

St. Henry High School



Registration Guide and Course Descriptions

2016-2017

ST. HENRY HIGH SCHOOL REGISTRATION GUIDE 2016 - 2017

PURPOSE OF THIS GUIDE

Planning your high school career is a serious matter that requires thoughtful consideration of several elements:

Your -

- ◆ Interests
- ◆ Abilities
- ◆ Future career
- ◆ Education after high school
- ◆ Family life
- ◆ Leisure activities



As you plan your high school courses, think carefully about these questions:

What is it that I like to do? Can those activities lead to or are they incorporated in a successful career?

What is it I do best? Am I considering a career that incorporates my best skills?

What skills will be needed for the career I am considering? Do I have or am I making plans to sharpen those skills so I will be successful?

What level of education will I need for my primary career interest area? Am I willing to put in the necessary work to get to that level of education?

How will family life affect progressing in my chosen career?

Will I be able to support a family on the income that my chosen career provides? Will I need another source of income to support a family?

What kind of lifestyle do I want? Will the career I have chosen provide the leisure time and the money to support those leisure activities?

The answers to the above questions can be found at <https://jobseeker.k-12.ohiomeansjobs.monster.com/seeker.aspx>

Each year, you want to revisit the answers you have given to these questions to see if your life goals have changed and to make decisions on the courses in high school that will best lead to your future success.

The staff at St. Henry High School has prepared this guide to help you in your decision-making process. Along the way, you and your parents will want to discuss the options we suggest and determine which may be the best for you. Our guidance counselor and teachers welcome your questions. Feel free to discuss any questions you may have with us.

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GRADUATION REQUIREMENTS (Classes of 2014 – 2017)

English.....	4 Units
Social Studies	3 Units
(Includes 1 unit American History and 1 unit American Government)	
Mathematics.....	4 Units
(Including Algebra II or its equivalent)	
Science (at least one biological, one physical, and one unit of advanced study).....	3 Units
Computer Science/Technology.....	1 Unit
Physical Education.....	½ Unit
Health.....	½ Unit
Elective Subjects.....	5 Units
Total	21 Units

THE OHIO GRADUATION TEST

All students must successfully pass the curriculum standards adopted by the St. Henry Board of Education and pass all sections of the Ohio Graduation Test.

GRADUATION REQUIREMENTS (Class of 2018 and beyond)

English.....	4 Units
Social Studies	3 Units
(Includes 1 unit American History and 1 unit American Government)	
Mathematics.....	4 Units
(Including Algebra II or its equivalent)	
Science (at least one biological, one physical, and one unit of advanced study).....	3 Units
Computer Science/Technology.....	1 Unit
Physical Education.....	½ Unit
Health.....	½ Unit
Elective Subjects.....	5 Units
Total	21 Units

All students take end-of-course exams. Students will earn points toward graduation on seven end-of-course exams. With few exceptions, students must accumulate a minimum of 18 points from scores on their end-of-course exams to become eligible for a diploma. To ensure students are well rounded, they must earn a minimum of four (4) points in math, four (4) points in English and six (6) points across science and social studies. These exams will replace the Ohio Graduation Tests.

- English 9 and English 10
- Algebra I and Geometry
- Biology for 2016 and beyond
- American History and American Government

Students can earn from 1-5 points for each exam, based on their performance.

- 5 – Advanced
- 4 – Accelerated
- 3 – Proficient
- 2 – Basic
- 1 - Limited

And meet one of the following three:

1. Earn a cumulative passing score on seven end-of-course exams. The scores will be set by the State Board of Education.
2. Earn a “remediation-free” score on a nationally recognized college admission exam such as ACT or SAT. The state of Ohio will pay for all 11th-grade students in the Class of 2018 and beyond to take the exam free of charge.
3. Earn a State Board of Education-approved, industry-recognized credential or a state-issued license for practice in a career and achieve a score that demonstrates workforce readiness and employability on a job skills assessment.

DIPLOMA WITH HONORS – GRADUATING CLASSES

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

- 1) Earn four units of English.
- 2) Earn four units of Mathematics, which shall include the competencies in Algebra I, Algebra II or equivalent and Geometry and another higher level math course. (Advanced Math, Calculus, AP Calculus, Statistics)
- 3) Earn four units of Science including Chemistry and Physics.
- 4) Earn four units of Social Studies
- 5) Earn three units of one Foreign Language or two units each of two Foreign Languages
- 6) Earn one unit of Fine Arts
- 7) Maintain a high school G.P.A. of at least 3.5 or higher on a 4.0 scale up to the last grading period of the senior year
- 8) Earn a 27 composite score on the American College Test (ACT), or a 1210 on the Scholastic Aptitude Test (SAT)

*The criteria for the Diploma with Honors vary for students who enroll in a two-year career/technical program. See below.

DIPLOMA WITH HONORS – GRADUATING- CAREER TECHNICAL STUDENTS

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

- 1) Earn four units of English.
- 2) Earn four units of Mathematics, which shall include the competencies in Algebra I, Algebra II or equivalent and Geometry and another higher level math course. (Advanced Math, Calculus, AP Calculus, Statistics)
- 3) Earn four units of Science including two units of advanced science.
- 4) Earn four units of Social Studies.
- 5) Earn four units minimum in the student's Career-Technical education curriculum. Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post-secondary credit.
- 6) Maintain an overall high school G.P.A. of at least a 3.5 on a 4.0 scale up to the last grading period of the senior year.
- 7) Earn a 27 composite score on the American College Test (ACT), or a 1210 on the Scholastic Aptitude Test (SAT).
- 8) Achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment or equivalent.

SCHEDULE CHANGES AND COURSE WITHDRAWALS

The selection of the appropriate high school courses to prepare a person for a future career and effective citizenship is extremely important. Following the student's initial class selection request, much effort is made in preparing a master schedule that will meet the needs of the individual students and the entire school community.

Each student is asked to very carefully consider the matter of course selection. Following the submission of the selection request form, changes can only be made after a conference with the school counselor. The counselor and/or principal may approve the change request if beneficial to the student and within the school's resources.

Students are strongly encouraged to avail themselves of all opportunities and classes that will assist them in their career and educational plans. We require every student to enroll in seven classes so that he/she maintains **no more than one study hall daily unless you have a science lab.**

If a student desires to drop a class after the school year has started, we will adhere to the following drop policy: A student may drop a semester long class, if he/she is carrying sufficient credits, and if the request to do so is made during the first week of that semester. If a student wishes to drop a year-long class, he/she must be carrying sufficient credits and must request the drop during the first week of the school year. A student, who drops a course at any time other than described above, may receive a failing mark for the semester grade in that course.

CAREER-TECHNICAL COURSES – TRI STAR OFFERINGS

In addition to those course offerings described, junior and senior students have the opportunity to enroll in career-technical classes offered by the Tri Star Vocational Compact.

Career-Technical Education is a planned program of study designed to provide students with the technical and personal skills needed for employment. These skills increase the individual's opportunities and chances for securing a job that provides a good salary, security, and benefits.

These classes are generally half-day programs (plus travel time) that offer students multiple credits in the area of study. Students will attend classes at St. Henry High School for a portion of the day and spend the remainder of the day at their career-technical class site. A separate catalog describing these courses is available from the guidance office.

Current offerings include: (All classes are Tech Prep)

Agricultural Mechanics	Graphic Communications
Automotive Technology	Interactive Media
Biomedical and Electronics Technology	Med Prep
Business Management	Precision Machining
CBI	Vet Tech
Construction	Welding
Early Childhood Education	
Engineering Technology (CAD)	

College Tech Prep Benefits

1. Students get a head start on college.
2. College Tech Prep programs help ease the college financial burden by providing qualifying students the opportunity to earn college credits and by providing scholarship money.
3. College Tech Prep programs help prepare students for a high skill, high demand career.

SUGGESTED TECH PREP PATHWAY

Tech Prep Pathway - Grade 9

English

English 200

Math

Algebra I, Algebra IA or Geometry

Science

Biology

Social Studies

American History

Health & Physical Education

Health / Physical Education

Engineering/Comp. Science/Technology

Business Reporting / Computer Presentations

Introduction to Engineering Design

Tech Prep Pathway - Grade 10

English

English 300

Math

Geometry, Geometry A, or Algebra II

Science

Physical Science or Chemistry

Social Studies

World History

Health & Physical Education

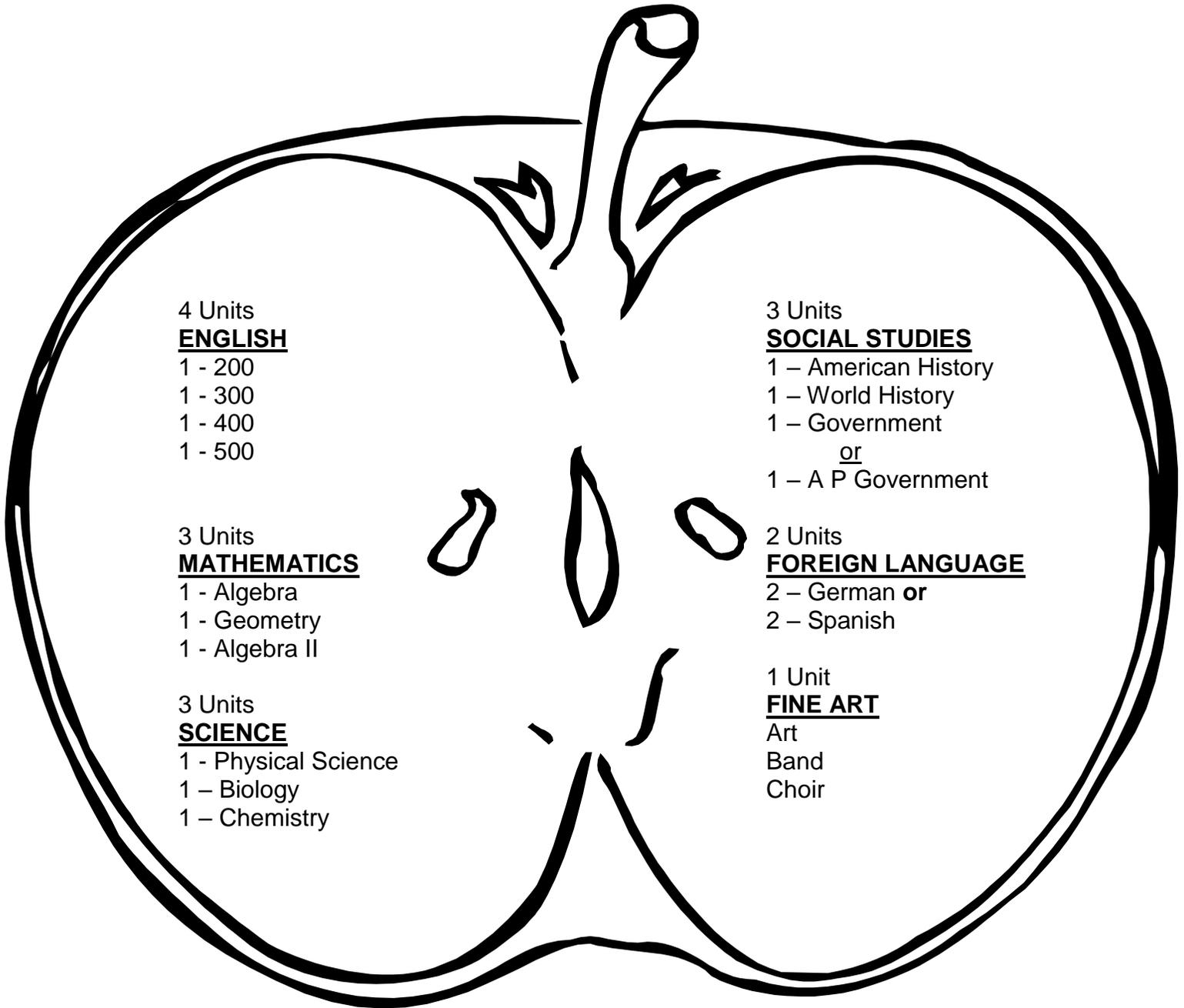
Health / Physical Education

Engineering/Comp. Science/Technology

Business Reporting / Computer Presentations

Principles of Engineering

The MINIMUM Core for Bachelor Degree Preparation in Ohio



The core above lists the course work that should be taken by any student intending to enter our state universities pursuing **a four year degree**. Failure to have these courses on your transcript could result in additional course work in college and additional expense.

AGRICULTURAL DEPARTMENT

AGRICULTURE, FOOD & NATURAL RESOURCES

Prerequisite: Must be a dues paying member of the FFA

Credit: 1

Term: 1 year

This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience (SAE) programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry. There will be a laboratory component to this class where students will learn basic woodworking skills. Students will have the opportunity to design and engrave special projects with the CO2 laser as time permits

ANIMAL SCIENCE & TECHNOLOGY

Prerequisite: Must be a dues paying member of the FFA

Credit: 1

Term: 1 year

Students will learn and apply responsible animal management principles and routine husbandry practices. Topics will include nutrition, feeding, and caring for animals, body/carcass composition evaluation, and applying marketing principles to the sale and distribution of animal products. Learners will investigate animal genetics and how it impacts principles of animal improvement, selection and marketing. Throughout the course, learners will develop business leadership, problem-solving and communications skills in relation to the science of animals. There will be a laboratory component to this class where students will learn basic welding skills. Students will have the opportunity to design and engrave special projects with the CO2 laser as time permits.

BUSINESS MANAGEMENT FOR AGRICULTURAL & ENVIRONMENTAL SYSTEMS (Formerly Ag Business)

Prerequisite: Junior or senior level course and must be a dues paying member of the FFA

Credit: 1

Term: 1 year

Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, student will apply concepts of ethics and professionalism while implications of business regulations will be identified. There will be a laboratory component to this class where students will design and market a project. Students will have the opportunity to design and engrave special projects with the CNC router and CO2 laser as time permits. **An average of 3.00 or better in Ag Business I & II qualify for 3 credits Agribusiness Fundamentals (Ag 106) at the University of Northwestern Ohio.**

MECHANICAL PRINCIPLES (formerly known as Structural Engineering)

Prerequisite: Junior or senior level course and Must be a dues paying member of the FFA

Credit: 1

Term: 1 year

Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identify, diagnose, and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills. Students will have the opportunity to design and engrave special projects with the CNC router and CO2 laser as time permits.

AGRICULTURAL AND ENVIRONMENTAL SYSTEMS CAPSTONE I

Prerequisite: One (1) completed agriculture course and currently enrolled in an agricultural course
Must be a dues paying member of the FFA
Grades 12 only

Credit: 1

Term: 1 year

The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen Agricultural and Environmental Systems career field pathway. The course is designed to assess cognitive, affective and psychomotor learning and to do so in a student-centered and student-directed manner. The capstone requires application of learning to a project that serves as an instrument of evaluation. Students are strongly encouraged to sign up for this course and will be completing a research project outside of class time. Credit will be given upon completion of up to 270 supervised hours of research on an agricultural topic.

AGRICULTURAL AND ENVIRONMENTAL SYSTEMS CAPSTONE II

Prerequisite: Two (2) completed agriculture courses and currently enrolled in an agricultural course
Must be a dues paying member of the FFA
Grade 12 only

Credits: 2

Term: 1 year

The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen Agricultural and Environmental Systems career field pathway. The course is designed to assess cognitive, affective and psychomotor learning and to do so in a student-centered and student-directed manner. The capstone requires application of learning to a project that serve as an instrument of evaluation. If a student incurs a failing grade in any course, he or she will not be eligible to leave for work release. Seniors are strongly encouraged to sign up for this course and will be permitted to miss school to do work study in an agriculture related job, or to conduct a research project. Credit will be given upon completion of 540 supervised hours of research or placement in a business providing agricultural services or products.

WOODS I

Credit: ½

Term: 1 semester

This course will consist of primarily of hands-on lab work. Students will be learn how to plan and layout projects; identify different types of woods, wood joints, and fasteners; explain how wood is cut, dried, and graded; use hand tools and power machines properly; apply glues, stains, and finish properly; and demonstrate good safety shop practices.

WOODS II

Prerequisite: Woods I

Credit: ½

Term: 1 semester

Students will demonstrate their knowledge of wood joints, fasteners, gluing and clamping, and applying finish as it was taught in the previous course. The student will build more advanced products and develop skills in cabinetry.

METALS I

Prerequisite: None

Credit: ½

Term: 1 semester

The course will teach students the technology used in the metal fabricating industry by welders, sheet metal fabricators, and machinists. Major class/shop assignments: shop safety program and test; measurement program, practice, and tests; sheet metal assignments and fabrication; basic welding assignments, practice, and project fabrication; and project construction; plus a class booklet.

METALS II

Prerequisite: Metals I

Credit: ½

Term: 1 semester

This will be a continuation of the Metals I class with students utilizing and developing plans for various metal based projects.

ART DEPARTMENT

ART I

Credit: 1
Term: 1 year

Art 1 presents a series of beginning art experiences and reinforces the basic Elements and Principles of Art. Various artists and styles will be discussed depending on type of media being used. Art Criticism, which includes describing, analyzing, interpreting, and evaluating artwork, will also be introduced. The students will learn vocabulary to coincide with these topics. Students will explore various art careers and present information about numerous artists throughout history. Drawing media, painting media, mixed media and three-dimensional arts will be the core of this introductory art course.

ART II (Drawing/Painting)

Prerequisite: Art I, grades 11 or 12, and teacher's approval
Credit: 1
Term: 1 year

Art II encourages the development of skills and the education of the artist's eye. Art II is an advanced drawing, painting, and mixed media techniques course, which encompasses all free hand and technical drawing concerns, including subject matter and various drawing materials, as well as design and compositional concerns. Method of evaluation may include project grades, class assignments, and homework assignments.

ADVANCED DRAWING

Prerequisite: Art I, Art II, grades 11 or 12, and teacher's approval
Credit: $\frac{1}{2}$
Term: 1 Semester

Advanced Drawing students will enhance their drawing skills by completing more advanced projects in an advanced drawing course. A variety of drawing mediums will be introduced. Projects will range from an emphasis on realism to the freedom of exploring abstraction through color and design. Method of evaluation may include project grades, class assignments, and homework assignments.

ADVANCED PAINTING

Prerequisite: Art I, Art II, grades 11 or 12, and teacher's approval
Credit: $\frac{1}{2}$
Term: 1 Semester

Advanced Painting students will enhance their painting skills by completing more advanced projects in an advanced painting course. A variety of painting mediums will be introduced. Projects will range from an emphasis on realism to the freedom of exploring abstraction through color and design. Method of evaluation may include project grades, class assignments, and homework assignments.

DIGITAL PHOTOGRAPHY

Prerequisite: Art I
Credit: $\frac{1}{2}$
Term: 1 Semester

Photography students will learn camera skills and how to operate a digital SLR (single lens reflex) camera. The history of photography will be briefly explored and students will discuss numerous photographers. Adobe Photoshop, a computer graphic program, will be introduced. Students will manipulate and enhance their images using the tools provided by the program.

ANIMATION

Prerequisite: Grades 11 or 12
Credit: $\frac{1}{2}$
Term: 1 semester

Students will learn the basics of animation using animation software. They will make small animations to use in a website, movies, and e-cards. They will also learn how to add sound to their animations.

CERAMICS

Prerequisite: Grades 10, 11, and 12

Credit: ½

Term: 1 Semester

Ceramic students will explore hand-building techniques, such as creating coils, pinch pots, and free form slab construction. Because clay is the oldest art form, the role in pottery in various cultures will be explored. Students will enhance their pottery with the use of colored slips, glazes and paint.

ADVANCED CERAMICS

Prerequisite: Ceramics and teacher's approval

Credit: ½

Term: 1 Semester

Students will utilize more advanced hand building techniques during this course. Projects will be larger and more complicated.

GRAPHIC DESIGN

Prerequisite: Grades 11 and 12

Credit: ½

Term: 1 semester

This is an introductory course to graphic design using Photoshop Elements, Corel Draw and Microsoft Office. The course will include learning the software by doing tutorials and then creating various projects. The students will also discover the elements of the design process as well as creating unique items to their tastes. Some of the projects can include window clings, calendars, magazine covers, t-shirts, magnets and stickers. This course can give students who might be interested in graphic design a "taste" of what it might be like.

PORTFOLIO

Prerequisite: Advanced art students only, grade 12, and teacher's approval

Credit: 1

Term: 1 year – Independent Study

Portfolio is a course for those students interested in pursuing an art degree in college. Students will have the freedom to create projects of their choice with approval from the art teacher. They will focus on their own style and should be expected to discuss their work and the work of their peers through critiques. The workload is difficult and the expectations are high. Students must be dedicated and serious about their art.

BUSINESS AND COMPUTER SCIENCE DEPARTMENT

BUSINESS REPORTING

Credit: ½

Term: 1 semester

This intermediate level course concentrates on learning business computer applications. Software that students will learn includes: Microsoft Office - Excel and Word. Students will become fluent with the advance tasks of Excel that include: conditional formatting, building spreadsheets around real world problems and mathematical functions. With Word, students will be able to accomplish the following upon completion of this class: create a basic word document, edit a document, format text, format paragraphs, insert a table, insert special characters and graphical objects, control the page setup and appearance of a Word document. The course is recommended for students going to college or into a business-related occupation. Students are encouraged to use their skills in other course work.

COMPUTER PRESENTATIONS

Credit: ½

Term: 1 semester

The course will be especially helpful for students going to college or technical school and for students who will be going to work in a business related occupation after high school. The applications learned will include file management, preparing reports, projects, tables, graphs, and graphics. Students will be giving presentations for the class and working on their public speaking skills. The software will include Power Point and Desktop Publishing.

ACCOUNTING I

Prerequisite: Grades 10, 11 and 12

Credit: 1

Term: 1 year

Training in accounting helps students make personal financial decisions. The class teaches students how to maintain checking accounts, banking records, and payroll records. Students learn to keep records for small service and retail businesses operating as proprietorships and/or corporations. Students will be introduced to automated accounting. This class is a must for students who plan to attend college or technical school in any business major. Students enrolling in non-business Tri Star programs should consider this course since recordkeeping is an essential part of most technical careers. **An average of 3.00 or better in Accounting I & II qualify for 4 credits for Accounting I (ACC114) at the University of Northwestern Ohio.**

ACCOUNTING II

Prerequisite: Accounting I & grade 12

Credit: 1

Term: 1 year

Accounting II is concerned primarily with accounting for partnerships and corporations. The students in this course must have been successful in Accounting I and should have an interest in a business career. Building off of Accounting I, Accounting II goes more into depth with adjustments and finishes up with a computer simulation. Accounting II is highly recommended for anyone considering post-secondary or college business programs. An average of 3.00 or better in Accounting I & II qualify for 4 credits for Accounting I (ACC114) at the University of Northwestern Ohio. **An average of 3.00 or better in Accounting I & II qualify for 4 credits for Accounting I (ACC114) at the University of Northwestern Ohio.**

FINANCE/INVESTMENTS

Prerequisite: Grades 11 and 12

Credit: $\frac{1}{2}$

Term: 1 semester

This course will discuss the concepts of business finance and cover various investment options that include bonds, IRAs, and CDs. Students will learn about the basic finance topics such as credit card debt, compound interest, identity theft and stocks. Students will participate in a stock market challenge where they will compete against fellow classmates to see who can make the best investments based on information gathered from the past. This course is recommended for anyone.

MARKETING & MANAGEMENT

Prerequisite: Grades 11 and 12

Credit: $\frac{1}{2}$

Term: 1 semester

This course will discuss the basics of marketing and the basics of managing a business including human resources. Students will cover the functions of marketing: product and service management, distribution, selling, marketing-information management, financing, pricing, and promotion. Students may complete a simulation that will allow them to engage in a realistic marketing situation. This course is recommended for any students that are planning to enter any business/office related occupation.

SPORTS AND ENTERTAINMENT MANAGEMENT

Prerequisite: Grades 11 and 12

Credit: $\frac{1}{2}$

Term: 1 semester

Students in this class will learn the basics of managing in the entertainment and sports industries. The sports and entertainment industry is a large-scale business and many people are employed at every level of the industry. Students will learn about management functions and responsibilities, decision-making, management strategies, leadership, managing groups and teams, and managing with information technology. The material will be related to amateur and professional entertainment/sports.

WEB PAGE DESIGN I

Prerequisite: Grades 10, 11 and 12

Credit: ½

Term: 1 semester

The Internet has become a major part of our personal lives as well as an integral part of business today. This course introduces students to web pages and their design structure. Students will learn the basics of HTML web design as well as how to utilize an established web design program. The students in this course will be required to design, update, and maintain the district web site and teams/clubs pages for the high school.

WEB PAGE DESIGN II

Prerequisite: Web Page Design I

Credit: ½

Term: 1 semester

A continuation of Web Page Design I class. The students in this course will be required to design, update, and maintain the district web site and teams/clubs pages for the high school.

PERSONAL FINANCE

Prerequisite: Grades 10, 11, and 12

Credit: ½

Term: 1 semester

This course will provide students with an understanding of the concepts and principals involved in managing one's personal finances. Topics may include savings and investing, credit, insurance, taxes and social security, spending patterns and budget planning, contracts and consumer protection. These courses also provide an overview of today's American economy.

ENGLISH DEPARTMENT

ENGLISH 200

Prerequisite: Grade 9

Credit: 1

Term: 1 year

English 200 focuses on developing 21st Century literacy skills through reading, writing, and oral communication. Grammatical and literary terms will be studied formally to provide students with a common vocabulary with which to discuss literature and their writing with teachers and peers. Through multiple genres of world literature, students will study the elements of fiction, nonfiction, poetry and drama. The essential skills emphasized within those texts include expanding vocabulary, working with words as they function in texts, reading closely for analysis and interpretation, building on prior knowledge of character development, and understanding and using more complex figurative language. In addition to literature, students will also learn and practice writing as a process of skills, strategies, and practices that allow them to develop their organization, focus, research, evaluation, and revision process. The research in English 200 focuses on finding and evaluating reliable and credible sources, taking notes, combining one's own ideas within research to develop and prove a thesis, and utilizing appropriate citing according to the MLA style. Students will use all of these language arts skills to think critically, to communicate with others, and to understand cultures in the world today, along with preparing them for the next generation assessments, and their future English education.

ENGLISH 300

Prerequisite: Grade 10

Credit: 1

Term: 1 year

In this reading and writing-intensive class, students will actively read informational and literary texts—ranging from small-scale works to class novels. After reading the texts, students will be expected to write, think, and communicate critically about what they have read. Drawing from and analyzing outside sources will complement various papers we write as well as the works we read. Developing a strong vocabulary, integrating writing techniques, and mastering rhetorical devices will provide a common thread to bolster our writing and discussions.

ENGLISH 400

Prerequisite: Grade 11

Credit: 1

Term: 1 year

This course is a combination of the study of composition and survey of the modern and contemporary literature of America. Through the study of representative writings of these various periods in the history of American literature, the student becomes acquainted with the American writers, poets, essayists, and dramatists. All of the genres of literature will be sampled: short story, biography, essay, poetry, novel, and drama. The terms used in literary analysis and criticism will be stressed. Additional work on vocabulary development, on ACT preparation, and on research documentation will be incorporated.

HONORS ENGLISH 400

Prerequisite: Grade 11, excelled in English 300, and teacher's approval

Credit: 1

Term: 1 year

This rigorous class is suited for capable and willing readers and writers who crave a more challenging curriculum. Honors students are expected to have an excellent grasp of basic grammar and writing skills. This course will engage students in careful and critical reading and analysis of American and multicultural literature. Students will consider the "larger picture" of a work—its structural, stylistic, and thematic concerns—through study of "smaller-scale" elements like an author's use of literary elements and techniques. Discussions, projects, and essays will require students to analyze, compare, and evaluate the works. Increased vocabulary emphasis, ACT preparation, and research documentation will pervade this fast-paced class.

ENGLISH 500

Prerequisite: Grade 12

Credit: 1

Term: 1 year

This course focuses on the study of literature and writing. It is a mainly a British literature class that follows the chronology of Britain's history beginning in medieval times and continuing into the 20th century; however, integrated into the British literature theme are several pieces of contemporary fiction, American literature, multicultural texts, and informational works. The course covers a variety of genres including: epic poetry, short stories, novels, and Shakespearean dramas. Skills such as critical thinking, questioning, researching, presenting, collaborating, and communicating are all emphasized as a part of 21st century learning. In addition, there is a focus on daily vocabulary development. The writing portion of this course focuses on a variety of formats in order to prepare students for college and the work force. Students will be required to write narratives, poems, persuasive essays, research papers, and expository essays, along with shorter, more informal writing assignments. Students will also learn job skills by creating resumes and cover letters. Students will also learn about the process of interviewing and how to prepare themselves for the job market in the technological age.

HONORS ENGLISH 500

Prerequisite: Grade 12, excelled in English 400, and teacher's approval

Credit: 1

Term: 1 year

Honors English 500 is a rigorous, introductory college-level course in the reading and critical analysis of literature. It is concerned with language as a symbolic process and perceives literature as experience preserved in language. An intense study of literature, including the novel, short fiction, poetry, and drama will be accompanied by responding to the literature in different ways: discussions, speeches, essays, project, etc. Students will consider the "larger picture" of a work – its structural, stylistic, and thematic concerns – through study of "smaller scale" elements like an author's use of literary elements and techniques. Honors English 500 is offered for those students who are capable and willing readers and who crave a more challenging curriculum. This course bridges the gap between college prep classes and the advanced placement curriculum. Students in this course may be eligible to take the AP exam in May, with the possibility of attaining college credit. Students must demonstrate superb reading/writing skills to be eligible for this course. This course requires instructor approval and a grade of B or better in the previous English course.

CAREER CONNECTIONS

Credit: ½

Term: 1 semester

A variety of career paths will be presented and explored so that students can identify the numerous career paths available to them. Students will complete self-assessments in the areas of interests, skills and personality, eventually being able to match up with a variety of careers to explore more specifically in regards to their future. Students will begin looking at education paths in order to better schedule the rest of their high school education.

FAMILY AND CONSUMER SCIENCE DEPARTMENT

CHILD DEVELOPMENT I: Birth – Age 3

Prerequisite: Grades 10, 11, 12

Credit: ½

Term: 1 semester

This is a class designed to introduce students to the developmental stages of an infant and toddler and the needs associated with each stage. Students will gain an understanding of the physical, emotional, social and intellectual development of the infant and toddler. They will learn about infant care, bonding and attachment, and activities needed for healthy development. Students will identify the dynamics of family life in America and learn what it takes to raise children in a healthy manner. The meaning of parenthood, managing work and family responsibilities, building positive parent-child relationship and using positive guidance are some areas that are taught in the parenting focus. Opportunities will be provided to have hands-on experience and interaction with children. This course would be good for general parenting information as well as for those interested in pursuing a career focused on working with small children.

CHILD DEVELOPMENT II: Age 4 – 12

Prerequisite: Grades 10, 11, 12

Credit: ½

Term: 1 semester

This is a class designed to acquaint students with the developmental stages of a preschooler through age twelve and the needs associated with each stage. Students will gain an understanding of the physical, emotional, social and intellectual development of the preschooler and the school age child. Some topics of study will be child nutrition, make believe play, readiness for school, peer pressure, middle childhood and early adolescence. Students will identify a variety of special challenges that children face. They will become familiar with children who face disabilities, children who encountered abuse/neglect and those who have faced the stress with death of a parent or divorce of a parent. Opportunities will be provided to have hands-on experience and interaction with children. This course would be good for those who enjoy spending time with children and it would benefit those who are interested in pursuing a career working with young and school age children.

INTERIOR DESIGN

Prerequisite: Grades 10, 11, 12

Credit: ½

Term: 1 semester

The application of information learned will be presented through hands on activities that involve working with elements and principles of design. Students will also design interior environments with a focus on completing scale drawings of an efficient floor plan. Identifying and working with ergonomics of furniture, furniture styles, lighting and accessories, backgrounds and home maintenance will also be included in the interior environments. Opportunities to analyze differences in the costs of materials for the home will be given. A sewing construction project will be included.

FOOD SCIENCE (previously called Life Skills)

Prerequisite: Grades 10, 11, 12

Credit: ½

Term: 1 semester

In this course, students will apply basic culinary practices and understand how flavor, texture and appearance are affected during food preparation. Students will evaluate chemical reactions as they occur in cooking methods and assess how to control high-risk food safety situations. Food safety and sanitation techniques will be emphasized. Students will have the opportunity to expand their food preparation skills and participate in experimental food labs. The basics of sewing will be expanded. Opportunities to build other life skills may occur.

NUTRITION AND WELLNESS

Prerequisite: Grades 10, 11, 12

Credit: ½

Term: 1 semester

In this course, students will use principles of nutrition to ensure a healthy body throughout the life cycle. An emphasis will be placed on planning and preparing meals with an understanding of nutrients and their benefits, portion control, and dietary needs. Additional information may include steroid and supplemental use, body weight and management, and the importance of physical activity to maintain a healthy lifestyle. Other topics may include fighting disease with food, GMO's (genetically Modified Organisms), food allergies, and proper etiquette. Food laboratory practice will allow students to learn principles of food cookery, gain skills in food preparation, and learn how to prepare food products with minimal loss of nutritional content.

FOREIGN LANGUAGE DEPARTMENT

GERMAN I

Credit: 1

Term: 1 year

The German I class is the beginning study of the German language. A basic foundation in reading and writing and a firm understanding of the rules of grammar are offered. Current information about the German speaking countries is covered by various means. Textbooks, workbooks, videos, CD's, computer software, and tapes are used as instructional aides. German is useful in all academic and business professions. It offers opportunities for those interested in traveling or pursuing challenging, future job positions. An "A" or "B" average in English is recommended. It is recommended that those who begin a German I course should plan to take German II the following year.

GERMAN II

Prerequisite: German I

Credit: 1

Term: 1 year

German II completes the introductory study of German. This course extends the grammar studies begun in the first course. This year students are involved in more practice in written composition, reading, oral presentation, and cultural studies. Vocabulary building and the practical application of idioms are important components of this course. Additional supplementary material (CD's, films, tapes, visual aides, computer software, videos) will be used. Students who maintained a solid A-B average in German I should consider this course.

Studying two years of German will enhance the proficiency achievement for students traveling to a German-speaking country. More realistically, however, colleges require foreign language testing before enrolling in required courses of study. Placement in a course beyond Beginning German 101 can be cost effective and/or possible free college credit hours on a transcript. Seniors still in a foreign language course score the highest.

GERMAN III

Prerequisite: German II

Credit: 1

Term: 1 year

German III offers a deeper study of the German language, the German people, and the German culture. More speaking, reading, and comprehension skills will be mastered. A third-year student will be able to better appreciate his/her first two years of language learning. The foundation laid earlier will be more easily seen as useful in the further study of German. This advanced language course could lead to a student's being granted more college credit or higher college placement in a higher-level language course, before the student begins university or college study. A third credit in German is one component needed to receive an honors diploma.

GERMAN IV

Prerequisite: German III

Credit: 1

Term: 1 year

German IV stresses the mastery of listening, speaking, writing, and reading skills. The course will allow students to further develop and polish previously learned language concepts and will also include a literature and small historical study. Total immersion is the goal of this course, where both students and teacher use the target language the majority of the time. The fourth year will assure the final preparation for college proficiency testing and course placement.

SPANISH I

Credit: 1

Term: 1 year

The Spanish I class is designed to introduce all students to the basics of the Spanish language. A foundation in the four skills of reading, writing, listening, and speaking is offered, as well as a solid understanding of the rules of grammar. Spanish culture and current information about the Spanish speaking countries are covered throughout the course. Textbooks, workbooks, movies, videos, tapes, and computer software are used as instructional aides. Studying Spanish can offer many opportunities for future job positions and for traveling. It is recommended that those who plan to attend a four-year college take at least two years of the same foreign language.

SPANISH II

Prerequisite: Spanish I

Credit: 1

Term: 1 year

Spanish II completes the introductory Spanish course. In this course, students will see the completion of the necessary grammar study started in Spanish I. A more in-depth practice of written expression, oral fluency, and cultural exposure will reinforce prior learning. The practical application of vocabulary learned in this course will allow students to feel comfortable when traveling in a Spanish-speaking country. Supplementary materials will be used in this course and students will continue working with the computer software applications used in Spanish I. It is recommended that Spanish II be taken immediately after Spanish I. Students planning to pursue a four year degree should take at least Spanish I and II.

SPANISH III

Prerequisite: Spanish II – with a “B” in both semesters

*Prior teacher approval **MUST** be given before registering for Spanish III.

Credit: 1

Term: 1 year

Spanish III completes the grammatical study begun in Spanish I and Spanish II and focuses on the practical applications of Spanish through conversation, comprehension skills, skits, short speeches, compositions, role-playing activities and cultural studies, as well as reading short stories and novels in the target language. Completing this advanced language course could contribute to the student receiving college credit before beginning study at a college or university. A third credit in a foreign language is one component needed to receive an honors diploma. The class will be instructed in the target language the majority of the time.

SPANISH IV

Prerequisite: Spanish III – with a “B” average

*Prior teacher approval **MUST** be given before registering for Spanish IV.

Credit: 1

Term: 1 year

Spanish IV stresses the mastery of listening, speaking, writing, and reading skills. Total language immersion is the goal. The fourth year will assure the final preparation for college proficiency testing. The class will be instructed in the target language the majority of the time.

HEALTH AND PHYSICAL EDUCATION DEPARTMENT

HEALTH AND PHYSICAL EDUCATION II

Prerequisite: Physical Education I (8th grade)

Credit: $\frac{1}{2}$ for Health, $\frac{1}{4}$ for Physical Education

Term: 1 year – preferably grade 9 or 10

The Health class meets 3 days per week for 1 year. Topics to be studied include the physical, emotional, and mental aspects of an individual. Discussion may include drugs, first aid, nutrition and fitness, mental illness, human sexuality/reproduction, stages of life, and infectious disease. There is also a state mandated section concerning abusive relationships and an abstinence based program.

Physical Education class meets 2 days per week for 1 year. As a continuation of Physical Education I, the major emphasis is placed on the recreational and lifetime activities that are aligned with the PE standards and benchmarks recently adopted by the State Department of Education. In PE II, the students are required to assemble a personal fitness plan based on their scores from the Fitness gram test results. Topics in PE II may include Frisbee, orienteering, yoga, badminton, basketball, square dancing, archery and football.

MATHEMATICS DEPARTMENT

ALGEBRA IA (formerly named Integrated Math II)

Prerequisite: Teacher recommendation

Credit: 1

Term: 1 year

This course will cover all of the primary subjects of Algebra I with a goal of preparing students for success in Geometry and Algebra II. The pace of this course will be in line with the development of students who struggled with Pre-Algebra in 8th grade. This course is also expected to prepare students for Ohio's State Assessment.

ALGEBRA I

Prerequisite: None

Credit: 1

Term: 1 year

Algebra I will include the study of set theory and the study of the real number system, variables, equations, inequalities, functions (linear, non-linear, and quadratic), and graphing. The curriculum is based on the ODE standards and also includes geometry, data analysis and probability topics. Algebra I is an indispensable tool in other branches of mathematics such as calculus and the sciences.

GEOMETRY

Prerequisite: Algebra I

Credit: 1

Term: 1 year

Geometry deals with figures that lie within a single plane. It deals with squares, triangles, circles, and parallelograms. It is not a subject that has resulted from the intensive genius of a few people. Rather, it has grown gradually from the beginnings of civilization. Counting led to arithmetic and algebra; measuring and studying the form of things led to geometry.

It is essentially a part of mathematics, the branches of which cannot be completely separated. In studying arithmetic in the elementary school students often dealt with geometric shapes, learning to compute perimeters, areas, and to apply this knowledge to practical problems. Later, in Algebra they discovered that many of the formulas studied concerned geometric figures. Without further study about these figures, the understanding of mathematics is one-sided. Geometry is a subject that not only helps individuals to better understand their environment, or to gain knowledge of important facts, but also to improve thinking habits and to develop reasoning.

ALGEBRA II A

Prerequisite: Algebra 1A and Geometry A

Credit: 1

Term: 1 year

The material covered in Algebra II A & B is equivalent to the content covered in Algebra II but will be covered over two years. This course is designed to build on algebraic and geometric concepts. It develops algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, quadratics, exponential and logarithmic functions, and the study of trigonometric functions. The content of this course is important for students to be successful on the Algebra II end of course exam.

ALGEBRA II B

Prerequisite: Algebra II A

Credit: 1

Term: 1 year

This course is a continuation of Algebra II A and designed to build on algebraic and geometric concepts. It develops algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, quadratics, exponential and logarithmic functions, and the study of trigonometric functions. The content of this course is important for students to be successful on the Algebra II end of course exam.

ALGEBRA II

Prerequisite: Algebra I, Geometry

Credit: 1

Term: 1 year

This course is designed for the college bound student. This course is designed to build on algebraic and geometric concepts. It develops advanced algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, quadratics, exponential and logarithmic functions, and the study of trigonometric functions. The content of this course is important for students' success on both the ACT and college mathematics entrance exams.

ADVANCED MATH

Prerequisite: Algebra II

Credit: 1

Term: 1 year

This course is primarily designed to acquaint the student with a variety of mathematical concepts that develop a background for further work in mathematics. The course will cover a variety of topics in mathematics including: Trigonometry, an extensive review of functions and their graphs, conic sections, exponential and logarithmic functions, sequences and series, plus more advanced topics not considered in Algebra II.

ADVANCED PLACEMENT STATISTICS

Prerequisite: Algebra II or Algebra II A

Credit: 1

Term: 1 year

AP Statistics is the high school equivalent of a one semester, introductory college statistics course. In this course, students develop strategies for collecting, organizing, analyzing, and drawing conclusions from data. Students design, administer, and tabulate results from surveys and experiments. Probability and simulations aid students in constructing models for chance behavior. Sampling distributions provide the logical structure for confidence intervals and hypothesis tests. Students use a TI-83/84 graphing calculator, Fathom, and Minitab statistical software, and Web-based java applets to investigate statistical concepts. To develop effective statistical communication skills, students are required to prepare frequent written and oral analyses of real data.

ADVANCED PLACEMENT CALCULUS AB

Prerequisite: Successful completion of Advanced Math with teacher recommendation

Credit: 1

Term: 1 year

AP Test – Cost for 2015 exam was \$81

AP Calculus will cover the concepts of limits, derivatives, and integrals along with their applications. This will be approximately equivalent to one semester of college calculus. Students will have the chance to earn college credit through the Advanced Placement program. A sufficient score on AP exam in May could qualify the student to receive college credit or advanced placement, depending on the college and the chosen major.

MUSIC DEPARTMENT

CHOIR

Prerequisite: Any high school grade by audition only

Credit: 1

Term: 1 year

This is a performing group of both female and male voices. Students will be required to participate in performances and activities outside the school day. Uniforms will be worn at various concerts and performances. An optional overnight trip may be taken during the year. Choir develops skills in music reading, rehearsal techniques, and performance procedures. Choir members are expected to execute dance movements and riser choreography. Choir promotes a sense of teamwork and cooperation. Choir members are exposed to various styles and types of music. Participation in fundraisers to defray the cost of activities is expected.

INSTRUMENTAL MUSIC (BAND)

Prerequisite: Students must have some prior playing experience and be able to pass a playing audition demonstrating minimum playing levels, and a written audition demonstrating a minimum knowledge of key signatures, term, counting, and time signatures.

Credit: 1

Term: 1-year (36 weeks) plus summer work

Classes will meet five (5) days a week for one period. Music of many different styles is a part of the curriculum. Students are encouraged not only to play but also to understand the music and styles being experienced. Independent playing is stressed through preparation of solos and ensembles for contest and concert performances. The Marching Band is also a part of the responsibilities of the course. The summer obligations include band camp, competitions, parades, concerts, and fair appearances. Participation in evening, weekend, and summer band activities is required of all members. Participation will be a factor in determining grade and credit earned. Students must pass "8th grade band levels" before they can participate in high school band. Band levels consist of the 12 major scales and a written test covering rhythms in 4/4, 3/4, 2/4, and 6/8.

SCIENCE DEPARTMENT

BIOLOGY

Prerequisite: None

Credit: 1

Term: 1 year (7 periods per week)

The biology course focuses on the study of living things. This study is divided into several different main areas that include a comprehensive study of the cell and its components and processes, genetics, evolution, classification of living things and the differences between the different kingdoms to which all living things belong. To meet the Prerequisite of the curriculum students will be required to perform laboratory procedures. It is expected that a student taking biology can work well cooperatively and independently as well as turn in work that is of good quality at all times. Those students who plan to attend post high school education are encouraged to take this course.

CHEMISTRY

Prerequisite: Biology (minimum grade of C), and permission of instructor
Algebra IIA or Algebra II (can be currently enrolled) or permission of instructor

Credit: 1

Term: 1 year (7 periods per week)

Chemistry covers dimensional analysis, atomic structure, chemical bonding, chemical reactions, states of matter, the mole, stoichiometry, solution chemistry, acid/base chemistry and pH, and an introduction to organic chemistry and biological chemistry. Students should have good study skills and be motivated. The course incorporates algebra II concepts to help explain and understand the chemistry topics. This class is open to sophomores, juniors and seniors. This class is highly suggested for students who will be attending a post-secondary institution.

ANATOMY & PHYSIOLOGY

Prerequisite: Chemistry (minimum grade of C) or permission of the instructor

Credit: 1

Term: 1 year (7 periods per week)

Students interested in taking Anatomy will learn about the human body and its eleven organ systems. Thorough discussions as well as laboratory procedures relating to the systems will be performed including the dissection of various organs and a dissection of the cat.

PHYSICS

Prerequisite: Chemistry, Advanced Math (currently enrolled in or have already taken)

Credit: 1

Term: 1 year (7 periods per week)

Physics is a class for students who are highly motivated in the sciences, especially those considering engineering, science, or medical related courses of study at a post-secondary institution. It covers topics such as force, motion, acceleration, waves, sound, light magnetism, and electricity from a theoretical viewpoint. Physics involves considerable math skills and will challenge the student's problem-solving ability

ENVIRONMENTAL SCIENCE

Prerequisite: Biology and permission of instructor

Credit: 1

Term: 1 year (7 periods per week)

This course incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills, and real-world applications. Focus will also be placed on how human interactions has made an impact on the environment.

SOCIAL STUDIES DEPARTMENT

AMERICAN HISTORY

Prerequisite: Grade 9

Credit: 1

Term: 1 year

This course will focus on American History from Reconstruction to the present. It is a continuation of American History studied in the 8th grade. This course will integrate the study of historical events, world interactions, citizenship, democratic principles, as well as people and societies. Students will be actively involved in learning through technology, current events, projects, simulations and scenarios.

WORLD HISTORY

Prerequisite: Grade 10

Credit: 1

Term: 1 year

This class will focus on World History from the Enlightenment to the present. The course will integrate the benchmarks and indicators of the Ohio Graduation Test. Topics such as the Enlightenment, the Industrial Revolution, Imperialism, World War I, Totalitarianism, World War II, the Cold War, as well as various contemporary conflicts may be covered. Students will be actively involved through technology, current events, projects, simulations and scenarios.

U.S. GOVERNMENT

Prerequisite: Grades 11 and 12

Credit: 1

Term: 1 year

This course explores the structure and dynamics of American national government, providing a broad-based introduction to the ideas and institutions that shape politics in the United States. Students will examine: civic involvement, civic participation and skills, basic principles of the U.S. Constitution, structure and functions of the federal government, the role of the people, Ohio's state and local government, public policy as well as economic principles. Each student is required to complete three hours of community service per nine weeks. Students will be actively involved through technology, current events, projects, simulations and scenarios.

ADVANCED PLACEMENT U.S. GOVERNMENT & POLITICS

Prerequisite: Grades 11 or 12 and teacher's recommendation

Credit: 1

Term: 1 year

AP Test – Cost for 2015 exam was \$82

This class is equivalent to a one-semester college introductory course in U.S. Government and Politics. The course meets the senior civics Prerequisite. The student must take the American Government portion of the AP exam. By passing the AP exam and the course, the student will be eligible for college credit toward a two- or four-year degree. This course will cover, but is not limited to the role of the U.S. Constitution in the U.S. Government, political beliefs and behavior, political parties, interests groups, mass media, the institution of national government, public policy, and civil liberties. The student will also compete in a state level mock congressional hearing.

SOCIOLOGY

Prerequisite: Grades 11 and 12

Credit: ½

Term: 1 semester

By definition, sociology is the scientific study of human society and social behavior. In this course we will study various social groups, social structure of groups, as well as types of societies. We will study norms, values, variation, and integration. This class will be an exciting introduction to new concepts and discussion.

PSYCHOLOGY I

Prerequisite: Grades 11 and 12

Credit: ½

Term: 1 semester

This course concerns the scientific study of behavior and mental processes. It examines the basic reasoning behind our thinking processes, emotions and actions. The topics of study include: the history of psychology, fields and occupations in psychology, research methods, developmental psychology, the brain and behavior, sleep and dreams, as well as sensation and perception. This class will provide useful insights into human behavior to help you see yourself, as well as others, in a new way.

PSYCHOLOGY II

Prerequisite: Grades 11 and 12 or a passing grade in Psychology I

Credit: ½

Term: 1 semester

This course continues to explore the scientific study of behavior, mental processes and reasoning as discussed in Psychology I. Some topics of study will include: Learning, personality, psychological disorders, diagnosis and therapy, social psychology, and current events in the field of psychology. Upon completion of this course, the students will have a better understanding of the psychological disorders that are identified in the DSM V, the various forms of treatment as well as social implications. This elective course stresses the application of academic content to the student's life.

CONTEMPORARY WORLD ISSUES

Prerequisite: Grades 10 and 11, and have passed American History and World History

Credit: ½

Term: 1 semester

Contemporary Issues introduces students to various issues facing the world today. Students will explore global economic systems, human rights, world health, environmental issues, national security, and the role of the United States and the United Nations in a changing world. This class is designed to eliminate much of the confusion surrounding these issues and allow students to form their own opinions on matters that affect their world. Students will evaluate the issues and propose solutions from a variety of perspectives by participating in a Model United Nations conference.

AMERICAN PRESIDENCY

Prerequisite: Grades 10 and 11, and have passed American History and World History

Credit: ½

Term: 1 semester

The course looks at the American Presidency from the beginning of the 20th century to modern-day, and highlights the achievements of the most significant presidents. Structured chronologically, it emphasizes the growth and transformation of the office and how it has come to assume such a dominant place in American Politics. Also, students will research various aspects of historical presidencies and compare them to contemporary issues.

MODERN AMERICAN HISTORY

Prerequisite: Grades 10 and 11, and have passed American History and World History

Credit: ½

Term: 1 semester

This course examines the major turning points in American History with an emphasis on domestic and foreign affairs. Beginning with the events leading up World War II, the class will explore the growth of the United States as a world power, the Cold War and the struggle to achieve class, ethnic, racial, and gender equality. The course extends to the modern day. Contemporary world issues such as globalization, economic interdependence, terrorism, and world cultures will also factor into our analysis of international conflict and cooperation.

ECONOMICS AND FINANCIAL LITERACY

Prerequisite: Grades 11 and 12, and have passed American History and World History

Credit: ½

Term: 1 semester

This course explores the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants. More specifically, it examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security. Topics include: Economic decision making, fiscal policy, global influence, personal income, financial planning, saving, investing, credit, debt and risk management.

TECHNOLOGY DEPARTMENT

INTRODUCTION TO ENGINEERING DESIGN (IED)

Prerequisites: none

Credit: 1

Term: 1 year

Introduction to Engineering Design (IED) is a high school level course that is appropriate for 9th or 10th grade students who are interested in design and engineering. The major focus of the IED course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based learning.

PRINCIPLES OF ENGINEERING (POE)

Prerequisite: IED

Credit: 1

Term: 1 year

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation collaboration, and presentation.

CIVIL ENGINEERING AND ARCHITECTURE (CEA)

Prerequisite: IED

Credit: 1

Term: 1 year

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

ENGINEERING DESIGN AND DEVELOPMENT (EDD)

Prerequisites: IED and either Basic Drafting/Advanced Drafting, POE, or CEA

Credit: 1

Term: 1 year

The knowledge and skills students acquire through engineering classes come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing EDD ready to take on any post-secondary program or career.

ROBOTICS I

Credit: ½

Term: 1 semester

Students will build robots with motors and sensors that perform tasks and react to their environment using the LEGO® line. Students will learn how to program the bots using an icon-based programming language. It's easy to learn, and introduces the concepts of logic, programming with objects, and functions, such as loops and conditional statements.

ROBOTICS II

Prerequisites: Robotics I

Credit: ½

Term: 1 semester

This course is a continuation of Robotics I and will go more in-depth using the LEGO® line. Students will build robots that can navigate obstacle courses and respond to a multitude of sensors, including light, touch, and sound. Students begin work using a base kit to master the programming of basic movements, and then progress to more difficult challenges. Students may be exposed to VEX robotics to program and build more complicated robots.

BASIC DRAFTING

Credit: ½

Term: 1 semester

Students will learn how to identify and use drafting tools and develop good drawing techniques, visualize and draw objects in different types of drawing styles (sketching, geometric construction, multi-view, section views, pictorials, auxiliary views, pattern development, etc.), letter and dimension a drawing properly, and read and use different types of scales

ADVANCED DRAFTING

Prerequisite: Basic Drafting

Credit: ½

Term: 1 semester

This class will be an extension of the Basic Drafting class with more in depth projects.

Important Information about NCAA Division I & II Initial –Eligibility Changes

The Division I initial-eligibility Prerequisite have changed. Go to https://web3.ncaa.org/ECWR2/NCAA_EMS/NCAA.jsp for more information.

Division I only – 16 core courses

If you plan to enter college in 2008 or after, you will need to present 16 core courses in the following breakdown:

- 4 years of English
- 3 years of mathematics (Algebra I or higher)
- 2 years of natural/physical science (one must be a lab science)
- 1 year of additional English, math or science
- 2 years of social studies
- 4 years of additional core courses (from any area listed above, or from foreign language, comparative religion or philosophy)

Students must present a corresponding test score and core-course GPA on the sliding scale (see NCAA website).

Division II – 16 core courses

- 3 years of English
- 2 years of mathematics (Algebra I or higher).
- 2 years of natural/physical science (1 year of lab if offered by high school).
- 3 years of additional English, mathematics or natural/physical science.
- 2 years of social science.
- 4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).

Students must present a corresponding test score and core-course GPA on the sliding scale (see NCAA website).

LIST OF APPROVED CORE COURSES FOR ST. HENRY HIGH SCHOOL

English:

- Contemporary Literacy
- English 200
- English 300
- English 400
- English 500
- English Lit/AP

Natural/Physical Science:

Course	Lab
Anatomy & Physiology	X
Biology	X
Chemistry	X
Physics	X
Physical Science	X
Earth & Space	X

Social Science:

- American History
- Economics – ½ credit
- Government /AP
- Psychology – ½ credit
- Sociology – ½ credit
- US Government
- World History

Additional Core Courses:

German I
German II
German III
German IV
Spanish I
Spanish II
Spanish II
Spanish III
Spanish IV

Mathematics:

- Advanced Math
- Algebra I
- Algebra II
- Calculus
- Calculus /AP
- Geometry
- Statistics – ½ Credit

EXTRACURRICULAR ACTIVITIES & ATHLETICS

Students are encouraged to get involved outside the classroom to enhance their high school experience. It is important for a student to think about building a resume while in high school. Your resume, which you will produce in your senior year, should reflect a well-rounded person with a variety of experiences including work (paid or volunteer), and/or extracurricular activities. Leadership positions such as committee chairperson, secretary, treasurer, president, shift manager, crew leader, etc. would make your resume stand out. A good grade point average is important. Institutions of higher learning and scholarship committees are looking for individuals with a great work ethic. This can be demonstrated through work experience and/or extracurricular activities. Listed below are opportunities for involvement at St. Henry.

EXTRACURRICULAR ACTIVITIES

Academic (Scholastic Bowl) Team
Band
Bowling Club
Choir
Drama Club
German Club
National Honor Society
OFEA (Ohio Future Education Association)
SADD (Students Against Destructive Decisions)
Science Club
Spanish Club
Student Government (Council)
Yearbook

ATHLETICS

Baseball – Boys
Basketball – Boys/Girls
Cheerleading – Boys/Girls
Cross Country – Boys/Girls
Football - Boys
Golf – Boys/Girls
Softball – Girls
Track – Boys/Girls
Volleyball - Girls