

Stebbins High School
COURSE DESCRIPTION BOOKLET
2011-2012

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INTRODUCTION

This booklet contains course descriptions of all academic studies currently offered at Stebbins High School. It was compiled to be used in conjunction with the student registration process. Parents and students should find this booklet quite helpful when making course selections. Prior to making such selections, the user should carefully read the following information.

General Information

Stebbins High School is a four-year comprehensive high school that offers students college preparatory and career-technical programs. In determining which courses to select each year, students should have in mind an “educational plan.” The student’s educational plan determines the rigor or difficulty level of the courses the student will select. Stebbins offers traditional, advanced, honors, and advanced placement course opportunities for students. The factors which influence an educational pathway choice are student interest, ability and aptitude. Freshman and sophomore students are required to take both a career foundation and a career specialization course where students determine which courses best suit their ability, interest and aptitude.

During their first two years at Stebbins High School, students are asked to declare one of four **educational plans**:

- > Career-Technical & College Tech Prep
- > College Prep
- > Honors College Prep
- > Tech Prep

In a 4 X 4 block schedule, students will select four courses for the first term (first 1/2 of the year) and four courses for the second term (second 1/2 of the year). Students should be careful to balance the difficulty level of their choices each term.

Upon graduation, eligible students may obtain a Diploma with Honors. Students who wish to qualify for the Diploma with Honors must carefully plan their four-year course selections and maintain a high grade point average.

Related Information on Booklet Usage

Students are strongly encouraged to complete the bulk of their required courses (for graduation) as early as possible in their high school career. Consequently, ninth and tenth grade students are typically enrolled in required courses in math, English, science, health, physical education, and world studies.

Many courses require teacher recommendation prior to a student being permitted to enroll. Such recommendation for these courses can be obtained by securing the appropriate teacher’s signature during the registration process.

Students and parents should read the course descriptions carefully, making sure the courses selected fit the chosen program of study. Courses should be taken in the correct sequence. 100 courses precede 200 courses, 200 courses precede 300 courses, 300 courses precede 400 courses. Each department offers courses based on a logical progression of skills rather than grade level eligibility. Further, some courses require that a prerequisite course(s) be taken prior to enrollment.

Students should plan their yearly and four-year schedules to meet post-high-school goals. Minimum graduation requirements do not necessarily meet all career-technical or college requirements.

GRADUATION REQUIREMENTS
Classes of 2012, 2013

English	4 credits
Mathematics	3 credits
Social Studies.....	3 credits
1 Credit World Studies	
1 Credit U. S. History	
1/2 Credit Government	
1/2 Credit Economics or 1 credit AP Government	
Science	3 credits
1 Credit Biological Science	
1 Credit Science Elective	
1 Credit Physical Science	
Health	1/2 credit
Physical Education 9 and 10.....	1/2 credit
Business, Technology, Fine Arts (Art, Music, Speech and Theater classes) or Foreign Language	1 credit or 2-1/2 credits
Educational Specialization.....	1 credit
Educational Foundations.....	1 credit
Senior Pre-Professional Experience.....	1 credit
Electives.....	6 credits
TOTAL.....	24 credits

GRADUATION REQUIREMENTS
Graduation Classes of 2014 and Beyond

English	4 credits
Mathematics	4 credits
Must include one unit of Algebra II or its equivalent	
Social Studies	3 credits
1 Credit World Studies	
1 Credit U.S. History	
1/2 Credit Government	
1/2 Credit Economics or 1 credit AP Government	
Science	3 credits
1 Credit Biological Science	
1 Credit Science Elective	
1 Credit Physical Science	
Health	1/2 credit
Physical Education 9 and 10	1/2 credit
Business, Technology, Fine Arts (Art, Music, Speech and Theater classes) or Foreign Language	1 credit or 2- 1/2 credits
Educational Specialization	1 credit
Educational Foundations	1 credit
Senior Pre-Professional Experience	1 credit
Electives	5 credits
TOTAL.....24 credits	

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

** All students must receive instruction in economics and financial literacy during grades 9-12 and must complete at least two semesters of fine arts taken any time in grades 7 – 12. Students following a career-technical pathway are exempted from the fine arts requirements.

ACADEMIC DIPLOMA WITH HONORS
Graduation Classes of 2012 and Beyond
(Students need to fulfill only 7 of the following 8 criteria)

- English 4 credits
- Mathematics 4 credits
Must include one unit of Algebra I, Geometry, Algebra II or its equivalent and another higher level course of a four-year sequence of courses that contain equivalent content.
- Social Studies (must include 1/2 credit in U.S. history & 1/2 credit in government) 4 credits
- Science (must include physics and chemistry) 4 credits
- Foreign Language 3 or 4 credits
Earn either three credits of one foreign language or two credits each of two foreign languages.
- Fine Arts 1 credit
- Career-Technical..... Not counted in Electives
- Grade Point Average 3.5 on a 4.0 scale
- ACT/SAT Score (excluding scores from the writing sections) 27 ACT/1210 SAT
Writing sections of either standardized test should not be included in the calculation of this score.

Diploma with Honors requirements pre-suppose completion of all high school diploma requirements in Ohio Revised Code including:
1/2 unit physical education
1/2 unit health
1/2 unit in U.S. history
1/2 unit in government

CAREER-TECHNICAL DIPLOMA WITH HONORS
Graduation Classes of 2012 and Beyond
(Students need to fulfill only 7 of the following 8 criteria)

- English 4 credits
- Mathematics 4 credits
 Must include one unit of Algebra I, Geometry, Algebra II or its equivalent and another higher level course of a four-year sequence of courses that contain equivalent content.
- Social Studies 4 credits
- Science (must include physics and chemistry) 4 credits
- Foreign Language Not counted toward requirements
- Fine Arts Not counted toward requirements
- Career-Technical..... Not counted in Electives
- Electives 4 credit
 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 credits.
- Grade Point Average 3.5 on a 4.0 scale
- ACT/SAT Score (excluding scores from the writing sections) 27 ACT/1210 SAT
 Writing sections of either standardized test should not be included in the calculation of this score.
- Additional Assessment
 Achieve the proficiency benchmark established for the appropriate Ohio Career-Technical Competency Assessment or the equivalent

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

- 1/2 unit physical education
- 1/2 unit health
- 1/2 unit in U.S. history
- 1/2 unit in government

STUDENT SCHEDULE CHANGE POLICY

Students are expected to make course selection decisions carefully and accurately since all master schedules and teacher staffing decisions for the following school year are based upon the number of students selecting each course. Once students have selected and requested their courses for the next school year, they will be expected to attend and complete those courses. If a schedule change must be requested, the following reasons, procedures, and guidelines will be observed:

***Schedule changes will be considered only when:**

The student could not be scheduled for all courses originally requested (i.e. course has been cancelled, class balancing, staffing decisions, etc.)

The high school schedule does not align with the college schedule (Post Secondary Education Options program.)

The student is scheduled into a course not requested

The student is scheduled into a course without having the required pre-requisites completed

The student has passed or failed a summer school course which necessitates a change

A senior is not scheduled for a course that is required for graduation

Medical reasons documented by a physician and approved by the principal which affect the student's participation (i.e. dropping physical education because of broken bones, long-term hospitalization, etc.)

Any error made by the school

*For career/technical programs, a request to withdraw from the program and return to regular classes must be made no later than the first week of the start of classes.

*The Principal will consider unusual cases with legitimate or extenuating circumstances and make the final decision as to whether or not a schedule change will be approved. If a course is approved to be dropped after it has begun, a determination will be made as to whether or not a grade of W/P (withdraw/passing) or W/F (withdraw/failing) will be recorded on the student's transcript

COLLEGE TECH PREP

College Tech Prep is a Grade 11 through associate degree program that prepares students to begin a career or complete a bachelor's degree. Tech Prep programs are rigorous programs of study starting at the secondary level and continuing through the associate degree and beyond. Academics are taught at a college-preparatory level and are aligned with state models and academic content standards.

Tech Prep programs provide technical preparation in career fields such as engineering, applied science, mechanical, industrial or practical arts or trade, agriculture, health occupations, business or applied economics. Stebbins High School is proud to offer eight College Tech Prep Programs:

- Accounting and Finance
- Allied Health Technologies
- Business Management
- Construction Technologies
- Visual Design & Imaging Technologies
- Engineering Tech
- Information Technologies (IT)
- Marketing Technologies

(Please refer to the course description for additional information)

Students completing the high school requirements of the tech prep program and meeting specific qualifications are eligible to receive a \$3,000.00 scholarship from Sinclair Community College. The scholarship may not exceed \$1,500.00 a year, beginning the fall quarter of the academic year immediately following high school graduation. The scholarship can be used within the three years following high school graduation.

To be eligible for full admission at the 11th grade to any tech prep program operated within the Miami Valley Tech Prep Consortium, the student must meet all of the following prerequisites:

- (1) Attain a minimum overall 2.0 GPA by no later than the end of the second semester of the 10th grade
- (2) Complete algebra I, algebra I equivalent or a higher level math course with a grade of 'C' or better.

At the discretion of the district, a student may be admitted into a tech prep program at the 11th grade under provisional/probationary guidelines.

The Sinclair Tech Prep Scholarship is made possible by an endowment from the Sinclair Community Foundation and Board of Trustees. The scholarship is intended to encourage students in the Miami Valley to pursue technology-based careers by completing an associate degree program or beyond. Tech Prep programs must operate under either regionally accredited post-secondary institutions or approved apprenticeship programs meeting U.S. Department of Labor standards. College Tech Prep programs, secondary and post-secondary, must comply with the state College Tech Prep Advisory Council's performance measures.

COURSE OFFERINGS

<u>Course</u>	<u>Grades Offered</u>	<u>Credits</u>	<u>Course</u>	<u>Grades Offered</u>	<u>Credits</u>
SINCLAIR CCRC			College Tech Prep. Health	10	1
College and Career Resource Center	10,11,12	1	Information Technology	10	1
AIR FORCE JUNIOR ROTC			Manufacturing	10	1
AFJROTC I	9,10,11,12	1	Marketing	10	1
AFJROTC II (P)	9,10,11,12	1	Visual Design & Imaging	10	1
AFJROTC III (P)	10,11,12	1	CAREER-BASED INTERVENTION		
AFJROTC IV (P)	10,11,12	1	Career-Based Intervention	11,12	2-3
AFJROTC V (P)	10,11,12	1	Connections Program	9,10,11,12	
AFJROTC VI (P)	10,11,12	1	ENGLISH		
AFJROTC VIIA (P)	11,12	1	English 101/102	9,10	1
AFJROTC VIIB (P)	11,12	1	Read 180	9,10	1
ART			English 200	10	1
Art 1A (Introduction to Drawing)	9,10,11,12	1/2	English 201(P)	10	1
Art 1B (Introduction to Design)	9,10,11,12	1/2	Honors English 202 (P)	10	1
Art II (P)	9,10,11,12	1	English 300	11	.1
Art III (P)	10,11,12	1	English 301(P)	11	1
Art IV (P)	12	1	AP English 302 (P)	11	1
Art Seminar (P)	12	1	English 400	12	1
Crafts	9,10,11,12	1/2	English 401(P)	12	1
Advance Crafts and Cultures (P)	10,11,12	1/2	AP English 402 (P)	12	1
Ceramics/Sculpture (P)	10,11,12	1/2	Creative Writing	9,10,11,12	1/2
Advanced Ceramics/Sculpture (P)	10,11,12	1/2	Advanced Creative Writing I (P)	11,12	1/2
BUSINESS			Advanced Creative Writing II (P)	11,12	1/2
Computer Applications I	9,10,11,12	1/2	Mythology and Science Fiction	9,10,11,12	1/2
Computer Applications II (P)	10,11,12	1/2	Speech and Communications	9,10,11,12	1/2
Basic Business I (Business Law)	10,11,12	1/2	Introduction to Theater	9,10,11,12	1/2
Basic Business II (Business Law) (P)	10,11,12	1/2	Advanced Theater I (P)	10,11,12	1
Fundamentals of Insurance	9,10,11,12	1/2	Advanced Theater II (P)	11,12	1
Fundamentals of Business	10,11,12	1/2	Basic News Reporting	9,10,11,12	1/2
Fundamentals of Business II (P)	10,11,12	1/2	FAMILY & CONSUMER SCIENCES		
International Business	9,10,11,12	1/2	Manage Transition	9,10,11,12	1/2
Pre-Professional Internship	12	1	Career Building Skills	9,10,11,12	1/2
CAREER TECHNICAL EDUCATION			Healthy and Safe Foods (P)	10, 11,12	1/2
Account. & Finance Coll. Tech Prep 301/401	11,12	4	Healthy Living (P)	11,12	1/2
Allied Health Tech. Coll. Tech. Prep 301/401	11,12	4	Child Development	11, 12	1/2
Auto Coll. & Refinishing 301/401	11,12	4	Financial Literacy	11,12	1/2
Business Manage. Coll. Tech Prep. 301/401	11,12	4	GRADS	9,10,11,12	1
Construction Tech. Coll. Tech Prep 301/401	11,12	4	FOREIGN LANGUAGE		
Engineering Tech. Coll. Tech. Prep. 301/401.	11,12	4	French I	9,10,11,12	1
Information Tech. Coll. Tech. Prep 301/401	11,12	4	French II (P)	9,10,11,12	1
Manufacturing Tech 301/401	11,12	4	Honors French III (P)	10,11,12	1
Marketing Coll. Tech Prep 301/401	11,12	4	Honors French IV (P)	11,12	1
Visual Design & Imaging Coll. Tech. Prep 301/401	11,12	4	Spanish I	9,10,11,12	1
SPECIALIZATION COURSE			Spanish II (P)	9,10,11,12	1
Accounting & Finance	10	1	Honors Spanish III (P)	10,11,12	1
Auto Collision & Refinishing	10	1	Honors Spanish IV (P)	11,12	1
Business Management	10	1	German I	9,10,11,12	1
Construction Technology	10	1	German II (P)	9,10,11,12	1
Engineering	10	1	Honors German III (P)	10,11,12	1

<u>Course</u>	<u>Grades Offered</u>	<u>Credits</u>	<u>Course</u>	<u>Grades Offered</u>	<u>Credits</u>
FOREIGN LANGUAGE (cont'd)			MUSIC		
Honors German IV (P)	11,12	1	Concert/Marching Band	9,10,11,12	2
Exploring Modern Languages	9,10,11,12	1	Symphonic/Marching Band (P)	9,10,11,12	2
FOUNDATIONS			Concert Choir	9,10,11,12	2
Accounting & Finance Foundations	9	1/2	Honors Symphonic Choir (P)	10,11,12	2
Business Management Foundations	9	1/2	Orchestra (P)	9,10,11,12	2
College Tech Prep Allied Health Foundations	9	1/2	Music Theory	9,10,11,12	1
Construction Foundations	9	1/2	Flag Corp Auxiliary	9,10,11,12	1/2
Digital Arts and Communications Foundation	9	1/2	SCIENCE		
Engineering Foundations	9	1/2	Physical Science /Honors PS(P)	9,10,11,12	1
Fine Art Foundations	9	1/2	Earth Science (P)	10,11,12	1
Information Technology Foundations	9	1/2	Space Science	10,11,12	1
Manufacturing Foundations	9	1/2	Biology/ Honors Biology (P)	10,11,12	1
Marketing Foundations	9	1/2	Chemistry/ Honors Chemistry (P)	10,11,12	1
Music Foundations	9	1/2	AP Biology(P)	11,12	1
Transportation Foundations	9	1/2	Physics/ Honors Physics (P)	10,11,12	1
HEALTH/PHYSICAL EDUCATION			AP Chemistry	11,12	1
Health	9,10,11,12	1/2	AP Physics	11,12	1
Advanced Issues in Health (P)	9,10,11,12	1/2	Anatomy & Physiology(P)	11,12	1
Outdoor Physical Education	9,10,11,12	1/4	Anatomy & Physiology - Allied Health	12	1
Indoor Physical Education	9,10,11,12	1/4	Physics - Engineering Technology	12	1
Advanced Physical Education (P)	9,10,11,12	1/4	Principles of Biomedical Sciences	10	1
INDUSTRIAL TECHNOLOGY			Human Body Systems	11,12	1
Industrial Technology	9,10,11,12	1/2	Medical Interventions	11,12	1
Industrial Technology II (P)	10,11,12	1/2	Biomedical Innovation	11,12	1
Introduction to Drafting	9,10,11,12	1/2	Forensic Science	11,12	1
Metals I	9,10,11,12	1/2	Zoology	11,12	1
Metals II	9,10,11,12	1/2	Environmental Science	9,10,11,12	1
Woods I	9,10,11,12	1/2	SOCIAL STUDIES		
Woods II (P)	9,10,11,12	1/2	Sociology	9,10,11,12	1/2
MATHEMATICS			Anthropology	9,10,11,12	1/2
Acad. CP Algebra I/Honors CP Algebra I	9,10,11,12	1	Contemporary Issues	10, 11,12	1/2
Algebra 1 R	9,10,11,12	1	World Studies/Honors World Studies	9,10,11,12	1
Personal Finance	10,11,12	1/2	Social Psychology	11, 12	1
Geometry	9,10,11,12	1	Ancient World History	9,10,11,12	1/2
Geometry CP/Honors Geometry (P)	9,10,11,12	1	Western Civilization	9,10,11,12	1/2
Algebra IIA	10,11,12	1	U.S. History (P)	10, 11,12	1
Algebra IIB	10,11,12	1	Honors U.S. History (P)	10, 11,12	1
Algebra II CP/Honors Algebra II CP	10,11,12	1	Fundamentals of Amer. Govt. (P)	12	1/2
Algebra II-CTE	11,12	1	Economics	12	1/2
Honors Pre-Calculus (P)	10,11,12	1	AP Government/Politics	12	1
Transition to College Math (P)	12	1	Comparative Religion	9,10,11,12	1/2
AP Calculus (P)	11,12	1	Local History	9,10,11,12	1/2
AP Calculus (BC) (P)	12	1	Non-Western History	9,10,11,12	1/2
Statistics (P)	10,11,12	1/2	Women's History	9,10,11,12	1/2
AP Statistics (P)	11,12	1	STUDENT PUBLICATIONS PRODUCTION CLASS		
Trigonometry	11,12	1	Student Publications Production Class SPPC	10,11,12	1
Math Skills/Lab	9,10,11,12	1/2			
ACT/SAT Test Prep	11,12	1/2			

(P) Indicates prerequisite – Successful completion of previous course(s) and departmental approval required before students may be enrolled.

SINCLAIR COLLEGE AND CAREER RESOURCE CENTER

1 credit

Length of course: 1 term

Grades: 10, 11, 12

Prerequisite: Juniors and Seniors with a 2.0 GPA, Sophomores with a 3.0 GPA or Higher (Interest in College)

Sinclair's College and Career Resource Center (CCRC) offers FROM HIGH SCHOOL TO SUCCESS, which is a semester course designed to bridge the gap between high school and college/career by preparing students for college entrance exams (particularly the Accuplacer exam used by Sinclair Community College and many other colleges). This course strives to enhance student's skills in reading, writing, arithmetic and algebra to secure placement in college levels courses. Students may sign up for one or two semesters, with the first semester focusing on reading and writing and the second focusing on arithmetic and algebra. Each semester, students will be required to take the Accuplacer test on location in the Stebbins High School College and Career Resource Center. The scores from this test may be used as entrance scores if the student plans to attend Sinclair Community College. Students in the College and Career Resource Center (CCRC) will also have the chance to explore options for their college/career including career exploration, college choice, possible courses of study and fundamentals of financial aid.

AIR FORCE JUNIOR RESERVE OFFICER TRAINING CORPS (AFJROTC)

This four year program curriculum consists of eight courses: AFJROTC I - VIII. Each course consists of three areas of study: Aerospace Science, Leadership Education, and Physical Fitness. Extracurricular activities include our award-winning drill team, model rocketry competition team, color guard team, orienteering competition team, academic challenge team, cyber-patriot team, aircraft flights and flight training, and formal military ceremonies. Each of these enhance and build upon the leadership principles and techniques you learn throughout the curriculum.

AFJROTC I

1 credit

Length of course: 1 term

Approximate fee: \$5.00

(Journey Into Aviation History: Citizenship, Character, and Air Force Tradition)

This course consists of aerospace science, leadership education, and physical fitness training. *Upon earning the right/privilege, students are authorized to wear an Air Force-provided uniform one day each week and maintain Air Force grooming standards (i.e. haircut).*

Students will be introduced to aviation history and the development of flight throughout the centuries. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. It is interspersed with concise overviews of the principles of flight to include basic aeronautics, aircraft motion and control, flight power, and rockets. The student will learn about the Air Force and Air Force organizational structure; uniform wear; customs, courtesies, and other military traditions; health and wellness; fitness; individual self-control; and citizenship. In Physical Fitness Training, the student will engage in a challenging physical exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity.

AFJROTC II

1 credit

Length of course: 1 term

Approximate fee: \$5.00

(The Science Of Flight: Communication, Awareness, and Leadership)

Prerequisite: AFJROTC I or Instructor permission

This course consists of aerospace science, leadership education, and physical fitness training. *Students are authorized to wear and evaluated on the wear of an Air Force-provided uniform one day each week and maintaining Air Force grooming standards (i.e. haircut).*

This course is an introduction to flight and will acquaint students with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. Students learn basic aircraft flight control and navigation to include actual aircraft flights and using flight simulators, map reading, course plotting, and the effects of wind on flight. The student is provided information on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development. Written reports and speeches compliment the academic materials. In Physical Fitness Training, the student will engage in a challenging physical exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity.

AFJROTC III

1 credit

Length of course: 1 term

Approximate fee: \$5.00

(Exploring Space: Life Skills and Career Opportunities)

Prerequisite: AFJROTC I or Instructor permission

This course consists of aerospace science, leadership education, and physical fitness training. *Students are authorized to wear and evaluated on the wear of an Air Force-provided uniform one day each week and maintaining Air Force grooming standards (i.e. haircut).*

This course examines Earth, the Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned spaceflight. Issues that are critical to travel in the upper atmosphere such as orbits and trajectories, unmanned satellites, space probes, guidance and control systems are explained. Students design, build, and launch model rockets with different payloads in preparation to compete in the National Team America Rocketry Challenge held in Virginia each year. The course helps students decide which path to take after high school. Information is provided on how to apply for admission to college or to a vocational or technical school. Information on how to begin the job search is available to students who decide not to go to college or vocational school. Available also is information about financial planning and how to save, invest, and spend money wisely, as well as how not to get caught in the credit trap. Students are informed about real life issues such as understanding contracts, leases, wills, warranties, legal notices, and personal bills. For those students who may be moving into an apartment of their own, information is presented on apartment shopping and grocery shopping skills. There is information on how to prepare a résumé and the importance of good interviewing skills. If there are students who are interested in a career in the military, with the federal government, or an aerospace career, information is also provided for them. In Physical Fitness Training, the student will engage in a challenging physical exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity.

AFJROTC IV

1 credit

Length of course: 1 term

Approximate fee: \$5.00

(An Introduction to Astronomy: Principles of Management)

Prerequisite: AFJROTC I and III or Instructor permission

This course explores the history of astronomy to include prehistoric astronomy, the early ideas of the heavens. We take focus on the Earth as a planet and the Earth's interior; the age of the Earth and Earth's magnetic atmosphere and magnetic field. The Moon is discussed in detail including its description, its structure, and its origin and history, as well as its eclipses and tides. An in-depth study of the Solar System, the terrestrial planets and the outer planets is covered as well. In Leadership Education the student will gain an understanding of the fundamentals of management, managing yourself, and others. Emphasis is placed on allowing the student to see himself/herself as a manager using areas of

management to include Management Techniques, Management Decisions, Management Functions, and Managing Self and Others. In Physical Fitness Training, the student will engage in a challenging physical exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity.

AFJROTC V 1 credit Length of course: 1 term Approximate fee: \$5.00

(Survival, Search and Rescue Training: Management of the Corps)

Prerequisite: AFJROTC I and IV or Instructor permission

The survival instruction will provide training in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival. Survival also presents “good to know” information that would be useful in any situation. The information is just as useful to an individual lost hunting or stranded in a snowstorm. Search and Rescue Training includes National Emergency Services and Civil Air Patrol training in search and rescue techniques used to assist survivors of aircraft mishaps to include first aid, ground team search methods, incident site security, orienteering, land navigation, and incident reporting. Leadership Education provides opportunity for upper class cadets to manage the entire corps under AFJROTC instructor supervision. This course is a practicum for cadets to provide hands-on experience for the opportunity to put the theories of previous leadership courses into practice. All the planning, organizing, coordinating, directing, controlling, and decision-making will be done by the cadets, under the supervision of AFJROTC instructors. They practice their communication, decision-making, personal-interaction, managerial, and organizational skills. In Physical Fitness Training, the student will engage in a challenging physical exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity.

AFJROTC VI 1 credit Length of course: 1 term Approximate fee: \$5.00

(Cultural Studies: An Introduction to Global Awareness, Management of the Corps)

Prerequisite: AFJROTC I and IV or Instructor permission

This is a customized course about the world’s cultures. It introduces students to the world’s cultures through the study of world affairs, regional studies, and cultural awareness. The course delves into history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns, and human rights. It looks at major events and significant figures that have shaped each region. Leadership Education provides opportunity for upper class cadets to manage the entire corps under AFJROTC instructor supervision. This course is a practicum for cadets to provide hands-on experience for the opportunity to put the theories of previous leadership courses into practice. All the planning, organizing, coordinating, directing, controlling, and decision-making will be done by the cadets, under the supervision of AFJROTC instructors. They practice their communication, decision-making, personal-interaction, managerial, and organizational skills. In Physical Fitness Training, the student will engage in a challenging physical exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity.

AFJROTC VIIA 1 credit Length of course: 1 term Approximate fee: \$5.00

(Aviation Honors Flight School: Management of the Corps)

Prerequisite: AFJROTC I, II and IV or Instructor permission

The material covered is an advanced, more in-depth study of the previous aerospace topics. This course is for upper class cadets (junior or seniors) only and is the foundation for students interested in receiving a private pilot’s license and serves as the component for cadets qualified and selected to take this course as part of their overall AFJROTC class. When the course is completed the students should be prepared to take and pass the Federal Aviation Administration (FAA) private pilot written examination. The student will learn to comprehend the fundamentals of flight, flight operations, the atmosphere and its effect on aircraft operations, the basics of navigation using charts and radio aids, and apply the principles of aeronautical decision-making and flight-related physiological factors. Leadership Education provides opportunity for upper class cadets to manage the entire corps under AFJROTC instructor supervision. This course is a practicum for cadets to provide hands-on experience for the opportunity to put the theories of previous leadership courses into practice. All the planning, organizing, coordinating, directing, controlling, and decision-making will be done by the cadets, under the supervision of AFJROTC instructors. They practice their communication, decision-making, personal-interaction, managerial, and organizational skills. In Physical Fitness Training, the student will engage in a challenging physical exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity.

AFJROTC VIIB 1 credit Length of course: 1 term Approximate fee: \$5.00

(Aviation Honors Flight School: Management of the Corps)

Prerequisite: AFJROTC I, II, IV and VIIA or Instructor permission

The material covered is an advanced, more in-depth study of the previous aerospace topics. This course is for upper class cadets (junior or seniors) only and is the foundation for students interested in receiving a private pilot’s license and serves as the component for cadets qualified and selected to take this course as part of their overall AFJROTC class. When the course is completed the students should be prepared to take and pass the Federal Aviation Administration (FAA) private pilot written examination. The student will learn to comprehend the fundamentals of flight, flight operations, the atmosphere and its effect on aircraft operations, the basics of navigation using charts and radio aids, and apply the principles of aeronautical decision-making and flight-related physiological factors. Leadership Education provides opportunity for upper class cadets to manage the entire corps under AFJROTC instructor supervision. This course is a practicum for cadets to provide hands-on experience for the opportunity to put the theories of previous leadership courses into practice. All the planning, organizing, coordinating, directing, controlling, and decision-making will be done by the cadets, under the supervision of AFJROTC instructors. They practice their communication, decision-making, personal-interaction, managerial, and organizational skills. In Physical Fitness Training, the student will engage in a challenging physical exercise program focused upon individual base line improvements with the goal of achieving a national standard as calculated with age and gender. The exercises develop all muscle groups and provide sufficient anaerobic and aerobic intensity.

ART

Art 1A (Introduction to Drawing) 1/2 credit Length of course: 1/2 term Approximate fee: \$25.00

Students will be introduced to a variety of drawing techniques using graphite, charcoal, pen and ink, pencil, marker, and pastels. Subject areas, will include object studies, still life, 1 point perspective, and portraits.

Art 1B (Introduction to Design) 1/2 credit Length of course: 1/2 term Approximate fee: \$25.00

Students will be introduced to a variety of areas including drawing, painting, printmaking, and sculpture. A vast number of media and techniques will be used throughout the half-term.

Art II 1 credit Length of course: 1 term Approximate fee: \$50.00

Prerequisite: Art IA and Art IB

This course is for art students desiring to continue beyond the introductory level. Areas of study will include painting, drawing, sculpture, ceramics, printmaking and exploration of various cultures and art appreciation. Preparation of a personal portfolio will be introduced.

Art III 1 credit Length of course: 1 term Approximate fee: \$50.00

Prerequisite: Art II, teacher recommendation, portfolio review

This course will include major drawing units in still life, landscape, and figure. A sketchbook will be required. Art units will focus on the use of the elements and principles of art. Types of media will include acrylic and watercolor painting, printmaking, and ceramic pottery and sculpture. The student's personal portfolio will be expanded. All units will include the study of art history.

Art IV 1 credit Length of course: 1 term Approximate fee: \$50.00

Prerequisite: Art III, teacher recommendation, portfolio review

This course concentrates on the preparation of a portfolio. Students are expected to participate in area competitions and art exhibits. A sketchbook/journal will be required. This course will include major units drawing, painting, printmaking, ceramics, and sculpture. All units will include the study of the elements and principles of design, and art history.

Art Seminar 1 credit Length of course: 1 term Approximate fee: \$50.00

Prerequisite: Art IV, teacher recommendation, portfolio review

This course will allow the student to choose an area of concentration and assignments will be made through teacher and student conferences. A contract will be established to determine project goals. Art Seminar is designed for the serious art student who may wish to continue their studies in art after graduation from high school. This class may be repeated.

NOTE: Students with demonstrated artistic abilities may enroll in upper level art courses. However, permission, to do so must be granted by the Art Department.

Crafts 1/2 credit Length of course: 1/2 term Approximate fee: \$30.00

Students will be introduced to a variety of craft areas, which may include metal tooling, jewelry, painting, clay and fiber arts. Various cultures and their use of decorative crafts in their everyday life will be explored.

Advanced Crafts and Cultures 1/2 credit Length of course: 1/2 term Approximate fee: \$30.00

Prerequisite: Crafts with C+ average, 10th, 11th, and 12th grade

This course will include more advanced techniques in jewelry, paper, ceramics, fiber arts and the exploration of cultures that originated the various styles in these crafts.

Ceramics/Sculpture 1/2 credit Length of course: 1/2 term Approximate fee: \$40.00

Prerequisite: 10th, 11th, and 12th grade

This course will introduce you to a range of art-making processes with an emphasis on clay construction. Fundamental skills in hand-building, wheel-throwing, and sculpture will be developed through assignments that require imaginative solutions while emphasizing basic design concepts. An appreciation for the tactile and plastic nature of the medium is helpful, as well as a high tolerance for getting a bit messy while having fun.

Advanced Ceramics/Sculpture 1/2 credit Length of course: 1/2 term Approximate fee: \$40.00

Prerequisite: Ceramics w/C+ Average

This course will include more advanced techniques in extruded clay, wheel thrown and hand built construction. Fundamental skills will be further developed through assignments that require imaginative solutions while emphasizing basic design concepts. **This class may be repeated.**

BUSINESS

Computer Applications I 1/2 credit Length of course: 1/2 term Approximate fee: \$7.00

This course is needed by everyone! It is designed to provide students with the skills needed to be efficient and productive on a computer. While learning keyboarding, you will learn how to produce documents, spreadsheets as well as slideshows for other classes, for college, and for entry-level jobs. Using Microsoft Office 2007, you will learn to correctly format letters, envelopes, memos, reports, tables, use formulas, create charts, and design appropriate slideshows.

Computer Applications II 1/2 credit Length of course: 1/2 term Approximate fee: \$5.00

Prerequisite: Computer Applications I

Students should consider taking this class after completing Computer Applications I. This course strives to broaden and develop the Microsoft Office 2007 skills that students already possess. It is designed to familiarize students with the advanced features of MS Word, MS Excel and MS PowerPoint. The course will require proficiency with word processing, spreadsheets, and presentation media software to plan, create and design solutions using integrated software.

Basic Business I (Business Law) 1/2 credit Length of course: 1/2 term Approximate fee: \$10.00

Ignorance of the law is no excuse! It is important for everyone to know and understand the laws that affect their daily lives. This course covers how laws apply to individuals, minors, consumers, and businesses. The importance of ethics is intertwined throughout the topics studies. This class is recommended for grades 10-12.

Basic Business II (Business Law) 1/2 credit Length of course: 1/2 term Approximate fee: \$10.00

Prerequisite: Basic Business I

If you enjoyed Basic Business I, this second course is for you! This elective course will continue to build upon what you have already learned and you will further explore the law and justice, the law of contracts, employment law, the law of property, business organizations, and the law and finance including commercial paper as well as debtor-creditor rights and bankruptcy. You will also have the opportunity to choose other areas of study including such topics as sales contracts, consumer rights, defective products, unions, and employee injuries.

Fundamentals of Insurance 1/2 credit Length of course: 1/2 term Approximate fee: \$10.00

In today's society, understanding insurance is everyone's responsibility. Although it is often misunderstood, insurance is one of many necessary components required to build a strong foundation that will ensure you can protect yourself in both your personal and professional lives. Gaining an understanding of life, health, automobile, as well as homeowner and renter's policies is important for everyone to be sure that you have adequate coverage against the potential for risk of loss. This course will also cover dealing with workplace risk, retirement plans, disability and long-term care, as well as what it takes to be a wise insurance consumer.

Fundamentals of Business I 1/2 credit Length of course: 1/2 term Approximate fee: \$7.00

Would you like the opportunity to someday work anywhere you want to in the world in an exciting, dynamic career that gives you the capability to earn lots of money? If the answer is yes, then business is an area you might want to consider. This course is an excellent way to learn business basics such as investments and the stock market, business economics, marketing, management, entrepreneurship, and human resources. You will have the ability to learn about business from both a personal and career prospective.

Fundamentals of Business II 1/2 credit Length of course: 1/2 term Approximate fee: \$7.00

Prerequisite: Fundamentals of Business I

Do you like Fundamentals of Business? Then you must take this course. In addition to expanding on what you learned in Business I, you will be introduced to new topics, such as business organizations, international business, foreign exchange, and government involvement in business. You will be involved in a variety of activities including group work, projects, and a business simulation. You will even help to decide some of the topics to be covered.

International Business 1/2 credit Length of course: 1/2 term Approximate fee: \$10.00

Tomorrow's business professionals must maintain a global perspective in order to ensure their personal success in our rapidly changing business world. This course will provide an overview of our global economy, show how cultural, governmental, political, and legal forces influence global business and introduce importing, exporting, as well as foreign exchange and international finance. Global entrepreneurship and marketing will also be addressed. Several regional profiles will enable the student to have a better understanding and awareness of different cultures.

Pre-Professional Internship 1 credit Length of course: 1 term Approximate fee: \$25.00

The Pre-Professional Internship class is the avenue for you to complete the four components of your Senior Project, which is a requirement for graduation. The four components are: 1) researching a career field of interest; 2) a portfolio including fieldwork with your mentor; 3) a product or project which reflects what you learned; and 4) a formal presentation (Senior Boards) before a panel of judges in which you will share your experience as a whole. The Senior Project builds a bridge between the skills learned in the classroom and the real world. You will be given the opportunity to intern with a mentor in the workforce four hours a week for approximately eight weeks to receive a hands-on learning experience. While interning, you will gain an understanding of the necessary skills, required education, and responsibilities that comprise your career choice. Since you will be leaving the building to participate in your internship experience, you must provide your own transportation.

CAREER TECHNICAL EDUCATION AND PROGRAMS

Career and technical education programs are planned course sequences of high quality academic core content and technical skills, which focus on a specific career pathway and prepare students to successfully transition toward their career goal. Career technical education prepares students for post-high school opportunities whether moving on to further education, training or employment. Every student moves through curriculum-based career awareness, exploration, planning and preparation leading to a realistic individualized career plan which is compatible with the student's abilities, aptitudes and interests.

The mission of Stebbins High School career technical programs is to help empower students for effective participation in an international economy as world-class workers and citizens. Stebbins career programs are designed to contribute to the broad educational achievement of students focusing on their ability to work independently and as part of a team, think creatively, solve problems, and utilize technology.

Stebbins currently offers 10 career technical programs:

- Accounting & Finance College Tech Prep
- Allied Health Technologies College Tech Prep
- Auto Collision & Refinishing
- Business Management College Tech Prep
- Construction Technologies College Tech. Prep.
- Digital Design Technologies College Tech Prep
- Engineering Technologies College Tech Prep
- Information Technology College Tech Prep
- Manufacturing Technologies College Tech Prep
- Marketing College Tech Prep

Students enrolling in career technical programs at the 11th grade will be introduced to a curriculum that has been validated by the Ohio Department of Education, industry, and post secondary representatives. Students enrolling in tech prep career technical programs will have an opportunity to earn college credit and scholarship (A more detailed explanation of tech prep follows).

COLLEGE TECH PREP

College Tech Prep is a grade 11 through associate degree program that prepares students to begin a career or complete a bachelor's degree. Tech Prep programs are rigorous programs of study starting at the secondary school level and continuing through the associate degree and beyond. Academics are taught at a college preparatory level and are aligned with state models and academic content standards.

Tech Prep programs provide technical preparation in career fields such as engineering, applied science, mechanical, industrial or practical arts or trade, agriculture, health occupations, business or applied economics. Stebbins High School is proud to offer eight College Tech Prep programs:

Accounting & Finance College Tech Prep
Allied Health Technologies College Tech Prep
Business Management College Tech Prep
Construction Technologies College Tech Prep
Visual Design & Imaging Technologies College Tech Prep
Engineering Technologies College Tech Prep
Information Technology College Tech Prep
Manufacturing Technologies College Tech Prep
Marketing Technologies College Tech Prep

Students completing the high school requirements of the tech prep program and meeting specific qualifications are eligible to receive a \$3,000.00 scholarship at Sinclair Community College. The scholarship may not exceed \$1,500.00 a year, beginning the fall quarter of the academic year immediately following high school graduation. The scholarship can be used within the three years following high school graduation.

To be eligible for full admission at the 11th grade to any tech prep program operated within the Miami Valley Tech Prep Consortium, the student must meet all of the following prerequisites: (1) Attain a minimum overall 2.0 GPA by no later than the end of the second semester of the 10th grade (2) Complete algebra I, equivalent or a higher level math course with a grade of "C" or better by the end of the 10th grade (3) Show evidence of no deficiencies in progress toward meeting high school graduation requirements. An additional prerequisite is required for allied health students who must also complete biology I with a grade of C or better. At the discretion of the district, a student may be admitted into a tech prep program at the 11th grade under provisional/probationary guidelines.

The Sinclair Tech Prep Scholarship is made possible by an endowment from the Sinclair Community College Foundation and Board of Trustees. The scholarship is intended to encourage students in the Miami Valley to pursue technology-based careers by completing an associate degree program or beyond.

Tech Prep programs must operate under either regionally accredited post-secondary institutions or approved apprenticeship programs meeting U.S. Department of Labor standards.

Accounting and Finance College Tech Prep 301/401

(Finance Career Field)

4 credits

Length of course: Junior & Senior Year

Approximate fee: \$20.00

Do you have an interest in attending college, and studying business in order to someday have a high-paying, exciting, upwardly mobile job? Then the Accounting & Finance program is for you. Accounting is often described as the language of business. Every business decision involves a cost/benefit analysis. Every successful business must carefully take care of its finances. Every successful business person must understand accounting. This program will give you a solid foundation in each of these areas.

In the first year, students will study accounting for service and merchandising business organized as partnerships and corporations. The second year will move into more advanced topics such as accounting for departmentalized and manufacturing corporations. Throughout the program students will learn skills such as journalizing, processing payables, receivables, and payroll, determining income, and preparing and analyzing financial statements. Manual and computerized accounting is used to become proficient in these skills. In addition, students will learn how to use spreadsheets as a tool to report and analyze financial data. Financial concepts, including banking and finance, stocks and the stock market, mutual funds, bonds, risk, international business, and foreign exchange are also covered. Participation in Business Professionals of America is part of the program. Sample occupations in this field include financial accountant, tax accountant, auditor e-commerce strategist, budget analyst, controller, banker, stockbroker, financial advisor, business consultant, and real estate agent.

*College Tech Prep programs are rigorous programs of study combining high-level academic and technical preparation in grades 11 through the associate degree and beyond. Students who are eligible for college credit and \$3,000 scholarship are part of the program.

Finance Career Field

The Finance Career Field includes technical and professional-level careers in Accounting, Financial and Investment

Related Careers: Accountant, Auditor, Actuary, Cashier, Bookkeeper, Controller, Financial, Bank Officer, Bank Teller, Foreign Exchange Trader, Accounting Clerk, Investment Planner,

Allied Health Technologies College Tech Prep 301/401

(Health Science Career Field) 4 credits Length of course: Junior & Senior year Approximate fee: \$20.00

This two-year program is available for students interested in a career in the medical field. Articulation agreements, along with scholarship funds and college credit with Sinclair Community College, enable students to start their first two years of educational training at Stebbins and then transition to their last two years of study at Sinclair where they will earn an Associates Degree. The following allied health programs are available at Sinclair: dental hygiene, dietetics and nutrition, management, medical assistant, mental health, nursing, occupational therapy assistant, radiology technologist, respiratory care. Curriculum for the high school program includes medical terminology, anatomy & physiology, medical ethics and law, patient education, vital signs, and general administrative and financial duties. There are additional costs involved in this program for uniforms, CPR and First Aid Certification. Sample occupations in this field include certified nurse/medical assistant, registered nurse, physical/occupational therapy assistant, mental health technician, licensed practical nurse, pharmacist, veterinarian, dietician, coroner, phlebotomist, physician's assistant, and nurse practitioner.

*College Tech Prep programs are rigorous programs of study combining high-level academic and technical preparation in grades 11 through the associate degree and beyond.

Health Science Career Field

The Health Science Career Field provides technical and professional-level careers that plan, manage and provide therapeutic services, diagnostic services, health informatics, support services and biotechnology research and development.

Related Careers: Nurse, Medical Assistant, Health Aide, Patient Care Technician, Dental Hygienist, Occupational Therapist, Physician, Pharmacy Assistant, Pharmacist, Dietician/Nutritionist, EMT, Surgical Technician.

Auto Refinishing 301/401

(Transportation Systems Career Field) 4 credit Length of course: Junior & Senior Year Approximate fee: \$20.00

The auto collision program blends classroom theory with lab experience to gain a well-rounded knowledge of the industry. Instruction in the junior year includes basic knowledge of hand and power tools, repairing dents and refinishing techniques. During the senior year, students will gain advanced training in laser-guided frame repair and precision color matching. Seniors will also gain valuable experience during their pre-professional work experience. Sample occupations in this field include: paint chemists, automotive designer, insurance adjuster, auto manufacturer representative, auto collision instructor, and automotive manufacturer representative.

Transportation Systems Career Field

The Transportation Systems career field includes occupations that focus on aviation, mechanical and power technologies, ground and air transportation. It also includes related professional and technical support services such as maintenance, compliance and environmental impacts.

Related Careers: Collision Repair Technician, Automotive Technician, Aviation Occupations (air traffic controller, flight attendant, etc.), Aircraft Maintenance Loadmaster, Truck Mechanic, Transportation Equipment Technician, Power Equipment Technology.

Business Management College Tech Prep 301/401

(Business & Administrative Services Career Field) 4 credits Length of course: Junior year & 1st Semester of Senior year
Approximate fee: \$20.00

The Business Management class introduces students to the coordination, implementation, promotion, supervision, and directing of the activities of individuals, organization, and businesses. Some topics you will study are operations, sales, budgeting, human resources, and property management. Students will also acquire skills in organization, leadership, planning, supervisory and policy making. Some Business management topics include Professional Development, General Administrative Functions, Entrepreneurship, and Human Resource Management. Sample occupations in this field include talent manager, advertising executive, purchasing agent, production manager, office manager, sales manager, operations manager, project manager, and human resources manager.

*College Tech Prep programs are rigorous programs of study combining high level academic and technical preparation in grades 11 through the associate degree and beyond. **Business And Administrative Services Career Field**

The Business and Administrative Services Career Field includes technical and professional-level careers that encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.

Related Careers: Business Management, Medical Office, Legal Office, Administrative Assistant, Human Resources Professional, Court Reporter, Medical Records Specialist.

Construction Technologies 301/401 College Tech Prep

(Construction Technologies Career Field) 4 credits Length of course: Junior and Senior Year Approximate fee: \$20.00

Two year Tech-Prep program designed for both career entry and college bound students. Articulation agreements along with scholarship funds and college credit with Sinclair Community College, may allow students to begin earning college credits while completing high school.

Continuing certification and training in the NCCER curriculum, is available at college entry and through the Associated Builders and Contractors.

- * Construction Technologies Course Outline:
- * Core competencies include:
- * Career exploration and development
- * Materials
- * Estimating

- * Inter-personal relationships
- * Communications
- * Leadership and teamwork
- * Safety
- * Health and environment
- * Legal and ethical aspects
- * Problem solving and critical thinking
- * Tools and equipment
- * Business practices
- * Basic construction skills-with additional specialization in carpentry and introduction to brick, block and masonry-electrical and plumbing

Construction Technologies Career Field

The Construction Technologies Career Field includes technical and professional-level careers in designing, planning, managing, and building and maintaining the built environment including roadways and bridges and industrial, commercial, and residential facilities and buildings.

Related Careers: Carpentry, Electrical Trades, Masonry, Construction Management, Environmental Control Technology, Plumbing/Pipefitting, Heavy Equipment Operators, Interior Design Application, Wood Products/Cabinet Making.

Engineering Technologies College Tech Prep 301/401

(Engineering and Science Technologies Career Field) 4 credits Length of course: Junior and Senior Year Approximate fee: \$20.00

This is a two-year tech prep program for college bound students who want intense preparation toward an Engineering related major at Sinclair Community College or a four year university. Students will receive training in state-of-the-art software and technology that is used in today's colleges, businesses and industries in the differing fields of engineering. Students will learn to create **Engineering drawings** utilizing **CADD** (computer aided drafting and design), prototypes in a 3-D rapid prototyping machines, robotics utilizing electrical and **pneumatic** components and **automated** work cells. Students will incorporate **Total Quality Management** techniques (Plan, Do, Study, Act) in all they do.

While in the program students will earn college credit. Students will then transition to Sinclair or a university to earn an Associate or Bachelors degree with an Engineering major.

Articulation agreements are in place for studies beyond the Associate's Degree level with the Universities of Dayton and Cincinnati, Miami and the University of Toledo to name a few. Sample occupations in this career field include Aerospace, Architectural, Biomedical, Civil, Chemical, Computer, Electrical, Environmental, Ergonomics, Geospatial, Industrial, Manufacturing, Materials, Mechanical, Nuclear, Packaging, Quality and Safety Engineers or Engineering Technicians.

*College Tech Prep programs are rigorous programs of study combining high-level academic and technical preparation in grades 11 through associate degree and beyond.

Engineering and Science Technologies Career Field

The Engineering and Science Technologies Career Field includes technical and professional level careers that provide scientific services such as laboratory testing, research, and development, design, process and development.

Related Careers: Engineers-Aerospace, Agricultural, Drafters, Civil, Chemical, Production, Nuclear, Robotics, Plant, Flight, Manufacturing, Sciences-Biomedical, Mathematicians, Earth Scientist, Chemist, Physicist, Research Scientist.

Information Technology College Tech Prep 301/401

(IT Career Field, Information Support & Services) 4 credits Length of course: Junior and Senior Year Approximate fee: \$20.00

The Information Technology (IT) class introduces students to the fundamentals of computing, particularly with respect to personal computer (PC) hardware, software, the World Wide Web, and web page design. Students will learn skills necessary to implement and support PC's, software and Microsoft Office applications. Students will develop an in-depth understanding of why computers are essential components in the business world and society; focus on computer as a productivity tool; and maintaining a personal computer system. As you move forward in the class the course will provide content related to networking, data communications, and Internet technologies while preparing students for broad-based, vendor-independent certifications. This course covers a wide range of material about Internet, from using the Internet to demonstrating how the Internet works, using different Internet protocols, the Internet infrastructure, security, and e-commerce. It not only introduces a variety of concepts, but also discusses in-depth the most significant aspects of Internet, such as the OSI model of networking. In addition to explaining concepts, the course uses a multitude of real world examples of networking issues from a professional's standpoint, making it a practical preparation for the real world.

Although the primary emphasis of this program is on IT related content and careers, this course provides students with a technology foundation and skill set that is transferable to any career field. This class is web enhanced to provide students with an integrated learning tool and to offer latest technology information.

INFORMATION TECHNOLOGY CAREER FIELD – INFORMATION SUPPORT & SERVICES

The Information Technologies Career Field includes technical and professional-level careers in the design, development, support and management of hardware, software, multimedia and systems integration services.

Related Careers: Programming, Software Technician, Networking, Web-Design, Desktop Publishing Specialist, Video/Game Specialists, Database Administrator, Support Technician, Internet Specialist.

Manufacturing Technologies Tech Prep 301/401

(Manufacturing Technologies Career Field)

4 credits

Length of course: Junior and Senior year

Approximate fee: \$20.00

Manufacturing and Machining is where things get made. From the selection of materials to designing manufacturing processes and inspecting the final product, this career involves analytical, technical, and problem-solving skills. It also involves close attention to detail. If you enjoy working with tools, machinery, and materials in an industrial setting, take a closer look at this career class choice. Graduation from this class could lead to a wide variety of occupations including machinist, toolmaker, welder, assembly line worker, supervision and engineering.

Manufacturing Technologies Career Field

The Manufacturing Technologies Career Field includes occupations that focus on manufacturing operations, development and design, and manufacturing production. It also includes technical and professional-level careers in planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

Related Careers: Precision Machining, Automation and Robotics, Electronics, Welding, Tool and Die Design, Plastics Occupations, Drafting Occupations, Industrial Maintenance and Repair.

Marketing College Tech Prep 301/401

(Marketing Career Field)

4 credits

Length of course: Junior and Senior year

Approximate fee: \$20.00

If you want a challenging yet fun career with an above-average income, Marketing is one of the highest wage jobs in demand by employers in Ohio! Students will learn how companies strategically manipulate shoppers to gain an advantage in the competitive marketplace. In the junior year, students learn the basic marketing concepts through hands-on projects working with other departments, the school store, and the community. Specific topics include: promotion, advertising, visual merchandising, distribution, marketing research, personal selling, international business, and public relations. In the senior year students build upon marketing concepts mastered in the junior program. Additional topics will include: computer technology, product planning, packaging, pricing, branding, financing, risk management and business plan development. Students at all levels learn about career opportunities in marketing and techniques leading to a rewarding career. Students will demonstrate important communication, interpersonal, and management skills to help them in their professional careers.

DECA and BPA are critical elements to students' success in marketing. These co-curricular organizations allow marketing students to demonstrate their knowledge in skills in a hands-on environment while competing with other local schools at the local, state and national levels. Students will also gain practical experience by running the school store and planning its promotion, financing, inventory, management, and human resources.

Marketing Career Field

The Marketing Career Field promotes, prices, sells, finances and distributes products or consumer goods to reach organizational objectives.

Related Careers: Advertising, Entrepreneurs, Display/Promotion Specialist, Sports Marketing, Entertainment Marketing, Fashion, Sales, Design, Human Relations, Publications, Management, Research Analysis, Retail.

Visual Design & Imaging Technologies College Tech Prep 301/401 (Formerly Digital Design)

(Career Fields: Graphic Designer, Illustrator, Photographer, Printer, Video Producer, Multimedia Designer & Creative Director)

4 credits

Length of course: Junior and Senior year

Approximate fee: \$20.00

This is a two-year tech-prep program for students interested in the interactive media field. Computers are fundamental for the course and students will become knowledgeable in multimedia theory that includes advanced page layout, illustration, digital photography, offset printing, video production, scriptwriting and animation. Students interested in this program should be visual and have an aptitude for creative elements.

Background experiences in art, drawing and design are helpful; an interest in art and graphic design is essential. College Tech Prep programs are rigorous courses-of study combining high-level academic and technical preparation in grades 11 through the associate degree and beyond.

VISUAL DESIGN & IMAGING TECHNOLOGIES CAREER FIELD – INTERACTIVE MEDIA

The Information Technologies Career Field includes technical and professional-level careers in the design, development, support and management of hardware, software, multimedia and systems integration services.

Related Careers: Desktop Publisher, Graphic Artist, Multimedia Designer, Illustrator, Editor, TV Production/Video Specialist, Pre-Press Operator, Publishing Specialist, Printing Technician, Artist/Painter, Illustrator, Industrial/Interior Designer, Editor.

SPECIALIZATION COURSES

[Accounting & Finance Specialization](#)

1 credit

Length of course: 1 term

Students will be introduced to the fundamentals of accounting principles and personal finance. Emphasis is placed on preparation of computerized financial statements and personal finance in the areas of spending, saving, investing and goal-setting. In addition, students will be instructed in employability skills to gain knowledge of the personal skills, attitudes and behaviors that drive the potential for growth. If applicable, students may transition to the Accounting and Finance College Tech Prep program the junior year.

Auto Collision & Refinishing Specialization 1 credit Length of course: 1 term

This course orients students to the automotive collision repair industry. Student will learn about various types of auto construction and will engage in limited hands-on application applications. Names, uses and maintenance procedures for a variety of tools and equipment are covered. In addition, students will be instructed in employability skills to gain knowledge of the personal skills, attitudes and behaviors that drive the potential for growth. If applicable, students may transition to the Auto Collision and Refinishing Career Technical program the junior year.

Business Management Specialization 1 credit Length of course: 1 term

Business Management Specialization provides students with the basics of business management. Students will learn basic skills in business communications, management, and entrepreneurship. In addition, students will be instructed in employability skills to gain knowledge of the personal skills, attitudes and behaviors that drive the potential for growth. If applicable, students may transition to the Management College Tech Prep program the junior year.

Construction Technology Specialization 1 credit Length of course: 1 term

Students will be introduced to the construction industry through limited hands-on applications and classroom activities, projects and fieldtrips. Math and science applications will be established through classroom theory. In addition, students will be instructed in employability skills to gain knowledge of the personal skills, attitudes and behaviors that drive the potential for growth. If applicable, students may transition to the Construction Technology College Tech Prep program the junior year.

Engineering Specialization 1 credit Length of course: 1 term

Students will apply theories and principles of math and science to solve engineering problems. Software-driven applications will be used for design and development of projects. In addition, students will be instructed in employability skills to gain knowledge of the personal skills, attitudes and behaviors that drive the potential for growth. If applicable, students may transition to the Engineering College Tech Prep program the junior year.

College Tech Prep Health Specialization 1 credit Length of course: 1 term

This course gives the student meaningful and useful content in major health areas that include mental health, nutrition/fitness, drugs, disease, aging, death and dying. In addition, students will be instructed in employability skills to gain knowledge of the personal skills, attitudes and behaviors that drive the potential for growth. If applicable, students may transition to the Allied Health College Tech Prep program the junior year.

Information Technology Specialization 1 credit Length of course: 1 term

The information technology specialization is designed to offer students the opportunity to gain a thorough understanding of state of the art computer networks, software applications, operating systems and troubleshooting techniques. In addition, students will be instructed in employability skills to gain knowledge of the personal skills, attitudes and behaviors that drive the potential for growth. If applicable, students may transition to the Information Technology College Tech Prep program the junior year.

Manufacturing Specialization 1 credit Length of course: 1 term

Students will learn a variety of skills in product manufacturing and services that include machine operation, mechanical drafting, computerized numerical control operation and robotics. In addition, students will be instructed in employability skills to gain knowledge of the personal skills, attitudes and behaviors that drive the potential for growth. If applicable, students may transition to the Manufacturing Technologies Career Technical program the junior year.

Marketing Specialization 1 credit Length of course: 1 term

This introductory marketing course reviews the fundamental theory behind the role that marketing plays in everyone's lives. Students will engage in classroom activities in the design and promotion of consumer products and American buyer power. In addition, students will be instructed in employability skills to gain knowledge of the personal skills, attitudes and behaviors that drive the potential for growth. If applicable, students may transition to the Marketing College Tech Prep program the junior year.

Visual Design & Imaging 1 credit Length of course: 1 term

This course familiarizes students with key concepts in the tools and technology used to create digital art. Applications in Adobe Photoshop, Illustrator and digital photography will be utilized as well as class projects and assignments. In addition, students will be instructed in employability skills to gain knowledge of the personal skills, attitudes and behaviors that drive the potential for growth. If applicable, students may transition to the Visual Design & Imaging College Tech Prep program the junior year.

CAREER-BASED INTERVENTION

Career-Based Intervention 2 - 3 credits (Juniors & Seniors) Length of course: 1 year Approximate fee: \$30.00

The career-based intervention (CBI) program is designed for the academically disadvantaged student. The program incorporates a work-study component as well as employability skill sets. In addition, the program utilizes the A+ Learning System that allows students an opportunity to retrieve credits they may have lost. The A+ System is a research-based, direct instruction model offering a core curriculum in math, language arts, science and social studies.

Connections Program Credit is awarded based upon completion of assigned curriculum.

This course is designed for students who have experienced failure in academic courses. Students will use "A+" on-line software combined with rigorous curriculum components to retrieve credit. Priority is given to at-risk seniors and juniors, as determined by guidance and administration..

ENGLISH

Four (4) English credits are required for graduation. All freshman, sophomores, juniors, and seniors will take a term-long integrated English class during each of the four years. In addition to enrolling in the required term-long English course, students may select electives (see page 21). These courses are considered electives and will NOT fulfill English credit requirements for graduation.

NINTH GRADE ENGLISH

All freshmen will take the integrated English course: English 101/102

English 101/102 1 credit Length of course: 1 term Approximate fee: \$10.00 (OGT Book)

This is an academy course and as such students will have the opportunity to earn honors credit by demonstrating higher-order thinking skills and depth of understanding. Students earning honors credit will have Honors English 102 reflected on their transcripts and will receive an additional .5 weight added to their letter-grade equivalent, unless a student receives a grade of 'C-' or below.

A freshman literature anthology will be used, and students will learn a variety of literary genres; short story, drama, poetry, novel and nonfiction. Fundamental writing skills will be emphasized with students combining short simple sentences into more complex, effective sentences. Using the writing process, students will have a concentration on single and multi-paragraph development. The class will also stress acceptable patterns of usage, spelling, and vocabulary. An integrated approach involving reading, writing, listening/viewing, and oral communication will be used. In addition, extensive out-of-class assignments will be expected of students.

Read 180 1 credit Length of course: 1 term Approximate fee: \$15.00

Read 180 is an intensive, adaptive intervention program designed to meet the needs of students whose reading achievement is below the proficient level. Read 180 utilizes direct and explicit reading instruction, engaging and age-appropriate content, and data-driven technology to ensure that differentiated instruction and guided practice takes place. Read 180 delivers individualized, adjusted reading instruction to move students up to grade level, provides practice and the application of skills on multiple contexts to increase achievement, and supports and motivates students as they progress toward becoming lifelong readers and learners. **May be repeated.**

TENTH GRADE ENGLISH

All sophomores will take one of the following integrated English courses: English 201, or English 202. In order to assure proper placement, teacher recommendation is required.

English 200 1 credit Length of course: 1 term

Teacher Recommendation Required

This class will be taught for those students who are reading two or more years below grade level. While concentration will be primarily on reading skills, students will cover composition and literature. Placement into this course will be based on assessment and teacher recommendation.

English 201 1 credit Length of course: 1 term

Prerequisite: English 101/102

English 201 continues and extends the integrated study of reading, writing, listening, and speaking. The literature portion will involve reading and analyzing short stories, nonfiction works, poetry, plays, and novels. The students will support their interpretations of this literature by using techniques such as reasoning, author's tone and purpose, inferences, and literary devices. Emphasis will be placed on paragraph development with special instruction of the multi-paragraph composition. Frequent composition assignments, using development of major and minor supports, will give the students practice in utilizing what they have learned. Students will continue to work on the skills of acceptable usage, punctuation, spelling, and vocabulary. Students will also prepare for the OGT by completing a reading and writing test prep book.

Honors English 202 1 credit Length of course: 1 term Approximate Fee: \$9.00 (vocabulary book)

Prerequisite: English 101/102 Teacher Recommendation Required

***Weighted course**

Honors English 202 continues and extends the integrated study of reading, writing, listening, and speaking. The course will involve more in-depth study of novels, short stories, drama, essays, and poetry. This course will also provide background in the characters, places, and events from mythology, legend, and Biblical literature, which are often encountered in the works of major English and American writers. Students will support their interpretations of literature by using such techniques as reasoning, author's tone and purpose, inferences, and literary devices. More difficult supplemental material will be used, and students will be required to complete a final project, which supplements the material and demonstrates a creative use of information from the sources. Extensive writing assignments will be given and a more challenging vocabulary text will be used.

Students are required to complete summer reading.

ELEVENTH GRADE ENGLISH

All juniors will take one of the following integrated English courses: English 300, English 301, or English 302. In order to assure proper placement, teacher recommendation is required.

English 300 1 credit Length of course: 1 term

Teacher Recommendation Required

This class will be taught for those students who are reading two or more years below grade level. While concentration will be primarily on reading skills, students will cover composition and literature. Placement into this course will be based on assessment and teacher recommendation.

English 301 1 credit Length of course: 1 term

Prerequisite: English 201/202 Teacher Recommendation Required

This course focuses on major American essayists, poets, novelists, playwrights, and short story writers with regard to the historical influence upon each writer. Students will read novels in addition to the shorter selections. The class offers an integrated language arts approach with an emphasis on fundamental writing skills and essay development. Besides a literary research paper resume, and college application essay. Students will work on the five paragraph persuasive essay and creative writing. Oral communication skills will help students develop an awareness of what happens in the communication process; therefore, speeches will be required.

AP English 302 1 credit Length of course: 1 term Approximate fee: \$9.00 (Vocabulary Book) \$22.00 (MLA Handbook)

Teacher Recommendation Required

Prerequisite: English 201/202

***Weighted Course**

This course is a blend of the following: literature study in a variety of genres, primarily in the area of American authors; studying analytical, persuasive, and expository tests; vocabulary enrichment; and the creation of both formal and informal analytical, persuasive, expository, and creative writings. The students will also use more difficult supplemental materials including a more challenging vocabulary text. Primary goals for this course are individual student growth in all of the above areas, successful passage on the AP English Language and Composition Exam for those students choosing to take it, and preparation for the AP English Literature course their senior year. Students are required to complete summer reading. All seniors must take four years of English and will be enrolled in one of the following integrated courses: English 401 or AP English 402. In order to assure proper placement, teacher recommendation is required.

TWELFTH GRADE ENGLISH

All seniors must take four years of English and will be enrolled in one of the following integrated courses: English 400, English 401 or AP English 402. In order to assure proper placement, teacher recommendation is required.

English 400 1 credit Length of course: 1 term

Teacher Recommendation Required

This course will be taught for those students who are reading two or more years below grade level. While concentration will be primarily on reading skills, students will cover composition and literature. Placement into this course will be based on assessment and teacher recommendation.

English 401 1 credit Length of course: 1 term

Teacher Recommendation Required

Prerequisite: English 301/302

As integrated language arts program anchored in reading, writing, listening/viewing, and speaking. This course will cover selections from English and world literature, as well as contemporary literature. Besides writing in various essay styles, a research paper on a teacher-approved topic will be completed. Students who may go to college will benefit from this course.

AP English 402 1 credit Length of course: 1 term

Approximate fee: \$9.00 (Vocabulary Book) \$22.00 (MLA Handbook-for students new to the AP Program or for a replacement book)

Teacher Recommendation Required

Prerequisite: English 301/302

***Weighted Course**

The Honors Advanced Placement English course in Literature and Composition will engage students in the critical analysis of imaginative literature. Students will consider a work's structure, style, and themes as well as the use of figurative language, imagery, symbolism, and tone. Writing will be an integral part of Honors AP English with focus on the critical analysis of literature and will include expository, analytical and argumentative essays as well as a research paper. This course will prepare the student to take an Advanced Placement Examination for the College Board. With an appropriate score on the Honors AP Exam, the student may receive credit at the college of his/her choice. **Extensive out-of-class as well as summer reading assignments prior to taking senior AP English will be required**

ENGLISH ELECTIVES

All elective credits can be used for graduation requirements but not for the four credits of English required.

Creative Writing 1/2 credit Length of course: 1/2 term

This course is designed for the student who wants to improve his/her own writing. Students will read and analyze short stories, plays, poems, and nonfiction pieces from the writer's perspective as well as focus on their own writing. The writing process will be taught from the perspective of focusing on the written work and developing style. Students will write short stories, poems, plays and personal memoirs. Grading will be based on portfolios, journal writing, major writing projects and tests on literature study. All students will be required to workshop their writing with their peers.

Advanced Creative Writing I 1/2 credit Length of course: 1/2 term

Prerequisite: Grade of "C" or higher in Creative Writing; student in grade 11-12

This course is designed for the serious writing student. Students will read and analyze writings from a variety of genres, focusing on the writer's perspective and style. Further development of student writing will be explored in fiction, poetry, dramatic arts, and memoir with an emphasis given on student work-shopping. A class requirement will be to complete one in-depth writing project in the genre of the student's career: short story collection, novella, poetry, one-act play. In addition to the independent project, other grading will be based on journal responses, knowledge of literature concepts and independent reading. Students will also be required to attend one reading of their choice outside of the class, submit writing of their choice for publication consideration, and participate in public sharing of their writing.

Advanced Creative Writing II 1/2 credit Length of course: 1/2 term

Prerequisite: Grade of "C" or higher in Creative Writing; Grade of "C" or higher in Advanced Creative Writing I

This course is designed for the serious writing student. Students will continue to read and analyze writings from a variety of genres, focusing on the writer's perspective and style. Further development of student writing will be explored in the genres covered in Creative Writing and Advanced Creative Writing I, as well as an introduction to writing Children and Adolescent Literature. A class requirement will be to complete an in-depth writing project in the genre of the student's choice: short or long fiction, poetry, drama, memoir, or screenplay. In addition, other grading will be based on journal responses, knowledge of literary concepts, work shopping of original writing, independent reading, and submitting writing of their choice for publication consideration.

Mythology and Science Fiction 1/2 credit Length of course: 1/2 term

The literature of this course will investigate man's perceptions into his past along with understanding man's role in the present and future. This survey course introduces students to popular writers in the science fiction field from Verne to Bradbury and to the ancient Roman and Greek gods and goddesses that still influence our literature, art, music and language today. Requirements include reading short stories, novels and plays, completing a science fiction/mythology project, and participate in in-class activities.

Speech and Communications 1/2 credit Length of course: 1/2 term

This course covers the essential types of communication: Intra personal, one-on-one, group, public, and mass. The student will learn personal skills in interviewing, working in groups, and giving public speeches and presentations. Areas covered include demonstrative informational, and persuasive projects as well as Lincoln-Douglas and group policy debate. Progress is expected of the student as they progress through each level of communication.

Introduction to Theater 1/2 credit Length of course: 1/2 term Approximate fee: \$5.00

This course is designed to introduce students to the theater and drama. It will provide experiences in basic acting and performance skills, various technical skills, and the general history of the theater. Participation is a must. Students will prepare and perform productions and scripts on the individual, small group and large group basis.

Advanced Theater I 1 credit Length of course: 1 term

Prerequisite: Department Recommendation and Introduction to Theater

This course is designed for the serious theater student. The student will complete an in-depth study of acting skills and production techniques to develop an overall knowledge of the theater and how it works. Students will be required to participate in a full-scale production which will involve elements such as acting, scenic design, costuming, make-up, property lighting, sound and publicity. Other skills such as directing, stage managing, and script writing will be explored and developed.

Advanced Theater II 1 credit Length of course: 1 term

Prerequisite: Introduction to Theater, Advanced Theater, Advanced Theater I, Department Recommendation

For the student who is interested in continuing his/her study in Theater Arts, this course will expect the student to draw upon knowledge from previous courses, in order to direct, produce, and construct plays.

Basic News Reporting 1/2 credit Length of course: 1/2 term

Basic fundamentals of how to gather and report news events for the mass media in such a way as to be meaningful to the public. Stress is on the need for developing writing skills, learning technical terms, and writing news, feature and sports stories in a newspaper or broadcast environment. Additional topics include basic interviewing skills, headline writing and caption writing. Students interested in this basic communication class are expected to have appropriate grade level grammar skills, the ability to type and access to a computer and printer at home. The English Department major paper policy does apply.

FAMILY & CONSUMER SCIENCES

NOTE: Students are encouraged to take both Manage Transition and Career Building Skills before taking other Family Consumer Sciences Electives.

Manage Transitions 1/2 credit Length of course: 1/2 term Approximate fee: \$5.00

Students assume increasing responsibility for their own growth and development. By developing a personal code, students analyze their strengths and set goals to maximize their potential. These goals will help make them caring, healthy, confident, and responsible people. They set school, family, and life goals, develop and implement a plan to achieve those goals, as well as reflect on the process and product. They exercise personal leadership in creating a self-identity making ethical choices; understanding their values, morals and personal beliefs. They develop strategies for controlling impulses; showing confidence in ability to interpret, respond to, and influence change while reflecting on diversity within their community. They develop strategies for lifelong learning with a multicultural awareness that sustains a productive, meaningful lifestyle while taking reasoned risks. They assess the impact of their behavior and relationships with friends, family, school, and community, - Managing stress and conflicts are also covered.

Career Building Skills 1/2 credit Length of course: 1/2 term Approximate fee: \$20.00 (skill building projects)

Students will integrate management principles that will lead to more productive and meaningful lives. Goal setting, planning and time management skills will be applied in reference to the family and workplace by participating in a major class project. Students will assume roles such as project managers, design crew, and team members as they create a geometrically designed product. Students will develop an understanding of the causes and implication of all types of stress and will build their capacity to address stress, cope with change, follow directions, and work productively with others. Students will also develop strategies to help them become caring, healthy and responsible people and also develop core employability skills. This course includes food labs and a sewing project.

Healthy and Safe Foods 1/2 credit Length of course: 1/2 term Approximate fee: \$20.00

Prerequisite: Manage Transition and Career Building Skills

This course is geared toward sophomore and junior level students. The students will gain knowledge and skills in acquiring and practicing a healthy lifestyle using dietary guidelines that will reduce the risks of disease and unsafe habits. They will gain the ability to differentiate methods of weight loss and learn reliable resources regarding food and beverage selection. The students will analyze restaurants and their menus related to a healthy lifestyle.

Healthy Living 1/2 credit Length of course: 1/2 term Approximate fee: \$20.00

Prerequisites: Healthy & Safe Food

This is a junior/senior advanced level course. Students will understand the cultural, family, community and economic implication of obesity, healthy weight and lifestyle. The students will be able to demonstrate safe food-handling practices related to food-borne pathogens and kitchen environments by cooking in the foods lab. The students will use problem solving to insure overall body health and evaluate factors that are associated with body weight, as well as the role of exercise in managing weight. We walk the track each week for the exercise/managing weight portion of this class.

Child Development 1/2 credit Length of course: 1/2 term Approximate fee: \$5.00

This is a junior/senior level course. This course will provide students with knowledge of how parents and child care providers meet the needs of infants and young children to provide for healthy growth and development. Prominent theories of child psychology will be studied. The student will associate attributes and skills needed to assume the parenting role with healthy adult characteristics. They will also learn to evaluate skills for building healthy families where children thrive.

Financial Literacy 1/2 credit Length of course: 1/2 term Approximate fee: \$5.00

This is a junior/senior level course. Many young people fail in the management of their first consumer credit experience, establish bad financial management habits, and stumble through their lives learning by trail and error. This course will help junior and senior students manage personal financial affairs and gain insight into the basic survival principles involved with insurance, spending, saving and investing. Using a real world simulation experience, the course will focus on the following standards:

- > **Income:** Analyzing how career choice, education, skills, and economic conditions affect income.
- > **Money Management/Budgeting:** Design a plan for earning, spending, saving, and investing while understanding how limited personal financial resources affect the choices people make.
- > **Spending and Credit:** Analyze the benefits and costs of consumer credit.
- > **Saving and Investing:** Understand the value of saving and reasons for investing.
- > **Consumer Protection:** Learn strategies for avoiding financial fraud.

GRADS 1 credit Length of course: All year

This course is an in-school instructional program for pregnant and parenting students, male and female. The curriculum promotes personal growth, educational competence and economic self-sufficiency as socially responsible numbers of society. The objectives are for students to remain in school, have a healthy pregnancy and baby, learn practical parenting and child development skills, gain orientation to work, set goals toward balancing work and family, and delay subsequent pregnancies.

FOREIGN LANGUAGE

French I 1 credit Length of course: 1 term Approximate fee: \$15.00

The beginning French class is devoted initially to the study of grammar, vocabulary and pronunciation. The textbook includes reading to reinforce the basic subject matter. Writing assignments are also required.

French II 1 credit Length of course: 1 term Approximate fee: \$15.00

Prerequisite: French I w/C+ average & recommendation from French Teacher

In French II, grammar, vocabulary, and pronunciation are still emphasized while the students read and speak French on a more advanced level. The time devoted to writing assignments is increased and the study of French culture, civilization, and history continues.

Honors French III 1 credit Length of course: 1 term Approximate fee: \$15.00

Prerequisite: French II w/C+ or higher average and teacher recommendation

*Weighted Course

In French III, students are introduced to French literature through their own textbooks and additional reading texts. Some of the more detailed aspects of grammar are studied. The students write compositions at a more advanced level. As the students have acquitted the basics of grammar and vocabulary, more time is spent on guided conversation and everyday conversational French.

Honors French IV 1 credit Length of course: 1 term Approximate fee: \$15.00

Prerequisite: French 101, 201 and 301

Honors French IV is an in-depth study of communication skills, listening comprehension, grammar structures, and reading comprehension in French. Students will be expected to read a French novel as part of the curriculum as well.

Spanish I 1 credit Length of course: 1 term Approximate fee: \$15.00

Spanish I is a highly structured program with a balance of all skills presented in a logical and organized manner. The inductive approach is used, combined with a realistic, simple-to-complex presentation of new concepts. The culture of the Spanish-speaking world is reflected in the illustrations, photographs, and dialogues of each lesson. Students may write and perform their skits.

Spanish II 1 credit Length of course: 1 term Approximate fee: \$15.00

Prerequisite: Spanish I w/C+ or higher average and recommendation from Spanish Teacher

In Spanish II, the plan of level Spanish continues. Grammatical items are presented in meaningful context so that grammar is not an end in itself, but a vehicle through which students can develop more fluency in the Spanish language. Students also write and perform their oral presentations. Culture is studied in the target language. Students write two compositions in Spanish.

Honors Spanish III 1 credit Length of course: 1 term Approximate fee: \$15.00

Prerequisite: Spanish II w/C+ average or higher, and teacher recommendation

***Weighted Course**

Honors Spanish III is basically an individual reading and writing course with some review of grammar through structured drills. The readings are on familiar themes of love, death, liberty, adventure, conflict, and customs of daily living. Spanish is taught as a means of communication in today's society.

Honors Spanish IV 1 credit Length of course: 1 term Approximate fee: \$15.00

Prerequisite: Spanish III w/C+ average or higher and teacher recommendation

***Weighted Course**

Honors Spanish IV is basically an individual reading and writing course with some review of grammar through structured drills. The readings are on familiar themes of love, death, liberty, and adventure, conflict, and customs of daily living. Spanish is taught as a means of communication in today's society.

German I 1 credit Length of course: 1 term Approximate fee: \$15.00

The beginning German course is devoted to a study of grammar, vocabulary, and pronunciation. The class involves reading to reinforce the basic subject matter and writing to develop those skills in the target language. The culture of German and its influence in the world is covered, along with an overview of its history and geography.

German II 1 credit Length of course: 1 term Approximate fee: \$15.00

Prerequisite: German I

In German 201, grammar, pronunciation, and vocabulary continue to be emphasized, but students read and speak German on a more advanced level. Increased time is spent on writing assignments, the study of German history and culture, as well as colloquial everyday usage.

Honors German III 1 credit Length of course: 1 term Approximate fee: \$15.00

Prerequisite: German II w/C+ average and recommendation from the German Teacher

***Weighted Course**

Honors German III continues a student's discovery of German grammar, vocabulary, and pronunciation, but at a more advanced level. German literature (short stories, poetry, plays) enter into the curriculum, and discussion of Culture and history are conducted in the target language. Students write over what is read and discussed, and every effort is made to communicate as much as possible in everyday German.

Honors German IV 1 credit Length of course: 1 term Approximate fee: \$15.00

Prerequisite: German III/C+ average and recommendation from the German teacher

***Weighted Course**

Honors German IV is a rigorous college-level course which exposes a student to all levels of mastering fluency in German-listening, speaking, writing and, reading. It continues the exploration begun at lower levels of the subject into literature, history, and culture. Students read a novel in addition to other genres of literature. The majority of the class is taught in German, with students actively involved in bettering their daily mastery of the language.

Exploring Modern Languages 1 credit Length of course: 1 term

Exploring Modern Languages is a course designed to explore cultures, basic communication skills, and geography in the languages of French, Spanish, and German. Six weeks will be devoted to each language respectively. The materials used in class will be enhanced with field trips, guest speakers, and supplemental activities.

FOUNDATIONS COURSES

All freshmen are required to enroll in two, nine week career-field foundation courses. The courses provide information on career field-exploration within a professional field combining research, academic study and higher education. Foundation courses may lead to specialized instruction in grades 10, 11, 12 and into college. Students need to select two foundation courses to be taken during the 9th grade year. Please refer to the following course descriptions for scheduling:

Accounting & Finance Foundation

1/2 credit

Length of course: 1/2 term

If you're a big baseball fan, you know that keeping track of how well your favorite team plays and predicting how it will do in the future is part of the fun. Every business-including baseball teams-to gather information, evaluate performance, and understand the financial factors that predict success. This exciting course introduces students to the world of finance, business and corporate America.

Business Management Foundation

1/2 credit

Length of course: 1/2 term

Are you ready to lead? Would you like to be a manager within an organization or run into your own business? Research shows that the way a manager behaves has a powerful effect on motivation, business success and \$\$\$--profit. This course will introduce students into the world of managing. Students will learn about leadership, planning, organizational skills, and much more. Effective management is the foundation of a successful business.

College Tech Prep Allied Health Foundation

1/2 credit

Length of course: 1/2 term

Combining medical technology and the human touch, the health care industry administers care around the clock, responding to the needs of newborns to the critically ill. Students in this class will learn about the health career field and the hundreds of establishments that make up the industry. The health care industry includes small-town private practice physicians who employ only one medical assistant to busy inner-city hospitals that provide thousands of diverse jobs.

Construction Foundation

1/2 credit

Length of course: 1/2 term

Everything that is built today requires the skills of a carpenter; from a 30 story office building to a residential home, carpenters are there! But carpentry is just one of the many professions students will learn about in the construction career field. Construction involves many areas in the building trades: electrical systems, plumbing, masonry, laborers, building/repairing roads, drill, traffic control and heavy equipment operators. There are lots of things to learn about in the construction industry. What do you want to learn about?

Digital Arts and Communications Foundation

1/2 credit

Length of course: 1/2 term

In the 21st century, everyone is becoming a journalist through on-line communication and social networks. For students interested in the world of the modern media, this course comes alive with the opportunity of designing, writing, and producing a school newspaper. This class introduces the combination of careers in photography, graphic design, writing and marketing. What skills do you need to pursue a career today's changing media?

Engineering Foundation

1/2 credit

Length of course: 1/2 term

Have you ever looked at the design of a skyscraper, bridge or tunnel? What about a submarine, toy, or the Super Bowl? Engineers helped to design and test how structures, machines and products operate and determine the effectiveness, cost, reliability and safety of product design. Students in this class will learn about the engineering career field and use computers to design and test manufactured components and products.

Fine Art Foundation

1/2 credit

Length of course: 1/2 term

Do you like to communicate ideas, thoughts and feelings through painting, sculpting, or illustration? If so, this course is for you. This class introduces students into the world of visual imagery and color theory. Students will learn about basic design, illustration, painting, production and the art of career field.

Information Technology Foundation

1/2 credit

Length of course: 1/2 term

Information technology is all around us-from writing term papers to computer animation in a blockbuster movie to satellites that enable NASA to conduct remote space exploration. This course will give students an opportunity to learn about managing and processing computerized information in the IT career field. IT professionals design, develop, support and manage computer software, hardware and networks, as the internet.

Manufacturing Foundation

1/2 credit

Length of course: 1/2 term

Manufacturing has changed. Highly trained, well-paid people design and run precision equipment that is used to produce some of America's most respected products. This course will introduce students to the manufacturing of a product from beginning to end through the use of automated production lines, computerized quality control systems and highly sophisticated technology systems. Find out why our nation is a global leader in manufacturing.

Marketing Foundation

1/2 credit

Length of course: 1/2 term

How did McDonalds become one of the largest fast-food chains in America? Do Nike shoes really make athletes perform better? The marketing foundation class gives students a glimpse into the world of the mega-million dollar retail giants and the strategies they used to promote sales. Students will learn how retailers set up and display products, advertise and promote merchandise, compete with other businesses and learn about master minds behind the products people buy.

Transportation Foundation

1/2 credit

Length of course: 1/2 term

The transportation career field involves the planning, design and operation of highways, transit systems, airports, railroads, the auto industry, ports and harbors, for the movement of goods. This foundation class will introduce students to the transportation career field: Moving everyone and everything-everywhere!

HEALTH AND PHYSICAL EDUCATION

Health

1/2 credit

Length of course: 1/2 term

Health is a course, which examines a person's mental, social and physical well being. This class is structured to include the study of contemporary social health issues, and the effects of drugs, alcohol, tobacco, etc., on the human body.

Advanced Issues in Health 1/2 credit Length of course: 1/2 term Approximate fee: \$15.00

Prerequisite: Health

Health encompasses both the mental and physical aspects of the human body. This course is designed to explore current social health issues which are present in our society today. Topics that affect not just the individual but society as a whole will be explored. Topics to be covered but are not limited will be HIV, AIDS, STDS, organ transplantations, abortions, medical research, living wills, durable power of attorneys, euthanasia, DNA testing.

The Physical Education curriculum is designed to introduce the student to a wide variety of lifetime activities. All Physical Education classes and activities will review and further develop skills already learned. Emphasis will be put on individual and team competition. To satisfy Physical Education requirements, a student needs to take both Indoor and Outdoor Fitness and Recreation courses.

Outdoor Physical Education (101) 1/2 credit Length of course: 1/2 term

Graduation Requirement

This course will be taught during the 1st and 4th terms, dealing mainly with outdoor activities. Activities include, but are not limited to Flag Football, Soccer, Softball, Running, Golf, Tennis, Fitness Based Activities, Recreational Activities, and Strength Training.

Indoor Physical Education (201) 1/2 credit Length of course: 1/2 term

Graduation Requirement

This course will be taught during the 2nd and 3rd half terms, dealing mainly with indoor activities. Activities include, but are not limited to Wrestling, Gymnastics, Volleyball, Recreational Games, Aerobics, Strength Training, Fitness Based Activities, Basketball, and Floor Hockey.

Advanced Physical Education 1/2 credit Length of course: 1/2 term

This class does not satisfy Physical Education requirements for graduation.

Prerequisite: Indoor and Outdoor Fitness and Recreation and instructors written permission. May include field trips with a fee.

This course offers an opportunity for students to increase muscular tone and strength and agility oriented activities. Activities include intensified weight training and aerobic activities designed to improve the student's overall body strength, coordination, flexibility and agility. Other activities include, but are not limited to any activity taught during Indoor and Outdoor Fitness and Recreation Courses.

INDUSTRIAL TECHNOLOGY

The goal of Technology Education at Stebbins High School is to introduce students to the basic principles of Industrial Technology and integrate their practical applications. These introductions are intended as a gateway for students to see how many of the processes and systems of technology affect their lives directly and indirectly. For many students, this will serve as a "springboard" for deeper investigation and possible career choices in the ever growing fields of technology. The Stebbins High School Technology Department has an established and approved dress and appearance code. The purpose of the code is for the student's safety. Safety is first in our laboratories! The areas of Graphics and Drafting will observe present school dress codes. The following dress code will be adhered to in the Construction and Manufacturing Areas.

1. Hair must be secured out of eyes.
2. Safety glasses will be worn in these areas at all times.
3. Long pants in manufacturing area (welding-grinding.)

The students will be building individual/group projects of various costs. These costs depend upon project selection and materials used. Each student will be held responsible for the materials used by keeping a stock records sheet. Upon completion of the projects, payment should be made to the cashier's office.

Industrial Technology 1/2 credit Length of course: 1/2 term Approximate fee: \$20.00

This course serves as an introduction to the following areas of technology: Engineering design, Manufacturing, Energy/Power, Aerospace, Drafting and Research/Development. Students work in teams to complete the following projects that follow each lesson: CO2 racecar, Balsa bridge, rubber band plane, mousetrap car or model rocket.

Industrial Technology II 1/2 credit Length of course: 1/2 term Approximate fee: \$20.00

Prerequisite: Any Industrial Tech Course

Tech II is an exploratory course geared towards 10th grade students who are interested in trade and industrial careers. Students will work on team projects covering common processing methods of wood, metal and polymers. Projects will require research, development of ideas, problem solving, testing and modifications. Students will experiment with hot-air balloons, bridge building and model trebuchets, Hovercrafts and Steam Engines.

Introduction to Drafting 1/2 credit Length of course: 1/2 term Approximate fee: \$20.00

This course is designed for the student who has no previous knowledge of drafting. The student's objective will be to learn the fundamental operations of CAD and how to create mechanical drawings using the software. Students will also investigate manufacturing principles through two woodworking projects. The student will gain an appreciation and an understanding of techniques used in the industry. Problems using the architect and engineer's scale, single view, pictorial, dimensioning, CAD and architectural design will be studied. A portfolio of drawings will be completed. **Highly recommended for students interested in Engineering.**

Metals I 1/2 credit Length of course: 1/2 term Approximate fee: \$20.00

This basic course is designed to introduce students to the fundamental concepts of design and safety in the metal shop. It is also intended to familiarize the students with the skills involved with hand tools, and with metal working power tools and machines. The student will have the opportunity to become adept in the use of these tools, and machines through the designing and building of their own metal/wood project. The course also provides information related to the general requirements and opportunities for employment in the metal working industry.

Metals II 1/2 credit Length of course: 1/2 term Approximate fee: \$20.00

This advanced course is designed to further the student's experience and knowledge concepts of design and safety in the metal shop. It is also intended to develop further insights into the fabrication and assembly of combination wood/metal projects. The student will once again have the opportunity to become adept in the use of these tools and machines through the designing and building of a more advance project. Metals I and Industrial Technology are prerequisite requirements for taking this course.

Woods I 1/2 credit Length of course: 1/2 term Approximate fee: \$20.00

This basic course is designed to introduce students to the fundamental concepts of design and safety in the wood shop. It is also intended to familiarize the students with the skills involved with hand tools, and with wood working power tools and machines through the designing and building of their own wood project. The students have the opportunity to discover possible aptitudes and abilities and interests in this field. The course also provides information related to the general requirements and opportunities for employment in the woodworking industry.

Wood II 1/2 credit Length of course: 1/2 term Approximate fee: \$20.00

Woods I and Industrial Technology are prerequisite requirements for taking this course.

This advanced course is designed to further the student's experience and knowledge concepts of design and safety in the wood shop. It is also intended to develop further insights into the identification of woods and many methods of finish preparation of wood projects. The student will once again have the opportunity to become adept in the use of these tools and machines through the designing and building of a more advanced wood project. The students should have the opportunity to discover possible aptitudes and abilities and interests in this field.

MATHEMATICS

Academy College Prep Algebra I/Honors Academy College Prep Algebra I 1 credit Length of course: 1 term

***Honors level is weighted**

This is the entry-level course for incoming freshmen. Topics include solving equations, graphing, data analysis and number theory, and other algebraic concepts. All standards covered by the Ohio Graduation Test are integrated into the course.

Algebra 1R 1 credit Length of course: 1 term

The student will apply concepts of algebra to solve problems. This course is a less intense version of the Academy Algebra I course. It covers most of the topics of Academy Algebra I but less rigorously, at a slower pace, and for those students who were not successful in Academy I.

Personal Finance 1/2 credit Length of course: 1/2 term

Prerequisite: Successful completion of one credit in Algebra I

Personal Finance presents the mathematics necessary to live successfully in the current economy. Practical problems will be used to practice the necessary mathematics. Some of the OGT standards will be involved. Living cost such as apartments, houses, cars, budgeting will be calculated. Though Personal Finance is an elective, it does count as math credit.

Geometry 1 credit Length of course: 1 term

Prerequisite: Successful completion of one credit of Algebra I

This course will cover the basic concepts of geometry with an emphasis on practical applications rather than formal proofs. A combined approach of traditional and modern geometry is used, with reinforcement of algebraic skills as well. This course covers most topics covered in Geometry CP, but in less depth, and not for college prep students; appropriate for students who struggle learning mathematics.

Geometry College Prep/Honors Geometry 1 credit Length of course: 1 term

Prerequisite: Successful completion of one credit of Algebra I

Scientific calculator required.

***Weighted Course**

This course covers Euclidean geometry through applications and with the use of technology. Also covered are the standards and indicators required for OGT success.

Algebra IIA 1 credit Length of course: 1 term

Course will include solving basic and complex mathematical problems by applying the concepts learned in Algebra I. The course covers topics of the first half term of Algebra 2 and therefore is not as complete a preparation for Pre-calculus.

Algebra IIB 1 credit Length of course: 1 term

Prerequisite: Successful completion of full credits of Algebra 2A or first half term of Algebra 2 CP

Course will include solving basic and complex mathematical problems by applying the concepts learned in Algebra IIA. The course covers topics of the last half term of Algebra II CP but in less depth, and therefore is not as complete a preparation for Pre-calculus.

Algebra II College Prep/Honors Algebra II College Prep 1 credit Length of course: 1 term

Prerequisite: Successful completion of full credits in Algebra I and Geometry

***Honors Algebra II College Prep - Weighted Course**

This course continues development of topics presented in the previous algebra course with increased emphasis on precise definitions and concepts. Additional topics include logarithms, conics, and trigonometry.

Algebra II-CTE 1 credit Length of course: 1 term

Prerequisite: Successful completion of 1 credit of Algebra I

This course mirrors Algebra II, but with an emphasis on Career Tech applications. CTE students take a Sinclair proficiency test for free. Others cost will be \$40.00.

Pre-Calculus Honors 1 credit Length of course: 1 term

Prerequisite: Successful completion of Algebra II CP, Honors Algebra II CP or Algebra 2CTE.

Graphing calculator required

***Weighted Course**

This course covers topics of functions, number theory, trigonometry, and analytic geometry.

Transition to College Math 1 credit Length of course: 1 term

Prerequisite: Algebra II

This course is offered as an alternative for college-bound seniors who have limited experience or success in college preparatory mathematics. It is designed for students who want a fourth (4th) credit in mathematics but either were not recommended for Pre-Calculus or do not feel confident taking Pre-Calculus. Emphasis is placed on applications. A scientific calculator (TI-30 or equivalent) is required for this course.

AP Calculus (Calculus AB) 1 credit Length of course: 1 term

Prerequisite: Successful completion of Pre-calculus Honors and teacher recommendation.

Graphing calculator required

***Weighted Course**

AP Calculus is a rigorous college level math course that prepares the student to take the Advanced Placement Examination from the College Board in May of the school year. Students will study topics in differentiation and integration similar to the first two quarters of college calculus.

AP Calculus (Calculus BC) 1 credit Length of course: 1 term

Prerequisite: Successful completion of Pre-calculus Honors and teacher recommendation

***Weighted Course**

Content is similar to first three quarters of college calculus.

Statistics 1/2 credit Length of course: 1/2 term

Prerequisite: A full credit in Algebra I

This introduction to statistics will include data collection, measures of central tendency, deviation, and correlation.

AP Statistics 1 credit Length of course: 1 term

Prerequisite: Successful completion of a credit in Algebra II CP, Honors Algebra 2 CP, or Algebra 2 CTE

Graphing calculator required

***Weighted Course**

This course is a rigorous study of the use of statistics. Students will prepare for the AP test in statistics.

Trigonometry 1 credit Length of course: 1 term

This course is for students who have completed Algebra II and need knowledge of trigonometry for post-high school plans. An intensive exploration into the following topics will be conducted; angles, arcs, sectors, polar coordinates, trigonometric ratios, trigonometric identities, trigonometric equations, triangle solutions using the Law of Sines and the Law of Cosines, areas of plane figures, inverse trigonometric functions, trigonometric formulas and trigonometric graphs.

Math Skills/Lab 1/2 credit for 9 weeks 1 credit for 18 weeks Length of course: 1/2 term/1 term

Elective credit not math credit

New freshmen, recommended by 8th grade math teachers, can prepare to enter Algebra I in January.

ACT/SAT Test Prep 1/2 credit Length of course: 1/2 term

Prerequisite: Junior or Senior standing

This course prepares the student to be successful in standardized tests such as the Act or SAT or college entrance exams. Though mathematics is the main focus, time will also be spent preparing for the reading, language arts, socials studies, science, and logic parts of any test. No calculator required.

MUSIC

Concert/Marching Band 2 credits Length of course: 2 terms Approximate fee: \$35.00

Prerequisite: Department recommendation and chair placement audition

Concert band is a course designed to further develop the student's musical proficiency. A chair placement audition is required. Membership is open to all students who can play an instrument that fits the bands needs, and have the ability to read music. Membership privileges are also open to director discretion. Course requirements include, but are not limited to: summer rehearsals including band camp (\$185 fee), (the music department will help coordinate schedules between extra-curricular activities in order to participate in both) all varsity football games, up to six OMEA marching band contest performances, pep band, OMEA district XII contest, and all scheduled after school rehearsals and performances. Students must enroll in this class for the entire year.

Honors Symphonic/Marching Band 2 credits Length of course: 2 terms Approximate fee: \$35.00

Prerequisite: Department recommendation and chair replacement audition.

***Weighted Course - Honors Symphonic Band Only**

Symphonic band is an advanced level music course composed of students who demonstrate a superior degree of performance ability, interest, and knowledge of music. Student expectations are based on the highest level of state music standards. Membership is limited by consideration of balanced instrumentation. Chair placement auditions are required. Course requirements include, but are not limited to: summer rehearsals including band camp (\$185 band camp fee), (the music department will help coordinate schedules between extra-curricular activities in order to

participate in both) all varsity football games, up to six OMEA marching band contest performances, pep band, OMEA district XII contest, OMEA State Adjudicated event pending qualification, Graduation, and all scheduled after school rehearsals and performances. Students must enroll in this class for the entire year.

Concert Choir 2 credit Length of course: 2 terms Approximate fee: \$20.00

Prerequisite: Prior singing experience and audition

This vocal music course is open to any Stebbins High School student and will provide him or her with the opportunity to develop his or her singing talents on an individual and group basis. Students will study a variety of choral literature including Classical, Sacred, Folk, Broadway and Pop styles. In addition, students will learn basic singing technique within a choral setting. This class is a performance based class and will require several performances outside the regular day. Those performances will include but not restricted to Broadway night, winter concert, OMEA Large group, and pops concert. Students must enroll in this class for the entire year.

Honors Symphonic Choir 2 credits Length of course: 2 terms Approximate fee: \$25.00

Prerequisite: Vocal audition and teacher recommendations

Honors Credit (Weighted Course)

Symphonic choir is an advanced level music course composed of performance ability, interest, and knowledge of music. Student expectations are based on the highest level of state music standards. Membership is limited by consideration of balanced voicing. Placement auditions are required. Students will study a variety of advanced Sacred and Secular choral literature. In addition students will learn basic music theory and proper singing technique within a choral setting. This class is a performance based class and will require several performances outside of the regular day. Those performances will include but not restricted to Broadway night, winter concert, OMEA Solo and Ensemble, OMEA District Large Group, OMEA State Large Group pending qualification, pops concert, and graduation. Students must enroll in this class for the entire year.

Orchestra 2 credits Length of course: 2 terms Approximate fee: \$20.00

Prerequisite: Department recommendation

The orchestra is composed of all the string students with the addition of wind players as needed to form a symphonic orchestra. Course requirements may include, but are not limited to, participation in: winter concert, large group adjudicated events, solo and ensemble participation, spring concert, other performances with advance notice, commencement, and additional after school rehearsals.

Music Theory 1 credit Length of course: 1 term Approximate fee: \$20.00

Music Theory is a class offered for students interested in further developing their knowledge of music. Previous study of vocal or instrumental music is not required but is recommended. The course will concentrate on scales, chord structure, rhythm, meter, and musical form. A large portion of the course will be devoted to harmonic analysis and the understanding of the function of chords in music. Important aspects of music history will also be discussed.

Flag Corp Auxiliary 1/2 credit Length of course: 1/2 term Approximate fee: \$35.00

NOTE: After the first nine weeks students will need to choose an elective for the second half term.

Prerequisite: Audition and Department recommendation

Membership is open to all students regardless of grade level. Auditions for this group are held every spring for the following school year. This class is a part of marching band, and meets daily as a class with marching band in order to rehearse as a full group. Students will learn various music, dance, and flag routines associated with marching band performances and competition. Course requirements include, but are not limited to: summer rehearsals including band camp (\$185 fee), (the music department will help coordinate schedules between extra-curricular activities in order to participate in both) all varsity football games, up to six OMEA marching band contest performances, pep band, OMEA State Adjudicated event pending qualification, graduation, and all scheduled.

SCIENCE

Physical Science/Honors Physical Science 1 credit Length of course: 1 term Approximate fee: \$20.00

Prerequisite: Requires concurrent registration in Algebra I

***Weighted honors credit can be earned by completing the honors rubric for this course.**

The topics covered in this class include: Basic Science, which includes Science Skills, Chemistry, Physics and Earth and Space Science. The students develop skills and problem solving abilities through lecture, projects and labs. Math is also used to help the understanding of science. Students will have the opportunity to earn honors credit by demonstrating higher-order thinking skills and a greater depth of understanding. Those who earn honors credit will have Honors Physical Science reflected on their transcripts and will receive an additional .5 weight to their letter grade equivalent.

Earth Science 1 credit Length of course: 1 term

Prerequisite: Physical Science, junior level students and above

This course covers a variety of topics in earth science. Topics include: how interactions among Earth's lithosphere, hydrosphere, atmosphere and biosphere have resulted in ongoing changes of Earth's systems; the impact of oceanic and atmospheric currents on weather and climate; interpreting weather maps and investigate Earth's finite resources.

Space Science 1 credit Length of course: 1 term Approximate fee: \$10.00

Prerequisite: Physical Science, junior level students and above

This course deals with basic topics in Astronomy and Space Science. Areas of instruction include relationships of Earth among other planets; objects in the solar system, stellar evolution, composition of the universe and how technology can be used to gather evidence and increase our understanding of the universe.

Biology/Honors Biology 1 credit Length of course: 1 term Approximate fee: \$20.00

Prerequisite: Physical Science

***Weighted honors credit can be earned by completing the honors rubric for this course.**

Biology is the study of living organisms and includes interrelationships among organisms and their relationship to their environment. Laboratory investigations contribute to understanding both the structure and functions of single-celled and multi-celled organisms as well as principles and processes that relate to organisms. The approach used is both practical and theoretical. Social implications of man's role and responsibility as a unique organism in the biosphere and the need for conservation of all natural resources are consistent threads throughout the course. Students will have the opportunity to earn honors credit through extended learning opportunities within the course. The opportunities are independent study tasks that provide additional depth of content, advanced concepts, and a chance for more authentic applications of skills and knowledge. In order to receive honors credit, the student must successfully complete assignments outlined in the Honors Contract or per the Honors Rubric. Students earning honors credit will have Honors Biology reflected on their transcripts and will receive an additional 0.5 weight to their letter grade equivalent. **Recommended for college-bound students.**

Chemistry/Honors Chemistry 1 credit Length of course: 1 term Approximate fee: \$20.00

Prerequisite: Algebra or Integrated Math and Physical Science

***Weighted honors credit can be earned by completing the honors rubric for this course.**

Chemistry is a college preparatory course that takes a detailed look at matter, its composition, changes in matter, energy changes, etc. The study of chemistry is highly cumulative: the number and difficulty of calculations make the Algebra requirement a realistic one. Laboratory work and class demonstrations are an important part of the course.

Students will have the opportunity to earn honors credit through extended learning opportunities within the course. The opportunities are independent study tasks that provide additional depth of content, advanced concepts, and a chance for more authentic applications of skills and knowledge. In order to receive honors credit, the student must successfully complete assignments outlined in the Honors Rubric. Students earning honors credit will have Honors Chemistry reflected on their transcripts and will receive an additional 0.5 weight to their letter grade.

Recommended for college-bound students.

AP Biology 1 credit Length of course: 1 term Approximate fee: \$25.00

Prerequisite: Biology and credit or concurrent registration in Chemistry-Requires Biology teacher recommendation.

The advanced placement biology course is intended for college-bound students who have shown considerable achievement and interest in the biological sciences (botany, microbiology, zoology, pre-med, etc.). This course can lead to the opportunity to pursue and receive credit for college level work by successfully taking the advanced placement exam in biology in the spring. The AP biology course covers topics in molecular biology, genetics, evolution, anatomy, physiology, and ecology. Laboratory work is a fundamental part of this course.

Physics/Honors Physics 1 credit Length of course: 1 term Approximate fee: \$20.00

Prerequisite: Physical Science and Algebra II (or equivalent), and recommended for Juniors and Seniors unless otherwise approved by instructor.

***Weighted honors course can be earned by completing the honors rubric for this course.**

The basic interactions of matter and energy are studied. Topics covered include motion, forces, energy, heat, light and electricity, as well as how these are interrelated. Concepts discussed in class are experienced first-hand through laboratory activities. The course has considerable mathematical treatment of science concepts. Students will have the opportunity to earn honors credit through extended learning opportunities within the course. The opportunities are independent study tasks that provide additional depth of content, advanced concepts, and a chance for more authentic applications of skills and knowledge. Students earning honors credit will have Honors Physics reflected on their transcripts and will receive an additional 0.5 weight to their letter grade equivalent. **Recommended for college-bound students, especially those who will study science or engineering.**

AP Chemistry 1 credit Length of course: 1 term Approximate fee: \$20.00

Prerequisite: Chemistry with recommendation from teacher and recommended for Juniors and Seniors unless otherwise approved by instructor

Recommended for college-bound students who will study engineering, medicine, etc. This class is provided to those students who have shown considerable achievement and interest in Chemistry. This course takes a more detailed look at such major chemical concepts as reaction rates, thermodynamics, chemical equilibrium, acid-base theories, oxidation-reduction and organic chemistry. Major laboratory work is a fundamental part of this course.

AP Physics 1 credit Length of course: 1 term Approximate fee: \$20.00

Prerequisite: Physics with recommendation from teacher. Recommended for Juniors and Seniors unless otherwise approved by the instructor.

The advanced placement physics course is intended for students with an interest in engineering, science or the medical field (pre-med). This course can lead to the opportunity to pursue and receive credit for college level work by successfully taking the advanced placement exam in physics at the end of the course. The AP physics course covers topics in mechanics, electricity, magnetism, and is taught with an emphasis on using problem-solving skills.

Anatomy & Physiology 1 credit Length of course: 1 term Approximate fee: \$25.00

Prerequisite: Biology and Chemistry

Anatomy and Physiology is a subdivision of biology. It explores topics such as: biochemistry, cells, tissues, and an introduction to the structure and function of the human body.

Anatomy & Physiology/Allied Health 1 credit Length of course: 1 term Approximate fee: \$25.00

Applied Anatomy & Physiology is taken by students who are enrolled in the Allied Health Technologies Program. This course is to be taken during the student's twelfth grade year and they will learn specific skills and concepts related to the career area of study.

Physics/Engineering Technology 1 credit Length of course: 1 term Approximate fee: \$20.00

This is a course taken by students who are enrolled in the Engineering Technologies Program. This course is to be taken during the student's senior year. The student will learn specific science skills and concepts related to physics, specifically, those dealing with motion, energy, heat, light, sound waves and electricity.

Principles of Biomedical Sciences 1 credit Length of course: 1 term Approximate fee: \$25

(Honors credit)

Class: Sophomore

Prerequisite: Biology I

Students investigate the human body systems and determine what led to the death of a fictional person. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

Human Body Systems 1 credit Length of course: 1 term Approximate fee: \$25

(Honors credit)

Class: Junior or Senior

Prerequisite: Principles of Biomedical Sciences

Students design experiments, investigate the structures and functions of the human body, monitor body functions such as muscle movement, reflex action, and respiration. Students will build organs and tissues on a skeletal model, work through real world cases, and play the role of biomedical professionals to solve medical mysteries.

Medical Interventions (MI) 1 credit Length of course: 1 term

(Honors credit)

Class: Junior & Senior

Students investigate the prevention, diagnosis and treatment of disease as they follow the lives of a fictitious family. Students explore: how to prevent and fight infection; how to screen and evaluate the code in human DNA; how to prevent, diagnose and treat cancer.

Biomedical Innovation (BI) 1 credit Length of course: 1 term

(Honors credit)

Class: Junior or Senior

In this capstone course, students apply their knowledge and skills to design innovative solutions for the health challenges such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office, or industry.

Forensic Science 1 credit Length of course: 1 term Approximate fee: \$10.00

Prerequisite: Physical Science, Biology with a C or better average. Chemistry is recommended, but not required.

Junior/Senior level course

Recommended for college-bound students who are interested in the field of Forensics and are in need of a third science credit. This class is supplemented with labs, which are greatly student self-motivated and directed. Mainly this class will take a look at various fields of Forensics and the science behind those fields. The topics to be covered include: fingerprinting, serology and bloodstain pattern analysis, DNA profiling, impression evidence, pathology, anthropology, criminal profiling, etc. During the course of the class students will be required to research a Forensic career and then present a PowerPoint and write a paper on that career. The class will culminate in a comprehensive mock crime scene where the students will collect and analyze evidence to determine who committed the crime.

Zoology 1 credit Length of course: 1 term Approximate fee: \$20.00

Prerequisite: Successful completion of both Physical Science and Biology and recommended for Juniors/Seniors unless otherwise approved by instructor.

Recommended for those students with a strong interest in the animal kingdom. Topics to be covered include all phyla in the animal kingdom, their anatomies, behavior and evolution. Specific attention will be made to the anatomy/physiology of mammals and other animal phyla. Labs with dissection are a large part of this class. Students will also learn ways to identify various animals of North America. Honors credit through extended learning opportunities within the course. The opportunities are independent study tasks that provide additional depth of content, advanced concepts, and a chance for more authentic applications of skills and knowledge. In order to receive honors credit, the student must successfully complete assignments outlined in the Honors Contract. Students earning honors credit will have Honors Physics reflected on their transcripts and will receive an additional 0.5 weight to their letter grade equivalent.

Environmental Science 1 credit Length of course: 1 term Approximate fee: \$20.00

Prerequisite: Passing grade in Physical Science and Biology

Environmental science is the study of the relations and interactions of organisms and their environment.

This class is recommended for any student with an interest in the environment, Forestry, and wildlife. Topics include ecological interactions, biomes, natural resources, alternative resources, and human impact on ecosystems (pollution extinction, conservation).

SOCIAL STUDIES

Sociology

1/2 credit

Length of course: 1/2 term

How do we acquire the values and meanings that guide our behavior? This course examines the study of human groups with which we are involved: family, friends, and work associates. Featured will be an analysis of man's interactions with each other and causes and consequences of these interactions.

Anthropology

1/2 credit

Length of course: 1/2 term

Anthropology is the study of man's cultural development through the ages. The examination of non-western societies from a socio-cultural viewpoint is the focus of the course. The highlight of the class features an examination of the unique and different customs, habits, and beliefs of societies unlike our own.

Contemporary Issues

1/2 credit

Length of course: 1/2 term

May be taken twice during your high school career

This course involves discussion of current international and national problems and events in the world. News magazines and media are used instead of a textbook. Current events and their long-term importance, citizenship, human relations, social trends, relations, social trends, arts and music, famous people and life in the adult world are among the topics that are studied and discussed.

World Studies/Honors World Studies (Academy Course)

1 credit Length of course: 1 term

***Weighted honors credit can be earned by completing the honors rubric for this course.**

This course provides the foundation for skills and basic information needed for entry into the upper level social studies courses and for a general understanding of contemporary affairs in the world. There will be particular emphasis on the prevailing themes of history: the Enlightenment, Industrialization, Imperialism and conflict between cultures. These themes will be used to encourage students to think about and understand the world around them. Students planning to take Advanced Placement, Honors courses, and university level classes are encouraged to take Honors World Studies. Along with studying the major themes of history students will concentrate.

Social Psychology

1 credit

Length of course: 1 term (grade 11 & 12)

This course is a study of human behavior in all its aspects – biological, intellectual, emotional and social. Students will study how personality, heredity, environmental, and personal goals influence who we are as persons. Emphasis is placed on establishing positive and satisfying relationships that demonstrate mental and social health. Individuals planning to enter a profession or a specific career should find this course good preparation for understanding people and their behavior.

Ancient World History

1/2 credit

Length of course: 1/2 term

Ancient World History is the study of western man's development beginning with the Nile River and Fertile Crescent Civilizations, and continuing on with the Greeks, and Romans of Ancient Times. This class is reading, writing, and discussion centered and will prepare students for later more advanced courses.

Western Civilization

1/2 credit

Length of course: 1/2 term

Western Civilization is the study of the foundations of Western Culture. This course is a continuation of the ideas and skills developed in Ancient World History. This course begins with the fall of Rome and continues through Charlemagne, the Crusades, Medieval Church and culture. Renaissance, Reformation and the Age of Revolution., Western Civilizations also focuses on reading, research, and critical thinking and discussion skills necessary for success at the honors and university level.

U. S. History

1 credit

Length of course: 1 term

Prerequisite: World Studies

U.S. History is a one-term course divided into two half-term surveys. Both half-terms are required for graduation and will give the student a look at our nation's growth, development, and heritage. The first half-term begins with industrialization, which is the period following the Civil War and Reconstruction. The Industrial Era transitions into the Eras of Imperialism and World War I. With the United States and its allies being victorious in World War I the U.S. needs to make the transformation from a wartime economy to a peacetime economy. The Roaring 20's is the Era in which the U.S. economy will go from "Boom to Bust." The end of the first half-term will examine why this occurs and how the United States falls into a Great Depression and Franklin Roosevelt's New Deal Policies. The second half-term will pick up where the New Deal's headlines give way to aggression in the East Hemisphere and the rise of German and Japanese militarism. The U.S. will move from a neutral nation to a nation that will fight World War II on two fronts. Following the War the United States will find itself in a Cold War with communism. We will also discuss the Civil Rights movement, Vietnam and modern-day events and issues.

Honors U.S. History

1 credit

Length of course: 1 term

Prerequisite: World Studies

***Weighted course**

This class will cover the basic objectives of the required U.S. History course listed above, but the emphasis for Honors U.S. History is placed in developing the academic skills of our students as they prepare for the rigors and challenges of college. Students will strive to improve their reading comprehensive, researching, oratorical presentations and analytical skills as they complete essay tests, various oral and written projects, and a multitude of class assignments. Students will emerge from the class with the skills and knowledge base necessary to succeed at the university level.

Fundamentals of American Government 1/2 credit Length of course: 1/2 term

Prerequisite: American History

This course is designed to give all students a background in the three levels of our federal system. National government will focus on the three branches of our government as established in the Constitution. The study of state government will give attention to the respective branches, as well as state controls and effectiveness of state government. Local government, in addition to highlighting the fundamentals of county government and various forms of city government, will stress the growing trends in regional planning, and consolidation of community services.

Economics 1/2 credit Length of course: 1/2 term

This course provides the student with foundations in the areas of economics and participatory citizenship. Information on the basic principles needed by a consumer and citizen in a free market system and democratic society will serve as the center for this course. The roles of consumer, business, and labor, the concepts of supply and demand, and the practical components of the economic system will be studied. The origin, growth, development, change, and composition of the two major political parties will be explored. Methods of nomination, voters, campaign finance, conduct of elections, public opinion survey instruments as they pertain to economics and politics, and the role of propaganda techniques in consumerism and politics will also be examined.

AP Government and Politics 1 credit Length of course: 1 term

Advance Placement United States Government and Politics is designed for the qualified college-bound student. This course includes both the study of general concepts used to interpret U.S. Politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. Politics. The student will conduct a concentrated study of the U.S. Constitution including a strong awareness of the ideological and philosophical tradition of American Government. The discussion will include topics such as democratic theory, theories of republican government, pluralism, and elitism. Students will also understand ways in which political culture affects and informs political participation. A strong component of the course includes the study of the role of political parties, interest groups, and the mass media and the impact of these institutions on our political system. Finally, students will study the development of individual rights and liberties and their impact on citizens and U.S. Politics. Extensive reading and writing assignments beyond the classroom will be required. This course will prepare the qualified student to take an Advanced Placement Examination for the College Board. With an appropriate score on the AP Exam, the student may receive credit at the college of his/her choice.

Comparative Religion 1/2 credit Length of course: 1/2 term

Prerequisite: World Studies

This course will take students on an in-depth tour of major religions around the world. It will cover not only their history and origins but also how they function in today's society. Religions covered by the course will include various sects of Christianity, Islam, Judaism, Hinduism, Buddhism, and native religions. This class will also include many guest speakers from the community, and the Dayton area. This course is a college prep elective and is reading and writing intensive.

Local History 1/2 credit Length of course: 1/2 term

Prerequisite: World Studies, American History

This course will explore Dayton history from its earliest settlers through to the present day. The course will focus on industrialization, immigration, inventors, World War, Cold War and present day history. This course will use local area archives, photographs, maps and other primary sources to explore each topic. This course is a college prep elective and is reading and writing intensive.

Non-Western History 1/2 credit Length of course: 1/2 term

Prerequisite: World Studies

This course will investigate a non-western region of the world each nine weeks. Regions that will be covered in each nine week course are: Latin America, Asia, Middle East, Africa, and Russia. Each course will look at the region and how it has dealt with wider themes of history including imperialism, industrialization, World War, Cold War, and present day events. This course will use primary sources including artwork, photographs, film and other media to cover its topic. This course is a college prep elective and is reading and writing intensive.

Women's History 1/2 credit Length of course: 1/2 term

Prerequisite: World Studies

This course will look at an often forgotten part of history, that of women. The course will look at women's contribution to history through Ancient, Pre-Modern, American and Non western times. This course will use primary sources including writings, poetry, artwork, music, and film to convey each topic. This course is a college prep elective and is reading and writing intensive, skills in acquiring and practicing a healthy lifestyle using dietary guidelines that will reduce the risks of disease and unsafe habits. They will gain the ability to differentiate methods of weight loss and learn reliable resources regarding food and beverage selection. The students will analyze restaurants and their menus related to a healthy lifestyle.

STUDENT PUBLICATIONS PRODUCTION CLASS

Student Publications Production Class 1 credit Length of course: 1 term Approximate fee: \$40.00

The course focuses primarily on the production of the high school's *Batawat* Yearbook. Students may focus or specialize in writing, design, or business management and will apply to serve in a leadership position. Students may also participate in the production of other school publications as directed by the instructor. Students are encouraged to obtain training in digital design or marketing classes or be recommended by other teachers prior to enrolling in this class. Editors of the *Batawat* may be expected to work in a leadership seminar during the advisor/advisee period to enhance the communication, synergy and fellowship of the students who produce the publication.