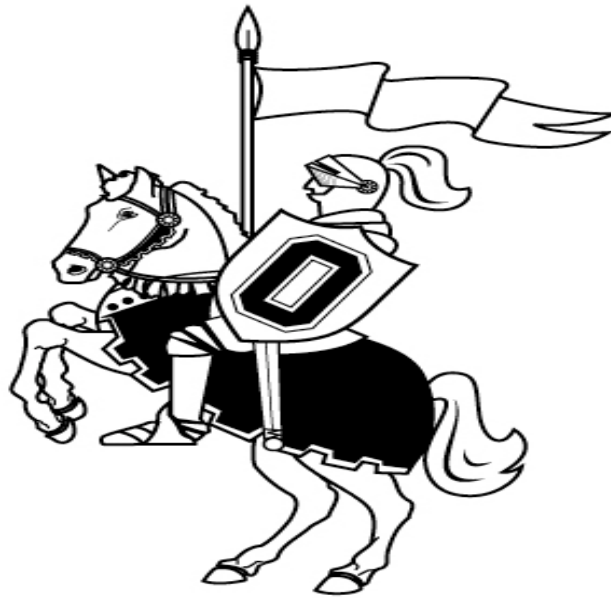


OTSEGO HIGH SCHOOL



PROGRAM OF STUDIES 2010-2011

Student Name _____

*The entire Program of Studies can be found on our website:
www.otsegoknights.org*

OTSEGO HIGH SCHOOL

MISSION STATEMENT

PREPARATION

Our primary commitment is to prepare students for college, career, and life after graduation.

PARTNERSHIP

We will use partnerships between students, staff, and community to fulfill our commitment.

PRIDE

Our mission will further enhance the pride that exists in the Otsego Schools and community.

PROGRAM OF STUDIES

PURPOSE OF BOOKLET

This booklet is designed to assist each student in the selection of the course of study that will help him/her earn the requirements towards graduation and to help plan for his/her future career. In choosing classes, each student should consult with the school staff and his/her parents to plan course selections. Each student should also choose a Career Cluster before selecting the courses he/she wants to take next school year.

MASTER SCHEDULE

Students and parents should be aware of the procedure used to develop a master schedule. This schedule is developed annually after knowing what courses are to be taught and the number of students interested in each course. Each year, students, parents, and counselors are involved with scheduling of students into the next grade level. A great deal of time and thought should be used in making these decisions since the following year's master schedule is based upon the results of these selections. If students want to change their schedules at a later date, it may be difficult to accommodate. By carefully selecting courses now, students may have the courses they want and may avoid future scheduling problems.

Course Request sheets must be completed and returned by the second Friday in March. Adding and/or dropping classes must be done on or before the first Friday in June. – a Request for Schedule Change form must be completed to do so. Schedule changes after this time are generally not permitted - to be considered, a Request for Schedule Change form must be filled out and special approval acquired from the principal. **Students accepted to Penta and who decide after the first Friday in June to NOT enroll there must attend classes at Penta for the first ten (10) school days before returning to OHS.**

Students should be certain to schedule all required courses for their grade level before selecting elective courses. **Students should also have met the prerequisites before selecting the next level of course sequence. Registration for next year is based on the student's performance at the end of first semester. If a student does not meet the prerequisite for a class, he/she cannot register for the class.** However, if the student does meet the prerequisite by the final year-end grade, the class may be added to the schedule by contacting the student's counselor. Regardless of your grade classification, all required courses should be selected first to insure completion of graduation requirements.

Freshmen and sophomores shall schedule at least seven periods of classes every day (in an eight period day). Juniors and Seniors shall schedule at least six periods of classes every day (in an eight period day). The remaining period(s) may be scheduled as a study hall and/or as a Student Aide. Students may not take a class two or more times in a semester (e.g. 815/816 Weight Training cannot be scheduled twice in the same semester).

Credit will be awarded only for successful completion of a year's study in a course. Semester credit is not given except in courses that are identified as semester courses.

ATHLETIC ELIGIBILITY

To be eligible for athletics, the student must receive passing grades in a minimum of five one-credit courses or the equivalent, which counts towards graduation for the preceding nine weeks period. Also, students must obtain at least a 1.5 grade point average quarterly to participate in athletics.

What It Takes to Earn an Ohio Diploma

Graduating Classes of 2014 and Beyond

Students must meet both testing requirements and curriculum requirements in order to earn a diploma. These requirements apply to students entering their freshman year in 2010 and beyond. See the two checklists below for more information about these two diploma requirements. The third section provides information about an alternative way to meet the testing requirements.

I. Curriculum Requirements

STATE ADDITIONAL CREDITS CREDITS HONORS

CURRICULUM REQUIREMENTS MINIMUM LOCAL CREDITS EARNED TO DATE REMAINING DIPLOMA CREDITS

English language arts 4 units _____

Health _ unit _____

Mathematics 4 units¹ _____

Physical education _ unit² _____

Science 3 units³ _____

Social studies 3 units⁴ _____

Electives 5 units⁵ _____

Other requirements⁶

Economics and

financial literacy⁶ Requirement met in _____ class/grade level.

Fine arts⁶ Requirement met in _____ class/grade level.

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

² The Ohio Core allows school districts to adopt a policy that would exempt students who participate in interscholastic athletics, band or cheerleading for two full seasons from the physical education requirement. Students must take another course of at least 60 contact hours in its place.

³ Science units must include 1 unit of physical sciences, 1 unit of life sciences and 1 unit advanced study in one or more of the following sciences: chemistry, physics, or other physical science; advanced biology or other life science; astronomy, physical geology, or other earth or space science.

⁴ Social studies units must include _ unit of American history and _ unit of American government.

⁵ Electives units must include one or any combination of foreign language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required.

⁶ All students must receive instruction in economics and financial literacy during grades 9-12 and must complete at least two semesters of fine arts taken any time in grades 7-12. Students following a career-technical pathway are exempted from the fine arts requirement.

II. Graduation Tests Requirements

For Students Who Need to Pass the Ohio Graduation Tests (OGT):

A) Notify student and parents about:

Importance of earning a diploma;

Need to meet both testing and curriculum requirements to earn a diploma;

Any additional local graduation requirements;

District's policy about participation in commencement ceremony.

Source: Ohio Department of Education (Rev. Jan. 6, 2009)

B) How to access information (e.g., test blueprints, previous tests) on the Web about OGT:

<http://education.ohio.gov> and search keyword: *OGT*.

C) OGT test administrations before graduation:

Spring of 10th grade

Summer between 10th and 11th grade (optional)

Fall and spring of 11th grade

Summer between 11th and 12th grade (optional)

Fall and spring of 12th grade

D) To access previous graduation tests, go to <http://education.ohio.gov> and search keywords: *previous OGT tests*.

III. Alternative Way to Meet the Testing Requirements

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

Passes four of the five tests and has missed passing the fifth test by no more than 10 points;

Has a 97 percent attendance rate, excluding any excused absences, through all four years of high school and must not have had an expulsion in high school;

Has at least a grade point average of 2.5 out of 4.0 in the courses of the subject area not yet passed;

Has completed the high school curriculum requirement;

Has participated in any intervention programs offered by the school and must have had a 97 percent attendance rate in any programs offered outside the normal school day; and

Has letters recommending graduation from the high school principal and from each high school teacher in the subject area not yet passed.

NOTE: As specified in the Ohio Revised Code (Section 3313.615), this alternative way to meet the testing requirement applies only to students graduating after Sept. 15, 2006. Source: Ohio Department of Education (Rev. Jan. 6, 2009)

New Graduation Requirements

Subject	Credits Required		Notes
	Current	Class of 20	
English Language Arts	4	4	
Health			
Mathematics	3	4	Algebra II or Equivalent
Physical Education			Students May be Exempt
Science	3	3	Must include on Physical Life and Advanced Course Inquirybased
Social Studies	3	3	American History American Government Financial Literacy
Electives	6	5	
Fine Arts	0	0*	Two Half Units Required

OTSEGO HIGH SCHOOL FLEX CREDIT PROGRAM

The high school offers a special “flexible” plan for students to earn credits for graduation. All credits earned through the *Flex Credit* program will receive a letter grade or P/F (depending on committee approval), will be calculated as part of the accumulated grade point average, and will appear on the final transcript. There are three possible uses of the *Flex Credit* program:

- **Flex Recovery** – Students may use the program to make-up classes they have not passed in order to recover credits needed for graduation. Flex Recovery plans could include correspondence classes, on-line course work, or classes offered by other school districts’ credit recovery programs.
- **Flex Out** – Students may use the program to “test out” of a class or classes in the Otsego curriculum if the student feels prepared to move on to a higher level. Flex Out plans will require the student to demonstrate at least a proficient level of achievement on all course standards, outcomes and objectives, as demonstrated by the student’s results on all course assessments and projects.
- **Flex Advance** – Students may work with high school staff and other educators to plan advanced course work that is not available in the regular Otsego High School curriculum. Flex Advance plans will require student work of a challenging nature, including reading, study, projects, demonstrations, and assessments.

Flex Credit Program – General Regulations and Guidelines

1. All flex credit courses will be planned for one-half credit or one full credit (Phys. Ed is .25 credit). The student must initiate the request for a Flex Out or Flex Advance plan in the months of May or December. Flex Recovery plans may be initiated at any time.
2. The student will, in conjunction with school staff, develop a written plan that will clearly state the requirements that must be met for credit to be earned. This may include, but is not limited to, written reports, log books, resources, special projects, demonstrations, workbooks, and summative assessments. The plan must be approved and signed by all parties, including student, parent, teacher or faculty committee, and guidance counselor or principal.
3. All flex credit work will be graded and entered on the student transcript as part of the accumulated grade point average and official record. Flex credit grades will not be weighted unless this is clearly stated in the written plan approved by all parties.
4. All costs for flex credit classes will be borne by the student. Students will be able to use school materials at no cost if the materials are already available.
5. There will be no limit to the number or type of credits earned through the Flex Credit Program.
6. Students will be required to continue to attend Otsego High School for the full day unless release time is part of the approved written plan.
7. Students working on flex credits are still required to meet Otsego and OHSAA eligibility standards in order to participate in inter-scholastic athletics.
8. Unless otherwise stated above, all regulations, criteria and guidelines listed in the Otsego High School Curriculum Guide, the Otsego High School Student Handbook, and the Otsego Local Schools Board Policy Book apply to flex credit classes and the Flex Credit Program.

How to Apply for a Credit Flexibility Program:

1. Receive Credit Flexibility Packet from Guidance and complete the agreement. Return the proposal to guidance when completed.
2. A conference must be scheduled to evaluate the proposal and be signed by the student, parent/guardian, teacher of record, and counselor/principal.
3. Signed/Approved Proposal must be turned in to the student’s counselor in Guidance prior to the end of the May/December deadline of the semester when the flex plan will take place.
4. Student is responsible for completing all assignments agreed upon in the Plan for Assessment to Receive Grades in order to receive a grade and credit. Failure to do so will result in an F for the class.

REQUIREMENTS FOR PROMOTION

Assignment to Grade 9	---
Assignment to Grade 10	5 units
Assignment to Grade 11	10 units
Assignment to Grade 12	15 units
High School Graduation	21 units

Note: Students who do not attain the required units will be considered “credit deficient,” that is, those students that haven’t acquired the number of units needed for promotion to the next grade level may not have enough credits to graduate with their class. To clarify, students who finish their freshman year with less than 5 units will be classified as a “credit deficient sophomore” for the next school year or until the required units are obtained (e.g. through summer school).

GRADUATION REQUIREMENTS

1. Units required:

English	4 units
Science	3 units (must include Physical Science, and Biology or Int. Science 2)
Social Studies	3 units (must include U.S. Studies, Global Studies, Gov./Economics)
Mathematics	4 units (1 Unit of Algebra II)
Health	_ unit
Physical Education	_ unit
Changes & Choices	_ unit
Electives	6 _ units*
<hr/>	
Total	21 units

*Includes one (1) unit or two (2) half units from the areas of Business/Technology, Fine Arts (e.g. music, art, theatre), or Foreign Language.

2. All students will need to pass all sections of the Ohio Graduation Test (OGT). These five tests (Writing, Math, Reading, Science, Social Studies) will be given for the first time during their sophomore year.

No more than one unit within the required twenty-one may be made up of credits of less than _ unit value. For example, one can take phys. ed. four times for credit toward graduation; the fifth time does not count toward graduation.

GENERAL INFORMATION

POST-SECONDARY ENROLLMENT OPTIONS PROGRAM (PSEOP)

The Post-Secondary Enrollment Options Program (PSEOP) allows academically talented students in grades 9-12 to enroll in college courses for high school and/or college credit at area colleges and universities. The purpose of the program is to promote rigorous academic pursuits and to provide a wider variety of options to high school students. The post-secondary institution must accept the student in order to participate.

To ensure a quality and successful experience for students, the colleges and universities have established the following requirements for eligibility to participate. Applicants must:

1. Complete a form indicating that the student and his/her parent or guardian have attended the required meeting with the high school guidance counselor. **This meeting takes place on or before the second Monday in March (7:00 pm). The form must be submitted by the last Friday in March.**
2. Submit a completed application for the Post-Secondary Enrollment Options Program.
3. Have achieved at least a 3.0 cumulative Grade Point Average on a 4.0 scale in the subject area at the time of enrollment. Some area colleges and universities have a minimum 3.5 cumulative G.P.A. in order to be considered for their program. You must check with each school to determine their minimum grade point average.
4. Agree to abide by all of the policies and procedures of the college and universities specific to this program.

Admission to PSEOP is selective. Upon submission of all documents noted above, applicants are evaluated for acceptance into the program. Continued enrollment in the program is based on successful completion of course work in the program, while meeting university/college standards for continuation. The program has two options:

- Option A A student may enroll for college credit only and the student is responsible for paying tuition, fees, and books.
- Option B A student enrolls for high school and college credit, and the tuition, fees, and books are paid for by the Otsego Local School District (students may be required to pay for certain nonconsumable items). **The failure of a course must be paid by parents to the School Board.**

This program is available only during the regular academic year, and the credit earned for the year cannot exceed the number of academic periods (8) at Otsego.

All credits must be pre-approved by the high school administration. High school credit will be awarded based on the following scale:

- 5 Semester Hrs. = 1 credit
- 4 Semester Hrs. = .8 credits
- 3 Semester Hrs. = .6 credits
- 2 Semester Hrs. = .4 credits
- 1 Semester Hrs. = .2 credits

The number of “in house” and “out of school” periods a PSEOP student will be scheduled for will be determined by the following table:

College credit hours*-	1	2	3	4	5	6	7	8	9	10	11	12	13
# of periods at OHS -	7	7	6	5	5	4	4	3	2	2	1	1	0
# of periods at PSEOP -	1	1	2	3	3	4	4	5	6	6	7	7	8

* semester hours

Note: A lunch period is not included in the above table

PROFICIENCY TESTING /ACT/SAT/PSAT/PLAN SCORES

These scores will appear on the student’s official transcript.

STATE AWARD OF MERIT

The requirements listed below have been adopted for the “Award of Merit.” This certificate will be awarded by the State Board of Education to all those who meet the criteria specified in **A and C or B and C below**.

A. College Prep Requirements – complete the following minimum requirements

1. English – 4 units
2. Mathematics – 3 units
3. Science – 3 units (must include 2 units from biology, chemistry, and physics)
4. Social Studies – 3 units
5. Foreign Language – 3 units (must include no less than 2 units of any one language for which credit is sought)
6. Complete 2 units from one or more of the following, or 2 additional units from one or more of the areas listed A.1 through A.5 above.
 - a. Business
 - b. Computer Science
 - c. Visual or Performing Arts

B. Career-Technical Curriculum Requirements

1. Complete a career technical occupational preparation program
2. Complete the following curriculum requirements
 - a. English- 4 units
 - b. Mathematics- 3 units
 - c. Science- 2 units
 - d. Social Studies- 3 units

Applied academic credits earned via career-technical education shall apply to the criteria for the “Award of Merit.”

3. Complete two units from one or more of the following, or two additional units from one or more of the areas listed in B.2 above.
 - a. Business
 - b. Computer Science
 - c. Foreign Language
 - d. Visual or Performing Arts

C. Performance Criteria (applies to both curricula)

1. Maintain above a 93% attendance average for grades nine through twelve
2. Demonstrate outstanding achievement in the curriculum as evidenced by one of the following: earning the equivalent of an overall grade point average of 3.25 on a four point scale for grades nine through twelve; earning the equivalent of an overall grade point average of 3.5 on a four point scale for grades eleven and twelve; or ranking in the top 25 percent of the class, whichever is more inclusive.
3. Participate in co-curricular, extracurricular or community activities in accordance with procedures established by the district board of education.
4. Demonstrate outstanding citizenship/character traits in accordance with criteria established by the district board of education.

CLASS CREDIT/CLASS RANK

Class credit will be issued at the conclusion of a course if the student receives a passing grade in that course. Class rank will be calculated and determined at the end of each semester. Class rank at the end of senior year (eight semesters) will determine valedictorian/salutatorian – the student(s) ranked #1 in the class will become the valedictorian(s) of the class and the student(s) ranked #2 in the class will become the salutatorian(s) of the class.

WEIGHTED GRADING SCALE

The purpose of the weighted grading scale is to encourage students to take more difficult courses at the upper levels. In this system, a student can take a more difficult course, receive a lower grade, and still not ruin his/her grade point average. Weighted-scale courses require more out-of-class work and are more difficult than the rest of the offerings.

The following weighted grading scale will be used for Calculus, Physics, and English 142:

A = 4.5 B = 3.5 C = 2.5 D = 1.5 F = 0

All other courses in the curriculum are on the following traditional scale:

A = 4.0 B = 3.0 C = 2.0 D = 1.0 F = 0

MINIMUM CORE REQUIREMENTS FOR COLLEGE PREPARATION

The Ohio Board of Regents and the Ohio Department of Education have issued the following recommended high school curriculum for the college bound student. Most universities are requiring the students who wish to be admitted on an unconditional basis to have successfully completed the following college preparation curriculum:

English	4 units
Social Studies	3 units
Math	3 units (including a course senior year or the four years of integrated math)
Science	3 units
Foreign Language	2 units
The Arts	1 unit

A student admitted to a college on a conditional basis will be required to fulfill some criteria during a given time. For example, a student who has no foreign language credits in high school may be required to take a foreign language during their freshman year in college.

Some programs may require more extensive preparation in specific subject areas. Check with your guidance counselor and the state university of your choice for additional information.

To enhance your chances for admission to the university and academic program of your choice, you are encouraged to take the most rigorous curriculum available at your school.

Comparison of Diplomas with Honors Criteria

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

Subject	High School Academic Diploma with Honors Graduating Classes 2010 and Before	High School Academic Diploma with Honors Graduating Classes 2011 and Beyond	Career-Technical Diploma with Honors for Graduating Classes 2010 and Before	Career-Technical Diploma with Honors for Graduating Classes 2011 and Beyond
English	4 units	4 units	4 units, which may include one unit of applied communication	4 units
Mathematics	3 units, including Algebra I, Geometry, Algebra II or a three-year sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content	3 units, including Algebra and Geometry, or a sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
Science	3 units, which develop the concepts for physical, life, and earth and space sciences	4 units, including physics and chemistry	3 units, which develop the concepts for physical, life, and earth and space sciences	4 units, including physics and chemistry
Social Studies	3 units	4 units	3 units	4 units
Foreign Language	3 units, including at least 2 units in each language studied	3 units, including at least 2 units in each language studied	2 units, or 2 units of business/technology, or one unit each	Not counted toward requirements
Fine Arts	1 unit	1 unit	May be counted toward requirements under Electives	Not counted toward requirements
Career-Technical	Not counted toward requirements, and may not be used to meet requirements	Not counted toward requirements, and may not be used to meet requirements	3 units in the vocational or technical education curriculum	Now counted in Electives
Electives	Either 1 unit of business/technology and 2 units of above or 3 units of the above subject, not including career-technical	Not counted toward requirements	2 units of above categories, including fine arts	4 units of Career-Technical minimum. Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post secondary credit.
Grade Point Average	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT Score [excluding scores from the writing sections]*	27 ACT / 1210 SAT	27 ACT / 1210 SAT	27 ACT / 1210 SAT	27 ACT / 1210 SAT
Additional Assessment	Not applicable	Not applicable	Complete a career passport that reflects achievement of the occupational proficiency benchmark established for the Ohio vocational competency assessment or the equivalent	Achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment or equivalent

*Writing sections of either standardized test should not be included in the calculation of this score.

Diploma with Honors requirements pre-suppose completion of all high school diploma requirements in Ohio Revised Code including:
 _ unit physical education**, _ unit health, _ unit in American history, _ unit in government
 cheerleading for two full seasons from the physical education requirement.

**SB 311 allows school districts to adopt a policy exempting students who participate in athletics, marching band or

Penta Career Center
Career-Technical Programs For High School Students
2010/2011

Penta Career Center
9301 Buck Road
Perrysburg, Ohio 43551
419-666-1120
www.pentacareercenter.org

Our History

Since 1965, Penta Career Center has provided career-technical training programs for high school students in our member school communities. For 43 years Penta was located on Oregon Road (next to Owens Community College). In 2008 a new era began for Penta when it opened a new, 522,000 square-foot school at 9301 Buck Road in Perrysburg Township. The school is expanded not only in size but, more importantly, in terms of curriculum and scope of services. Penta provides innovative career-technical programs, expanded academic courses, and enhancements to traditional programs. Some highlights of the new school include: professionally-designed career-technical labs, science labs, and academic classrooms; a 600-seat auditorium; state-of-the-art infrastructure for technology; an expanded media center; and conferencing facilities.

About Penta and Career-Technical Education

Penta offers a focused, career-oriented education for students who wish to achieve success in a chosen career, in college, in the military, or wherever their paths may lead. In addition, students learn what is expected in the world of work. Students at Penta benefit from hands-on training in programs grouped under 14 career fields. Penta follows the **Career Field Concept** that has been developed by the Ohio Department of Education which provides “both broad and specialized technical content standards that serve as a framework for curriculum, instruction, assessment, and program design” (Source: Ohio Career Field Initiative). This concept aligns with national efforts to improve the delivery of career-technical education and academic study to adapt to the workforce needs of our global economy.

Member Schools

Penta serves the following school districts: Anthony Wayne, Benton-Carroll-Salem, Bowling Green, Eastwood, Elmwood, Genoa, Lake, Maumee, North Baltimore, Northwood, Otsego, Perrysburg, Rossford, Springfield, Swanton, and Woodmore.

Academics at Penta

Penta prepares students for careers and post-secondary education by offering challenging academic courses in an 85-minute block format. The courses are aligned with Ohio’s K-12 academic content standards. Through their academic courses, students participate in a variety of project-based learning experiences. Some of the academic courses offered include: English; American History; Government; World Issues; Anatomy & Physiology I & II; Environmental Science; Physics; Chemistry; Algebra I, II & III; Geometry; Pre-Calculus; and Ohio Graduation Test readiness classes.

High Schools That Work & North Central Association

Penta utilizes High Schools That Work (HSTW) as a model for school improvement. The HSTW initiative promotes a curriculum that emphasizes rigorous career-technical training along with relevant academic studies. A close working relationship between the career and academic studies creates an environment that

motivates students to succeed. Additionally, Penta is accredited by the North Central Association Commission on Accreditation and School Improvement.

College Tech Prep*

Penta programs listed in this brochure with an asterisk (*) are College Tech Prep programs. These programs are designed to meet current and emerging labor market needs by preparing students for “high tech” occupations of today and tomorrow. College Tech Prep programs integrate high academic expectations with challenging career technical programming and provide post-secondary linkages with related majors at two and four-year colleges. Some of these programs offer **Dual Enrollment** options that enable students to earn college credit at NO COST while still in high school. See your high school counselor for more information about College Tech Prep.

Articulation Agreements; Business & Industry Certifications

Students can get a head start on college or other post-secondary training through Articulation Agreements and/or Business & Industry Certifications. Many Penta programs have Articulation Agreements with area colleges. This means that students who meet certain career-technical criteria or college entrance requirements may earn college credit while attending Penta depending on the articulation agreement for the specific college. In some Penta programs, students can take exams that may qualify them for specific Business & Industry Certifications in areas such as OSHA, state licensures or credentials

Sophomore Exploratory Program

The Sophomore Exploratory Program is designed for students who are interested in exploring career-technical fields on Penta’s campus. In this year-long program, sophomores will explore two career areas, earn academic credits, and receive small group and one-on-one career and life skills mentoring. At the conclusion of this program, students will have the tools and knowledge necessary to make informed choices regarding their future educational, career and life plans. For more information, see your high school counselor.

Student Activities

Students are encouraged to continue to participate in extracurricular activities at their member schools. While attending Penta, students can participate in career-technical organizations including: Business Professionals of America (BPA); SkillsUSA; FFA; Family, Career, and Community Leaders of America (FCCLA); Future Educators Association (FEA); and DECA. Throughout the school year, many students compete in local, regional, state, and national contests sponsored by these organizations. Students can also get involved in the Penta Career-Technical Student Leadership Council.

How To Apply

Applying to Penta Career Center is easy for high school students residing in one of Penta’s 16 member school districts. Students can apply by requesting an application from their high school guidance counselor or by contacting the Penta Student Services and Admissions office at **419-661-6480**.

Graduation

Upon successful completion of a career-training program at Penta, students will receive a Career Passport. The Career Passport includes: a Certificate of Completion; a list of competencies which the student attained while attending Penta; a personal data sheet; and other documents listing the student’s accomplishments. Students

may also participate in graduation ceremonies at their member schools where they will receive their high school diploma.

Career Assessment

Penta offers Career Assessment as a service to help students determine their interests and abilities in order to assist them in choosing a career path. Interested students can request a Career Assessment through their member school counselor.

Additional Career-Technical Programs and Services

Career-technical programs are also offered as early as tenth grade for students who would benefit from specialized instruction and support services. Admission to these programs requires a referral from the student's high school counselor along with an evaluation through Penta's Career Assessment service.

These programs include:

- Automotive Technology
- Business & Marketing Concepts
- Construction Trades (includes one year each of Carpentry and Masonry)
- Culinary Arts
- Floral Design/Greenhouse Production
- Landscape & Turfgrass Management
- Medical Technologies
- Welding

Each of these programs may include participation in the Transition-to-Work program.

Additionally, Penta also offers a Job Training program for students who may require assistance in preparing for their future. All of these programs provide supplemental assistance or specialized personnel to meet students' individual needs.

Penta also provides Career Based Intervention (CBI) programs in satellite locations for those students who are behind in credits and have a desire to be employed.

For more information on these programs and services, see your high school counselor.

Agricultural & Environmental Systems

Floral Design/Greenhouse Production

Developed for students who are creative, like to work with their hands, enjoy working with people, like to work with plants and flowers, and desire a variety of learning experiences. Students become proficient in areas such as: the care and handling of fresh, live and dried flowers; interior design; floral arranging; greenhouse management; plant growth; soils; and hydroponics.

Gas & Diesel Engine Systems

Provides students with the skills needed for employment in either a small engines career (such as repair of lawn, industrial, and recreational equipment) or a career in industrial, tractor-trailer, or agricultural engine repair and maintenance.

Lab Animal Science *

This one-year, senior only program is designed to acquaint the student with the field of Laboratory Animal Science, research and medicine. Topics of instruction will include the history of laboratory animal medicine and the usage of lab animal models. Upon successful completion of this program, students may earn college credit for the lab animal course work required in veterinary technology programs. Students will also be able to begin the certification process through the American Association of Laboratory Animal Science (AALAS).

Landscape & Turfgrass Management

Developed for students who enjoy the outdoors and like to work with their hands. Students are instructed in landscape design, construction and maintenance, sports turf management, retail and marketing, project pricing and estimating, plant identification and usage, and arboriculture.

Small Animal Care

Designed for students who enjoy working with a wide variety of small animal species. The program is an excellent opportunity for students who wish to explore careers in the animal care industry. Students will learn through hands-on experiences in areas such as: grooming, health, customer service, and science.

Arts & Communication

Digital Video Production *

This program introduces the skills you need to enter the broadcast and production industries and covers the technical aspects of television and radio. It includes sound engineering and lighting technologies for the various forms of production including traditional studio and remote location work.

Interactive Media *

Provides students with entry-level knowledge and skills needed to enter the business and artistic job markets and/or articulate to further educational programs. Students create portfolios in visual and digital media, learn digital photography, study videography, and basic Web design.

Business & Administrative Services

Medical-Legal Office Management

Students learn the skills necessary to further their education or proceed into careers in the medical and legal office fields. Upon successful completion of the program, students are prepared to work in entry-level positions in medical and legal offices.

Construction Technologies

Construction Carpentry *

Provides students with the basic skills in rough and finish carpentry construction. Students develop the concepts, knowledge and skills required for successful employment in the construction trades.

Construction Electricity *

Provides students with the basic skills required for successful employment in electrical construction positions. Students develop the concepts, knowledge and skills that are applicable to many other construction occupations.

Construction Masonry

Students learn the basic manipulative skills and related work associated with the field of masonry. Upon successful completion of the program, students have the skills necessary to enter gainful employment in the area of construction masonry.

Construction Remodeling

Designed for students interested in pursuing a career in rough and finish carpentry, plumbing, basic electricity, heating and air conditioning, or general property maintenance and repair. Students learn to inspect structures and determine a repair or remodeling plan.

HVAC/R Piping Systems Technology *

Developed for students interested in a career in the heating, ventilation, air conditioning, refrigeration, and piping industry. There is an increasing demand for trained technicians in this industry. The program will help students develop skills to renovate, convert and service HVAC/R and piping equipment.

Education & Training

Early Childhood Education *

Provides students with the skills needed for employment in careers that care for, and work with, children from birth to school age. Students participate in work-based learning experiences in a variety of early childhood settings.

Teaching Professions *

This one-year program is designed to give qualified seniors a head start on a successful career path to teaching. Students have focused class work and actual field experiences in a variety of educational settings in local school systems.

Engineering & Science Technologies

Computer-Aided Design *

Developed for students interested in a career in the drafting and engineering fields of mechanical, civil and architectural design. Using state-of-the-art computers and design software, students learn the drafting and engineering concepts required to generate high-quality industry standard drawings.

Green Energy Management *

Provides students with the skills to utilize and manage our natural resources by exploring emerging renewable energy technology. The program is an excellent opportunity for students who wish to pursue careers in new energy sources including: solar, wind power, biomass, geothermal, fuel cells, and hydropower.

Health Science

Dental Assistant *

Provides students with the skills needed to obtain a responsible position in general or specialized dentistry. Students are instructed in areas such as: laboratory procedures, radiology, chair side assisting, and dental office management.

Exercise Science/Sports Health Care *

This program is designed to provide students with an introduction to the area of fitness training and athletic training. Students will be prepared to work as a personal trainer, or for college to further study athletic training, strength and conditioning, or physical therapy or occupational therapy.

*Medical Technologies **

Students learn skills in patient care, diagnostic procedures, medical office procedures, and emergency care. Upon successful completion of this program, students are prepared for career opportunities such as: nurse aide, patient care technician and medical assistant. Students are also prepared to further their education for certification or degrees in areas such as nursing (RN or LPN), medical assisting, massage therapy, and emergency medical technician.

Hospitality & Tourism

Culinary Arts

Designed to prepare students for employment in managerial, production, and service jobs in a variety of food service operations. Students receive instruction and training experiences in Penta's Culinary Connection restaurant.

Human Services

Cosmetology

Provides students the opportunity to become licensed cosmetologists through the State of Ohio Board of Cosmetology. Training includes areas such as: scalp and hair care, hair styling, manicure/pedicure, facials, and salon management.

Hair Design

Students focus on hair cutting, color, style, and chemical treatments. Students will have the opportunity to become licensed by the State of Ohio Board of Cosmetology as a hair designer.

Information Technology

A+ Computer Technology *

Provides students with skills in computer building, updating and repair. Students will have the opportunity to earn computer industry certifications. Upon certification, a student can gain employment as a computer support specialist, computer technician, help desk technician, and a remote support technician. This program also helps students prepare for a degree in microcomputer technology.

Geospatial Information Systems (GIS) *

Students will use ArcGIS mapping software to gather data, create and analyze charts, graphs, maps and other visuals that are used in a wide variety of career fields. This program can lead students to certification as a Geospatial Technician and/or provide articulated credits in related post-secondary majors.

Law & Public Safety

Public Safety/Criminal Justice *

A program designed for students who want to pursue employment in criminal justice, private/public safety, or pursue post-secondary education leading to employment in a law-related field.

Public Safety/EMT-Fire Science *

A program for students who want to pursue employment as emergency medical technicians, fire fighters and emergency response personnel, or for work in homeland security. Students who successfully complete this program will have the opportunity to earn EMT/Basic certification.

Manufacturing Technologies

Welding

Students become proficient in performing welding processes, reading blueprints and welding symbols, and developing safe work habits. Upon successful completion of the program, students are eligible to apply for skilled trades apprenticeships, weld & fabricate metal, read and interpret blueprints, and operate CNC fabrication equipment.

Marketing

Marketing Education

A one-year program for seniors interested in pursuing a career in marketing, management or a related field. Students obtain skills in marketing, distribution, management, sales, promotion, and entrepreneurship. Penta also offers this program at several satellite classrooms within its member school districts. Marketing programs are available at: Anthony Wayne, Oak Harbor, Bowling Green, Maumee, Perrysburg (for juniors and seniors), Rossford, and Springfield high schools.

Transportation Systems

Automotive Collision Repair *

Provides the necessary entry-level knowledge and hands-on experience to repair damaged vehicles to factory specifications. The program prepares students to begin a life-long career in the automotive collision repair industry.

Automotive Technology *

This program is designed to provide students with the skills to inspect, diagnose, maintain and repair today's modern automobile. Students learn to use the latest resources and equipment to be successful in this ever-changing technical field.

Our Mission

Penta Career Center's is a high-performing school that provides:

Options and opportunities

Real-world learning

Partnerships with business and industry

Productive citizens.

Our Commitment

The staff at Penta Career Center is committed to:

Achieving excellence

Delivering results

Responding to our communities
Creating an environment for success

Penta Career Center hereby gives notice that it does not discriminate on the basis of race, color, national origin, ancestry, sex, religion, disability/handicap, citizenship status, or veteran status in its educational programs, activities, employment policies, or admission policies, and practices, as required by law. Penta has a Section 504, Title VI, and Title IX Coordinator.

WHAT SHALL I TAKE IN HIGH SCHOOL

Because today's students must meet the challenge of the 21st century, Otsego High School strives to best serve their needs by offering a diversified curriculum at two campuses. After reviewing the information below and choosing a Career Cluster, students can select course offerings from Otsego High School and Penta Career Center. In addition the student, if qualified, can participate in college courses at area college campuses through the

Post-Secondary Options Program, this includes students at Penta doing PSEOP.

OTSEGO HIGH SCHOOL

Students who elect to take classes at Otsego High School can choose from courses offered by different departments. In addition to the basic, state-mandated core curriculum of English, mathematics, science, social studies, health, Personal Finance, and physical education, OHS graduates are required to complete a course in changes and choices. Students, in consultation with their parents/guardians and guidance counselors, can choose electives in agriculture, art, business, career connections, computer science, family and consumer science, foreign language, industrial technology, music, special education, speech, theatre, weight training, and yearbook. Classes range in content from basic to advanced, and all students are encouraged to advance to the highest level of course work within their capabilities.

“Begin with the End in Mind”

- Stephen Covey

The state of Ohio has identified six career clusters to make the process of choosing a career and planning for that career easier for you. The six career clusters are:

Arts & Communications



Health Services



Business & Management



Human Resources



Environmental & Agriculture



Industrial & Engineering



All occupations fall under these broad headings. Further, all six career clusters have different levels of employment based, most frequently, on education and/or training. Professional careers require the most education or specialized training, usually a four-year college degree or higher. Technical careers normally require a two-year degree or specialized training. Entry-level careers usually require only a high school diploma with a limited amount of additional training. The list of careers on the following pages is a partial listing obtained from OCIS (Ohio Career Information System.) It is a representative list only. For a complete listing of potential careers, see your guidance counselor.

Career Pathways were created to provide a map to help you pursue your chosen career. The maps identify a recommended schedule, electives directly related to the career cluster, and the educational training sites available to reach your goal. Otsego High School has the unique ability to provide three quality educational training site choices for our students (1. Otsego High School, 2. Penta High School, and 3. Post-Secondary Options. Each is designed to work with different areas of your chosen career cluster. By using the maps provided, you will be prepared to take advantage of the tremendous number of opportunities in your career cluster.

“A journey of a thousand miles begins with a single step.”

Ancient Chinese Proverb

Arts & Communication Careers

Holland Code: Artistic

COPS: Arts, Communications



Professional Careers:

Actor
Professional Athlete
Clothing Designer
Editor
Video Maker
Designer
Publisher
Cinema Studies
Public Speaker
Web Developer/Manager

Fine Artist
Radio Broadcaster
Patternmaker
Writer
Free Lance Writer
Musician
Tech. Writer
Advertising Executive
News Manager
Performing Artist

Television Broadcaster
Interior Designer
Filmmaker
Graphic Designer
Reporter
Jeweler
Journalist
Interpreter

Technical Careers:

Actor
Compositor/Typesetter
Tailor
Lithograph Worker
Photofinisher
Singer
Radio Assistant
Fine Artist/Commercial Artist
Creative Writer

Graphic Artist
Model
Photographer
Public Relations Asst.
TV Assistant
Salon Manager
Broadcast Technician
Choreographer

Musician
Word Processor
Computer Artist
Garment Fitter
Reporter
Free Lance Writer
Hair Stylist
Motion Picture Editor

Entry-Level Careers:

Military
Word Processor
Hair/Nail Tech.
Progressive Stylist

Model
Singer
Theatrical Make-up Artist
Resale Clerk

Photographer
Cosmetologist
Esthetician
Graphic Artist

ARTS & COMMUNICATIONS CAREER CLUSTER

PROFESSIONAL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Acc. Math 2 Acc. Math 1 Math 1	Acc. Math 3 Acc. Math 2 Math 2	Pre. Cal. Acc. Math 3 Math 3	Calculus Pre. Cal Math 4
SCIENCE	3	Science 1	Biology Bio. Lab	Chemistry Chem. Lab	Physics
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG.	0	French 1 Spanish 1	French 2 Spanish 2	French 3 Spanish 3	French 4 Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH.		C. & C.			
ELECTIVES	6.5	Elective Elective	Elective Elective	Elective Elective Elective	Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2	Concert Choir*	Occ. Work Exp
Adv. Health	Cosmetology (P)*	On Your Own*
Adv. PE	Desktop Publishing*	Parenting.
Ag. Bus. 1,2	Disc. Foods	Photography*
AgriScience 1,2	Fitness/Food for Life	Physiology
Arch. Drawing*	French 1,2,3,4	Principles of Design*
Art 1,2,3,4*	Gen. Business	PSAT/ACT/SAT Prep.
Band*	Hair Design (P)*	Spanish 1,2,3,4
Business Law	Ind. Tech. 1,2*	Speech*
Career Connections	Interactive Media (P) *	Swing Choir*
Career Based Math	International Foods	Weight Training
Career Mentorship*	Jazz Band*	Men's/Women's Choir
Choral Choir*	Living Today*	Yearbook 1,2
Commercial Art*	Married/Single Life	
Computer Science 1,2*	Mech. Drawing*	

Possible Paths:

Otsego High School, Penta (P), Post-Secondary Options

ARTS & COMMUNICATIONS CAREER CLUSTER

TECHNICAL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Acc. Math 1	Acc. Math 2	Pre. Cal.	Calculus
		Acc. Math 1	Acc. Math 2	Acc. Math 3	Math 4
		Math 1	Math 2	Math 3	Math 4
SCIENCE	3	Science 1	Biology Bio. Lab Science 2	Chemistry Chem. Lab Science Elc.	Physics Science Elc.
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG.	0	French 1	French 2	French 3	French 4
OPTIONAL		Spanish 1	Spanish 2	Spanish 3	Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH.		C. & C.			
ELECTIVES	6.5	Elective	Elective	Elective	Elective
		Elective	Elective	Elective	Elective
				Elective	Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2	Concert Choir*	Occ. Work Exp.
Adv. Health	Cosmetology (P) *	On Your Own*
Adv. PE	Desktop Publishing*	Parenting
Ag. Bus. 1,2	Disc. Foods	Photography*
AgriScience 1,2	Fitness/Food for Life	Physiology
Arch. Drawing*	French 1,2,3,4	Principles of Design*
Art 1,2,3,4*	Gen. Business	PSAT/ACT/SAT Prep.
Band*	Hair Design (P)*	Spanish 1,2,3,4
Business Law	Ind. Tech. 1,2*	Speech*
Career Connections	Interactive Media (P)*	Swing Choir*
Career Based Math	Int'l Foods	Weight Training
Career Mentorship*	Jazz Band*	Men's/Women's Choir
Choral Choir*	Living Today*	Yearbook 1,2
Commercial Art*	Married/Single Life	
Computer Science 1,2*	Mech. Drawing*	

Possible Paths:

Otsego High School, Penta (P), Post-Secondary Options

ARTS & COMMUNICATIONS CAREER CLUSTER

ENTRY LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Math 1	Math 2	Math 3	Math 4
SCIENCE	3	Science 1	Science 2	Science Elective	
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
HEALTH & P.E.	1	P.E. _	P.E. _ Health		
CHANGES & CH.		C. & C.			
ELECTIVES	6.5	Elective	Elective	Elective	Elective
		Elective	Elective	Elective	Elective
		Elective	Elective	Elective	Elective
				Elective	Elective
				Elective	Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2	Concert Choir*	Occ. Work Exp.
Adv. Health	Cosmetology (P)*	On Your Own*
Adv. PE	Desktop Publishing*	Parenting
Ag. Bus. 1,2	Disc. Foods	Photography*
AgriScience 1,2	Fitness/Food for Life	Physiology
Arch. Drawing*	French 1,2,3,4	Principles of Design*
Art 1,2,3,4*	Gen. Business	PSAT/ACT/SAT Prep.
Band*	Hair Design (P)*	Spanish 1,2,3,4
Business Law	Ind. Tech. 1,2*	Speech*
Career Connections	Interactive Media (P)*	Swing Choir*
Career Based Math	Int'l Foods	Weight Training
Career Mentorship*	Jazz Band*	Men's/Women's Choir
Choral Choir*	Living Today*	Yearbook 1,2
Commercial Art*	Married/Single Life	
Computer Science 1,2*	Mech. Drawing*	

Possible Paths:

Otsego High School, Penta (P)

Business & Management Careers

Holland Code: Enterprising, Conventional

COPS: Business, Clerical, Technology



Professional Careers:

CPA/Accountant	Auditor	Actuary
Insurance Agent	Market Research Analyst	Management Analyst
Appraiser	Business Executive	Business Manager
Purchasing Agent	Compliance Officer	Economist
Cost Estimator	Financial Advisor	Union Executive
Manager	Bank Manager	Hotel/Motel Manager
Quality Control Inspector	Loan Officer	Management Consultant
Office Manager	Personnel Manager	Computer Programmer
Real Estate Manager	Buyer	Restaurant Manager
Securities Salesperson	Systems Analyst	Underwriter
Network Administrator	Business Owner	Health Service Administrator
Advertising Executive	Marketing Management	Software Specialist
Financial Planner	Executive Search Consultant	Tele-Communication Mgr.
Web Developer/Manager	Statistician	

Technical Careers:

Bookkeeper	Accounting Clerk	Statistical Clerk
Adjustment Clerk	Insurance Agent	Real Estate Agent
Business Services Person	Chef	Claims Adjuster
Claims Examiner	Credit Clerk	Hotel Desk Clerk
Cost Estimator	Computer Operator	Shipping & Receiving Clerk
Manager	Medical Secretary	Medical Records Technician
Office Machine Operator	Office Manager	Personnel Manager
Route Salesperson	Sales & Service Manager	Secretary/Legal Secretary
Telephone Salesperson	Bank Teller	Word Processor/Typist
Baker	Tax Preparation	Travel Agent
Retail Manager	Cert. Network Technician	Retail Buyer
Advertising Manager	Copywriter	Display Specialist

Entry-Level Careers:

Military	Counter Clerk	Retail Clerk
General Office Clerk	Stock Clerk	Computer Operator
Data Entry Operator	Office Machine Operator	Receptionist
Route Salesperson	Telephone Salesperson	Bank Teller
Sales Associate	Bookkeeper	Word Processing Specialist
Manager in Training	Customer Service Rep	Desktop Publisher
Car Salesperson	Display Specialist	Advertising Manager Asst.

BUSINESS & MANAGEMENT CAREER CLUSTER

PROFESSIONAL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Acc. Math 2 Acc. Math 1 Math 1	Acc. Math 3 Acc. Math 2 Math 2	Pre. Cal. Acc. Math 3 Math 3	Calculus Pre. Cal Math 4
SCIENCE	3	Science 1	Biology Bio. Lab	Chemistry Chem. Lab	Physics
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG.	0	French 1 Spanish 1	French 2 Spanish 2	French 3 Spanish 3	French 4 Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH.		C. & C.			
ELECTIVES	6.5	Elective Elective	Elective Elective	Elective Elective Elective	Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

A+ Computer Tech.(P)*	Career Mentorship	Marketing (P)*
Accounting 1,2*	Choral Choir	Married/Single Life
Admin. Asst. (P)*	Commercial Art	Mech. Drawing
Adv. Health	Comp. Science 1,2*	Occ. Work Exp.
Adv. PE	Comp. Hdwr./Network (P)	On Your Own*
AgriBus.1,2*	Concert Choir	Parenting
AgriSci. 1,2	Desktop Pub.*	Photography
Arch. Drawing	Disc. Foods	Physiology
Art 1,2,3,4	Fitness/Food/Life	Prin. Of Design
Band	French 1,2,3,4	PSAT/ACT/SAT/ Prep
Bus./Fin. Services (P)*	Gen. Business*	Spanish 1,2,3,4
Business Law*	Geospatial Info. Systems (P)*	Speech*
Career Based Math	Ind. Tech 1,2	Swing Choir
Career Connections	Int'l Foods	Weight Training
Career Con. Co-op	Jazz Band	Men's/Women's Choir
	Living Today	Yearbook 1,2

Possible Paths:

Otsego High School, Penta (P), Post-Secondary Options

BUSINESS & MANAGEMENT CAREER CLUSTER

TECHNICAL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Acc. Math 2 Acc. Math 1 Math 1	Acc. Math 3 Acc. Math 2 Math 2	Pre. Cal. Acc. Math 3 Math 3	Calculus Pre. Cal Math 4
SCIENCE	3	Science 1	Biology Bio. Lab Science 2	Chemistry Chem. Lab Science Elc.	Physics Science Elc.
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG. OPTIONAL	0	French 1 Spanish 1	French 2 Spanish 2	French 3 Spanish 3	French 4 Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH. ELECTIVES	6.5	C. & C.	Elective Elective	Elective Elective Elective	Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

A+ Computer Tech.(P)*	Career Mentorship	Marketing (P)*
Accounting 1,2*	Choral Choir	Married/Single Life
Admin. Asst. (P)*	Commercial Art	Mech. Drawing
Adv. Health	Comp. Science 1,2*	Occ. Work Exp.
Adv. PE	Comp. Hdwr./Network (P)	On Your Own*
AgriBus. 1,2*	Concert Choir	Parenting
AgriSci. 1,2	Desktop Pub.*	Photography
Arch. Drawing	Disc. Foods	Physiology
Art 1,2,3,4	Fitness/Food/Life	Prin. Of Design
Band	French 1,2,3,4	PSAT/ACT/SAT/ Prep
Bus./Fin. Services (P)*	Gen. Business*	Spanish 1,2,3,4
Business Law*	Geospatial Info. Systems (P)*	Speech*
Career Based Math	Ind. Tech 1,2	Swing Choir
Career Connections	Int'l Foods	Weight Training
Career Con. Co-op	Jazz Band	Men's/Women's Choir
	Living Today	Yearbook 1,2

Possible Paths:

Otsego High School, Penta (P), Post-Secondary Options

BUSINESS & MANAGEMENT CAREER CLUSTER

ENTRY LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Math 1	Math 2	Math 3	Math 4
SCIENCE	3	Science 1	Science 2	Science Elective	
SOCIAL STUDIES	3	Global Studies	U.S. Studies	Government	
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH. ELECTIVES	6.5	C. & C. Elective Elective Elective	Elective Elective Elective	Elective Elective Elective Elective Elective	Elective Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

A+ Computer Tech.(P)*	Career Mentorship	Marketing (P)*
Accounting 1,2*	Choral Choir	Married/Single Life
Admin. Asst. (P)*	Commercial Art	Mech. Drawing
Adv. Health	Comp. Science 1,2*	Occ. Work Exp.
Adv. PE	Comp. Hdwr./Network (P)	On Your Own*
AgriBus. 1,2*	Concert Choir	Parenting
AgriSci. 1,2	Desktop Pub.*	Photography
Arch. Drawing	Disc. Foods	Physiology
Art 1,2,3,4	Fitness/Food/Life	Prin. Of Design
Band	French 1,2,3,4	PSAT/ACT/SAT/ Prep
Bus./Fin. Services (P)*	Gen. Business*	Spanish 1,2,3,4
Business Law*	Geospatial Info. Systems (P)*	Speech*
Career Based Math	Ind. Tech 1,2	Swing Choir
Career Connections	Int'l Foods	Weight Training
Career Con. Co-op	Jazz Band	Men's/Women's Choir
	Living Today	Yearbook 1,2

Possible Paths:

Otsego High School, Penta (P)

Environmental & Agricultural Careers

Holland Code: Realistic, Investigative

COPS: Outdoor, Science



Professional Careers:

Agricultural Engineer
Landscape Architect
Forester
Oceanographer
Physical Scientist
Petroleum Engineer
Chemist
Waste Mgt. Researcher
Conservationist

Agricultural Scientist
Earth Scientist
Geographer
Park Ranger
Soil Scientist
Marine Biologist
Extension Specialist
Veterinarian
Biologist

Agronomist
Game Warden
Rec. Resort Manager
Life Scientist
Meteorologist
Environmental Research
Agriculture Teacher
Geologist
Zoologist

Technical Careers:

Agricultural Inspector
Farmer
Commercial Fisherman
Groundskeeper
Petroleum Processor
Ranch Manager
Farm Sales Rep.

Animal Caretaker
Rancher
Floral Designer
Meat Cutter
Sanitarian
Wildlife Ranger
Farm Operations Manager

Farm Equip. Mechanic
Fish/Wildlife Tech.
Forest Firefighter
Pulp/Paper Worker
Forest Technician
Grain Elevator Operator
Veterinarian Assistant

Entry-Level Careers:

Military
Ranch Hand
Groundskeeper Assistant
Pest Control Worker
Lumber Production Worker
Florist
Garbage Hauler

Animal Caretaker
Deck Hand/Fisherman
Horticulture Worker
Cannery Worker
Petroleum Helper
Nursery Manager
Environmental Clean-up

Farm Hand
Food Processing Worker
Logger
Frozen Food Worker
Landscaper
Pet Store Worker
Laborer

ENVIRONMENTAL & AGRICULTURE CAREER CLUSTER

PROFESSIONAL LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Math 2 Acc. Math 1 Math 1	Math 3 Acc. Math 2 Math 2	Pre.Cal Acc. Math 3 Math 3	Calculus Pre. Cal Math 4
SCIENCE	3	Science 1	Biology Bio. Lab Science 2	Chemistry Chem. Lab. Sci. Elec.	Physics Sci. Elec.
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG. OPTIONAL	0	French 1 Spanish 1	French 2 Spanish 2	French 3 Spanish 3	French 4 Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH.		C. & C.			
INT. COMP. APPL.	1	Infused into all classes – Credit must be earned before graduation			
ELECTIVES	5.5	Elective Elective	Elective Elective	Elective Elective Elective	Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2*	Concert Choir	Occ. Work Exp.
Adv. Health	Desktop Pub.	On Your Own
Adv. PE	Disc. Foods	Parenting
AgriBus. 1, 2*	Fitness/Food for Life	Photography
AgriScience 1,2*	Floral/Greenhouse Prod. (P)*	Physiology
Arch. Drawing*	French 1,2,3,4	PSAT/ACT/SAT Prep.
Art 1,2,3,4	Gen. Business	Prin. Of Design
Band	Ind. Diesel Tech (P)*	Small Animal Care (P)*
Business Law	Industrial Tech. 1,2	Spanish 1,2,3,4
Career Mentorship	Int'l Foods	Speech*
Career Based Math	Animal Science (P)*	Swing Choir
Career Connections	Jazz Band	Weight Training
Career Mentorship	Landscape/Turf Mgt. (P)*	Men's/Women's Choir
Choral Choir	Living Today	Yearbook 1,2
Commercial Art	Married/Single Life	
Computer Science 1,2*	Mech. Drawing*	

Possible Paths:

Otsego High School, Penta (P), Post Secondary Options

ENVIRONMENTAL & AGRICULTURE CAREER CLUSTER

TECHNICAL LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Math 2 Acc. Math 1 Math 1	Math 3 Acc. Math 2 Math 2	Pre.Cal Acc. Math 3 Math 3	Calculus Pre. Cal Math 4
SCIENCE	3	Science 1	Biology Bio. Lab Science 2	Chemistry Chem. Lab. Sci. Elec.	Physics Sci. Elec.
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG.	0	French 1 Spanish 1	French 2 Spanish 2	French 3 Spanish 3	French 4 Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH.		C. & C. _			
INT. COMP. APPL.	1	Infused into all classes – Credit must be earned before graduation			
ELECTIVES	5.5	Elective Elective	Elective Elective	Elective Elective Elective	Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2*	Concert Choir	Occ. Work Exp.
Adv. Health	Desktop Pub.	On Your Own
Adv. PE	Disc. Foods	Parenting
AgriBus. 1, 2*	Fitness/Food for Life	Photography
AgriScience 1,2*	Floral/Greenhouse Prod. (P)*	Physiology
Arch. Drawing*	French 1,2,3,4	PSAT/ACT/SAT Prep.
Art 1,2,3,4	Gen. Business	Prin. Of Design
Band	Ind. Diesel Tech (P)*	Small Animal Care (P)*
Business Law	Industrial Tech. 1,2	Spanish 1,2,3,4
Career Mentorship	Int'l Foods	Speech*
Career Based Math	Machining/Int.Sys.Tech. (P)*	Swing Choir
Career Connections	Jazz Band	Weight Training
Career Mentorship	Landscape/Turf Mgt. (P)*	Men's/Women's Choir
Choral Choir	Living Today	Yearbook 1,2
Commercial Art	Married/Single Life	
Computer Science 1,2*	Mech. Drawing*	

Possible Paths:

Otsego High School, Penta (P), Post Secondary Options

ENVIRONMENTAL & AGRICULTURE CAREER CLUSTER

ENTRY LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Math 1	Math 2	Math 3	Math 4
SCIENCE	3	Science 1	Science 2	Sci. Elective	
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH.		C. & C.			
INT. COMP. APPL.	1	Infused into all classes – Credit must be earned before graduation			
ELECTIVES	5.5	Elective	Elective	Elective	Elective
		Elective	Elective	Elective	Elective
		Elective	Elective	Elective	Elective
				Elective	Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2*	Concert Choir	Occ. Work Exp.
Adv. Health	Desktop Pub.	On Your Own
Adv. PE	Disc. Foods	Parenting
AgriBus. 1, 2*	Fitness/Food for Life	Photography
AgriScience 1,2*	Floral/Greenhouse Prod. (P)*	Physiology
Arch. Drawing*	French 1,2,3,4	PSAT/ACT/SAT Prep.
Art 1,2,3,4	Gen. Business	Prin. Of Design
Band	Ind. Diesel Tech (P)*	Small Animal Care (P)*
Business Law	Industrial Tech. 1,2	Spanish 1,2,3,4
Career Mentorship	Int'l Foods	Speech*
Career Based Math	Machining/Int.Sys.Tech. (P)*	Swing Choir
Career Connections	Jazz Band	Weight Training
Career Mentorship	Landscape/Turf Mgt. (P)*	Men's/Women's Choir
Choral Choir	Living Today	Yearbook 1,2
Commercial Art	Married/Single Life	
Computer Science 1,2*	Mech. Drawing*	

Possible Paths:

Otsego High School, Penta (P)

Health Services Careers

Holland Code: Investigative, Social

COPS: Science, Investigative



Professional Careers:

Athletic Trainers
Chiropractor
Embalmer
Internist
Nurse Practitioner
Optometrist
Physical Therapist
Surgeon
Biologist
Health Educator
Medical Technician
Physician Assistant

Audiologist
Dentist
Funeral Director
Life Scientist
Registered Nurse
Pediatrician
Podiatrist
Veterinarian
Physical Therapist
Physician
Psychologist
Occupational Therapist

Speech Pathologist
Dietician
Health Service Adm.
Optician
Pharmacist
Psychiatrist
Nutritionist
Medical Researcher
Research Scientist
OB/GYN
Hospital Administration

Technical Careers:

Medical Secretary
Dental Hygienist
Health Technician
Medical Assistant
Physical Therapist Asst.
Radiological Tech.
Surgical Tech.
Massage Therapist

Dental Assistant
EEG Tech.
Home Health Aide
Nursing Assistant
Psychiatric Aide
Respiratory Therapy
Animal Caretaker
Medical Lab Technician

Med. Records Tech.
EKG Tech.
Dental Lab. Tech.
EMT
Health Service Adm.
Licensed Practical Nurse
Pharmacy Tech.

Entry-Level Careers:

Medical Records Clerk
Nursing Asst.
Medical Receptionist

Home Health Asst.
Animal Caretaker
Dental Asst.

Nursing Home Asst.
Military
Pharmacy Asst.

HEALTH CAREER CLUSTER

PROFESSIONAL LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Acc. Math 2 Acc. Math 1 Math 1	Acc. Math 3 Acc. Math 2 Math 2	Pre.Cal Acc. Math 3 Math 3	Calculus Pre. Cal Math 4
SCIENCE	3	Science 1	Biology Bio. Lab	Chemistry Chem. Lab.	Physics
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG.	0	French 1 Spanish 1	French 2 Spanish 2	French 3 Spanish 3	French 4 Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health		
CHANGES & CH.		C. & C. _			
INT. COMP. APPL.	1	Infused into all classes – Credit must be earned before graduation			
ELECTIVES	5.5	Elective Elective	Elective Elective	Elective Elective Elective	Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2	Concert Choir	Medical Tech (P)*
Adv. Health*	Dental Asst. (P)*	Medical Tech Prep (P)*
Adv. PE*	Dental Tech Prep (P)*	Occ. Work Exp.
Agri. Business 1,2	Desktop Publishing	On Your Own*
AgriScience 1,2*	Disc. Foods*	Parenting*
Arch. Drawing	Fitness/Food for Life*	Photography
Art 1,2,3,4	French 1,2,3,4	Physiology*
Band	Gen. Business	Prin. Of Design
Business Law	Yearbook 1,2	PSAT/ACT/SAT Prep.
Career Based Math	Industrial Tech. 1,2	Spanish 1,2,3,4
Career Mentorship	Int'l Foods*	Speech*
Choral Choir	Living Today*	Swing Choir
Commercial Art	Married/Single Life*	Weight Training*
Computer Sci.	Mech. Drawing	Men's/Women's Choir

Possible Paths:

Otsego High School, Penta (P), Post Secondary Options

HEALTH CAREER CLUSTER

TECHNICAL LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Acc. Math 2 Acc. Math 1 Math 1	Acc. Math 3 Acc. Math 2 Math 2	Pre.Cal Acc. Math 3 Math 3	Calculus Pre. Cal Math 4
SCIENCE	3	Science 1	Biology Bio. Lab Science 2	Chemistry Chem. Lab. Sci. Elec.	Physics Sci. Elec.
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG. OPTIONAL	0	French 1 Spanish 1	French 2 Spanish 2	French 3 Spanish 3	French 4 Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH.		C. & C.			
INT. COMP. APPL.	1	Infused into all classes – Credit must be earned before graduation			
ELECTIVES	5.5	Elective Elective	Elective Elective	Elective Elective Elective	Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2	Concert Choir	Medical Tech (P)*
Adv. Health*	Dental Asst. (P)*	Medical Tech Prep (P)*
Adv. PE*	Dental Tech Prep (P)*	Occ. Work Exp.
Agri. Business 1,2	Desktop Publishing	On Your Own*
AgriScience 1,2*	Disc. Foods*	Parenting*
Arch. Drawing	Fitness/Food for Life*	Photography
Art 1,2,3,4	French 1,2,3,4	Physiology*
Band	Gen. Business	Prin. Of Design
Business Law	Yearbook 1,2	PSAT/ACT/SAT Prep.
Career Based Math	Industrial Tech. 1,2	Spanish 1,2,3,4
Career Mentorship	Int'l Foods*	Speech*
Choral Choir	Living Today*	Swing Choir
Commercial Art	Married/Single Life*	Weight Training*
Computer Sci.	Mech. Drawing	Men's/Women's Choir

Possible Paths:

Otsego High School, Penta (P), Post Secondary Options

HEALTH CAREER CLUSTER

ENTRY LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Math 1	Math 2	Math 3	Math 4
SCIENCE	3	Science 1	Science 2	Science Elec.	
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH.		C. & C.			
INT. COMP. APPL.	1	Infused into all classes – Credit must be earned before graduation			
ELECTIVES	5.5	Elective	Elective	Elective	Elective
		Elective	Elective	Elective	Elective
		Elective	Elective	Elective	Elective
				Elective	Elective
				Elective	Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2	Concert Choir	Medical Tech (P)*
Adv. Health*	Dental Asst. (P)*	Medical Tech Prep (P)*
Adv. PE*	Dental Tech Prep (P)*	Occ. Work Exp.
Agri. Business 1,2	Desktop Publishing	On Your Own*
AgriScience 1,2*	Disc. Foods*	Parenting*
Arch. Drawing	Fitness/Food for Life*	Photography
Art 1,2,3,4	French 1,2,3,4	Physiology*
Band	Gen. Business	Prin. Of Design
Business Law	Yearbook 1,2	PSAT/ACT/SAT Prep.
Career Based Math	Industrial Tech. 1,2	Spanish 1,2,3,4
Career Mentorship	Int'l Foods*	Speech*
Choral Choir	Living Today*	Swing Choir
Commercial Art	Married/Single Life*	Weight Training*
Computer Sci.	Mech. Drawing	Men's/Women's Choir

Possible Paths:

Otsego High School, Penta (P)

Human Resources Careers

Holland Code: Social, Conventional

COPS: Consumer Economics, Science, Service



Professional Careers:

Anthropologist	Archivist	Curator
Civil Engineer	Clergy	Coach
University Teacher	Corrections Officer	Counselor
Clerk of Courts	Politician	Education Adm.
Secondary School Teacher	Interpreter	Elem. School Teacher
Law Enforcement Officer	Lawyer	Librarian
Regional Planner	Pre-School Teacher	Probation Officer
Public Administrator	Recreation Director	Recreational Therapist
Social Scientist	Social Worker	Sociologist
Career-Technical School Teacher	Psychologist	Special Ed. Teacher
Stenographer	Behavioral Specialist	Judge
Urban Regional Planner	Political Scientist	

Technical Careers:

Court Clerk	Mail Carrier	Childcare Worker
Corrections officer	Dispatcher	Firefighter
Flight Attendant	Security Guard	Para-Legal Assistant
Legal Secretary	Postal Clerk	Pre-School Teacher
Public Relations Worker	Recreation Attendant	Recreation Guide
Recreation Leader	Telephone Operator	Ticket Agent
Travel Agent	Court Reporter	Court Services
Family/Welfare Worker	Counseling Asst.	Employee Benefits Sp.

Entry-Level Careers:

Teacher Aide	Social Services Aide	Bus Person
Newspaper Carrier	Cashier	Childcare Worker
Baby Sitter	Room Cleaner	Vehicle Cleaner
Collector	Waiter/Waitress	Service Station Att.
Military	Bagger	Kitchen Helper
Library Asst.	Messenger	Counter Clerk
Social Service Aide	Tutor	Human Resources Asst.

HUMAN RESOURCES CAREER CLUSTER

PROFESSIONAL LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Acc. Math 2 Acc. Math 1 Math 1	Acc. Math 3 Acc. Math 2 Math 2	Pre.Cal Acc. Math 3 Math 3	Calculus Pre. Cal Math 4
SCIENCE	3	Science 1	Biology Bio. Lab	Chemistry Chem. Lab.	Physics
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG.	0	French 1 Spanish 1	French 2 Spanish 2	French 3 Spanish 3	French 4 Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH.		C. & C.			
ELECTIVES	6.5	Elective Elective	Elective Elective	Elective Elective Elective	Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2	Cosmetology (P)*	Mech. Drawing
Adv. Health*	Culinary Arts (P)*	Occ. Work Exp (OWE-P)
Adv. PE	Dental Asst. (P)*	On Your Own*
Agri. Business 1,2	Desktop Publishing*	Parenting*
Agri Science 1,2*	Disc. Foods*	Photography
Arch. Drawing	Early Childhood Ed. (P)*	Physiology
Art 1,2,3,4*	Fitness/Food for Life Prin.*	Of Design
Band*	French 1,2,3,4	PSAT/ACT/SAT Prep.
Business Law	Gen. Business	Pub.Safe./Crim.Just. (P)*
Career Based Math	Hair Design (P)*	Spanish 1,2,3,4
Career Connections	Exercise Science/Sports (P)*	Speech*
Career Mentorship	Ind. Tech 1,2	Swing Choir
Commercial Art	Int. Foods*	Teaching Professions (P)
Computer Sci. 1,2*	Jazz Band*	Men's/Women's Choir
Concert Choir*	Living Today*	Weight Training
EMT/Fire (P)*	Married/Single Life*	Yearbook*

Possible Paths:

Otsego High School, Penta (P), Post Secondary Options

HUMAN RESOURCES CAREER CLUSTER

TECHNICAL LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Acc. Math 2 Acc. Math 1 Math 1	Acc. Math 3 Acc. Math 2 Math 2	Pre. Cal Acc. Math 3 Math 3	Calculus Pre. Cal Math 4
SCIENCE	3	Science 1	Biology Bio. Lab Science 2	Chemistry Chem. Lab. Sci. Elec.	Physics Sci. Elec.
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG.	0	French 1	French 2	French 3	French 4
OPTIONAL		Spanish 1	Spanish 2	Spanish 3	Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH.		C. & C. _			
ELECTIVES	6.5	Elective Elective	Elective Elective	Elective Elective Elective	Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2*	Cosmetology (P)*	Mech. Drawing
Adv. Health	Culinary Arts (P)*	On Your Own
Adv. PE	Dental Asst. (P)*	Parenting
Agri. Business 1,2	Desktop Publishing	Photography
Agri Science 1,2*	Disc. Foods*	Physiology
Arch. Drawing	Early Childhood Educ. (P)*	Prin. Of Design
Art 1,2,3,4	Fitness/Food for Life*	PSAT/ACT/SAT Prep.
Band	French 1,2,3,4	Pub.Safe./Crim.Just. (P)*
Business Law	Gen. Business	Spanish 1,2,3,4
Career Based Math	Hair Design (P)*	Speech*
Career Mentorship	Exercise Science/Sports (P)*	Swing Choir
Choral Choir	Industrial Tech. 1,2	Teaching Professions (P)*
Commercial Art	Int'l Foods	Weight Training
Computer Sci.	Living Today*	Men's/Women's Choir
Concert Choir	Married/Single Life*	Yearbook 1,2
EMT/Fire (P)*		

Possible Paths:

Otsego High School, Penta (P), Post Secondary Options

HUMAN RESOURCES CAREER CLUSTER

ENTRY LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Math 1	Math 2	Math 3	Math 4
SCIENCE	3	Science 1	Science 2	Sci. Elec.	
SOCIAL STUDIES	3	Global Studies	U.S. Studies		
HEALTH & P.E.	1	P.E. _	P.E. _ Health		
CHANGES & CH.		C. & C.			
ELECTIVES	6.5	Elective	Elective	Elective	Elective
		Elective	Elective	Elective	Elective
		Elective	Elective	Elective	Elective
				Elective	Elective
				Elective	Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2*	Concert Choir	Mech. Drawing
Adv. Health	Cosmetology (P)*	On Your Own
Adv. PE	Culinary Arts (P)*	Parenting
Agri. Business 1,2	Desktop Publishing	Photography
Agri Science 1,2*	Disc. Foods*	Physiology
Arch. Drawing	Early Childhood Educ. (P)*	Prin. Of Design
Art 1,2,3,4	Fitness/Food for Life*	PSAT/ACT/SAT Prep.
Band	French 1,2,3,4	Pub.Safe./Crim.Just. (P)*
Business Law	Gen. Business	Spanish 1,2,3,4
Career Based Math	Hair Design (P)*	Speech*
Career Mentorship	Exercise Science/Sports (P)*	Swing Choir
Choral Choir	Industrial Tech. 1,2	Teaching Professions (P)
Commercial Art	Int'l Foods	Weight Training
Computer Sci.	Living Today*	Men's/Women's Choir
EMT/Fire (P)*	Married/Single Life*	Yearbook 1,2

Possible Paths:

Otsego High School, Penta (P)

Industrial & Engineering Careers

Holland Code: Social, Conventional

COPS: Consumer Econ., Science, Service



Professional Careers:

Computer Programmer
Systems Analyst
Astronomer
Compliance Officer
Cost Estimator
Pilot
Mining Engineer
Production Superintendent
Surveyor

Aerospace Engineer
Architect
Chemical Engineer
Compliance Inspector
Electrical Engineer
Industrial Engineer
Petroleum Engineer
Quality Control Inspector
Automotive Designer

Air Traffic Controller
Association Executive
Chemist
Construction Manager
Flight Engineer
Mechanical Engineer
Physicist
Ship Engineer
Robotics Engineer

Technical Careers:

Computer Programmer
Systems Analyst
Automobile Mechanic
Railroad Conductor/Braker
Cabinet Maker
Chemical Processor
Office Machine Repairer
Cost Estimator
Pipefitter
Sheet metal Worker
Solar Technician
Technical Writer
Wastewater Plant Operator
Computer Technician
Heavy Equip. Operator
Laser Tech.
Truck Mechanic
Line Installer/Repairer

Bindery Worker
Union Executive
Blaster
Bricklayer
Carpenter
Cement Mason
Building Inspector
Molder
Rubber/Plastic Fabricator
Ship Fitter
Boiler Operator
Tool & Die Maker
Welding Inspector
Auto Shop Owner
Fork Lift Operator
Millwright
Heavy Equip. Mechanic
Electrician

Aircraft Mechanic
Auto body Repairer
Boilermaker
Building Maint. Worker
Rubber Processor
Computer Repairer
HVAC Mechanic
CNC Programmer
Science Tech.
Small Engine Repairer
Surveyor Helper
Upholster
CAD Operator
Quality control Inspector
Drafter
Air Traffic Controller
Precision Inst. Repairer

Entry-Level Careers:

Military
Electronics Assembler
Auto Parts Counter Worker
Floor/Carpet Layer
Rotary Driller
Foundry Worker
Insulation Installer
Truck Driver
Metal Refining Worker

Bindery Worker
Production Assembler
Bus/Taxi Driver
Construction Laborer
Drywall Installer
Freight Handler
Janitor
Machinist
Mine Worker

Aircraft Assembler
Airline Crew Member
Carpenter Asst.
Deckhand
Forge Shop Worker
Grinder
Laborer
Mechanic Helper
Packer/Wrapper

Painter/Paperhanger
Machine Operator
Building Supply Sales

Press Operator
Mason Tender
HVAC Technician

Roofer
Welder
Auto Detailer

INDUSTRIAL & ENGINEERING SYSTEMS CAREER CLUSTER

PROFESSIONAL LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Acc. Math 2 Acc. Math 1 Math 1	cc. Math 3 Acc. Math 2 Math 2	Pre. Cal. Acc. Math 3 Math 3	Calculus Pre. Cal Math 4
SCIENCE	3	Science 1	Biology Bio. Lab	Chemistry Chem. Lab.	Physics
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG.	0	French 1 Spanish 1	French Spanish 2	2French 3 Spanish 3	French 4 Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health		
CHANGES & CH.		C. & C.			
ELECTIVES	6.5	Elective Elective	Elective Elective	Elective Elective Elective	Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2	Concert Choir	Living Today
Adv. Health	Const. Carpentry (P)*	Married/Single Life
Adv. PE	Const. Elect. (P)*	Mech. Drawing*
Agri. Business 1,2	Const. Masonry (P)*	On Your Own
Agri. Science 1,2	Const. Remodeling (P)*	Parenting
Arch. Drawing*	Desktop Pub. (P)	Photography
Art 1,2,3,4	Disc. Foods	Physiology
Auto Collision Repairs (P)*	Eng. Tech. Prep (P)*	Prin. Of Design
Auto Tech (P)*	Fitness/Food for Life	PSAT/ACT/SAT Prep.
Band	French 1,2,3,4	Spanish 1,2,3,4
Business Law	Gas/Diesel Engine Syst. (P)*	Speech
Career Based Math	Gen. Business	Swing Choir
Career Connections	Machining/Int.Sys.Tech. (P)*	Weight Training
Career Mentorship*	HVAC/Pipe Sys. Tech. (P)*	Welding (P)*
Choral Choir	Ind. Diesel Tech (P)	Men's/Women's Choir
Commercial Art	Int'l Foods	Yearbook 1,2
Computer Aided Design (P)*	Jazz Band	Computer Sci., 1,2*

Possible Paths:

Otsego High School, Penta (P), Post Secondary Options

INDUSTRIAL & ENGINEERING SYSTEMS CAREER CLUSTER

TECHNICAL LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Acc. Math 2 Acc. Math 1 Math 1	Acc. Math 3 Acc. Math 2 Math 2	Pre.Cal Acc. Math 3 Math 3	Calculus Pre. Cal Math 4
SCIENCE	3	Science 1	Biology Bio. Lab Science 2	Chemistry Chem. Lab. Sci. Elec.	Physics Sci. Elec.
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
FOREIGN LANG. OPTIONAL	0	French 1 Spanish 1	French 2 Spanish 2	French 3 Spanish 3	French 4 Spanish 4
HEALTH & P.E.	1	P.E. _	P.E. _ Health _		
CHANGES & CH. ELECTIVES	6.5	C. & C.	Elective Elective	Elective Elective Elective	Elective Elective Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2	Concert Choir	Living Today
Adv. Health	Const. Carpentry (P)*	Married/Single Life
Adv. PE	Const. Elect. (P)*	Mech. Drawing*
Agri. Business 1,2	Const. Masonry (P)*	On Your Own
Agri. Science 1,2	Const. Remodeling (P)*	Parenting
Arch. Drawing*	Desktop Pub. (P)	Photography
Art 1,2,3,4	Disc. Foods	Physiology
Auto Collision Repairs (P)*	Eng. Tech. Prep (P)*	Prin. Of Design
Auto Tech (P)*	Fitness/Food for Life	PSAT/ACT/SAT Prep.
Band	French 1,2,3,4	Spanish 1,2,3,4
Business Law	Gas/Diesel Engine Syst. (P)*	Speech
Career Based Math	Gen. Business	Swing Choir
Career Connections	Machining/Int.Sys.Tech. (P)*	Weight Training
Career Mentorship*	HVAC/Pipe Sys. Tech. (P)*	Welding (P)*
Choral Choir	Ind. Diesel Tech (P)	Men's/Women's Choir
Commercial Art	Int'l Foods	Yearbook 1,2
Computer Aided Design (P)*	Jazz Band	Computer Sci., 1,2*

Possible Paths:

Otsego High School, Penta (P), Post Secondary Options

INDUSTRIAL & ENGINEERING SYSTEMS CAREER CLUSTER

ENTRY LEVEL CAREER

Recommended Schedule

Courses	Grad. Req.	9 th	10 th	11 th	12 th
ENGLISH	4	English	English	English	English
MATH	3	Math 1	Math 2	Math 3	Math 4
SCIENCE	3	Science 1	Science 2	Sci. Elec.	Sci. Elec.
SOCIAL STUDIES	3	Global Studies	U.S. Studies		Gov.
HEALTH & P.E.	1	P.E. _	P.E. _ Health		
CHANGES & CH.		C. & C.			
ELECTIVES	6.5	Elective	Elective	Elective	Elective
		Elective	Elective	Elective	Elective
		Elective	Elective	Elective	Elective
				Elective	Elective
				Elective	Elective

***Or full time Penta schedule

Electives: Starred Electives (*) Directly Relate To Career Cluster

Accounting 1,2	Concert Choir	Living Today
Adv. Health	Const. Carpentry (P)*	Married/Single Life
Adv. PE	Const. Elect. (P)*	Mech. Drawing*
Agri. Business 1,2	Const. Masonry (P)*	On Your Own
Agri. Science 1,2	Const. Remodeling (P)*	Parenting
Arch. Drawing*	Desktop Pub. (P)	Photography
Art 1,2,3,4	Disc. Foods	Physiology
Auto Collision Repairs (P)*	Eng. Tech. Prep (P)*	Prin. Of Design
Auto Tech (P)*	Fitness/Food for Life	PSAT/ACT/SAT Prep.
Band	French 1,2,3,4	Spanish 1,2,3,4
Business Law	Gas/Diesel Engine Syst. (P)*	Speech
Career Based Math	Gen. Business	Swing Choir
Career Connections	Machining/Int.Sys.Tech. (P)*	Weight Training
Career Mentorship*	HVAC/Pipe Sys. Tech. (P)*	Welding (P)*
Choral Choir	Ind. Diesel Tech (P)	Men's/Women's Choir
Commercial Art	Int'l Foods	Yearbook 1,2
Computer Aided Design (P)*	Jazz Band	Computer Sci., 1, 2*

Possible Paths:

Otsego High School, Penta (P)

Agriculture Department

Course Name	Credit	Grade Offered	Prerequisite
Agriculture Science 1	1 _	9,10,11,12	None
Agriculture Science 2	1 _	10,11,12	None
Plant & Animal Production	1 _	11,12	None
Agri-Entre. & Marketing	1 _	12	None
<hr/>			
Animal Science (P)	4	12	3.0 in Math & Science
Floral Design/Greenhouse Prod. (P)	4	11,12	None
Landscape & Turf Management (P)	4	11,12	None
Small Animal Care (P)	4	11,12	None

**710 - AGRICULTURE SCIENCE I - 1_ credits (_ science credit)
(Grade 9 or 10)**

**720 - AGRICULTURE SCIENCE II - 1_ credits (_ science credit)
(Grade 10)**

Agriscience I and Agriscience II must be taken in sequence as a core curriculum. Topics learned during the course include Animal Science, Plant Science, Environmental Science, Mechanical Science, Business Management, and Personal Development. All students will also conduct a supervised agriculture experience and will be members of the award winning Otsego FFA Chapter.

**730 - PLANT AND ANIMAL PRODUCTION - 1_ credits
(Grade 11)**

During this yearlong course, students will learn about plant and animal production. Students will also take an in-depth look at agribusinesses and how they are applied in plant and animal production. This course includes lab work.

**740 - AGRI-ENTRE & MARKETING - 1_ credits
(Grade 12)**

A course that involves in-depth units in economic principles, business records, capital resources, insurance, laws, and components of a business plan. The marketing portion includes supply and demand and marketing plan development. Students will also study personal development, parliamentary procedure, public speaking and job interviewing. Structures includes techniques and procedures used to construct approved agricultural buildings and structures (pole, treated, concrete, and steel). This is a year long, senior level course.

Associated Requirements for 710, 720, 730, and 740:

1. FFA membership included in fee, participation required.
2. 200 hours per year of agri-related experience beyond the classroom through:
 - a. Research projects
 - b. Enterprise projects.
 - c. Placement experience.

- d. Business enterprise.
 - e. School laboratory activities.
 3. 10 hours of improvement projects per year.
 4. Business management and personal development included in all courses.
 5. All laboratory courses require full covering of clothes, socks, and leather work shoes.
-

ANIMAL SCIENCE (P) - 4 credits (Grade 12)

This one-year, senior only program, students will integrate the best practices of animal science, medical research and medicine procedures in a lab setting. This is an introductory course to acquaint students with the field of Laboratory Animal Science, medical research, and medicine. Topics of instruction include the history of laboratory animal technology and the usage of lab animal models. The Animal Welfare Act, and other regulations pertaining to the care and use of animals will be covered. Handling, restraint, collection of samples, methods of medical treatment, anesthesia, sexing, identification, humane euthanasia procedures, and necropsy techniques will be discussed and/or practiced in the laboratory. Students will maintain a small colony of laboratory animals while providing care and colony management throughout the course.

FLORAL DESIGN/GREENHOUSE PRODUCTION (P) - 4 credits (Grade 11 or 12)

A two-year program for students who are creative, like to work with their hands, enjoy working with people, like to work with plants and flowers, and desire a variety of learning experiences. Students become proficient in areas such as the care and handling of fresh, live and dried flowers, floral arranging, greenhouse management, plant growth, soils, and hydroponics.

LANDSCAPE AND TURF MANAGEMENT (P) - 4 credits (Grades 11-12)

A two-year program designed for students who are creative, enjoy the outdoors, like to work with their hands, and desire a variety of learning experiences. Students are prepared for careers in landscape design, construction and maintenance, and golf course management.

SMALL ANIMAL CARE (P) - 4 credits (Grades 11-12)

A two-year program at Penta for students who enjoy working with a wide variety of small animal species. The program is an excellent opportunity for students who wish to explore careers in the animal care industry. Students will learn through hands-on experiences in areas such as grooming, health, customer service, and science.

Art Department

<u>Course Name</u>	<u>Credit</u>	<u>Grade Offered</u>	<u>Prerequisite</u>
Art 1	1	9,10,11,12	None
Art 2	1	10,11,12	Art 1, teacher approval
Art 3	1	11,12	Art 2, teacher approval
Art 4	1	12	Art 3, teacher approval
Photography	1	10,11,12	Digital camera & "A" in Art I

900 - ART 1 - 1 credit

Prerequisite: None

Introduction to Fine Art, Course focuses on the elements of art: line, shape, texture, color, value, space, mass, repetition, contrast, pattern and composition. Course is project based and consists of multiple medias. Art history is integrated as it relates to the projects.

(Note: This class has a fee)

901 - ART 2 -1 credit

Prerequisite: Successful completion of Art I and permission from instructor

Art II continues the study of the elements of art and 3 dimensional design. Medias include graphite, watercolor, acrylic paint, pastels, printmaking, handbuilt ceramics, sculpture, cold glass, and any mixture of the above.

(Note: This class has a fee)

903 - ART 3- 1 credit

Prerequisite: Successful completion of Art II and permission from instructor

Art III projects look deeper into historical art works and artist. The students are allowed some input into the media chosen. Projects take on larger scale and can include graphite, watercolor, acrylic paint, printmaking, ceramics, metals and glass, and mixed media.

(Note: This class has a fee)

905 - ART 4-1 credit

Prerequisite: Successful completion of Art III and permission from instructor

Art 4, 2-D studies emphasize the motivation and purpose of art. Students are encouraged to develop their own projects with guidance from the instructor, based on the knowledge they acquired in their previous art studies. These projects could also include a portfolio for that planning higher art education. Medias include watercolors, acrylic, graphite, ceramics, cold glass and metals. Students are encouraged to look at everyday items as art

supplies and look to alternative resources for art materials, at little to no cost.(**Note: This class has a fee.**)

907- Digital Photography/ Art- 1 credit

Prerequisite: Successful completion of Art I with an “A” average

Digital Photo and Digital Art is an introductory class into the usage of the digital camera and Adobe Photoshop. Projects include both indoor and outdoor photography, digital photo manipulation, and the creation of art works through computer technology. It is required that each student secures the usage of a digital camera. There will be no cameras provided.

(**Note: This class has a fee.**)

Business Department

Course Name	Credit	Grade Offered	Prerequisite
Accounting 1	1	10,11,12	None
Accounting 2	1	11,12	"C" or better in Accounting 1
Business Law	1	11,12	None
General Business	1	9,10,11,12	None
Personal Finance	—	9,10,11,12	None
<hr/>			
Business & Financial Service (P)	4	11,12	None Administrative Assistant (P)
4	11,12	None	
Marketing Education (P)	4	12	None

603 - ACCOUNTING 1 - 1 credit (Grades 10-12)

An introductory course that includes an overview of the complete accounting process. Students work with special journals and ledgers, worksheets, financial statements, sales tax, income taxes, and payrolls. Students learn proper accounting procedures for sole proprietorships and partnerships, and later are introduced to corporate accounting procedures. Accounting I is *highly recommended for all students*, especially those planning a business or other professional career. The class uses hands-on learning projects, is practical in nature, and would benefit all as they enter adulthood.

(Note: This class has a fee.)

604 - ACCOUNTING 2 - 1 credit (Grades 11-12)

Prerequisite: A grade of "C" or better in Accounting 1

An advanced course that teaches students corporate accounting procedures. Students learn proper accounting procedures in departmentalized accounting, computerized accounting, and general accounting adjustments. Students are also introduced to tax, cost, and managerial accounting. This course is highly recommended for students planning a business or professional career.

(Note: This class has a fee.)

607 - BUSINESS LAW - 1 credit (Grades 11-12)

This elective course is designed to give the students a basic knowledge of personal, business, and consumer laws. Topics explored include crimes, torts, contract law, family law, landlord/tenant and housing, employee/employer relationships, insurance, and liability issues. The course is designed to aid students in their transition from high school to the working world or college.

(Note: This class has a fee.)

610 - GENERAL BUSINESS - 1 credit (Grades 9-12)

This elective course is designed to improve economic citizenship through a study of the business economic environment in which we live. Topics covered in this course include economics, business organizations, entrepreneurship, monetary systems, business communications, marketing, and careers. Students spend the first

semester learning economics and the nature of business in the United States, and the second semester is devoted to a hands-on business simulation where each student operates his/her own business in a community..

(Note: This class has a fee.)

611 - PERSONAL FINANCE - _ credit
(1 semester only)
(Grades 9-12)

This elective course is designed to improve economic citizenship through proper decision-making and money management. Topics covered in this semester course include family budgeting, money and banking, savings and investments, consumer buying, credit, insurance, and taxes. Students spend the first quarter learning personal finance, and the second quarter is devoted to a hands-on personal budgeting simulation.

(Note: This class has a fee.)

BUSINESS & FINANCIAL SERVICE -4 credits
(Grades 11-12)

A two-year program designed to provide students with a basic knowledge of business core classes such as: business law, economics, international business, business communications, marketing, and entrepreneurship. Students are instructed in accounting, finance, insurance, investments, real estate, banking systems, and financial management.

ADMINISTRATIVE ASSISTANT (P) -4 credits
(Grades 11-12)

A two-year program designed to develop an office professional who can effectively manage all aspects of an office. A student successfully completing this program will be prepared to work as an administrative assistant, executive secretary, medical secretary, legal secretary, receptionist, or office clerk.

MARKETING EDUCATION (P) -4 credits
(Grade 12)

A one-year program offered to seniors who wish to pursue a career in marketing, management, or a related field. Students obtain skills in marketing, distribution, management, sales, promotion, and entrepreneurship. This is a co-op program.

Computer Science Department

<u>Course Name</u>	<u>Credit</u>	<u>Grade Offered</u>	<u>Prerequisite</u>
Video Productions	1	9,10,11,12 Recommendation	Teacher
Computer Applications	—	9,10,11,12	None
Computer Applications SC	—	9,10	IEP & Teacher Recommendation
Advanced Computer Applications	—	9,10,11,12	Teacher

Yearbook 1&2	1	10,11,12	Recommendation Teacher Recommendation
Desktop Publishing	—	10,11,12	None
Computer Science 1	1	10,11,12	“B” in Math 10 or “C” in Math 9
Computer Science 2	1	10,11,12	Computer Science 1
<hr/>			
A+ Computer Technology (P)	4	11,12	None
Computer Systems & Networking (P)	4	11,12	2.5 GPA, “C” in Integrated Math
Geospatial Information Systems (P)	4	11,12	None

840 - VIDEO PRODUCTIONS - 1 credit
LIMIT OF 10 STUDENTS (Grades 9-12)

Prerequisite: Teacher Recommendation

This year-long course integrates the use of computers, editing machines, digital cameras, and digital video camcorders along with the necessary software to produce attractive and professional-looking presentations. In this course, students will include graphics, sound, and special effects when creating video. Students will work cooperatively as a team in a broadcast environment and learn tech set-up, scripting/teleprompting, announcing, directing, and editing. After showing proficiency in their skills, the students will be expected to meet necessary deadlines in producing the daily announcements, which are aired school wide to students and staff. Good keyboarding skills and a desire to utilize digital video technology is necessary.

842 - COMPUTER APPLICATIONS - _ credit
(1 semester only)
(Grades 9-12)

The goal of computer applications is to learn personal computer use. Using various applications software, this course serves as a basic course for all students and provides opportunity to gain adequate skill for the college bound student to use in the future. Application skills include word processing, database, spreadsheet, presentation graphics, and publication design. Microsoft Office software (Word, Excel, Access, Power Point, and Publisher) will be used in the instruction of these topics. Students also work extensively with the Internet. (Note: This class has a fee.)

842SC - COMPUTER APPLICATIONS SC - _ credit
(1 semester only)
(Grades 9-10)

Prerequisite: IEP and Teacher Recommendation

This class has the same content as Computer Applications except modifications may be made to meet the individual student’s needs in a self contained (SC) classroom. (Note: This class has a fee.)

843 - ADVANCED COMPUTER APPLICATIONS - _ credit
(1 semester only)
(Grades 9-12)

Prerequisite: Teacher Permission

The goal of advanced computer applications is to learn advanced and more powerful applications with the personal computer. Students will learn web page design using FrontPage and will utilize Microsoft Office

software for advanced word processing, database management, advanced spreadsheets, and presentation software.

(Note: This class has a fee.)

847 - DESKTOP PUBLISHING - _ credit
(1 semester only)
(Grades 10-12)

Selected students will learn to combine skills in computers, writing, and desktop publishing to produce publications such as flyers, announcements, programs, and invitations. Using PageMaker 7.0 for Windows, students will learn the basics of page layout. Using Adobe Photoshop, students will learn to edit and create digital images. Sophomores interested in working on the yearbook should strongly consider this course for preparation and an introduction to PageMaker. Selected students should have:

- above average ability in composition and grammar.
- computer/keyboarding experience.
- initiative to work alone and ability to work with others.
- responsibility to meet deadlines.

(Note: This class has a fee.)

848 - COMPUTER SCIENCE 1 - 1 credit
(Grades 10-12)

Prerequisite: "C" in Math 9 or "B" in Math 10

This course will offer students an introduction to computer programming using Visual BASIC and HTML (HyperText Markup Language). Visual BASIC programming will deal with topics such as variable and data types and program structures used in simple Windows programs. HTML will give the student sufficient background to design pages for the World Wide Web using tags and web page. The course will also include investigations into computer hardware that will provide the student with an ability to troubleshoot a variety of computer problems.

(Note: This class has a fee.)

849 - COMPUTER SCIENCE 2 - 1 credit
(Grades 10-12)

Prerequisite: "C" in Computer Science 1

This course will take students further in programming with Visual BASIC with emphasis on using Visual BASIC to create database applications. Students will also investigate other operating systems and assist in troubleshooting and repairing computer systems. If time permits, students will be introduced to programming using the C and C++ languages.

A+ COMPUTER TECHNOLOGY (P) - 4 credits
(Grades 11-12)

A two-year program which is part of a national initiative in technical education leading to an associate's degree in Microcomputer Technology, Data Processing, Telecommunications, or other areas in business.

COMPUTER SYSTEMS & NETWORKING (P) -4 credits
(Grades 11-12)

Prerequisite: A 2.5 G.P.A. and at least a "C" in Integrated Math

A two-year program, which is part of a national initiative in technical education leading to an associate's degree in Microcomputer Technology, Data Processing, Telecommunications, or other areas of business. Students

prepare for certification tests in A+ and a networking certification.

**GEOSPATIAL INFORMATION SYSTEMS (GIS) (P) -4 credits
(Grades 11-12)**

This new two-year Information Technology Tech Prep program leads to certification as a Geospatial Technician and/or articulated credit in related post-secondary majors. Students will use mapping software developed by NASA (National Aeronautics and Space Administration) to gather data, create and analyze charts, graphs, maps and other visuals that are used in a wide variety of career fields. GIS has recently been identified as one of the top three emerging career fields by the U.S. Department of Labor, Education and Training Administration. The program will integrate Science, Technology, Engineering and Math (STEM) competencies using an integrated approach to learning.

English Department

Course Name	Credit	Grade Offered	Prerequisite
Reading SC (108 SC)	1	9	IEP and Teacher Recommendation
Reading SC (109 SC)	1	10	IEP and Teacher Recommendation
English 9 (111)	1	9	None
English 9 (112)	1	9	Teacher Recommendation
English 10 (121)	1	10	Pass English 9
English 10 (122)	1	10	Teacher Recommendation
English 11 (131)	1	11	Pass English 10
English 11 (132)	1	11	Teacher Recommendation
English 12 (141)	1	12	Pass English 11
English 12 (142)	1	12	Teacher Recommendation
Speech Communication	—	11,12	“C” in English 10
PSAT/SAT/ACT Prep	—	9,10,11,12	None
Theatre 1	—	9,10,11,12	None
Theatre 2	—	9,10,11,12	Theatre 1 and Teacher Permit
Advanced Theatre	—	10,11,12	Theatre 2 and Teacher Permit
Language Arts SC (151 SC)	1	9	IEP and Teacher Recommendation
Language Arts SC (152 SC)	1	10	IEP and Teacher Recommendation

Note: English 111/112, 121/122, 131/132, and 141/142 (or their equivalents as approved by the principal) are required for graduation. Courses such as Speech, PSAT/SAT/ACT Prep, Humanities, Reading, Theatre, and Advanced Theatre are electives only.

**108SC - READING SC - 1 credit
(Grade 9)**

Prerequisite: IEP and Teacher Recommendation

This elective class has a portion of the content of English 111 except modifications may be made to meet the individual student’s needs in a self contained (SC) classroom.

**109SC - READING SC - 1 credit
(Grade 10)**

Prerequisite: IEP and Teacher Recommendation

This elective class has a portion of the content of English 121 except modifications may be made to meet the individual student’s needs in a self contained (SC) classroom.

**111 - ENGLISH - 1 credit
(Grade 9)**

English 111 is considered a foundation course. Students will become acquainted with the basic rules of grammar, spelling, punctuation, parts of speech, and capitalization. Students will practice basic sentence patterns and build better vocabularies. Writing will focus on topic sentence structure, paragraph writing, and development of five paragraph essays. The writing will be based on literature selections including short stories, drama, and poetry, as well as upon personal experience.

(Note: This class has a fee.)

**112 - ENGLISH (Honors) - 1 credit
(Grade 9)**

Prerequisite: Teacher recommendation

English 112 is a foundation course. It will follow the English 111 format, but the grammar exercises will be accelerated, the vocabulary units will be intensified and the literature selections will be more fully analyzed. Students will be writing essays and responses to literature. Students must have the recommendation of an 8th grade English teacher and have a “B” average in grammar and writing classes at the middle school.

(Note: This class has a fee.)

**121 - ENGLISH - 1 credit
(Grade 10)**

Prerequisite: Pass English 9

This course will focus upon American literature after 1870 and will parallel American history class and will include cross-curricular assignments and projects. The course also covers the material featured in the Ohio Tenth Grade Proficiency Test. The class will include a brief review unit of the Colonial and Revolutionary Periods, but will quickly jump to the post-Civil War era of literature. The course will also include the study of composition, vocabulary, grammar and usage. Students will do short research projects which utilize print and non-print sources. Each student will also be required to read a minimum of seven complete books in addition to the text.

(Note: This class has a fee.)

**122 - ENGLISH (Honors) - 1 credit
(Grade 10)**

Prerequisite: Pass English 9 and have “B” average or higher in freshman English or consent of instructor.

English 122 will also focus upon American literature after 1870 and will parallel the American history classes. The course is designed to teach the material covered on the Ohio Tenth Grade Proficiency Test. This course will include cross-curricular assignments and projects. The course will review Colonial and Revolutionary literature but will quickly jump to the post-Civil War era. The course will include the study of composition, grammar, usage, and vocabulary. Each student will be required to do research projects. This course will include more focus upon literary analysis, scholarly writing, and discussion in order to prepare students for the rigors of college English classes. Students will also do a research project on a college and will go on some field trips to visit area colleges. Students will also be expected to read a minimum of nine complete books in addition to the text.

(Note: This class has a fee.)

**131 - ENGLISH - 1 credit
(Grade 11)**

Prerequisite: Pass English 10

This course will focus upon early American literature from the Mayflower to 1870. The course will also include paperback selections to supplement the text. Students will study grammar, usage, vocabulary, and composition. Each student will also write an eight-page research paper which uses print and non-print sources. Students will read at least seven books in addition to the text.

(Note: This class has a fee.)

**132 - ENGLISH (Honors) - 1 credit
(Grade 11)**

Prerequisite: Pass English 10 and have “B” average or higher in sophomore English or consent of instructor.

This course will focus upon early American literature from the Mayflower to 1870. The course will also include paperback selections to supplement the text. Students will study grammar, usage, vocabulary, and composition. Each student will write a ten-page research paper that uses print and non-print sources.

(Note: This class has a fee.)

**141 - ENGLISH - 1 credit
(Grade 12)**

Prerequisite: Pass English 11

Students will read modern and contemporary essays and literary works that cross the curriculum. Various types of expository and creative writing will be introduced, and students will learn to write summaries and syntheses based upon readings done in class. A short research paper will also be required. The course focuses on improving writing skills for the demands of freshman composition at the university level. Students will develop a writing portfolio that includes Career Passport items.

(Note: This class has a fee.)

**142 - ENGLISH (HONORS) - 1 credit
(Grade 12)**

Prerequisite: Pass English 11 and have at least a “B” average in English 132 or consent of instructor

This class will focus upon the literature and history of Great Britain. Composition skills will also be taught as students write analyses of reading assignments as well as personal experience narratives. Students who are contemplating colleges should take this course. English 142 also requires a researched literary analysis paper and a heavier reading load than English 141 requires. Students will complete the requirements for the Career Passport. **In order to reflect the increasing difficulty level of this offering, the student's grades are weighted. This class is one of the three weighted classes offered at OHS.**

(Note: This class has a fee.)

Addendum to the Language Arts Course of Study

Any student requesting a move from a general course to an Honors course must maintain at least a “B” average for the year and receive written approval from all members of the English Department with the final decision from the principal. For example, a student may not transfer into English 142 (Honors) from English 131 without a teacher’s recommendation and the unanimous approval of the English Department. Written verification of this approval is required to transfer into English 142.

143 - SPEECH COMMUNICATION - _ credit
(1 semester only)
(Grades 11-12)

Prerequisite: Must have at least a "C" in English

Students will become proficient in the areas of problem solving, interpersonal skills, oral communication, listening skills, group presentations, and debates. These skills are necessary for the college bound student as well as for anyone who wants to become a more effective communicator.

(Note: This class has a fee.)

144 - PSAT/SAT/ACT PREP CLASS - _ credit
(1 semester only)

Prerequisite: passed Math 2
(Grades 11-12)

The class will be team taught by an English teacher and a math teacher. Students will learn specific test taking strategies designed to increase speed and to improve standardized test scores. Sophomores are especially urged to take the course so that they will be prepared for the PSAT (National Merit Scholarship Test) which is administered during the fall of the junior year. The course will cover geometry, algebra, and trigonometry, as well as practice in learning vocabulary, usage, and reading skills that are needed to excel on these tests. Much of class time will be instruction which addresses areas of weakness. Enrollment is limited to 25 students per semester and may be repeated once for credit.

(Note: This class has a fee.)

147 - THEATRE 1 - _ credit
(1 semester only)
(Grades 9-12)

This elective semester course begins as an overview of the dramatic arts including acting, directing, design, and production. After the overview, the class will focus on acting and include improvisation, theatre games, monologues, scene work, and audition preparation. Field trips, guest speakers, and special projects will be featured.

(Note: This class has a fee.)

148 - THEATRE 2 - _ credit
(1 semester only)
(Grades 9-12)

Prerequisite: Theatre 1 and teacher permission

In this elective semester course, students will lead warm-ups, teach games, and prepare demonstrations for projects. In addition, they will extend their study of acting by learning vocal warm-ups, extended scene work, and interpretation of verse.

(Note: This class has a fee.)

1491 - ADVANCED THEATRE - _ credit
(1st semester only)

(Grades 10-12)

Prerequisite: permission from the instructor

This semester elective course is for the serious theatre student who intends to continue his/her studies in a communications field in college. The class will explore theatre more than just entertainment but as a vehicle to social change. After looking at the history of social theatre, the class will decide on current social issues to write their own plays about, rehearse and present to suitable audiences. This class focuses highly on the students' abilities to collaborate.

**1492 - ADVANCED THEATRE - _ credit
(2nd semester only)
(Grades 10-12)**

Prerequisite: permission from the instructor

This semester elective course is for the serious theatre student who intends to continue his/her studies in a communications field in college. Focusing on the non-acting arts in theatre, students taking this course will begin by studying each year's spring production and the technical needs required. Working in collaboration with the director, the class will then design, develop and construct all technical elements of the spring show including set, lights, costumes, sound, props and make-up.

(Note: This class may require work outside the school day.)

**151SC - LANGUAGE ARTS SC - 1 credit
(Grades 9-10)**

Prerequisite: IEP and Teacher Recommendation

This class has a portion of the content of English 111 except modifications may be made to meet the individual student's needs in a self contained (SC) classroom.

(Note: This class has a fee.)

**152SC - LANGUAGE ARTS SC - 1 credit
(Grades 9-10)**

Prerequisite: IEP and Teacher Recommendation

This class has a portion of the content of English 121 except modifications may be made to meet the individual student's needs in a self contained (SC) classroom.

(Note: This class has a fee.)

**153 - YEARBOOK I and II – 1 Credit each
(Grades 10-12)**

Prerequisite: Permission from instructor

Yearbook I and II

The yearbook course is an interdisciplinary language arts elective and offers the student total involvement in the production of the school yearbook. Activities include advertising, layout planning, photography, copy writing and editing, and other journalistic tasks. Students master advanced layout and design of desktop publishing, digital imagery, and photo placement. In addition to developing higher level writing skills and business management procedures, students enhance their knowledge of the laws and ethics of journalism and marketing. The course requires students to fill an editor's position or take a leadership role on the publication staff as well as attend high school events in order to take digital photographs. Admission to the course is by application only, and upon recommendation by the teacher, a student may repeat the course for elective credit.

(This class has a fee.)

Family & Consumer Science Department

<u>Course Name</u>	<u>Credit</u>	<u>Grade Offered</u>	<u>Prerequisite</u>
Living Today	1	9,10	None
Living Today SC	1	9	IEP and Teacher Recommendation
Living Today SC	1	10	IEP and Teacher Recommendation
Fitness & Food for Life	–	10,11,12	None
Career Choices	–	9	None
Financial Mgmt...	–	11,12	None
Career & College Planning	–	11,12	None
Discovering Foods	–	10,11,12	None
Creative Cooking	–	10,11,12	None
Married/Single Life	–	11,12	None
Child Development and Parenting	–	11,12	None
<hr/>			
Cosmetology (P)	4	11,12	“C” in science
Culinary Arts(P)	4	11,12	None
Early Childhood Ed.(P)	4	11,12	None
Hair Design (P)	4	11,12	None
Teaching Professions (P)	4	12	None

Class Descriptions

Program of Studies

750 Living Today – 1 credit
(Grades 9-10)

This year long course integrates management of personal transitions, financial literacy and consumer trends. Personal insights in the areas of academic achievement, family relationships, and social skills will also be encouraged. Group cooking, meal planning labs and clothing construction projects will be used to improve problem-solving skills, build interpersonal and collaborative skills

752 Career Choices– _ Credit
(Formerly known as Changes and Choices)
(1 Semester only)
(Grade 9 or 10 if new to Otsego school district)

Career Choices is required for graduation and the class to take to help you plan your future. During class work values, aptitudes and abilities are matched to specific career areas. You will learn more about these careers and the education needed. Decision making, time management skills, stress reduction, multicultural relationships, and environmental awareness are other topics covered. Later in the semester you will learn how to write a resume, apply for a job and about interviewing.

753 **Financial Management for Self and Family– _ credit**
(Formerly known as On Your Own)
(1 Semester only)
(Grades 11-12)

This class meets Ohio’s Personal Financial Literacy graduation requirement.

Will you be on your own soon? Will you be managing your own time and money? Do you have questions about insurance, loans, taxes, credit cards, or consumer rights? Are you going to be shopping for and preparing your own meals? Are you still undecided about college or a career? If you can answer “yes” to any of these questions, then this class is for you! This course will help students evaluate resources, financial institutions and services that meet individual, family, and business goals, protect financial health including credit and debit and prevent loss of assets. **Dual enrollment with Owens Community College pending.**

***By combining Financial Management and Career and College planning into a year-long course, students will have all the tools needed for success and survival in college and in life! (and college credit!)

754 **Career and College Planning -1/2 credit**
(1 Semester only)
(Grades 11-12)

This course may be taken by students moving into the Otsego Local District instead of Career Choices and also meets Ohio’s Personal Financial Literacy requirement.

What will you be doing after high school? This class will help you match your abilities and interests to specific careers you would enjoy. During class we will research and compare options for future educational needs. Do you want to learn more about applying to colleges, apprenticeships and the military? How will you pay for college and manage your finances to meet future goals? Other topics covered include interpersonal skills, conflict resolution and decision-making . **Dual enrollment with Owens Community College-2 credit hours.**

755- **Fitness and Food for Life _ credit)**
(1 semester only)
(grades 10-12)

This course emphasizes the importance of lifelong healthy eating and physical activity. Discussion will be centered around developing and maintaining an active lifestyle. Students will also learn about healthy eating and basic principles of nutrition. This is an excellent class for anyone interested in developing a lifelong nutrition and wellness plan. It is a must for athletes interested in learning what to eat to compete. Fitness and Food is highly recommended for anyone who will take a nutrition class in college or has an interest in becoming a dietician, athletic trainer, or physical therapist.

756 **Discovering Foods _ credit**
(1 semester only)
(Grades 10-12)

This is a semester class designed to promote a healthy lifestyle. During the semester we will discuss the importance of making healthy food choices and the impact on overall health. Social and cultural factors that influence our health will also be addressed. We will choose recipes and meals that promote good nutrition. Proper food handling and kitchen practices will be addressed in the cooking labs.

757 **Creative Cooking for Healthy Living (1 semester only) (1/2 credit)**
(formerly International Foods)
(grades 10-12)

This is a semester class that will look at creative solutions that will lead to healthy living and develop practical problem solving skills that influences cultural and social factors that affect the body weight and healthy lifestyles. Students will evaluate nutrition information and choose foods and prepare recipes for healthy lifestyle outcomes. The cooking labs promote safe food handling practices related to food-borne pathogens and kitchen environments.

759 **Married and Single Life- _ credit**
(1 Semester only)
(Grades 11-12)

If you think high school friendships and relationships are tricky, imagine handling the challenges of adult relationships. Are you ready for single life on your own? Is marriage in your future? Will you start a family? This course examines personal life transitions including dating, love and marriage. The issues of divorce, separation, loss within the family and the skills necessary to meet these challenges are also covered. This is an excellent class for anyone considering a career in social work, counseling or human services.

760 **Child Development and Parenting - _ credit**
(1 Semester only)
(Grades 11-12)

If you are considering a career in elementary education, secondary education, social work, counseling or human services this class will offer you valuable information. What skills are needed to build healthy families where children thrive? How do families prepare for prenatal, birth and infant care? Current theory and research related to child growth and development will also be explored?

Foreign Languages Department

Course	Credit	Grades offered	Prerequisite
French 1	1	9,10,11,12	“C” in Language Arts and/or teacher approval
French 2	1	10,11,12	“C” in French 1
French 3	1	11,12	“C” in French 2
French 4	1	12	“C” in French 3
Spanish 1	1	9,10,11,12	“C” in Language Arts and/or teacher approval
Spanish 2	1	10,11,12	“C” in Spanish 1
Spanish 3	1	11,12	“C” in Spanish 2
Spanish 4	1	12	“C” in Spanish 3

Note: Students should be aware of university requirements and recommendations for unconditional admission which may involve taking a foreign language or foreign languages in high school. Also, these courses will only be offered if numbers in enrollment are there. This is at the discretion of the Principal and Superintendent.

200 - FRENCH 1 - 1 credit (Grades 9-12)

Prerequisite: For 8th graders, “B” average in English Grammar

Prerequisite: For 9th-12th graders, “B” average in High School English

This is a beginning level course, which focuses on using the four communication skills, listening, speaking, reading and writing, at the basic level. The course is taught in French and English. Every attempt will be made to move the student beyond the use of English as they progress in mastery of the 4 skills. Students will be expected to use these skills to express themselves orally and in writing as well as understanding the communication of others, (including native speakers), over a controlled set of topics surrounding everyday life. (Note: This class has a fee.)

201 - FRENCH 2 - 1 credit (Grades 10-12)

Prerequisite: 10th-12th grade, “C” in French 1

This is a beginning level/intermediate level course, which focuses on using the four communication skills at the basic level: listening, speaking, reading and writing. The course is taught in French and English. Every attempt will be made to move beyond the use of English as the students develop mastery of the 4 skills. Students will be expected to use the 4 skills to try to understand the communication of others, (including native speakers), and to express themselves orally and in writing in French. This will be done using a controlled set of topics surrounding everyday life to create communication and supply the ideas on which we will be practicing the 4 skills.

(Note: This class has a fee.)

202 - FRENCH 3 - 1 credit
(Grades 11-12)

Prerequisite: "C" in French 2

This course is the third (intermediate) level in the four-year French program. It is taught in French, stressing creative, and somewhat more independent, use of the language by the student. Students will continue to develop greater comprehension and fluency in the basic skills of listening, speaking, reading and writing, but they will also be introduced to the use of the language for the formulation of abstract ideas. Students will begin to study idiomatic language, hypothetical situations, and speaking conditionally. Culture is stressed at this level through film, reading, projects and individual research. Students will complete a research project on some aspect of French culture.

(Note: This class has a fee.)

203 - FRENCH 4 - 1 credit
(Grade 12)

Prerequisite: "C" in French 3

This course is taught in French, stressing interactive use of the language by the student across all of the four skills. Students will practice the basic skills and continue to extend their use of more complex language. Students will be expected to use French in the classroom. There will be strong emphasis on individual research on short topics in geography, politics, history, literature and current events. Students will be required to write a final research paper, prepare an oral report from this paper. They will also read one small novel and will have access to culturally accurate reading materials, film, technology, and in and out of the classroom activities. Students are advised that to succeed in this course one needs good study habits.

(Note: This class has a fee.)

210 - SPANISH 1 - 1 credit
(Grades 9-12)

Prerequisite: "B" average in English and teacher approval

This is a beginning level course, which focuses on using the four communication skills: listening, speaking, reading and writing, at the basic level. The course is taught in Spanish primarily, with some English. Every attempt will be made to move the student toward the use of Spanish as they progress in the mastery of the 4 skills. Students will be expected to use these skills to express themselves orally and in writing, as well as in their attempts to understand the communication of others (including native speakers), over a controlled set of topics surrounding everyday life.

(Note: This class has a fee.)

211 - SPANISH 2 - 1 credit
(Grades 10-12)

Prerequisite: "C" average in Spanish I

This course is taught mainly in Spanish, Stressing interactive use of the language by the student across all of the four skills: listening, speaking, reading and writing. Students will practice the basic skills and extend their use of the language skills they acquired in Spanish I. They will be working to develop greater comprehension and fluency by using more complex language patterns, including discussion of things that happened in the past, or will happen the future. The students will be expected to understand the communication of others, as well as to use the 4 skills to express themselves orally and in writing over a controlled set of topics surrounding everyday life. When we begin reading and writing, it will be with the goal of developing critical thinking skills to produce independent language.

(Note: This class has a fee.)

**212 - SPANISH 3 - 1 credit
(Grades 11-12)**

Prerequisite: "C" average in Spanish 2

This course is the third (intermediate) level in the four-year Spanish program. It is taught in Spanish, stressing creative, and somewhat more independent, use of the language by the student. Students will continue to develop greater comprehension and fluency in the basic skills of listening, speaking, reading and writing, but they will also be introduced to the use of the language for the formulation of abstract ideas. Students will begin to study idiomatic language, hypothetical situations, and speaking conditionally. Culture is stressed at this level through film, reading, projects and individual research. Students will complete a research project on some aspect of Spanish culture.

(Note: This class has a fee.)

**213 - SPANISH 4 - 1 credit
(Grade 12)**

Prerequisite: "C" average in Spanish 3

This course is taught in Spanish, stressing use of the language by the student across all of the four skills (listening, speaking, reading, and writing). Students will continue to develop their fluency and to develop their proficiency to listen to speak about, read, and write about abstract ideas. Students will be expected to use Spanish in the classroom. There will be a strong emphasis on individual research topics in geography, politics, history, and literature. Students are required to write a final research paper for which they will complete several small searches using valid Internet websites. They will also read one short book having to do with their research topic or some aspect of Spanish culture. They will have access to culturally accurate reading materials, film, and technology.

(Note: This class has a fee.)

Health & Physical Education

Course	Credit	Grades Offered	Prerequisite
Health	—	10	None
Health SC	—	10	IEP and Teacher Recommendation
Advanced Health	—	12	Health 800
Physical Education	—	9,10,11,12	None
Advanced Physical Education	—	11,12	P.E. 805
Weight Training	—	10,11,12	Complete P.E. Requirements
<hr/>			
Dental Assistant (P)	4	11,12	“C” in Science
Exercise Sci./Sports Health Care (P)	4	11,12	3.0 GPA, “C” in Math & Biology
Medical Technologies(P)	4	11,12	None
Medical Tech. Prep (P)	4	11,12	2.5 GPA, “C” in Math & Biology

**800 - HEALTH - _ credit
(1 semester only)
(Grades 10)**

This required course in health is designed to develop new and to enhance existing habits, attitudes and knowledge related to individual and social health. It is the objective of the health classes to present the human system in its entirety to the student. Emphasis is placed on the needs of the student mentally, physically and socially.

(Note: This class has a fee.)

**800SC - HEALTH SC - _ credit
(1 semester only)
(Grade 10)**

Prerequisite: IEP and Teacher Recommendation

This class has the same content as Health except modifications may be made to meet the individual student's needs in a self contained (SC) classroom.

(Note: This class has a fee.)

**801 - ADVANCED HEALTH - _ credit
(1 semester only)
(Grade 12)**

Prerequisite: Must have passed Health 800 with at least a “C” average

Upon completion of this class, students will receive certification in First Aid and CPR (infant, child, and adult).

Students may receive college credit for this class.

(Note: This class has a fee.)

805 - PHYSICAL EDUCATION - _ credit
807 (1 semester only)
(Grades 9-12)

This course is planned to develop skills in activities that will provide for personal enjoyment and worthy use of leisure time as well as the development of physical fitness and efficient use of the body in all activities. Activities will be taught on a unit basis and will include the following: softball, touch football, basketball, volleyball, archery, badminton, golf, tumbling, gymnastics, track and field, speedball, and soccer.

810 - ADVANCED PHYSICAL EDUCATION - _ credit
811 (1 semester only)
(Grades 11-12)

Prerequisite: Must have passed P.E. 805

This course is designed to give the student an opportunity to stay physically fit by playing team sports as well as other lifetime recreational activities. These activities will be combined with weight room workouts two days a week. This will help the student with key points of power lifting, athletic weight training and bodybuilding. Field trips are planned whenever possible. Students must have a serious attitude toward playing activities before they enroll in this course. Enrollment is limited to 20 students per class.

815 - WEIGHT TRAINING - _ credit
816 (1 semester only)
(Grades 11-12)

Prerequisite: Completion of Physical Education requirements

This elective course is designed for the student interested in developing speed and power for athletics, physical fitness, and daily living. Students are required to take an active role in the learning process. This class includes initial development in the techniques of proper lifting followed by testing to determine baseline strength and abilities. Emphasis will be placed on teaching the proper exercise technique; safety, spotting and program design to effectively and safely enhance the individual's strength and fitness level. Students are required to chart their daily work in the weight room.

Industrial Technology Department

Course	Credit	Grade Offered	Prerequisite
Mechanical Drawing	1	9,10,11,12	None
Architectural Drawing	1	9,10,11,12	None
Industrial Technology I	1	9,10,11,12	None
Industrial Technology II	1	10,11,12	Industrial Tech I
Industrial Technology III	1	11,12	Industrial Tech II
Industrial Technology IV	1	11,12	Industrial Tech III
<hr/>			
Automotive Collision Repair (P)	4	11,12	None
Automotive Technology (P)	4	11,12	None
Construction Masonry (P)	4	11,12	None
Construction Remodeling (P)	4	11,12	None
Construction Carpentry (P)	4	11,12	None
Computer-Aided Design (P)	4	11,12	None
Construction Electricity (P)	4	11,12	None
Gas & Diesel Engine System (P)	4	11,12	None
HVAC/R Piping Systems Tech. (P)	4	11,12	None
Machining/Int. Systems Tech. (P)	4	11,12	None
Welding (P)	4	11,12	None

850 - MECHANICAL DRAWING - 1 credit (Grades 9-12)

Correct usage of the instruments is stressed. Geometric figures, dimensions, scale drawing, isometric views, three-view drawings, hidden views, perspective views, and alphabet of lines and symbols are a few of the topics covered.

(Note: This class has a fee.)

855 - ARCHITECTURAL DRAWING - 1 credit (Grades 9-12)

An introduction to architectural drawing and home planning will be studied.

(Note: This class has a fee.)

860 - INDUSTRIAL TECHNOLOGY I - 1 credit (Grades 9-12)

This is an introduction to project design and drawings. Students will do a quality insurance project in wood. Students will study and produce a mass production project. Construction and transportation are topics that will be covered also.

Students must pass a safety test to remain in class.

(Note: This class has a fee.)

**865 - INDUSTRIAL TECHNOLOGY II - 1 credit
(Grades 10-12)**

Prerequisite: Successful completion of Industrial Technology I

Advanced work and more complex projects are encouraged. After an introduction to advanced woodwork, the student may select any area that was covered in Industrial Technology to specialize in for the remainder of the school year.

Students must pass a safety test to remain in class.

(Note: This class has a fee.)

**867- INDUSTRIAL TECHNOLOGY III - 1 CREDIT
(Grades 11, 12)**

Prerequisite: Successful completion of Industrial Technology II and approval from instructor

Advanced Cabinetmaking and Wood Construction. Students will design and build advanced projects in cabinetry, furniture making and wooden structures. Designs are approved and supervised by the instructor. Projects may include school-based, and community-based service constructions.

(Note: This class has a fee.)

**869 INDUSTRIAL TECHNOLOGY IV – 1 CREDIT
(GRADES 11, 12)**

Prerequisite: Successful completion of Industrial Technology III and approval from instructor

Independent Study in Advanced Cabinetmaking and Wood Construction. Students will design and build advanced projects in cabinetry, furniture making and wooden structures. Designs are approved and supervised by the instructor. Projects may include school-based, and community-based service constructions. Students will, under the direct supervision of the instructor, assist in project preparation for, and instruction of beginning students.

(Note: This class has a fee.)

**AUTO COLLISION REPAIR (P) - 4 credits
(Grades 11-12)**

This is a two-year program for students who want to pursue a career in collision repair and painting. Students are trained in all aspects of auto body repair.

**AUTOMOTIVE TECHNOLOGY (P) - 4 credits
(Grades 11-12)**

This is a two-year program for students who want to pursue a career in the automotive technology industry. Upon successful completion of this program, students are exposed to all aspects of automobile repair.

**CONSTRUCTION REMODELING (P) - 4 credits
(Grades 11-12)**

This is a two-year program for students interested in rough and finish carpentry, plumbing, basic electricity, heating and air conditioning, and general property maintenance and repair. Students will learn to inspect structures and determine a repair or remodeling plan.

CONSTRUCTION CARPENTRY (P) - 4 credits
(Grades 11-12)

This is a two-year program designed to provide students basic carpentry experiences in rough and finish carpentry construction. Students will develop the concepts, understanding, and skills required for successful employment in construction trades.

COMPUTER-AIDED DESIGN (P) - 4 credits
(Grades 11-12)

This is a two-year program for students who want to pursue a career in computer design and other technological fields of engineering and architecture. Students will learn to use the latest equipment in computer-aided design.

CONSTRUCTION ELECTRICITY (P) - 4 credits
(Grades 11-12)

This is a two-year program designed that provides students with the basic skills required for successful employment in electrical construction positions. Students develop the concepts, knowledge, and skills that are applicable to many other construction occupations.

CONSTRUCTION MASONRY (P) - 4 credits
(Grades 11-12)

This is a two-year program in which students are taught basic manipulative skills and related work associated with the masonry trades. The ultimate goal is to enable the student to enter gainful employment in the masonry construction area.

GAS & DIESEL ENGINE SYSTEMS (P) - 4 credits
(Grades 11-12)

This is a two-year program designed to provide students the skills needed for employment in either a small engines career which covers the repair of lawn, industrial, and recreational equipment; or a career in industrial tractor trailer, or agricultural engine repair and maintenance.

HVAC/R PIPING SYSTEMS TECHNOLOGY (P)
- 4 credits
(Grades 11-12)

A two-year program developed for students interested in a career in the heating, ventilation, air conditioning, refrigeration, pipefitting, and plumbing industry. There is an increasing demand for trained technicians in this industry. The program will help students develop skills to renovate, convert, and service HVAC and plumbing equipment.

MACHINING/INTEGRATED SYSTEMS TECHNOLOGY
(P) - 4 credits
(Grades 11-12)

Machining/Integrated Systems Technology is a two-year program designed to provide students with skills in machining, welding, electricity, plumbing/pipefitting, hydraulics/pneumatics, and metal fabrication. Machining/Integrated Systems Technology is an ideal program for the young person interested in working with his/her hands but is undecided on an exact career choice. This program provides training in a wide range of areas. Students still have the opportunity to specialize once they have decided on their major area of interest, or they can use the variety of skills they have learned to work in a high

paying field of industrial maintenance. Mass production is the basis for most every business, from car companies to computer giants. This means that if something goes wrong on the “line,” someone must fix it right away to prevent delays that cost the company money. This is the job of an integrated systems employee. Students are instructed in the areas of Precision Machining, Welding, Electricity, Hydraulics/ Pneumatics, Plumbing / Pipefitting, and Metal Fabrication

WELDING (P) - 4 credits
(Grades 11-12)

This is a two-year program in which students will become proficient in reading blueprints and welding symbols, performing welding processes, and developing safe working habits. Upon completion, students can production weld, fabricate metal, read and interpret blueprints and drawings, diagnose trouble, and make minor repairs to equipment.

Math Department

<u>Course</u>	<u>Credit</u>	<u>Grades Offered</u>	<u>Prerequisite</u>
Integrated Math 1A	1	9	None
Integrated Math 1	1	9	Pass Math 8
Integrated Math 1 SC	1	9	IEP and Teacher Recommendation
Integrated Math 2	1	10	Pass Math 9
Integrated Math 2 SC	1	10	IEP and Teacher Recommendation
Integrated Math 3	1	11	Pass Math 10
Integrated Math 4	1	12	Pass Math 11
Accelerated Integrated Math 1	1	9 Teacher Permit	Honors Math
Accelerated Integrated Math 2	1	9,10	“B” Math 9 Teacher Permit
Accelerated Integrated Math 3	1	10,11	“B” Math 10 Teacher Permit
Pre-Calculus	1	11,12	“B” Math 10,11 Teacher Permit
Calculus	1	12	“B” in Pre-Calc., Comp. Science I

(Note: Students may be required to purchase and use a graphing calculator for these courses. A T1-83 plus or equivalent is recommended.)

401A- INTEGRATED MATH 1A – 1 credit (Grade 9)

This is an intervention course designed for students needing remedial math help. The intent of this course is to present a thorough review of basic arithmetic topics, introduce the integrated approach to teaching mathematics (beginning algebra skills, geometric relationships, organizing data and information, data analysis and probability, and problem solving strategies), and begin preparing students for the math OGT test. This course is a concrete, hands-on approach to math. Students will receive a math credit for successfully completing this class.

401 - INTEGRATED MATH 1 - 1 credit (Grade 9)

Prerequisite: Pass Math 8

This course will focus on beginning algebra skills, geometric relationships, organizing data and information, data analysis and probability, and problem solving strategies. This course is a concrete, hands-on approach to math. Integrated Math 1, 2, 3, and 4 should be taken in succession to learn the full range of math concepts begun in this course.

401SC - INTEGRATED MATH 1 SC - 1 credit (Grade 9)

Prerequisite: IEP and Teacher Recommendation

This class has a portion of the content of Integrated Math 1 except modifications may be made to meet the individual student's needs in a self contained (SC) classroom.

**402 - INTEGRATED MATH 2 - 1 credit
(Grade 10)**

Prerequisite: Pass Math 9

This course is a continuation of Integrated Math I. There will be more work on algebra skills, geometric relationships, organizing data and information, data analysis and probability, and problem solving strategies. This course is a concrete, hands-on approach to math. Integrated Math I, II, III, and IV should be taken in succession to learn the full range of math concepts begun in Integrated Math I.

**402SC - INTEGRATED MATH 1 SC - 1 credit
(Grade 9)**

Prerequisite: IEP and Teacher Recommendation

This class has a portion of the content of Integrated Math 2 except modifications may be made to meet the individual student's needs in a self contained (SC) classroom.

**403 - INTEGRATED MATH 3 - 1 credit
(Grade 11)**

Prerequisite: Pass Math 10

This course is a continuation of Integrated Math II. Advanced algebraic and geometric concepts will be covered. Problem solving strategies and application problems involving real situations will be emphasized. Integrated Math 1, 2, 3, and 4 should be taken in succession to learn the full range of math concepts.

**404 - INTEGRATED MATH 4 - 1 credit
(Grade 12)**

Prerequisite: Pass Math 11

This course is the culmination of the integrated series and therefore presents the most in-depth coverage of algebra, geometry, and data analysis. Problem solving strategies and application problems involving real situations will be emphasized.

**405 - ACCELERATED INTEGRATED MATH 1 - 1 credit
(Grade 9)**

Prerequisites: Honors Math 8 and teacher permission

A rigorous approach will be used when presenting topics on algebra, geometry, data analysis and probability, and problem solving strategies. Accelerated Math 1, 2, and 3 should be taken in succession to learn the full range of math concepts begun in this course.

**406 - ACCELERATED INTEGRATED MATH 2 - 1 credit
(Grades 9-10)**

Prerequisites: "B" in Accelerated Integrated Math 1 or teacher permission

This course is a continuation of Accelerated Integrated Math 1. There will be more work on algebra skills, geometric relationships, organizing data and information, data analysis and probability, and problem solving strategies. A rigorous approach will be used. Accelerated Math 1, 2, and 3, should be taken in succession to learn the full range of math concepts begun in this course.

**407 - ACCELERATED INTEGRATED MATH 3 - 1 credit
(Grades 10-11)**

Prerequisites: "B" in Accelerated Integrated Math 2 or teacher permission

This course is a continuation of Accelerated Integrated Math 2. Advanced algebra and geometry concepts will be covered in a very academically challenging manner. Problem solving strategies and application problems involving real situations will be emphasized.

**408 - PRECALCULUS - 1 credit
(Grades 11-12)**

Prerequisites: "B" in Accelerated Math (for juniors) or Math 11 (for seniors) or teacher permission

This Course is a study of functions through a graphing approach. Algebraic topics are continued and extended to more complicated functions, including polynomial functions, rational functions, exponential and logarithmic functions, and trigonometric functions. Emphasis will be placed on the development and application of mathematical principles. This course should prepare the student for a beginning course in Calculus.

**409 - CALCULUS - 1 credit
(Grade 12)**

Prerequisites: "B" in pre-calculus and complete Computer Science 1

This course is a thorough study of functions, limits, derivatives, integration, transcendental functions, polar coordinates, and differential equations as well as various applications. This course will be taught and conducted on a college level and will be demanding in every concept. The student will be expected to spend considerable time in preparation for this class. **In order to reflect the increasing difficulty level of this offering, the student's grades are weighted. This class is one of the three weighted classes offered at OHS.**

Music Department

Course	Credit	Grades Offered	Prerequisite
Band	1	9,10,11,12	Director Approval
Chorale	1	10,11,12	Audition
Concert Choir	1	9,10,11	Audition
Jazz Band	–	9,10,11,12	Director Approval
Swing Choir	–	9,10,11,12	Audition
Women’s Choir	1	9,10,11,12	None
Men’s Choir	1	9,10,11,12	None
Music Appreciation	1	9,10,11,12	None
Music Theory	1	9,10,11,12	None

**950 - CHORALE - 1 credit
(Grades 10-12)**

Prerequisite: Audition

The Otsego Chorale is open to freshmen (only if selected for Swing Choir), sophomores, juniors and seniors by audition only. The choir director will hold auditions the year before (when scheduling classes for the upcoming school year). The purpose of the choir is to experience choral music using four to eight part selections through accompanied and a cappella singing. Students will also improve their skills of accurate sight-reading and rhythm production by rehearsing and performing many different styles of choral music. The Chorale will have several public performances: Fall Concert, Holiday Concert, Mid-Winter Concert, Spring Concert and the OMEA Large Ensemble District and State Contest. More performances may be added as the demand for such performances increases. Students have the option of participating in the OMEA District solo and ensemble contest. Attendance is mandatory at all performances. Students need to be a member of the concert choir for at least one year before becoming a member of the Otsego Chorale – acceptance into Chorale is at the Director’s discretion.

(Note: Students will be required to purchase an outfit and/or pay a uniform fee.)

**951 - BAND - 1 credit
(Grades 9-12)**

Prerequisite: Director approval

The high school band is open to any freshman, sophomore, junior or senior who performs a brass, percussion, or woodwind instrument. Membership is subject to the approval of the director. As with other classes, the year is divided into segments of learning. A portion of the year is dedicated to marching Band while another portion calls for individual students to display their abilities and development in the concert band. This also entails individuals learning in solos/ensembles, etc. The band is a yearly course. The Marching Band requires the student to attend August rehearsals (band camp) and rehearsals prior to performances (e.g. Wood County Fair). Extra rehearsals are held after school on Tuesdays and Thursdays once the school year has started.

Performances for the Marching Band include all football games, pep rallies (fall); selected parades, bonfires, festivals and contests. Other performances may be added at the discretion of the director. The performance of music is the “testing” for band students. Since there are no “make-up” days for our testing, attendance is required for our performances.

(Note: Marching Band students will be required to obtain part of their concert outfits and/or pay a uniform fee.)

GUIDELINES FOR OTSEGO HIGH SCHOOL BAND STUDENTS

INTERESTED IN ATTENDING PENTA CAREER CENTER

Otsego High School and Penta Career Center encourage students to stay involved in extra-curricular activities. Schedules for students who are interested in remaining in the Otsego High School band and attending Penta will be reviewed on an individual basis.

General guidelines:

If a student has a morning lab and afternoon academics, and there are no make-up credits or OGT intervention needed, the student may be able to drop D block first semester. This would allow the student to participate in band every day through marching season and the remainder of first semester. Beginning in January, the student would need to be at Penta for the full day to take academics. Transportation is the responsibility of the student/parent.

- Student may not be credit deficient
- Student must have passed all OGT tests
- Student is only enrolled in 3 academics (English, Math (11th), Social Studies (11th) Science (12th))
- Student has D block (1:27-2:55) open for one semester
- Student has a morning lab

If the above conditions are met, the student may return to Otsego High School for band during one semester (preferably fall).

If a student has morning academics and an afternoon lab, this would need to be looked at on an *individual basis*. Students requesting this option should be aware of the following:

- If students returned for band on Tuesdays and Thursdays only, they would miss approximately three hours of lab per week out of the fifteen hours scheduled per week. This would be missing twenty percent of the career lab each week.
- Students would be expected to maintain close contact with the lab instructor, as work missed would need to be made up. Since lab is largely hands-on in most cases, there may be some work that cannot be made up.
- Students with an adjusted schedule would be expected to be in good standing academically (grades of C or better in the class missed at interim and the end of the quarter,) to continue on an adjusted schedule.
- Transportation is the responsibility of the student/ parent.

If the above conditions are met, the student may return to Otsego High School for band during one semester (preferably fall).

***There is no guarantee that a student's schedule will accommodate a return to Otsego for band.

If you have questions, please feel free to contact:

Jen Clark, Otsego counselor 419-823-4381, extension 2144

Mary Schultz, Penta counselor 419-661-6472

953 - SWING CHOIR (Meets after school) - _ credit (Grades 9-12)

Prerequisite: Audition

The following requirements will apply to students who wish to participate in Swing Choir:

1. Auditions will be required and will involve performing a vocal solo and a short dance routine.
2. Students are required to be a member of the Chorale while participating in Swing Choir.
3. Swing Choir camp is mandatory for all members in Swing Choir. Camp will

- be held the 3rd week of August, before the school year begins.
4. The Swing Choir performs at the OMEA Solo & Ensemble Competition each year. All members of the Swing Choir are required to perform at this contest. The Swing Choir will be involved in many out of school performances and activities that will include dance routines and solo singing. As a performance group representing Otsego High School, emphasis will be placed on attitude, appearance and conduct in addition to performances and attendance. Inappropriate conduct and/or being absent from a performance may warrant removal from the group at the discretion of the director. Performances are mandatory!

(Note: Students will be required to purchase an outfit.)

**954 - CONCERT CHOIR - 1 credit
(Grades 9-11)**

Prerequisite: Audition

The Concert Choir is open to any freshman, sophomore, or junior by audition only. The choir director will hold auditions the year before when scheduling classes for the following year. The students will improve their singing skills of accurate pitch, rhythm reproduction and sight-reading while performing three to four part music in different styles. The Concert Choir is a training choir for the Otsego Chorale. They will be required to perform three yearly concerts with the Chorale. Performances may be added to the calendar as the demand for such performances increases. Students will have the option of participating in District I Solo and Ensemble Contest. Attendance is mandatory for any large ensemble competition in which the choir participates. Attendance is mandatory at all performances.

(Note: Students will be required to purchase an outfit and/or pay a uniform fee.)

**957 - JAZZ BAND - _ credit
(Grades 9-12)**

Prerequisite: Director approval

The Otsego High School Jazz Band is open to any freshman, sophomore, junior, or senior recommended by the director who can fill a role in the traditional instrumentation of the jazz band. From time to time there may be other instruments/personnel added if the music calls for it. Typical instrumentation includes: Trumpets, saxophones, trombones, drum set, auxiliary percussion, guitar, bass guitar, and piano. The jazz band will rehearse after school on Tuesdays and Thursdays once marching band is completed. Students will be graded on attendance at both rehearsal and performances. As well as school sponsored concerts, the jazz band typically performs several concerts outside of our normal school concerts. The jazz band is a much smaller ensemble than the marching band or concert band. Therefore, attendance is important to the success of the group. As with other performing groups at Otsego, attendance is mandatory at all performances. Along with attendance, emphasis will also be placed on attitude, appearance, and conduct. Inappropriate conduct may warrant removal from the group.

**959 - WOMEN'S CHOIR - 1 credit
(Grades 9-12)**

The Women's Choir is open to any freshman, sophomore, junior, or senior (women only). There is no audition process to be involved with the Otsego Women's Choir. The women will improve their singing skills of accurate pitch, rhythm reproduction, and sight-reading while performing three and four part music in different styles. The Women's Choir will be required to perform at four yearly concerts. Performances will be added to the calendar as the demand for performances increase. Students will have the option to perform in the District I Solo/Ensemble Contest. Attendance is mandatory for any large ensemble competition in which the choir participates. Attendance is mandatory at all performances.

(Note: Women will be required to purchase an outfit for the Women's Choir)

**960 - MEN'S CHOIR - 1 credit
(Grades 9-12)**

The Men's Choir is open to any freshman, sophomore, junior, or senior (men only). There is no audition process to be involved with the Otsego Men's Choir. The men will improve their singing skills of accurate pitch, rhythm reproduction, and sight-reading while performing three and four part music in different styles. The Men's Choir will be required to perform at four yearly concerts. Performances will be added to the calendar as the demand for performances increase. Students will have the option to perform in the District I Solo/Ensemble Contest. Attendance is mandatory for any large ensemble competition in which the choir participates. Attendance is mandatory at all performances.

(Note: Men will be required to purchase an outfit for the Men's Choir)

**961- Music Appreciation-1 credit
(Grades 9-12)**

Music Appreciation is designed with any music student in mind. This class will give the student a better understanding of how music has evolved to where it is today. Students will be taught the elements of jazz which opened the way to rock and roll, hip-hop, etc. Though emphasis will be placed on music history in the United States, it will also include the highlights of the Renaissance, Baroque, Classical and Romantic eras. Important composers and music styles would be covered. Listening exercises would be a regular part of the course.

**962 Music Theory- 1 credit
(Grades 9-12)**

Music Theory I would teach the beginning elements of how music is constructed and written. Students would have daily/weekly written work which would be graded counting toward the course grade. Students would also begin learning the basic fundamentals of ear training. They would be taught how to determine by ear intervals (distances between notes) as well as chord qualities. Rhythmic as well as melodic dictation would also be part of this course. Students can expect homework and projects to be a regular part of this course.

Science Department

<u>Course</u>	<u>Credit</u>	<u>Grades Offered</u>	<u>Prerequisite</u>
Integrated Science 1	1	9	None
Integrated Science 1 SC	1	9	IEP and Teacher Recommendation
Biology 1	1	10,11,12	at least a 75% avg. in Int. Sci. I or Int. Sci. II
Human Physiology	1	11,12	“C” in Biology or “A” in Int. Sci. 2
Chemistry 1	1	11,12	1 year of science, “B” in Math 9 & Math 10
Physics	1	11,12	Int. Math 3, two years of science “C” minimum in all math & science
Integrated Science 2	1	10,11,12	Int. Science 1
Integrated Science 2 SC	1	10	IEP and Teacher Recommendation
Environmental Science	1	11,12	“B” in Biology
Zoology	1	11,12	Pass a life science

500 - INTEGRATED SCIENCE 1 - 1 credit (Grade 9)

Integrated Science I attempts to present a well balanced science course stressing the process and activities of science as well as basic concepts. Concepts are developed using non-mathematical techniques. Topics covered include matter and energy, chemistry, elementary mechanics and work, wave motion, the electromagnetic nature of matter, astronomy, and earth science.

(Note: This class has a fee.)

500SC - INTEGRATED SCIENCE 1 SC - 1 credit (Grade 9)

Prerequisite: IEP and Teacher Recommendation

This class has a portion of the content of Integrated Science 1 except modifications may be made to meet the individual student’s needs in a self contained (SC) classroom.

(Note: This class has a fee.)

501 - BIOLOGY I - 1 credit (Grades 10-12)

Prerequisite: Sophomores must have at least a 75% average in Integrated Science I

This course will cover the following areas of biology; biochemistry, evolution, taxonomy, the cell, genetics,

living systems, and ecology. The course focuses not only on content, but developing higher thinking skills. A great deal of emphasis is placed on laboratory work.

(Note: This course has a fee.)

**503 - HUMAN PHYSIOLOGY - 1 credit
(Grades 11-12)**

Prerequisite: "C" in Biology I or "A" in Integrated Science 2

Chemistry is useful but not required.

This course is a development of basic physiology. It is a more detailed explanation of the functions of the human body and is an effective course as background material for pre-med students, nurses, doctors, or background material for a college course in physiology. A cat dissection is required.

(Note: This course has a fee.)

**504 - CHEMISTRY I - 1 credit
(Grades 11-12)**

Prerequisite: 1 year of science, Integrated Math 9 and 10 with grade of "B" or better

Chemistry is a physical science that deals with a description of the chemical changes undergone by matter and attempts to provide explanations for those changes. The goal of the CHEM STUDY chemistry program is to allow students to discover the major, fundamental principles and regularities of chemistry through experimentation as well as by the use of examples drawn from descriptive chemistry. Topics covered include the basic mathematics used in chemistry, atomic theory, elementary stoichiometrics, gas laws, kinetic molecular theory, solutions, periodicity, atomic structure, chemical bonding, energy effects, rates of reactions, chemical equilibrium, acids and bases, and oxidation-reduction. It is highly recommended that students electing chemistry have a strong math background including a grade of B or better in Integrated Math 9 and 10. The course is heavily laden with both mathematics and laboratory experiments.

(Note: This class has a fee.)

**511 - PHYSICS - 1 credit
(Grades 11-12)**

Prerequisite: Integrated Math 3 and 2 years of science (preferably including one year of chemistry) with a minimum "C" average in all math and science courses.

Physics is the study of matter and energy, and of the transformation of energy. Physics concepts covered include a vigorous treatment of mechanics, sound and light, and electricity.

In order to reflect the increasing difficulty level of this offering, the student's grades are weighted. This class is one of the three weighted classes offered at OHS.

(Note: This class has a fee.)

**512 - INTEGRATED SCIENCE 2 - 1 credit
(Grades 10-12)**

Prerequisite: Integrated Science I

Integrated Science II is a course designed to expand on the concepts and information presented in Integrated Science I in the development of analytical thinking and problem solving skills and strategies in today's world. Problems and topics will be drawn from the areas of ecology, plant and animal biology, anatomy, genetics, and fetal development.

(Note: This class has a fee.)

512SC - INTEGRATED SCIENCE 2 SC - 1 credit

(Grade 10)

Prerequisite: IEP and Teacher Recommendation

This class has a portion of the content of Integrated Science 2 except modifications may be made to meet the individual student's needs in a self contained (SC) classroom.

(Note: This class has a fee.)

**514 - ENVIRONMENTAL SCIENCE - 1 credit
(Grades 11-12)**

This course examines topics such as global warming, pollution, biodiversity, local ecology, and wildlife management. Emphasis is placed on comparing popular opinion to scientific opinion and on creative and practical problem solving. This course utilizes both laboratory and lecture and offers an excellent preparation for students considering a career in environmental science. (Note: This class has a fee.)

**516 - ZOOLOGY – 1 Credit
(Grades 11, 12) **Offered every other year (alternating with Environmental Science)**

Prerequisite: Successful completion of a life science class

This course would include topics such as comparative animal development, anatomy and physiology, classification, ecology and behavior. Teaching will be based on lecture, readings from the text and outside materials, and laboratory experiences. Dissection of various species of animals will take place as we study comparative anatomy. Science benchmarks relevant to this course are included in the course of study provided. (Note: This class has a fee.) ***Previously omitted***

Social Studies Department

<u>Course</u>	<u>Credit</u>	<u>Grades Offered</u>	<u>Prerequisites</u>
Global Studies	1	9	None
United States Studies	1	10	None
American Government/Economics	1	12	None Contemporary Issues
Civics 1 SC	1	9	IEP and Teacher Recommendation
Civics 2 SC	1	10	IEP and Teacher Recommendation
Emergency Medical Tech./Fire (P)	4	11,12	None
Public Safety/Criminal Justice (P)	4	11,12	None

300 - GLOBAL STUDIES - 1 credit (Grade 9)

A global survey course emphasizing historical, social, cultural, economic, and political events, eras, ideas, and issues. Students will develop an understanding of the interdependency of world events and issues as they study each continent.

(Note: This class has a fee.)

301 - UNITED STATES STUDIES - 1 credit (Grade 10)

This course is a traditional history course, designed to continue chronologically the history and geography explored in 8th grade U.S. Studies. The course will highlight and review major points in early American history including the Revolutionary War, Constitution, and the Civil War. It will also continue as a global studies class throughout the twentieth century. Geography and current events issues will be integrated in.

(Note: This class has a fee.)

302 - AMERICAN GOVERNMENT - 1 credit (Grade 12)

This course is designed to give students an overview of the American government system with emphasis on

national, state and local systems. Areas of study will also include current events, and domestic and world economic issues. Students will understand and analyze the role of the individual in the American Government system, as well as the role of the US in world affairs.

(Note: This class has a fee.)

**303 - CONTEMPORARY ISSUES - 1 credit
(Grades 11-12)**

Prerequisite: Teacher approval and guidelines following the Honors Diploma

This is a junior or senior elective year long course. This course will study global and domestic issues. A broad array of topics will be covered which will encompass historical, economic, political and social concepts.

(Note: This class has a fee.)

**309SC - CIVICS 1 SC - 1 credit
(Grade 9)**

Prerequisite: IEP and Teacher Recommendation

This class has a portion of the content of Global Studies and U.S. History except modifications may be made to meet the individual student's needs in a self contained (SC) classroom.

(Note: This class has a fee.)

**310SC - CIVICS 2 SC - 1 credit
(Grade 10)**

Prerequisite: IEP and Teacher Recommendation

This class has a portion of the content of Global Studies and U.S. History except modifications may be made to meet the individual student's needs in a self contained (SC) classroom.

(Note: This class has a fee.)
