

# **Registration and Course Information**



## **Oblong High School**

**Updated January 2017**

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## **INTRODUCTION**

This packet of information has been compiled to assist students and parents in the registration and high school planning process. The Oblong Panther Student Handbook is also a useful tool which contains more specific information about school policy and procedures. Students are encouraged to set up a time to meet with the guidance counselor to discuss plans for their time in high school and following high school. Being proactive and meeting with the counselor now may lessen complications and difficulties with your schedule in the future.

- Students will request courses online through Skyward. The guidance staff will assist students in this process. Parents will be able to view their student's course requests through Skyward Family Access.
- All courses have been assigned a course number. Year long courses have numbers that end in an A or B. A refers to the first semester of a course and B refers the second semester of a course. This information will be helpful for students as they complete online course requests.

## OHS GRADUATION REQUIREMENTS

To graduate from Oblong High School a student must have earned a minimum of 22 credits. Courses include the following requirements and enough electives to total the required number of credits. \*\*Graduation Requirements are subject to change based on Illinois State Mandate and School Board regulations.

- 4 credits in English
- 3 credits in Mathematics – This must include:
  - Algebra I
  - Geometry
- 2 credits in Science – This must include:
  - One life science class
  - One physical science class
- 2 credits in Social Science – This must include:
  - American History
  - As part of American History you must also pass the U.S. Constitution, Illinois Constitution, and Flag Code Tests
- ½ credit of Health
- ½ credit of Keyboarding I
- ½ credit of Computer Concepts & Software
- 1 consumer education course
- ¼ credit of Drivers Education
- 1 credit chosen from among Fine Arts, Foreign Language, or Vocational Education. Vocational Education includes Agriculture, Business, and Family and Consumer Sciences courses.
- Physical Education each semester (exemptions excluded)
  - Reasons for exemption
    - Medically exempt (must have a dated note from a doctor)
    - Juniors and seniors Involved in a school sport or any student involved in marching band. You are only exempt during the semester you participate in a sport. Marching band only waives PE during the fall semester.
    - Juniors and seniors may be exempt from PE if they need courses to meet other graduation requirements.

Starting with the graduating class of 2020:

- ½ credit of Civics

## COLLEGE ENTRANCE REQUIREMENTS

Below is a list of general college entrance requirements. This list is not meant to be all encompassing. Each college or university has its own specific requirements. This is merely a list of recommendations common to most Illinois universities. College specific entrance requirements can be found on most schools' websites.

- 4 credits of English
- 3 credits of Mathematics
- 3 credits of Laboratory Sciences
- 3 credits of Social Science
- 2 credits of Foreign Language or electives

Below is a list of sample classes a college prep student might take at OHS. Generally, the courses below represent the minimum one should take. Students should talk to the guidance counselor about creating a 4-year plan that best meets their needs.

- **English:** English I, English II, English III, and English IV
- **Mathematics:** Algebra I, Geometry, and Algebra II
- **Science:** Biology I, Chemistry/Physics I, and Biology II or Chemistry/Physics II
- **Social Science:** American History, World Geography, and World History
- **Electives:** Spanish I, Spanish II or 2 other electives

## **DUAL CREDIT & DUAL ENROLLMENT**

### **Dual Credit**

Certain classes offered at OHS may be available for dual credit through Lincoln Trail College. This means that students may be able to earn college credit from LTC at no cost. The dual credit option is only available for students that take these courses during their junior or senior years. Interested students must apply for dual credit and meet LTC's testing requirements. Students will complete the LTC application in class, usually during the first week of the semester. If a student's Plan or ACT score is not satisfactory, he/she must take the AccuPlacer test at the college. Testing requirements must be satisfied *prior* to the start of the class. LTC will review each application and notify students if they qualify for college credit.

Currently, dual credit classes taught at OHS include:

- Chemistry/Physics II
- Spanish I
- Spanish II
- Speech
- Welding

### **Dual Enrollment**

Dual Enrollment refers to courses that are offered through a cooperative agreement with Twin Rivers Regional Vocational System. Students are transported to Robinson High School and Lincoln Trail College for these courses.

Currently, these courses include:

- Auto Mechanics I & II
- Building Trades I & II
- Child Day Care Services I & II
- Health Occupations I
- Welding

At this time, LTC is projecting a small fee for all dual credit classes taught away from Oblong High School. They are thinking this fee will be \$60 for each class this year. More information concerning dual credit and dual enrollment can be found in the Oblong Panther Student Handbook. Students are encouraged to talk to the guidance counselor if they are interested in dual credit or dual enrollment.

# AGRICULTURE

## **Ag I: Introduction to Agriculture (18001A001)**

Course Number: AGR 10A, AGR 10B  
Length of Course: 1 year (1 credit)  
Grade Level: 9-12  
Pre-requisite: None  
Course Number: 18001A001

This is a one-year course designed for students planning to study or explore the field of agriculture. The course includes a study of FFA organizations, careers relating to agriculture, and livestock. Students will be given a wide overview of all the many contests in the FFA.

## **Ag II: Basic Ag Science (18003A001)**

Course Number: AGR 20A, AGR 20B  
Length of Course: 1 year (1 credit)  
Grade Level: 10-12  
Pre-requisite: Ag I

The basic objective of this course is to give the students a broad background in animal and plant science which then would enable them to enter into any of the agriculture business occupations. Included in the course study are livestock feeding, reproduction, genetics, soils, plant production and horticulture.

## **Ag III: Ag Business Operations (18402A001)**

Course Number: AGR 30A, AGR 30B  
Length of Course: 1 year (1 credit)  
Grade Level: 11-12  
Pre-requisite: Ag II or permission of the instructor

This course is for the student who wishes to learn more about the area of agriculture. The areas of study will be reproduction of animals, shop work, beginning Ag accounting, career exploration, public speaking, and work involved in all FFA contests.

**Ag IV: Ag Business Management (18201A001)**

Course Number: AGR 40A, AGR 40A  
Length of Course: 1 year (1 credit)  
Grade Level: 12  
Pre-requisite: Ag III or permission of the instructor

This course is open to those students planning to go into a field of agriculture after high school. The areas of study will be grain futures, Ag accounting principles, and computer work with emphasis on resume writing. Interviewing skills will be taught during the fourth quarter. Also, students will be able to attend all FFA contests and become very active in FFA.

**Horticulture I (18052A001)**

Course Number: AGR 11A  
Length of Course: 1 semester (½ credit)  
Grade Level: 9-12  
Pre-requisite: None

This course is for students who wish to learn more about the basic production of all types of plants. Students will do work from a text, work in the high school greenhouse, and do landscape and plant work outside. Students will also be given the chance to become involved in FFA.

**Horticulture II (18052001)**

Course Number: AGR 11B  
Length of Course: 1 semester (½ credit)  
Grade Level: 9-12  
Pre-requisite: Horticulture I or permission of the instructor

This course will teach students about plant production. Many different types of plants, plant life and problems are studied in Horticulture II. The student will also work in the greenhouse at the high school and be involved in the FFA plant sale.

## **BUSINESS**

### **Keyboarding I (12005A001)**

Course Number: BUS 10  
Length of Course: 1 semester (½ credit)  
Grade Level: 9 or 10 is suggested  
Pre-requisite: None

This course is designed to develop basic skills in touch keyboarding techniques for entering alphabetic, numeric, and symbol information found on computers and terminals. Students will learn to edit and format text and paragraphs, change fonts, work with headers and footers, cut and paste text, create and use tab keys, create labels and work with multiple windows. Students will format documents such as letters, envelopes, memorandums, reports, and tables for personal, educational and business uses. During the second half of the course, major emphasis is placed on formatting documents, improving proofreading skills, and increasing speed and accuracy.

### **Computer Concepts & Software (10004A001)**

Course Number: BUS 11  
Length of Course: 1 semester (½ credit)  
Grade Level: 9 or 10 is suggested  
Pre-requisite: Keyboarding I

This class is a continuation of Keyboarding I and is designed so that students can learn as much as possible about computers and how they can serve to make lives easier and more enjoyable. Because of the increased use of computers in industry, education, and personal lives, learning how to use these machines efficiently has become a vital skill that students will use for the rest of their lives, regardless of their chosen career. In addition, students will strive to improve communication skills. Business requires that people are able to communicate using a wide variety of methods, including written, oral and nonverbal. Therefore, students will complete several activities designed to increase skill level in each of these areas. Students will explore the five most common business applications of computers during this course: word processing, data base, spreadsheets, presentations (including graphics) and desktop publishing.

### **Advanced Computer Concepts (10005A001)**

Course Number: BUS 25  
Length of Course: 1 semester (1/2 credit)  
Grade Level: 10-12  
Pre-requisite: Computer Concepts & Software

Students will learn advanced formatting techniques, concentrating on developing skills that will enable them to develop skills for entry-level positions in the job market. The course will cover desktop publishing, graphic design, financial planning, advanced computer skills, and 3D printing. Students will be using Microsoft Office and Sketchup. Even if you have taken Information Processing, you may still take Advanced Computer Applications

### **Accounting I (12104A001)**

Course Number: BUS 30A, BUS 30B  
Length of Course: 1 semester ( ½ credit)  
Grade Level: 10-12  
Pre-requisite: None

Accounting I is a skill level course that is of value to all students pursuing a strong background in business, marketing, and management. This course includes planned learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying, and maintaining numerical data involved in financial and product control records including paying and receiving of money.

### **Business & Technology Concepts (12001A001)**

Course Number: BUS 31A, BUS 31B  
Length of Course: 1 year (1 credit)  
Grade Level: 10-12  
Pre-Requisites: None  
Note: Fulfills the consumer education requirement

This is a course designed to help students look at their role in the free enterprise economic system. The class will focus on the role of the individual in our economy and the economic and business decisions that each person must make in everyday life. The class also will discuss types of business organization and the influences business has on the individual.

### **Web Design (10201A001)**

Course Number: BUS 21A, BUS 21B  
Length of Course: 1 semester ( ½ credit)  
Grade Level: 10-12  
Pre-requisite: None

This course teaches the basics of web page development using industry standard programs called Dreamweaver, Flash, and Adobe Photoshop. These programs will allow students to create websites in an easier graphic environment. When completed, students will be able to create a website from beginning to end, including posting on the internet. The second part of the course will focus on multimedia concepts using programs, such as, iMovie, Garageband, Adobe Photoshop and Final Cut Express. We will be focusing on creating movies, music, commercials, podcasts (audio and video) and many short video clips. Class is limited to 10 students a year.

### **Resource Management & Planning**

Course Number: FCS 33  
Length of Course: 1 semester ( ½ credit)  
Grade level: 11-12  
Pre-requisites: None

This course focuses on the identification and management of personal and family resources to meet the needs, values, and wants of individuals and families throughout the life cycle. The course utilizes a variety of project - based experiences and service learning opportunities to gain knowledge and expertise in understanding and applying management skills, with consideration to diverse social, economic, technological, environmental, and cultural characteristics of individuals and families. Topics include: consumer rights and responsibilities in the marketplace; financial responsibility and decision making; planning and money management; credit and debt; risk management and insurance; saving and investment; homeownership; state and federal taxes; electronic banking; and current issues in the economy. This course meets the content requirements for consumer education instruction as required by the School Code of Illinois (Section 27-12.1).

## FINE ARTS

### **Art I (05154A000)**

Course Number: FIN 10A, FIN 10B  
Length of Course: 1 year (1 credit)  
Grade Level: 9-12  
Pre-requisite: None

This studio course is designed to give students a basic understanding and appreciation for art as it will be encountered on the high school level. Art I will give students the background necessary to appreciate visual art, participate in the creation of visual art, and/ or seek further training for a career in the visual arts. Art I is planned to meet the needs of students of all artistic ability levels. The course emphasizes development of the creative thought process. Students will be given a sense of art history, through discussion and showing of visuals that relate to the studio projects they are working on. A variety of units will be taught, including drawing, painting, printmaking, sculpture, ceramics, and weaving.

### **Art II (05154A000)**

Course Number: FIN 20A, FIN 20B  
Length of Course: 1 year (1 credit)  
Grade Level: 10-12  
Pre-requisite: Art I

This studio course is planned so that students will learn additional techniques and creative thought processes as well as new applications for the skills and concepts learned in Art I. This will result in students having larger repertoires of responses for solving creative problems, and having a greater understanding and appreciation of the visual arts. Students who have successfully completed Art I will have the background knowledge and skills necessary for this course. The content of Art II will focus on the understanding and use of various aspects of two and three-dimensional art and art history, and will include drawing, painting, printmaking, sculpture, ceramics, and weaving.

### **Art III (05199A000)**

Course Number: FIN 30A, FIN 30B  
Length of Course: 1 year (1 credit)  
Grade Level: 11-12  
Pre-requisite: Art II and permission of the instructor

This studio course will require that students play a large role in setting the educational goals that are necessary for their continued growth in the visual arts. Students who have successfully completed Art I and Art II will have the background knowledge and skills necessary for this course. This is an independent study course. Students will be expected to have good time management skills, as well as the ambition to complete their work with high quality. Specific goals and assignments will be worked out on an individual basis between student and instructor. New techniques will be taught as needed, and creative exploration of ideas and techniques will be strongly encouraged. At the end of the year student will present a portfolio of their work to be graded.

**Art IV (05199A000)**

Course Number: FIN 40A, FIN 40B  
Length of Course: 1 year (1 credit)  
Grade Level: 12  
Pre-requisite: Art III and permission of the instructor

This studio course is designed to develop and encourage the artistic ability and interests students have gained in Art III and earlier art courses. This course will require that students play a large role in setting the educational goals that are necessary for their continued growth in the visual arts. This is an independent study course. Students will be expected to have good time management skills, as well as the ambition to complete their work with high quality. The Art IV curriculum is planned to encourage individual exploration of a variety of concepts and media. Students will learn to develop an individual plan of study; produce visual artworks; analyze, interpret and evaluate works of art; and gain an understanding of the creative expression of other periods and cultures. There will be a major emphasis on the development of a portfolio.

**Art V (05199A000)**

Course Number: FIN 50A, FIN 50B  
Length of Course: 1 year (1 credit)  
Grade Level: 12  
Pre-Requisite: Taken in conjunction with Art IV and permission of the instructor

This studio course is designed to develop and encourage the artistic ability and interests students have gained in Art IV and earlier art courses. This course will require that students play a large role in setting the educational goals that are necessary for their continued growth in the visual arts. This is an independent study course. Students will be expected to have good time management skills, as well as the ambition to complete their work with high quality. The Art V curriculum is planned to encourage individual exploration of a variety of concepts and media. Students will learn to develop an individual plan of study; produce visual artworks; analyze, interpret, and evaluate works of art; and gain an understanding of the creative expression of other periods and cultures. There will be a major emphasis on the development of a portfolio.

**Graphic Arts (05162A000)**

Course Number: FIN 11A, FIN 11B  
Length of Course: 1 year (1 credit)  
Grade Level: 9-12  
Pre-requisite: None

This course is designed to explore the possibilities of the computer as a design tool. Students will learn the use of today's industry standard graphic software and their uses in today's job market. Students will gain an understanding of the graphic design profession. Students will discuss and practice good design elements and principles and apply them to page layouts and other design projects. Keyboarding and/or art skills would be helpful, but are not required.

**Band (05103A000)**

Course Number: FIN 12A, FIN 12B  
Length of Course: 1 year (1 credit)  
Grade Level: 9-12  
Pre-requisite: None

The purpose of this course is to build an appreciation of music and the fine arts. The student will achieve this through instruction on his or her musical instrument. Students will participate in concert band, marching band, pep band, and small group ensembles. Students also participate in Dinner Theater.

**Chorus (05110A000)**

Course Number: FIN 13A, FIN 13B  
Length of Course: 1 year (1 credit)  
Grade Level: 9-12  
Pre-requisite: None

This is a course designed to provide an atmosphere for the enjoyment, appreciation, and performance of all types of choral music. The instruction and improvement of voice quality, intonation, ability to read music, and overall development of musicianship is stressed while learning pieces of music. The Chorus performs at many events throughout the year: Fall Follies, Winter Concert, Dinner Theater, Spring Concert, Organizational Contest, Baccalaureate, as well as other special events. Attendance at these performances is a course requirement.

## FOREIGN LANGUAGE

### **Spanish I (06101A000)**

Course Number: SPN 30A, SPN 30B  
Length of Course: 1 year (1 credit)  
Grade Level: 11-12  
Pre-requisite: Must have a C or better in English classes or permission of the instructor  
Note: Dual credit available

Spanish I is the first of two levels of Spanish offered at OHS. In this course, students will learn the basics of vocabulary, grammar and culture. Vocabulary quizzes are offered on an almost daily basis, so good attendance is vital for success.

### **Spanish II (06102A000)**

Course Number: SPN 40A, SPN 40B  
Length of Course: 1 year (1 credit)  
Grade Level: 12  
Pre-requisite: Spanish I and student must have a C or better in English classes  
Note: Dual credit available

Spanish II is the second level of the two courses offered at OHS. Students will continue to learn vocabulary, grammar, and the culture of Spanish speaking countries. Reading comprehension and speaking ability will be important at this level. Like Spanish I, this course will offer vocabulary quizzes on an almost daily basis, so good attendance is vital for success.

**Note from instructor:** *While Spanish is not required to graduate from Oblong High School, many colleges and universities require at least two years of foreign language before college graduation. High school Spanish often fulfills that requirement. In some instances, Spanish is a college entrance requirement. Students that plan to go to college after high school are encouraged to include Spanish in their coursework during their junior and senior years.*

## LANGUAGE ARTS

### **English I (01001A000)**

Course Number: ENG 10A, ENG 10B  
Length of Course: 1 year (1 credit)  
Grade Level: 9  
Pre-requisite: None

The purpose of this course is to provide instruction, practice and practical application in writing and reading. This includes the following areas and skills: vocabulary, grammar, composition, reading comprehension, and application. This will be done using lecture, student reading, individual and group work, and classroom participation.

### **English II (01002A000)**

Course Number: ENG 20A, ENG 20B  
Length of Course: 1 year (1 credit)  
Grade Level: 10  
Pre-requisite: None

The purpose of this course is to provide instruction, practice and practical application in writing, reading, and oral communication. This includes the following areas and skills: vocabulary, grammar, composition, reading comprehension, and application. This will be done using lecture, student reading, individual and group work, and classroom participation.

### **English III (01003A000)**

Course Number: ENG 30A, ENG 30B  
Length of Course: 1 year (1 credit)  
Grade Level: 11  
Pre-requisite: None

The purpose of this course is to provide instruction, practice and practical application in writing and reading as well prepare students for the ACT. This includes the following areas and skills: vocabulary, grammar, composition, reading comprehension, and application. This will be done using lecture, student reading, individual and group work, and classroom participation.

**English IV (01004A00)**

Course Number: ENG 40A, ENG 40B  
Length of Course: 1 year (1 credit)  
Grade Level: 12  
Pre-requisite: None

The purpose of this course is to provide instruction, practice and practical application in writing, reading, and oral communication. This includes the following areas and skills: vocabulary, grammar, composition, reading comprehension, and application. This will be done using lecture, student reading, individual and group work, and classroom participation.

**Speech (01151A000)**

Course Number: ENG 41A, ENG 41B  
Length of Course: 1 year (1 credit)  
Grade Level: 12  
Pre-requisite: None

A variety of informational and persuasive speeches are prepared and presented in this course. The basics of outlining, using note cards, and preparing visual aids are also emphasized as well as using effective criticism and listening skills.

# MATHEMATICS

## **Algebra I (02052A000)**

Course Number: MTH 11A, MTH 11B  
Length of Course: 1 year (1 credit)  
Grade Level: 9  
Pre-requisite: None

This is a mathematics course designed to build upon the structure of the real number system, its related properties and extensive use of polynomials. Functions and irrational numbers will assist in an applications process.

## **Geometry (02072A000)**

Course Number: MTH 20A, MTH 20B  
Length of Course: 1 year (1 credit)  
Grade Level: 10  
Pre-requisite: Algebra I

This course focuses on the development of theorems and proofs as they relate to plane geometry. Angles, lines, planes and application of their related theorems will be developed. Additional topics such as inductive and deductive reasoning, logic and the  $x, y$  coordinate system will be discussed.

## **Algebra II (02056A000)**

Course Number: MTH 30A, MTH 30B  
Length of Course: 1 year (1 credit)  
Grade Level: 11-12  
Pre-requisite: Geometry

This is an advanced course in the uses of algebra and its applications. The development of the complex number system, permutations, combinations, sequences and series will be included. Trigonometry and its applications will also be used. This course can be taken after Math Concepts.

**Math Concepts**

Course Number: MTH 25A, MTH 25B  
Length of Course: 1 year (1 credit)  
Grade Level: 11-12  
Pre-requisite: Geometry and teacher recommendation

This is a course used in Algebra and its applications. Topics included in this class are polynomials, matrices, trigonometry, inequalities, probability and statistics.

**Advanced Math (0257A000)**

Course Number: MTH 40A, MTH 40B  
Length of Course: 1 year (1 credit)  
Grade Level: 12  
Pre-requisite: Algebra II

This course is a preparation class for calculus and the natural and physical sciences that use advanced mathematics. Trigonometry and probability are also emphasized.

**Calculus I (02121A000)**

Course Number: MTH 41A, MTH 41B  
Length of Course: 1 year (1 credit)  
Grade Level: 12  
Pre-requisite: Algebra II and concurrent enrollment in Advanced Math

This is an advanced course in mathematics for seniors emphasizing such topics as functions, limits, derivatives, applications of differentiation and identifying functions, and inverse functions of the coordinate systems in two dimensions. Integration and three dimensional calculus will be discussed.

## **PHYSICAL EDUCATION & DRIVER EDUCATION**

### **Co-Ed PE (08001A000)**

Course Number: PED 10A, PED 10B  
Length of Course: 1 year (1 credit)  
Grade Level: 9-12  
Pre-requisites: None

The purpose of this course is to provide instruction and practice in activities that promote cardiovascular fitness, strength and agility. This is designed to provide each student with the opportunity to participate in various physical activities and to understand the importance of life-long fitness. This will be done through demonstration, group work, and full class participation.

### **Athletic PE (08001A000)**

Course Number: PED 11A, PED 11B  
Length of Course: 1 year (1 credit)  
Grade Level: 9-12  
Pre-requisites: None

The purpose of this course is designed to enhance the skills of athletes by increasing their cardiovascular and muscular endurance. This course is specifically geared towards students participating in athletic sports to enhance their abilities.

### **Driver Education (08152A000)**

Course Number: DRE 10  
Length of Course: 1 semester (¼ credit)  
Grade Level: 9 or 10  
Pre-requisites: Students must meet the age requirement established for each semester. Also, students must pass 8 or more classes during the 2 semesters prior to enrollment in this course.

The educational objectives of driver education shall include, but not be limited to, promoting respect for and encouraging observances of traffic laws and traffic safety responsibilities of drivers and citizens, reducing traffic violations, reducing traffic-related injuries, deaths and economic losses, and motivating continuing development of traffic related competencies through education, including, but not limited to, Illinois traffic law, risk management, driver attitudes, courtesy skills, evasive driving techniques and informing participants about the effects of alcohol and other drugs on their driving ability.

### **Health Education (08051A000)**

Course Number: HEA 10  
Length of Course: 1 semester (½ credit)  
Grade Level: 9 or 10  
Pre-requisites: None

The mission of this course is to ensure students at Oblong High School are prepared to make educated decisions concerning their health and wellness. Topics covered in this course vary widely, but typically include person health (nutrition, mental health, stress management, drug/alcohol abuse and prevention, disease prevention and first aid) and consumer health issues. This course may include brief studies of environmental health, personal development and/or community resources. We will continually transform and adjust our curriculum to reflect the needs and challenges of an ever-changing world.

## SCIENCE

### **Physical Science (03159A000)**

Course Number: SCI 11A, SCI 11B

Length of Course: 1 year (1 credit)

Grade Level: 9 or 10

Pre-requisite: None

Note: Appropriate for students before taking Biology I or after Life Science. This class is not intended to be taught to students after taking Biology I.

The purpose of this class is to introduce students to concepts surrounding the physical world. Aspects of Physical Science, such as motion, force, matter, elements, astronomy and weather will be examined closely along with other relevant topics.

### **Biology I (0351A000)**

Course Number: SCI 12A, SCI 12B

Length of Course: 1 year (1 credit)

Grade Level: 9-12

Pre-requisite: None

Note: Appropriate for freshman who plan on taking Chemistry/Physics I their sophomore year. Students who do not plan on taking Chemistry should take Physical Science as a freshman then advance to Biology I.

This is a survey of the Biological Sciences. Topics covered include botany, cell biology, genetics, ecology, and an overview of the Kingdom Animalia. Invertebrate animals will be studied and dissected. A leaf collection will be required. Additionally, many experiments and laboratories using preserved specimens, microscopes, and lab equipment will be employed. This course is designed for the student seeding post secondary education. It is also a pre-requisite for Biology II, which picks up where this course leaves off.

### **Chemistry/Physics I (03101A000)**

Course Number: SCI 31A, SCI 31B

Length of Course: 1 year (1 credit)

Grade Level: 10-12

Pre-Requisite: None

Note: Appropriate for students the year after Biology I.

This is a laboratory science course teaching the fundamentals of chemistry and physics. The class will focus on matter, atoms, measurements, periodic law, bonding, formulas, reactions and stoichiometry. In addition, the course will introduce velocity, acceleration and force.

**Biology II (03052A000)**

Course Number: SCI 30A, SCI 30B  
Length of Course: 1 year (1 credit)  
Grade Level: 11 or 12  
Pre-requisite: Biology I

This is an advanced survey of the Biological Sciences. This course picks up where Biology I left off. Topics will include: cellular metabolism, genetics, DNA, vertebrates, and human anatomy and physiology. This course is designed for college bound students interested in science. Several collection, dissections, and projects will be involved in this course throughout the year.

**Chemistry/Physics II (03151A000)**

Course Number: SCI 31A, SCI 31B  
Length of Course: 1 year  
Grade Level: 11 or 12  
Pre-requisite: Chemistry/Physics I  
Note: Dual credit available

This is an advanced survey of the Physical Sciences. This course picks up where Chemistry/Physics I left off. Topics will include: vectors, momentum, energy, thermal energy, universal gravitation, states of matter, acids and bases. This course is designed for college bound students interested in science.

**Advanced Topics in Science (03201A000)**

Course Number: SCI 40A, SCI 40B  
Length of Course: 1 year  
Grade Level: 12  
Pre-requisite: Biology I, Chemistry/Physics I, and either Biology II or Chemistry/Physics II

This course is designed for advanced level science students who are seeking a post-secondary education in a science related field. Topics vary from year to year based on the need and desire of the students. Some topics that are covered include Microbiology, Forensics, and Organic Chemistry. Astronomy, and Cat Dissection. Many hands on activities, projects, and laboratories are completed during this course.

*Please be aware of the following concerning graduation requirements. Courses that fulfill the life science requirement are Life Science, Biology I, and Biology II. Courses that fulfill the physical science requirement are Physical Science, Chemistry/Physics I, and Chemistry/Physics II.*

## SOCIAL SCIENCES

### **American History (04101A000)**

Course Number: SOC 30A, SOC 30B  
Length of Course: 1 year (1 credit)  
Grade Level: 11  
Pre-requisite: None

American History, required of all juniors, is a full year course covering the Colonial Period to the present time. The study includes the U.S. and Illinois Constitutions and the Flag Code.

### **World History (04051A000)**

Course Number: SOC 11A, SOC 11B  
Length of Course: 1 year (1 credit)  
Grade Level: 9-12  
Pre-requisite: None

World History emphasizes understanding the present by studying the past. This course is a survey of important historical periods, events, and trends with special emphasis on 20<sup>th</sup> century history. While this course is taught through a variety of methods including readings, videos, discussions, worksheets, etc., it is heavily lecture-based. Students should be prepared to use note-taking skills.

### **World Geography (04001A000)**

Course Number: SOC 10A, SOC 10B  
Length of Course: 1 year (1 credit)  
Grade Level: 9-12  
Pre-requisite: None

The purpose of this course is to introduce the student to various countries through a survey of the geographic, economic, political, and social characteristics of these countries.

**Psychology (04254A000)**

Course Number: SOC32  
Length of Course: 1 semester ( ½ credit)  
Grade Level: 11-12  
Pre-Requisite: None

This course introduces students to the major theories and concepts in psychology. Topics covered include the approaches and research methods of psychology, child and adolescent development, the biological basis of behavior, sensation and perception, learning and memory, consciousness, motivation and emotion, intelligence, personality, social psychology, and mental illness.

**Sociology (04258A000)**

Course Number: SOC30  
Length of Course: 1 semester (½ credit)  
Grade Level: 11-12  
Pre-Requisite: None

This course introduces students to the basic principles and concepts of sociology. Topics covered include culture, socialization, social structure, groups, social processes, and social change. Other issues addressed are social deviance, cultural diversity, adolescent and adult roles in society, and more.

## VOCATIONAL EDUCATION

### **Auto Mechanics I & II (20104A001/20104A002)**

Course Numbers: TWR 30A, TWR 30B (1<sup>st</sup> year) TWR 40A, TWR 40B (2<sup>nd</sup> Year)  
Length of Course: 1 year (2 credits)  
Grade Level: 11-12  
Pre-requisite: None

This course is for the student who has a desire to learn the auto mechanic trade. This class is a two hour class. OHS students are transported to Robinson High School for classroom and laboratory instruction.

### **Building Trades I & II (17002A001)**

Course Numbers: TWR 31A, TWR 31B (1<sup>st</sup> year) TWR 41A, TWR 41B (2<sup>nd</sup> Year)  
Length of Course: 1 year (2 credits)  
Grade Level: 11-12  
Pre-requisite: None

Students will learn the construction trade. During the course of the year students build a house. This is a two hour class. OHS students are transported to Robinson High School for classroom and laboratory instruction.

### **Child Day Care Services I & II (19054A001)**

Course Numbers: TWR 32A, TWR 32B (1<sup>st</sup> year) TWR 42A, TWR 42B (2<sup>nd</sup> Year)  
Length of Course: 1 year (2 credits)  
Grade Level: 11-12  
Pre-requisite: None

This course is designed to provide students interested in a career in child and day care operations with information and practical experiences for the development of job-related competencies. Students will be provided laboratory experiences either in a school-based or extended campus facility. Students will be expected to develop appropriate skills in program development and in assisting with children and/or adult activities. Classroom study is concerned with the philosophy and management of care centers and the state and local regulations governing care-giving operations. The main learning experience will involve actual work with children/adults in situations that simulate those found in business and industry, as well as preparation for that activity. This is a two hour class. OHS students are transported to Robinson High School for classroom and laboratory instruction.

**Health Occupations I (14051A001)**

Course Numbers: TWR 33A, TWR 33B  
Length of Course: 1 year (2 credits)  
Grade Level: 11 or 12  
Pre-requisite: Student must have a desire to enter the health care field and have a good attendance record.

This course provides a planned learning experience and activities designed to provide sound, basic instruction and actual clinical experiences in various health occupations and situations. Health care skills for supporting and assisting individuals and families are introduced. This course meets the Illinois Department of Public Health nursing aide certification requirements. Students, who upon high school graduation seek employment in a health-related occupation, will be able to develop saleable skills. It will also prepare students who wish to further their education in nursing, physical, radiation, occupational, and respiratory therapies as well as medical technology. Each student will also be certified in CPR within the class curriculum. Visitation to various health-related facilities is included. This is a two hour class.

**Welding I (13207A001/13055A001)**

Course Numbers: TWR 34A, TWR 34B  
Length of Course: 1 year (2 credits)  
Grade Level: 11 or 12  
Pre-Requisite: None

Fall Semester the welding students take WEL 1201 Basic Welding-This course introduces basic welding, equipment, provides students with lab experience and performing basic welding skills.

Spring Semester the welding students take WEL 1260 Combination Welding I-A combination of introductory level lectures and laboratory activities in gas metal arc welding, shielded metal arc welding, fuel gas welding, brazing and cutting. One classroom hour per week. Two lab hours per week.