Business Foundations	1
190	CTE Management Principles	1
VLA190	VLA-Digital Skills	½
VLA191	VLA-Introduction to the Internet	½
VLA194	VLA-Microsoft Excel 2007	½
	VLA-Microsoft PowerPoint 2007	½
VLA195	VLA-Microsoft Word 2007	½

BUSINESS MANAGEMENT (A) (178)…….semester, ½ credit

(Business Management A and B is a graduation requirement for the Class of 2015 and 2016)

This class will be taught as a foundation class to allow students the opportunity to learn how to use computers and their applications. Students will be exposed to the OCIS (Ohio Career Information's System), software applications that will include word processing, spreadsheets and databases. Students will also explore desktop publishing and presentations. Open to Juniors and Seniors to complete their graduation requirement. Freshman and Sophomores may take it if they feel they do not possess skills in basic computer operation.

BUSINESS MANAGEMENT (B) (179)…….…semester, ½ credit

(Class is open to freshman, sophomores, juniors and seniors. Business Management B may be used as the ½ credit Economics class for classes of 2017 and 2018)

This class is taught as a financial management class. Students will be required to learn basic skills in home financial accounting. Students will also be required to demonstrate skills in Job Interviewing and learning to create a family budget.

CISCO CERTIFIED NETWORK ASSOCIATE (CCNA) (181) ……..year, 1 credit

(Pre-requisite: Information Technology Fundamentals)

The Cisco CCNA curriculum helps students prepare for entry-level career opportunities, continuing education, and the globally recognized Cisco CCENT and CCNA certifications. Our new CCNA Routing and Switching curriculum aligns with the latest CCENT and CCNA certification exams.

Cisco Certified Network Associate (CCNA) Routing and Switching is a certification program for entry-level network engineers that helps maximize your investment in foundational networking knowledge and increase the value of your employer's network. CCNA Routing and Switching is for Network Specialists, Network Administrators, and Network Support Engineers with 1-3 years of experience. The CCNA Routing and Switching validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks.

CTE COMPUTER HARDWARE AND INSTALLATION (182) …….……semester, ½ credit

Students will learn the basic understandings of the Information Technology world. Students will obtain real world skills by application in areas such as repairing, installation, configuration, and troubleshooting.

CTE INTRODUCTION TO TELEVISION AND RADIO PRODUCTION (183) …….……year, 1 credit

Students will create professional video and audio productions. Students will plan, produce, edit, and launch products. Students will develop scripts and storyboards, compose shots and operate cameras, apply special effects techniques, and edit final products.

CTE OFFICE MANAGEMENT (184) ……year, 1 credit

Students will apply techniques used to manage people and information in a business environment. Students will learn to build relationships with clients, employees, peers and stakeholders and to assist new employees. They will manage business records, gather and disseminate information, and preserve critical artifacts. They will also examine contracts, internal controls and compliance requirements. Business office tools and applications will be emphasized.

CTE WEB DESIGN (185) ……semester, ½ credit

Students will learn the basic dynamics of the Web environment. Students will understand different types of code and how to use them. Students will create basic websites using multiple platforms.

CTE MARKETING PRINCIPLES (187) ……semester, ½ credit

Students will be introduced to basic marketing concepts and principles. Students will obtain knowledge and skills in marketing communications, research, merchandise, professional selling, marketing strategies, marketing techniques, employable skills, business ethics and law, economic principles, and international business. Technology, leadership, and communication skills will be incorporated in classroom activities.

STRATEGIC ENTREPRENEURSHIP (188) ……year, 1 credit

Students will use innovation skills to generate ideas for new products and services, evaluate the feasibility of ideas, and develop a strategy for commercialization. They will use technology to select target markets, profile target customers, define the venture's mission, and create business plans. Students will take initial steps to establish a business. Students will calculate and forecast costs, break-even, and sales. Establishing brand, setting prices, promoting products, and managing customer relationships will be emphasized.

BUSINESS FOUNDATIONS (189) ……year, 1 credit

Students will obtain knowledge and skills in fundamental business activities. They will acquire knowledge of business processes, economics and business relationships. Students will use technology to synthesize and share business information. Employability skills, leadership and communications and personal financial literacy will be addressed.

MANAGEMENT PRINCIPLES (190) …….year, 1 credit

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

VLA BUSINESS AND TECHNOLOGY COURSES

*Courses marked require additional materials.

VLA-DIGITAL SKILLS (VLA190)…… semester, ½ credit

This course focuses on the skills that students will need to be successful as digital citizens in a global economy. The topics that this course will cover have been selected to give the student an understanding of technology and the ability to use productively use technology in their daily lives. Students graduating from high school today will need to have the ability to analyze a problem, and then apply the appropriate technological approach to solving that problem. This will be the case in most fields that students will be entering. Additionally, some students will need the ability to use technology to create. In this course, students will be asked to create original works using various technologies. After completion of this course, students will be more prepared to compete and thrive in an increasingly digital and global economy.

INTRODUCTION TO THE INTERNET…… semester, ½ credit

Students in Introduction to the Internet learn to use the Internet for school and personal reasons. They learn where the Internet came from and become experts at finding just what they are looking for. They use online study tools, find people, download useful software, and use the Internet to help plan for their futures. When students are finished with this course, they will have visited many websites and know how to organize those sites so they can use them in the future. Students learn to avoid viruses and hoaxes and how to stay safe while they are online. Students spend time becoming web experts!

MICROSOFT EXCEL 2007…….…… semester, ½ credit

This course has been designed to help students learn to use the main features of Microsoft's Excel software. Excel is an electronic spreadsheet software that helps present data in an organized and graphical format. A spreadsheet is a document which helps organize data in rows and columns of cells. Each cell can contain words, numbers, or a formula that may be calculated accurately or sorted in an organized way. The Excel chart wizard is used to create colorful graphs of the data. Spreadsheets were originally created as "number crunchers", programs to handle manipulating and calculating large amounts of numerical data.
The textbook for this course is *Microsoft Office Excel 2007 Illustrated Introductory, CourseCard Edition*, by Reding and Wermers. It is broken into eight different topics which will be covered in eighteen different units and unit reviews.
***Required Course Fee**

MICROSOFT POWERPOINT 2007…….…… semester, ½ credit

Microsoft Office PowerPoint 2007 is a computer program that is used to create visually compelling presentations. With PowerPoint 2007, students can create individual slides and display them as a slide show on a computer, video projector, or even via the Internet. In this course students will learn to create presentations, speaker's notes, handouts, outlines, and web presentations using PowerPoint 2007. Students will work with text, graphics, charts, animations, sounds, and templates.
The textbook for this course is *Microsoft Office PowerPoint 2007 Illustrated Introductory, Course Card Edition*, by Beskeen. It is broken into eight different topics which will be covered in eighteen different units and unit reviews.
***Required Course Fee**

MICROSOFT WORD 2007…….…… semester, ½ credit

This course has been designed to teach personal computer skills, as well as get students started on acquiring valuable job skills. Microsoft Office Word 2007 is a computer program that makes it easy to create a variety of professional-looking documents, from simple letters and memos to newsletters, research papers, blog posts, business cards, résumés, financial reports, and other documents that include multiple pages of text and sophisticated formatting. This software has many powerful tools that will be used for editing text, formatting pages and spell-checking a document. In addition, this software will help communicate your thoughts more effectively. The textbook for this course is *Microsoft Office Word 2007 Illustrated Series, Course Card Edition, Introductory Edition* by Jennifer Duffy. The Illustrated Series is designed to help students see a picture of what they are learning. It is perfect for the beginner because of the descriptive pictures and extra information in the margins and at the bottom of some pages.
***Required Course Fee**

NON-DEPARTMENTAL CLASSES

INDEPENDENT STUDY……..……..……...Determined by Instructor

Students may want to take a class that scheduling does not permit. Students will have the option with teacher approval to take a class independent study outside the structured class time. Studies are very rigorous and a student must be very disciplined and organized for this situation.

VLA TEST PREPARATION

Number	Course Name	Credit
	VLA-ACT Preparation	1
	VLA-Study Skills	½

ACT PREPARATION…….……..……..……year, 1 credit

This course will prepare students to take the ACT test. The textbook, *ACT Victory: Classroom Text 8th Edition* from Cambridge Educational Services, accompanies this course. The instructions within each unit will direct students to the section of the book that they need to reference.

***There is a book fee for this course**.

STUDY SKILLS…….……..…….. semester, ½ credit

The study skills and strategies course is broken into two 9 unit sections. The first nine weeks concentrate on student learning styles, management of study time and routines, note taking strategies from textbooks, classes, and presentations, and ends with test taking tips strategies. The second nine weeks concentrate on using reference sources, remembering strategies, standardized test taking strategies, building vocabulary through clues, and ends with final exam and college preparation strategies. Each unit consists of Prezi or Power Point lectures. Students will encounter different types of activities and video presentations as they follow along with the lecture. A concept check is administered to assess student content knowledge at the end of each unit. As the students finish course, they will be asked to complete a study skills and strategies portfolio. This portfolio will be used a reference source for the rest of their high school and college careers.

AGRICULTURAL EDUCATION

The Agricultural Education program offers a diverse look at modern agriculture to allow each student to identify and appreciate the wide scope that agriculture and its sciences encompass today. Agriculture courses are offered on a 3 year rotating basis. Students will spend time in three areas of Agricultural Education; in the classroom, in our lab, and on the school farm. This enables our students to have hands-on experience with much of today's technology in agricultural sciences and allows them to apply their classroom skills to work.

Students involved in Agricultural Education classes are required to complete projects called Supervised Agriculture Experiences (S.A.E.). The S.A.E. is an extension of Agriculture Education beyond the classroom. Students apply classroom concepts and applications in agriculture and apply them in their own situations. The S.A.E. helps students learn about agriculture production, good business knowledge, and record keeping. The S.A.E. is also an important part of the FFA Degree System.

The FFA is a student organization with emphasis on all areas of agriculture. Students learn valuable leadership, public speaking skills, and responsibilities that are necessary to compete in college or in today's job market. Students are also involved with judging contests and projects, which compete on local, state, and national levels. In order to become an FFA member, students must be enrolled in Agriculture Education. All Ag classes have fees.

Agriculture Education Cooperative Placement:

Students involved in Ag. IV or Ag. Business have the opportunity to be cooperatively placed to fulfill the S.A.E. requirement. Students will be required to attend school for a portion of the day and then go to work. Students must maintain Ag. Dept. attendance and grade requirements to work. Then if a student is on Cooperative Placement, he/she must fulfill a work time requirement of 540 hours to gain S.A.E. and placement credit. Students must also maintain a "C" average and are allowed only 10 (ten) absences, no ½ day absences.

Agricultural Education Course Names and Course Numbers

Number	Course Name	Credit
650	CTE Agriculture, Food and Natural Resources	1 ½
656	CTE Animal and Plant Science	1 ½
653	CTE Agricultural and Industrial Power Technology	1 ½
652	CTE Agronomic Systems	1 ½
660	CTE Global Economics and Food Markets	1 ½
658	CTE Livestock Selection, Nutrition and Management	1 ½
649	CTE Business Management for Agricultural and Environmental Systems	1 ½
657	CTE Mechanical Principles	1 ½
659	CTE Environmental Science for Agricultural and Natural Resources	1 ½
663	CTE Agricultural and Environmental Systems Capstone (Placement)	1 ½
664	CTE Agricultural and Environmental Systems Capstone (Research)	1 ½
661	CTE Outdoor Power Technology	1 ½

CTE AGRICULTURE, FOOD AND NATURAL RESOURCES (650)…….year, 1.5 credits

(1st course of pathway – required for all first year members)

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

Students enrolled in this course are required to be members of the Madison Plains FFA, Ohio FFA Association, and The National FFA Organization. They will be given opportunities to compete for Local, State, and National Recognition, through completion of a Supervised Agricultural Experience program and Outstanding participation in the FFA Chapter.

CTE ANIMAL AND PLANT SCIENCE (656) ……..……..year, 1.5 credit

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.

Students enrolled in this course are required to be members of the Madison Plains FFA, Ohio FFA Association, and The National FFA Organization. They will be given opportunities to compete for Local, State, and National Recognition, through completion of a Supervised Agricultural Experience program and Outstanding participation in the FFA Chapter. *(4 Credits Wilmington College for two Ag classes, 4 Credits Southern State Community College. Read articulation agreement carefully for all credit details. Articulation agreement located in the Guidance Office)*

CTE AGRICULTURAL & INDUSTRIAL POWER TECHNOLOGY (653) ……..……..year, 1.5 credit

In this first course, students will learn the breadth of the Agricultural and Industrial Power Technology pathway. Students will learn the principles of power technology equipment systems which will include electronic and electrical systems, engines and fuels, hydraulic systems and power train components. Additionally, students will learn to safely operate and maintain machinery and equipment along with the principles of welding and metal fabrication.

Students enrolled in this course are required to be members of the Madison Plains FFA, Ohio FFA Association, and The National FFA Organization. They will be given opportunities to compete for Local, State, and National Recognition, through completion of a Supervised Agricultural Experience program and Outstanding participation in the FFA Chapter. *(4 Credits Wilmington College for two Ag classes, 4 Credits Southern State Community College. Read articulation agreement carefully for all credit details. Articulation agreement located in the Guidance Office)*

CTE AGRONOMIC SYSTEMS (652) ……..……..year, 1.5 credits

Students will apply knowledge and skills required to research, develop, produce and market major agricultural and horticultural crops. Cultural and sustainable production practices will be examined while students apply scientific knowledge of plant development, nutrition and growth regulation. The knowledge and skills needed to manage water, soils, and pests related to agronomic crops will be assessed. Students will employ technological advances, communication, business, and management strategies appropriate for the industry.

Students enrolled in this course are required to be members of the Madison Plains FFA, Ohio FFA Association, and The National FFA Organization. They will be given opportunities to compete for Local, State, and National Recognition, through completion of a Supervised Agricultural Experience program and Outstanding participation in the FFA Chapter. *(3 Credits Clark State University, 4 Credits Wilmington College for two Ag classes, 4 Credits Southern State Community College. Read articulation agreement carefully for all credit details. Articulation agreement located in the Guidance Office)*

CTE GLOBAL ECONOMICS AND FOOD MARKETS (660) ……..year, 1.5 credit

Students will examine economic principles related to agriculture, food, and natural resources along with the operation and use of commodity futures and option markets. Students will learn economic principles with emphasis on their application to the solution of agricultural industry problems. They will examine future exchanges and commodity futures contracts, hedging strategies, as well as put and call options. Throughout the course, students will become familiar with the causes and consequences of economic growth, globalization and development.

Students must have satisfactorily completed 3 years of agriculture education to be enrolled in this course or will be serving as an FFA officer for the upcoming school year. All FFA officers must enroll in this course.

Students enrolled in this course are required to be members of the Madison Plains FFA, Ohio FFA Association, and The National FFA Organization. They will be given opportunities to compete for Local, State, and National Recognition, through completion of a Supervised Agricultural Experience program and Outstanding participation in the FFA Chapter. *(4 Credits Wilmington College for two Ag classes, 4 Credits Southern State Community College. Read articulation agreement carefully for all credit details. Articulation agreement located in the Guidance Office)*

CTE LIVESTOCK SELECTION, NUTRITION AND MANAGEMENT (658) …….year, 1.5 credits

Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities and herd populations.. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance.

Students enrolled in this course are required to be members of the Madison Plains FFA, Ohio FFA Association, and The National FFA Organization. They will be given opportunities to compete for Local, State, and National Recognition, through completion of a Supervised Agricultural Experience program and Outstanding participation in the FFA Chapter. *(3 Credits Clark State University, 4 Credits Wilmington College for two Ag classes, 4 Credits Southern State Community College. Read articulation agreement carefully for all credit details. Articulation agreement located in the Guidance Office)*

CTE BUSINESS MANAGEMENT FOR AGRICULTURAL AND ENVIRONMENTAL SYSTEMS (649) ……
…….year, 1.5 credits

Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified.

CTE MECHANICAL PRINCIPLES (657) …….year, 1.5 credits

Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identify, diagnose, and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills.

CTE ENVIRONMENTAL SCIENCE FOR AGRICULTURE AND NATURAL RESOURCES (659) …… …….. 1 year, 1.5 credits

Students will study relationships between organisms and their environment. Principles of biogeochemical cycles, air-water-land relationships, non-point pollution, and wetlands will be applied. Students will examine fundamentals of resource development, agriculture sustainability, energy needs and pollution control. They will analyze and interpret data gathered from studies on the ecosystem. Throughout this course, students will develop responses to environmental problems and develop management strategies for responsible conservation and resource development.

Students enrolled in this course are required to be members of the Madison Plains FFA, Ohio FFA Association, and The National FFA Organization. They will be given opportunities to compete for Local, State, and National Recognition, through completion of a Supervised Agricultural Experience program and Outstanding participation in the FFA Chapter. *(4 Credits Wilmington College for two Ag classes, 4 Credits Southern State Community College. Read articulation agreement carefully for all credit details. Articulation agreement located in the Guidance Office)*

CTE AGRICULTURAL & ENVIRONMENTAL SYSTEMS CAPSTONE (PLACEMENT) (663)…….. ……..year, 1.5 credits

The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen Agricultural and Environmental Systems career field pathway. The course is designed to assess cognitive, affective and psychomotor learning and to do so in a student-centered and student-directed manner. The capstone requires the application of learning to a project that serves as an instrument of evaluation.

Students involved in the Capstone Job Placement program have the opportunity to be cooperatively placed to fulfill the S.A.E. requirement. Students will be required to attend school for a portion of the day and may have the opportunity to leave early for work. Students must maintain Ag. Dept. attendance and grade requirements to work. Then if a student is on Cooperative Placement, he/she must fulfill a work time requirement of 540 hours to gain S.A.E. and placement credit. Students must also maintain a "C" average and are allowed only 10 (ten) absences, no ½ day absences.

CTE AGRICULTURAL & ENVIRONMENTAL SYSTEMS CAPSTONE (RESEARCH) (664) ……..……
……..year, 1.5 credits

The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen Agricultural and Environmental Systems career field pathway. The course is designed to assess cognitive, affective and psychomotor learning and to do so in a student-centered and student-directed manner. The capstone requires the application of learning to a project that serves as an instrument of evaluation.

CTE OUTDOOR POWER TECHNOLOGY (661) ……..……year, 1.5 credits

Students will perform technical skills needed to maintain, diagnose and repair outdoor power equipment. Students will learn the theory of power and examine the aspects of repairing various engines, drive trains, and ancillary systems that make up modern small engine powered equipment. In addition, students will develop troubleshooting skills for 2- and 4-stroke engines, electrical and fuel systems. Throughout the course, site and personal safety procedures along with business principles will be emphasized.

FAMILY AND CONSUMER SCIENCE

A High School Work and Family Life Program consists of seven core courses. This curriculum seeks to prep our students for their roles as family members, citizens and participants in the workplace. A student may enroll in each of the seven core courses one time only.

Work and Family Life Course Names and Course Numbers

Number	Course Name	Credit
636	CTE Child Development	½
637	CTE Personal Wellness	½
638	CTE Transitions and Careers	½
639	CTE Principles of Food	½
640	CTE Global Foods	½
643	CTE Interior Design, Furnishings & Management	1
646	CTE Personal Financial Management	½
VLA117	VLA-Family Living	½
VLA118	VLA-Integrated Family Living	½

CTE CHILD DEVELOPMENT (636) ……semester, ½ credit

In this course, students will study the principles of child growth, development and behavior. An emphasis will be place on the cognitive development of a child and sensory and motor skills. Additional topics will include childhood diseases, immunizations, theories of development, learning styles and evaluating childcare services.

CTE PERSONAL WELLNESS (637) ……semester, ½ credit

In this course, students will analyze personal physical, emotional, social and intellectual growth for a healthy lifestyle. An emphasis will be placed on lifespan wellness by managing stress through relaxation, physical activity and sleep. Additional topics will include human growth development, mental health management, personal hygiene and preparing for emergency medical situations.

This course may serve as a Health credit.

CTE TRANSITIONS AND CAREERS (638) ……semester, ½ credit

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

CTE PRINCIPLES OF FOOD (639) ……semester, ½ credit

In this course, students will gain knowledge in food selection criteria and apply preparation methods to promote a healthy lifestyle. Students will apply cooking methods, ingredient selection and nutritional information in the context of selected food dishes. Throughout the course, basic food safety and sanitation techniques will be emphasized.

CTE GLOBAL FOODS (640) ……semester, ½ credit

In this course, students will compare cuisines, ingredients and preferred cooking methods of various cultures. The influence of traditions and regional and cultural perspectives on food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market, and apply advanced cooking techniques, including the use of specialty and advanced equipment in the preparation of food dishes.

CTE INTERIOR DESIGN, FURNISHINGS AND MANAGEMENT (643) ……semester, ½ credit

In this course, students will examine design principles used in residential interiors. An emphasis will be placed on incorporating anthropometrics, ergonomics and psychological responses. Additional topics will include the selection and organization of furnishings, floor and wall coverings in living spaces, kitchens and baths.

This course may serve as an Art credit.

CTE PERSONAL FINANCIAL MANAGEMENT (646) ……semester, ½ credit

In this course, students will develop personal financial plans for individual personal well-being. Throughout the course, students will develop financial literacy skills to provide a basis for responsible citizenship and career success. Additional topics will include analyzing services from financial institutions, consumer protection, investing and risk management.

This course may serve as a financial credit.

VLA FAMILY AND CONSUMER SCIENCE

*Courses marked require additional materials.

VLA-FAMILY LIVING (VLA117)…… semester, ½ credit

If a student is anxious to be independent, then this Family Living course will prepare students for life after high school. Students will explore available housing choices as well as advantages of renting an apartment or buying a home. They will look at setting up a house and what they can do to turn it into a home. They will learn about food preparation and practice skills as they complete a couple of labs while preparing simple recipes. Washing clothes will be a breeze after examining laundry basics. Budgeting, writing checks, and examining consumer issues will prepare students to work with finances. Practicing decision making and good communication skills will make them easier to use every day.

VLA-INTEGRATED FAMILY LIVING (VLA118)…… semester, ½ credit

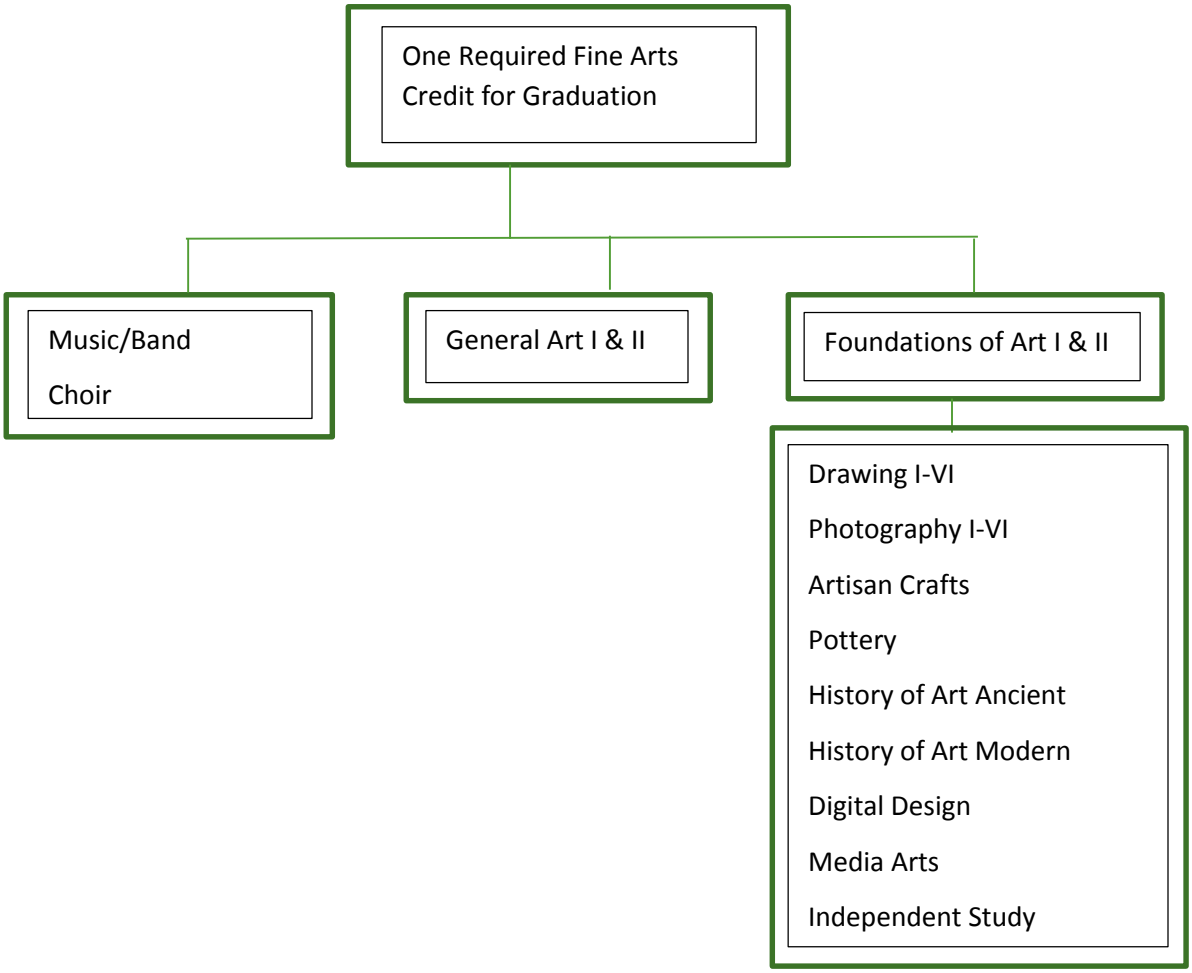
Do you want to live on your own someday? Get a good job? Earn money? This Integrated Family Living course will help you get ready for life after high school. Students enrolled in this course study the same topics presented in Family Living to assure alignment with the Academic Content Standards. However, content and assessment has been adapted to a more appropriate format and level of difficulty. Students will learn how to make good decisions and solve problems, become an informed consumer, manage money, communicate and resolve conflicts, balance work and family, and choose a career that is right for them. They will also learn to be a good citizen and leader, choose a place to live, learn how to furnish and take care of a home, learn how to go green and take care of the environment. In addition, they will learn to make good clothing choices and learn how to care for clothing, make choices for strong social, mental, and physical health, make healthy decisions about the food they eat, plan and prepare meals, and get along with others. The information learned in this course will help students right now and all of their life.

ART

The Fine Arts department offers a wide variety of courses in the visual arts for students of all grade levels and abilities. In each class, students will enhance their technical skills and knowledge of art by creating expressive and original studio projects. All classes will include the study of art history, aesthetics and art criticism. Even though the skills used in each of the different art courses may vary, one basic goal remains the same. In each art class students will:

- Discover/transform ideas.
- Work with the media.
- Perceive & respond to visual qualities in works of art.
- Become aware of achievements of artists in past and present.
- Analyze and evaluate their artwork and that of others.
- Students will be encouraged to express and respond to art in society, artistic heritage, and their own personal works.

How does the Fine Arts progression work?



Art Course Names and Course Numbers

Number	Course Name	Credit
698	General Art I	½
699	General Art II	½
713	Foundations of Art I	½
717	Foundations of Art II	½
703	Pottery	½
711	Drawing I-VI	½
712	Drawing I-VI	½
710	Manual Photography I	½
708	Manual Photography II-VI	½
707	History of Ancient Art	½
706	History of Western Art	½
715	Digital Design	1
700	Media Arts Introduction	½
701	Artisan Crafts	½
VLA135	VLA-Renaissance Art	½

GENERAL ART I (698) ……semester, ½ credit

This course is intended for those students wishing to fulfill ½ of the art credit required for graduation in the state of Ohio. This course does not fulfill the MPHS prerequisite for other upper level Fine Art courses. *If you are planning to take additional Art courses during high school, you will need to take Foundations of Art I & II*.

The focus of this course is mastering and applying the Elements of Art: line, shape, form, color, value, texture and space. This will be achieved through application, aesthetics and vocabulary.

GENERAL ART II (699) ……..semester, ½ credit

(Pre-requisite: Successful completion of General Art I)

This course is a continuation of General Art I and fulfills the remaining credit needed for graduation. The focus of this course is on the exploration and application of 21st century Art technology, including employment in the Arts, while expanding and building on knowledge of historical influences in the Arts and their role in society.

FOUNDATIONS OF ART I (713) ……semester, ½ credit

This course is a prerequisite for all upper-level Art courses. This course will introduce concepts, movements, media, and artists that build the basis of Fine Art. During the semester, students will explore 2D art forms and apply abstract thinking skills to create original, individual pieces of art.

FOUNDATIONS OF ART II (717) ……..semester, ½ credit

(Pre-requisite: Successful completion of Foundations I with a grade of "C" or higher)

This course fulfills the remaining ½ credit needed to take upper-level art courses at MPHS. This course will explore a deeper approach to concept, movements, media, and influential artists that build the basis for Fine Art. During the semester, students will create 2D and 3D art forms, through the application of critical and abstract thinking skills that are essential to creating original, individual art works.

DRAWING I-VI (1st semester)(711)……semester, ½ credit

(Pre-requisite: Successful completions of Foundations I & II with a "C" or higher or teacher recommendation.)

This is a beginning level course that will focus on building skills and applying knowledge to create realistic drawings. Value, texture, proportion, and depth are the base skills taught during this course. Students will use various drawing medium to obtain the goal of realism.

YOU WILL DRAW DAILY IN THIS COURSE.

DRAWING I-IV (2nd semester)(712) ……..semester, ½ credit

(Pre-requisite: Successful completion of Foundations I & II, previous level Drawing Course(s) with a "B" or higher or teacher recommendation.)

Students will continue techniques; furthering the visual aspects of depth and realism in individualized drawings, using various drawing medium.

MANUAL PHOTOGRAPHY I (710) ……semester, ½ credit

(Pre-requisite: Successful completion of Foundations I & II with a "B" or higher, teacher recommendation AND access to a 35mm SLR manual camera.)

Students will learn the anatomy of a 35mm SLR camera, use and development of film, and the process of enlarging and developing photographs through black and white film. Students will apply knowledge of the Elements of Art to manual photography including F-stops, Shutter-speeds, focus and lighting.

MANUAL PHOTOGRAPHY II-IV (708) ……semester, ½ credit

(Pre-requisite: Successful completion of Foundations I & II and previous level Photography course(s) with a "B" or higher or teacher recommendation.)

Students will continue to refine, explore and apply previous knowledge to expand their understanding of Manual Photography through higher-level techniques including the use of filters, vignettes, texture screens, developing processes, and approaches to the Themes of Photography.

HISTORY OF ANCIENT ART (707) ……..semester, ½ credit

(Pre-requisite: Successful completion of Foundations I & II with a "B" or higher, Junior or Senior standing, or teacher recommendation.)

This course will explore, in-depth, influential art movements and artists of Ancient times from Pre-Historic through 1600's. Students will be able to write at a collegiate level upon completion of this course. This course does not require hands-on building of art work.

HISTORY OF WESTERN ART (706) ……..semester, ½ credit

(Pre-requisite: Successful completion of Foundations I & II with a "B" or higher, Junior or Senior standing, and teacher recommendation-History of Art-Ancient is NOT required.)

This course will explore art and artists from 17th to the 21st Centuries. Students will be able to write at a collegiate level upon completion of this course. This course does not require hands-on building of art work.

DIGITAL DESIGN (715)……year, 1 credit

(Pre-requisite: Successful completion of Foundations I & II with a "C" or higher, or teacher recommendation and access to a computer.

This is an introductory course into the realm of Digital art. Students will create basic-level art through the use of technology including computers, digital cameras, and SMART phones. Basic elements covered are avatar generators, photo journaling, shaving and editing of audio, SMA production and entry-level digital painting.

MEDIA ARTS INTRODUCTION (700) ……semester, ½ credit

(Pre-requisite: Successful completion of Foundations I & II AND Digital Art I with a "B" or higher, access to a computer and teacher recommendation.)

Students will expand on previous knowledge and apply it to additional technologies in digital art. Students will create Emoji language, learn and apply photo editing through GIMP to create Memes, collage and morphing.

POTTERY (703)……semester, ½ credit

(Pre-requisite: Successful completion of Foundations I & II with a "C" or higher or teacher recommendation.)

Students will learn the basics of clay through hand-building techniques: pinch, coil, relief sculpting and slab. Additionally, students will also explore working on the wheel or "throwing" by learning to control width, height and size.

ARTISAN CRAFTS (701) ……semester, ½ credit

(Pre-requisite: Successful completion of Foundations I & II with a "C" or higher or teacher recommendation.)

Students will explore traditional specialty crafts in the arts that have vocational implications. An Artisan is a skilled craft worker who makes or creates things by hand, like furniture, fiber arts, jewelry, etc. Artisans practice a craft and may through experience and aptitude reach the expressive levels of an artist, many of these crafts have traditionally been "handmade" but are now being sought after as a specialty. Students will explore fiber arts such as carting and spinning wool, natural dying methods, felting, weaving and quilting. Additionally, students will touch on paper making, leather tooling, metal work and mosaic tiling. Local artisans will also give demonstrations on tanning leather, blacksmithing, and other areas of interest.

VLA FINE ARTS

*Courses marked require additional materials.

VLA-RENAISSANCE ART (VLA135) …… semester, ½ credit

In Renaissance Art, students learn about the rebirth of ideas and art from the classical period of the Greeks and Romans. They study the lives and works of Michelangelo, Da Vinci, and Raphael, three primary artists featured in this course, and learn that versatility was a key to the greatness of Renaissance artists who were also writers, scientists, and mathematicians. Students learn how the arts flourished during the Renaissance period and about artists who were often individuals of great social stature, wealth and influence.

HEALTH & PHYSICAL EDUCATION

Health and Physical Education Course Names and Course Numbers

Number	Course Name	Credit
748	Co-Ed Physical Education A	¼
749	Co-Ed Physical Education B	¼
745	Weight Training Sport Fitness A	¼
747	Weight Training Sport Fitness B	¼
754	Lifetime Fitness	½
755	Net Sport	½
750	Health I	½
637	CTE Healthy Living	½
751	Body Systems	½
VLA110	VLA-Health	½
VLA111	VLA-Physical Education I	½
VLA112	VLA-Physical Education II Extreme Sports	½

CO-ED PHYSICAL EDUCATION A (Freshmen recommended) (748)…….. semester, ¼ credit

CO-ED PHYSICAL EDUCATION B (Freshmen recommended) (749)……..semester, ¼ credit

Physical Education is designed to offer students a chance to develop skills in individual and team sports. Students will be evaluated according to their skills, knowledge, and participation in each of the units. Students must successfully complete two semesters of a physical education before graduation. Combination lock is recommended. Students must have ½ credit of Physical Education, for graduation. This class will provide some experiences like ice skating, roller skating, and bowling trip. CO-ED Physical Education must be taken and passed in order to take upper level courses.

WEIGHT TRAINING SPORT FITNESS A (745) ……semester, ¼ credit

WEIGHT TRAINING SPORT FITNESS B (747) ……semester, ¼ credit

(Pre-requisite: must have passed Coed Physical Education requirements. All students must have a physical in order to be in this class. The class is based off of the Bigger Faster Stronger Program.)

This class is designed for not only to help improve our athletic programs but also for individuals who are not involved in athletics. The class will help develop and maintain injury prevention routines for our athlete's males and females throughout the course of the school year. This class is also designed to help each individual student to achieve goals such as losing body fat, gaining weight in the form of muscle, increasing cardiovascular and muscular strength/endurance. This class is devoted to weight lifting, strength and resistance training, aerobic/anaerobic exercises and daily fitness planning. This class is about the improvement of the individual student through setting goals and achieving them as well as benefitting each person throughout the rest of his/her life. Students must have ½ credit of Physical Education, for graduation. This class can fill an elective credit and also may be repeated throughout the students' duration of high school.

LIFETIME FITNESS (754) …… semester, ½ credit

(Pre-requisite: Student must have passed Coed Physical Education requirements. All students must have a physical in order to be in this class.)

This class is designed to help each individual student achieve goals such as losing body fat, gaining weight in the form of muscle, increasing cardiovascular and muscular endurance, and reduction of scale weight by combining a variety of cardiovascular exercises, strength/resistance training, nutritional and fitness planning, and developing lifetime activities. We want to provide a variety of activities that encourage lifetime fitness and give students the confidence to have success in a fitness class. This class is about the improvement of the individual student through setting goals and achieving them as well as benefitting each person throughout the rest of his/her life. The activities we will be doing in this class are similar to the classes offered at popular health clubs so the students can continue to use this experience in the future. The purpose of *Lifetime Fitness* is to provide the opportunity for those students who wish to improve themselves physically, mentally, and socially. Students must have at least ½ credit of physical education for graduation. This class can fill an elective credit and can be repeated throughout the duration of high school.

NET SPORTS (755) ……. semester, ½ credit

(Pre-requisite: student must have passed Coed Physical Education)

This class is designed to help each individual student develop team building values. The class will also allow for a student to continue working on individual skills. We want to provide a variety of net sports and activities that will allow students to compete in a non-athletic event setting. Some examples of those sports and activities would be as follows: Table Tennis, Volleyball, Nitro Ball, Tennis, and Badminton This class can fill an elective credit and can be repeated once a year per semester throughout high school.

HEALTH I (750) …… semester ½ credit

Health is required for all students by the end of their sophomore year and is designed to teach students self-awareness. Some of the areas covered are good decision making, relationships, reproduction, parenting, drugs, alcohol, tobacco, and the prevention of communicable and non-communicable diseases.

CTE HEALTHY LIVING (637)…….semester, ½ credit

(Pre-requisite: Health I or Healthy and Safe Foods) (Sophomores, Juniors, and Seniors)

Healthy Living is designed to be research based. The students will incorporate Power Point, Prezi, etc. Nutritional content of various foods will be evaluated to achieve a healthy lifestyle. Students will prepare recipes from various places around the world. This class will be team taught between a Health and Work and Family Life teacher.

BODY SYSTEMS (751) …… semester ½ credit

(Pre-requisite: Pass Health I with a "C" or better)

This course will explore the human body systems focusing on the structure (anatomy) and function (physiology). Recommend for any student who might be interested in a health, nursing or medical career.

VLA HEALTH & PHYSICAL EDUCATION

*Courses marked require additional materials.

VLA-Health (VLA110)…….. semester, ½ credit

The Health course focuses on helping students become responsible for their own personal health. Students develop a basic knowledge and understanding of body systems, body functions, and body needs. They practice and implement healthy habits and routines that properly support and care for these systems, functions and needs.

***VLA-PHYSICAL EDUCATION I (VLA111)…….. semester, ½ credit**

In this course, students will learn about being active and improving physical fitness. Being active is the key to a better physical YOU, now and in the future.

The minimum requirement for this course is to participate in a physical activity, chosen by each student, for fifty minutes, three days a week. These fifty minutes include ten minutes of warm-up, thirty minutes of activities, and ten minutes of cool down. The warm-up and cool-down activities will be further explained in the course. Students may also decide to increase the number of days and minutes of each activity. They will keep track of their daily activity on a weekly activity *log that will be attached to the question section in each unit once a week. Students will also be required to take Pre and Post physical fitness tests (push-ups, curl-ups, the one mile walk/run, shuttle run, and the V-sit reach) Body Mass Index (BMI) and body measurements.

In addition to improving physical activity, students will be learning about various aspects of fitness and a healthy lifestyle. Students will learn to set goals, both in the level of personal fitness and other areas of life. They will learn about proper clothing for working out, how to stay hydrated, and how the new food pyramid can help them make better choices. Besides learning to properly warm-up before and cool-down when exercising, they will test their own fitness levels throughout the course and hopefully see improvement in their own abilities as they strive to achieve a more active lifestyle.

* For the activity log for PEI: Each student will need to have a parent or guardian enter his or her e-mail address at the bottom of the PDF form activity log. This task should be completed by the parent or guardian, not by the student. Entering this is equivalent of signing the form to verify that the student has completed the activities listed on the activity log. The e-mail address must be valid and belong to the parent/guardian. The teacher or the school may contact the parent/guardian at this e-mail address at any time. The e-mail address will not be used for any purpose other than allowing the teacher to contact the parent/guardian.

***VLA-PHYSICAL EDUCATION II EXTREME SPORTS (VLA112)..... semester, ½ credit**

In this course, students will be learning and studying about extreme sports from all over the world. Students will also learn about being active and improving physical fitness levels. Some of the sports included in the course are mountain climbing, backpacking, snowboarding, cheese rolling, barrel riding over the Niagara Falls and many more exciting extreme sports! To learn about staying active and improving physical fitness levels, units will include tips on proper clothing for working out, how to stay hydrated, and how to eat properly by using the MyPyramid Food Guide and the new My plate Food Guidelines unveiled June 2, 2011. Students will learn to properly warm-up before and cool-down when exercising. They will test their own fitness levels throughout the course and hopefully see improvement in their own abilities as they strive to achieve a more active lifestyle. The minimum requirement for this course is to participate in a physical activity, chosen by each student, for fifty minutes, three days a week. These fifty minutes include ten minutes of warm-ups, thirty minutes of activities, and ten minutes of cool down. The warm-up and cool-down activities will be further explained in the course. Students may also decide to increase the number of days and minutes of each activity. They will keep track of their daily activity on a weekly activity *log that will be attached to the question section in each unit once a week. Students will also be required to take Pre and Post physical fitness tests (push-ups, curl-ups, the one mile walk/run, shuttle run, and the V-sit reach) Body Mass Index (BMI) and body measurements. Each unit will also review some main points of the Physical Education I course.

* For the activity log for PEII: Each student will need to have a parent or guardian enter his or her e-mail address at the bottom of the PDF form activity log. This task should be completed by the parent or guardian, not by the student. Doing this is the equivalent of signing the form to verify that the student has completed the activities listed on the activity log. Entering this is equivalent of signing the form to verify that the student has completed the activities listed on the activity log. The e-mail address must be valid and belong to the parent/guardian. The teacher or the school may contact the parent/guardian at this e-mail address at any time. The e-mail address will not be used for any purpose other than allowing the teacher to contact the parent/guardian.

MUSIC

The Music Education program offers a varied perspective of modern and historical music to provide a well-rounded experience with the goal of providing support and entertainment for Madison-Plains High School, its students, and the communities making it up. The music department is made up of some of the most active and widely observed activities in the entire school district. Representatives may be seen at athletic events throughout the year, concerts, competitions, as well as graduation and special community affairs. Students will gain exposure to professional and college musicians, as well as music critics/adjudicators with the purpose of improving “hands on” skills and increasing general music knowledge.

Students enrolled in Music Education courses will participate in adjudicated events through the OMEA (Ohio Music Education Association). The OMEA is an organization dedicated to promoting music education in elementary and secondary schools, as well as colleges and universities. At each event, students will perform for several judges that will provide constructive feedback and advice that will guide students toward achieving a high degree of music performance. Students will be evaluated and rated according to the performance presented to the judge. Ratings range from I to V, with I being the highest and best. Adjudicated events are a valuable part of the classroom experiences as their skills will contribute toward the success and image of Madison-Plains High School on a local and state level.

Music, the only activity to activate both hemispheres of the brain simultaneously, is considered an important part of the student curriculum. Music students learn the valuable leadership, team building skills and responsibilities necessary to contend and succeed in college and employment.

Music Course Names and Course Numbers

Number	Course Name	Credit
726	Band	1
727	Marching Band/Color Guard	½
729	Jazz Band	1
720	Choir	1
728	Music Theory	1
730	Instrumental & Vocal Methods Fall	½
731	Instrumental & Vocal Methods Spring	½
732	Chamber Music Fall	½
733	Chamber Music Spring	½
734	Music History to Today	½
VLA199	VLA-Introduction to Theatre I	½
VLA200	VLA-Music Appreciation	½

BAND (726)……year, 1 credit
(Grades 9-12 - No pre-requisite)

MARCHING BAND/ COLOR GUARD (727) …….. semester, ½ credit
1/3 Physical Education Exemption

(Grades 9-12 - No pre-requisite)

BAND FULFILLS FINE ART CREDIT REQUIREMENT AND CAN BE REPEATED FOR UP TO FOUR YEARS. COLOR GUARD MUST BE TAKEN TWICE TO FULFILL ART CREDIT REQUIREMENT AND CAN BE REPEATED FOR UP TO FOUR YEARS.

Students participate in performance groups throughout the year (including Pep Band for basketball games). The focus of the class is to develop the four (4) main elements that make up excellent musical performances (according to OMEA, State Standards and National Standards):

- Tone
- Intonation
- Musical Interpretation
- Technique

Performance groups include marching band, concert band and small ensembles, which will represent Madison-Plains High School at athletic events, music competitions, adjudicated events, graduation and local community affairs. Class instruction also includes basic music theory. Music theory is the field of study that examines the language and notation of music, and aids in identifying patterns exploited by composers.

Students actively involved in fall sports may opt to be exempt from the marching band portion of the class, substituting it for class work and private instruction. Also, students involved with the marching band's Color Guard may opt to receive ½ credit for a semester of instruction. Students must have teacher's prior approval and be enrolled in the class in order to gain access to the ½ credit option.

JAZZ BAND (729)…… year, 1 credit

(Student must be enrolled in band to be considered for enrollment in this class. Some exception maybe admitted on a case by case basis)

Students participate in a yearlong performance group. The focus of the class is to introduce a basic understanding of jazz style and become familiar with the "standard", or well-known and historically influential jazz songs. Additionally, students learn basic music theory skills that will be applied toward improvisation – an inventive solo composed without prior planning. Students will learn a general history of the jazz era. Students are evaluated on ability to write and perform scales form memory, compose improvised solos, concert participation and other music concepts.

Students are not limited to traditional band instruments, and with the teacher's prior approval may also participate on guitar, bass and piano. ****Remember that reading, writing and performance skills are the bulk of evaluation for Jazz Band

This ensemble may participate in after school field trips to observe professional jazz musicians.

CHOIR (720)……year, 1 credit

(FULFILLS FINE ART CREDIT REQUIRMENT AND CAN BE REPEATED FOR UP TO FOUR CREDITS)

Choir is offered to students who are interested in developing music skills through singing. This is done by exposing the student to a wide variety of musical styles, both classical and popular, and performing these works in concert. The students are expected to master the fundamentals of music and the discipline of singing including proper breathing, vowel production, tone production, and posture. Sight singing and basic music theory will also be stressed. The choir performs several times during the year, including concerts, graduation, and community events. Performance groups include SATB full ensemble, Men's Choir, Women's Choir, and small ensembles. All regularly scheduled concert performances are mandatory and are included as part of the grade for this course. Each student may be responsible for purchasing his or her own outfit or uniform. Many times the student may already own some or all of the items needed, and costs are kept to a minimum.

MUSIC THEORY (728)……year, 1 credit

(Pre-requisite: Band, Choir or teacher's approval)

Students learn the fundamentals of music making. All students will be introduced to reading Treble and Bass Clef notes, basic piano skills and aural training. "Spelling" chords, knowledge and manipulation of the Circle of Fifths and Scales (major, harmonic minor, melodic minor, pentatonic, modal and octatonic) provide the building blocks for creating music. Students will also learn to dissect and analyze the music of famous composers and musicians, including Bach, Beethoven, The Beatles and some modern artists. Periodically, students will be assigned the task of writing music given a particular set of rules to follow. Once mastery of the rule based music writing is achieved, students learn the proper way to "break" rules of music, allow more freedom in musical expression. Students will be exposed to a variety of music including Classical, Jazz, Choral, Rock, Pop, Reggae and Electronica. Listening to music is a valuable activity in this class, though the majority of work is spent without the need for sound at all.

This is an intensive course designed for students with a strong enthusiasm for music. Students are expected to keep a 2" 3-ringed binder for this class and come prepared with a pencil each day.

INSTRUMENTAL & VOCAL METHODS FALL (730) …… semester, ½ credit

INSTRUMENTAL & VOCAL METHODS SPRING (731) …… semester, ½ credit

(Pre-requisite: Director's approval)

Instrumental & Vocal Methods is offered to students interested in furthering their skills on their current instrument or for those students who wish to learn a band instrument (including a secondary) or to sing. This course will be offered during Junior High classes. Students will take private lessons with the director, as well as assistant teach and perform with the Junior High students. Students are expected to learn the fundamentals of music, including music theory and music education skills. All regularly scheduled concert performances are mandatory and are included as part of the grade for this course. Each student may be responsible for purchasing his or her own outfit or uniform. Many times the student may already own some or all of the items needed, and costs are kept to a minimum.

CHAMBER MUSIC FALL (732) ……..semester, ½ credit

CHAMBER MUSIC SPRING (733) ……..semester, ½ credit

This course is designed for students in band and choir to get more individualized instruction. Students will learn pedagogy specific to their instrument, and will learn solos and small ensemble music. This course will also include higher level repertoire. All students in this course will be required to perform at the OMEA Solo and Ensemble Adjudicated Event.

MUSIC HISTORY TO TODAY (734) ……semester, ½ credit

This semester survey course introduces students to the history and genres of music, exploring the earliest musical forms through contemporary pop and rock. Classical music, multicultural genres, jazz, blues, rock, and modern American sounds will all be studied. Students will be assessed through projects, presentations, technology, listening assignments, and tests. This class is open to all students, with or without musical experience.

VLA FINE ARTS

*Courses marked require additional materials.

***VLA-INTRODUCTION TO THEATRE I (VLA199)…….. semester, ½ credit**

Throughout this course, students will learn about the Theatre from its origins to a modern day opening night. Students will also have the opportunity to develop their own skills in Lighting, Set and Costume Design; as well as Acting, Directing, Producing and Script Development. Various forms of plays will be discussed; covering a large span of time periods, targeting the relationship Theatre has with society. Students will also learn to develop an appreciation for Theatre and skills for critical evaluation of theatrical productions.

VLA-MUSIC APPRECIATION (VLA200)…….. semester, ½ credit

Music history is a reflection of the history of our world and/or country. Each country has developed a specific music giving it its own humanistic value. With extensive world travel music has grown to encompass many cultures and venues resulting in many blended styles. Music Appreciation gives us a chance to understand and appreciate each period of history: how it has influenced the past, present, and how it will affect the future. This course is designed to give students a taste of the music and culture from each designated period in the timeline of music history. The topics will be covered with the use of video to help comprehend the era in which each style of music was incorporated. Many audio pieces will give students a feel for the spectrum of music history, its composers, and/or their repertoires. Music Appreciation will help students gain a better understanding of and a new appreciation for the world of music.

CREDIT RECOVERY

Credit Recovery Course Names and Course Numbers

Number	Course Name	Credit
VLA124	VLA-English Language Arts III	1
VLA125	VLA-English Language Arts IV	1
VLA156	VLA–Algebra I	1
VLA157	VLA–Geometry	1
VLA166	VLA–OGT Math	1
VLA178	VLA–Biology	1
VLA179	VLA–Environmental Science	1
VLA180	VLA–OGT Science	½
VLA108	VLA–OGT Social Studies	½

VLA-ENGLISH LANGUAGE ARTS III (VLA124) …….year, 1 credit

Students review the basics of grammar, refine writing, improve vocabulary, and delve into the world of American literature. Students apply the writing process to review paragraph writing and functional document writing such as business letters and resumes. Students also write longer descriptive and persuasive compositions and engage in several creative writing activities. They apply research skills to develop a persuasive speech. During the second semester, students read, analyze, and respond to various genres in American literature, including poetry, short stories, nonfiction, and the novel, Ethan Frome by Edith Wharton.

VLA-ENGLISH LANGUAGE ARTS IV (VLA125) …….year, 1 credit

In this course, students read and respond to English literature from the Anglo Saxon Period through the Twentieth Century. The first half of the course focuses on writing. Students apply the writing process to write paragraphs, persuasive and expository compositions, and reflective essays. They also engage in an extensive research project and develop a formal research paper. During the second semester, students read, analyze, and respond to various genres in British Literature, including poetry, essays, and the Elizabethan drama, Romeo and Juliet by William Shakespeare.

VLA-ALGEBRA I (VLA156) ……year, 1 credit

In this course, students connect physical, verbal, and symbolic representations of the real number system; investigate properties including closure; demonstrate fluency in computations with real numbers; solve and graph linear equations and inequalities. They use formulas to solve problems including exponential growth and decay; add, subtract, multiply, and divide monomials and polynomials; and solve quadratic equations with real roots by graphing, formula, and factoring. Students define functions, determine slope, calculate distance, and draw graphs of linear equations using slope, y-intercept, parallel, and perpendicular lines; determine the characteristics of linear, quadratic, and exponential functions; solve systems of linear equations involving two variables graphically and symbolically; simplify and compute with rational and radical expressions; model and solve problem situations involving direct and indirect variation. They describe and interpret rates of change from graphical and numerical data; find, use, and interpret measures of center and spread to compare and draw conclusions about data; evaluate the appropriateness of data collection and analysis; and identify possible misuses of statistical data. They use counting techniques and the Fundamental Counting Principal to determine possible outcomes, compute probabilities of compound events, independent events, and simple dependent events; and make predictions based on theoretical probabilities and experimental results. Students define basic trigonometric ratios in right triangles and apply proportions to solve problems involving right triangle trigonometry.

VLA-GEOMETRY (VLA157) ……year, 1 credit

In this course, students formally define geometric figures; describe and apply the properties of similar and congruent figures; and justify conjectures involving similarity and congruence. They recognize and apply angle relationships in situations involving intersecting lines, perpendicular lines, and parallel lines; use coordinate geometry to represent and examine the properties of geometric figures including slope, midpoint, distance, parallel, and perpendicular lines; draw and construct representations of two and three dimensional geometric objects using a variety of tools such as straightedge, compass, and technology. Students represent and model transformations in a coordinate plane and describe results; prove or disprove conjectures and establish the validity of conjectures about geometric objects, their properties and relationships by counterexample, inductive and deductive reasoning, and critiquing arguments made by others. Students use right triangle trigonometric relationships to determine lengths and angle measures; use algebraic representations to model and solve problem situations and to describe and generalize geometric properties and relationships; connect physical, verbal, and symbolic representations of irrational numbers; calculate and explain the difference between absolute error and relative error; interpret the relationship between two variables using multiple graphical displays and statistical measures; model problems dealing with uncertainty with area models; differentiate and explain the relationship between the probability of an event and the odds of an event.

VLA-OGT MATH (VLA166)……year, 1 credit

This course is only offered to students in the graduating classes of 2016 and 2017 who have not yet met the OGT Math requirement.

This course is designed to assist students in preparation for the Ohio Graduation Test in mathematics. Students investigate properties and order of operations, evaluate expressions, identify subsets of the real number system, and determine equivalent forms of real numbers; estimate, compute, and solve problems with real numbers including ratio, proportion, percent, integers, rational numbers, scientific notation, and square roots; generalize patterns and sequences and apply formulas to real-world problem situations. Students determine length, area, and volume and the appropriate use of linear, square and cubic unit measurements; generalize patterns and sequences using tables, graphs, and symbolic algebra; define functions; determine slope and intercepts; draw graphs of linear equations and inequalities; and explore simple quadratic and exponential functions. Students solve linear equations, inequalities, systems of equations, quadratic equations, and direct and inverse variation problem situations. They define geometric figures and apply the properties of similar and congruent figures; recognize and apply angle relationships involving intersecting lines, perpendicular lines, and parallel lines; use coordinate geometry to examine the properties of geometric figures including slope, midpoint, distance, parallel, and perpendicular lines. They perform translations, reflections, rotations, and dilations; define basic trigonometric ratios in right triangles and apply proportions to solve problems involving right triangle trigonometry. They use measures of center and spread to analyze data; use permutations and combinations to calculate the number of possible outcomes recognizing repetition and order; and compute the probability of compound events, independent events, and simple dependent events.

VLA-BIOLOGY (VLA178)……year, 1 credit

This course emphasizes the concepts, principles and theories that enable people to understand the living environment. Students study biology concepts such as cells and their structure and function, the genetic and molecular bases of inheritance, biological evolution, and the diversity and interdependence of life. Students explain the Earth's history using geologic evidence, identifying the Earth's resources, and exploring processes that shape the Earth. The flow of energy and the cycling of matter through biological and ecological systems are addressed in the course. Embedded throughout this study are the basic science processes of inquiry, modeling investigations and the nature of science. Students learn to trace the historical development of scientific theories, ideas, ethical guidelines in science, the interdependence of science and technology, and the study of emerging issues to become scientifically literate citizens.

VLA-ENVIRONMENTAL SCIENCE (VLA179)…….year, 1 credit

In this course, students draw on their previous experience and connect Earth, space, life and physical sciences into a coherent study of the environment. Emphasis is placed on the interactions between humans and Earth, ecosystems, biological evolution, populations and diversity. Students also explore matter and energy relationships. The human interactions with science and technology are discussed, as well as how man has modified current ecosystems and natural systems. Students have the opportunity to use basic science processes of inquiry, scientific investigation, and the nature of science to examine past events, current situations, and to develop and revise scientific predictions, ideas or theories.

VLA-OGT SCIENCE (VLA180)…..... semester, ½ credit

This course is only offered to students in the graduating classes of 2016 and 2017 who have not yet met the OGT Science requirement.

The Ohio Graduation Test prep course will provide a concise review of high school level science to help prepare students for the OGT. The course begins with a diagnostic test, followed by study skills for the OGT. Students will then focus on major concepts, understandings, and skills in the areas of physical science, earth and space science, genetics and heredity, and life science that are included in Ohio's science curriculum. The course will end with two practice tests. A checklist is included that will help determine which topics have already been mastered and in which topics the student is weak and needs to review more thoroughly. The units and tests follow the style and format of the OGT sample test items and OGT Practice Test in science.

*Required Course Fee

VLA-OGT SOCIAL STUDIES (VLA108)…….. semester, ½ credit

This course is only offered to students in the graduating classes of 2016 and 2017 who have not yet met the OGT Social Studies requirement.

The Ohio Graduation Test prep course will provide a concise review of high school level social studies to help prepare students for the OGT. The course begins with a diagnostic test, followed by study skills for the OGT. Students will then focus on sections of history, people in societies, geography, economics, government, citizenship rights and responsibilities, and social studies skills and methods that are included in Ohio's social studies curriculum. The units and tests follow the style and format of the OGT sample test items and OGT Practice Test in social studies.