

## **Table of Contents**

Graduation Check List	
Counselors' Message	2
General Planning of Your Schedule	3
Questions and Answers	4
Diploma of Advanced Study	6
High School Requirements	7
NCAA Eligibility Requirements	9A
Career Education Program (Vo-Tec)	10
Art Program	13
Business Career & Technical Education Program	15
English Program	19
Family and Consumer Science Program	21
Mathematics Program	23
Music Program	26
Technology Program	28
Foreign Language Program	32
Science Program	34
Social Studies Program	37
Health	40
Journalism Program	40
Peer Leadership Program	41
Physical Education Program	42
Distance Learning Program	43

## COUNSELORS' MESSAGE

While you are a student at Fonda-Fultonville High School, it is important for you to give some thought to your direction and individual goals. What you want to achieve in the future will, in most cases, determine the courses and activities you choose while in high school. The selection of courses should be carefully thought out from year to year, giving consideration to your interests, abilities, and future plans.

Your counselor is one person who can help you sort out all possibilities and aid you in making both educational and career decisions. There is extensive information in the guidance office and library to aid you in your decision making process. [www.guidancedirect.com](http://www.guidancedirect.com) our information system, has added an extra dimension to choosing careers and/or post high school training. [www.guidancedirect.com](http://www.guidancedirect.com) can be accessed at school or at home by clicking on the Student Login button and typing in 7513100 for your school ID and F23S3422 for your school password.

No matter what you want to do in the future, you need to continually check your progress toward graduation and achievement of your goals. Your counselor is here to help you with that process.

Here is a guideline for times when you should see your counselor.

See your counselor:

- If you have problems that you would like to talk about confidentially.
- If you wish information concerning application requirements for colleges, nursing schools, trade and vocational schools, business colleges.
- If you need help in selecting courses which will provide you with the background to meet requirements for further academic study or vocational/occupational career choices.
- If you need an explanation of standardized testing results.

## **GENERAL PLANNING**

The Guidance Department is aware that many students have difficulty choosing the right courses to meet their vocational and educational needs. We are eager to assist you in this planning process and we will be setting up an appointment to discuss these important decisions with you.

As you make your course selections for next year, we suggest that you choose as broad an academic program as possible. Making course selections solely on the basis of minimum graduation requirements or present career plans may create problems for you in the future. It has been found that on average, members of the labor force will change and sometimes radically readjust their occupation three to four times in a lifetime. You will be better prepared for this eventuality if you have used the programs and resources of this high school effectively.

The pages that follow in this handbook describe high school requirements and the procedures that you should follow in selecting courses for next year. Please see your counselor if you have any questions about this information or if you would like assistance in making your course selections.

The student's parents and counselor must sign the course selection sheet before it will be accepted. Your course selection sheet must be filed in the guidance office within a week after your planning meeting with your guidance counselor.

## **PLANNING YOUR SCHEDULE**

### Introduction

Many of the decisions about your personal educational program at Fonda-Fultonville High School are going to be made by you, the students. It is our hope that by placing such decisions in your hands, you will have a greater commitment to your own success. Therefore, it is most important that you read this section very carefully.

You will be responsible for planning your own high school schedule, with assistance and approval from your parents, teachers, and counselor, thus careful and accurate course selections are imperative.

### Scheduling

The section on high school graduation requirements provides the framework for planning your schedule. Each student has certain required courses, courses in his or her major sequence, and elective courses.

The following steps should be followed in planning your schedule:

1. Read course descriptions. Every course offered in the high school is presented in this brochure. Course descriptions include information regarding course content, length of course, appropriate grade level, prerequisites, and type of assignments (i.e. Regents exams, projects, etc.).

From this information, decide which courses you would like to take during the next school year.

2. Fill out Course Selection Sheet with assistance from your counselor.

## NOTE THE FOLLOWING INFORMATION:

1. Courses are open to all students who meet the prerequisites.
2. Semester =  $\frac{1}{2}$  year. Some courses are for the entire year while others are either 1<sup>st</sup> or 2<sup>nd</sup> semester courses only.
3. All 9<sup>th</sup>, 10<sup>th</sup>, and 11<sup>th</sup> graders are required to take a minimum of six credits per year plus physical education.
4. Career Education Programs involve 4 periods daily. These students also select English, social studies, physical education, lunch and any other necessary requirements.

## COURSE SELECTION DEADLINES

After you have met with your counselor and filled out your course selection sheet, take the sheet home to be signed by your parents, and then return it to the guidance office within a week after your planning meeting. Students who miss their scheduled meeting with their counselor and/or fail to turn in their signed course selection sheet within a week will automatically have a schedule made up for them. The deadlines are as follows:

Sophomores	January 30, 2009
Juniors	February 27, 2009
Freshmen	March 31, 2009
8 <sup>th</sup> Grade	April 3, 2009

## QUESTIONS AND ANSWERS

### Q. What is a credit?

A. A credit is an indicator that tells you how much value the school gives to a course. This value is based on whether the course meets for one or two semesters or one quarter. Example: Biology is a full year course. Biology = 1 Credit. Health is a one-semester course. Health = .50 Credit

Economics of Work is a one-quarter course. Economics of Work = .25 credits.

### Q. How many semesters are there during a year?

A. There are two semesters in a year – fall and spring. Each semester has two 10 week periods called “quarters” or “terms.”

### Q. How many credits do I need to graduate?

A. Class of 2002 and thereafter 25.00 Credits

### Q. Can I take any courses that I would like to take and still be able to graduate as long as I earn all the credits I need for graduation?

A. No. You must earn a certain number of credits from certain subject areas and you must pass the required courses for 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, and 12<sup>th</sup> grade, which are listed under graduation requirements.

### Q. What are electives?

A. Unlike required courses you have to take, an elective is a course you choose to take in order to round out your education and to earn sufficient credit for graduation.

### Q. Can I take any elective I want to take?

A. There are some electives you may not take until you are an upperclassman. There are also certain electives you may not take unless you have taken a prerequisite course.

Q. What is a prerequisite?

A. A prerequisite is a requirement you must meet before you take a certain course. Example: You must pass French I before you take French II.

Q. What happens if I earn all the required credits for graduation by the end of 11<sup>th</sup> grade?

A. You still must take any courses that are required for graduation. Seniors who meet eligibility requirements may choose to take college courses through our Early Admission program with Fulton-Montgomery Community College.

Q. What happens if I want to drop a course?

A. You may do so if you have a good reason, but you must first have a conference with your counselor. In addition, parental and teacher permission must be obtained. Course drop forms for this purpose, are available in the guidance office. Do not forget, however, that you must be carrying at least 6 credits per year plus physical education.

Q. If I drop a course, do I automatically fail it?

A. No. You have two weeks after school begins to drop a course and still not have any penalty.

Q. What happens if I drop a course after the specified time period?

A. You will receive a 50 as your final grade, unless you have received prior permission from the teacher.

Q. How often do report cards come out?

A. Report cards are issued every 10 weeks.

Q. Will I receive a warning if it looks as if I might fail a subject?

A. At the 5<sup>th</sup> week of each ten-week marking period, students are given a progress report. The student is responsible for bringing this report home to his/her parents for review.

Q. What happens if I fail one or more major subject?

A. If any student fails one or more subjects, he or she places future learning in jeopardy. The student should plan to attend summer school in order to make up the deficiency and to be prepared for continued skill development. If the student cannot attend summer school, the student will be required to repeat the failed course during the following school year before he or she is allowed to advance to the next level. (Ex. Fail 9<sup>th</sup> Grade English – In 10<sup>th</sup> grade, student will be required to repeat English 9). Students are not allowed to double up on courses until their senior year. Failure of any major subject reduces the number of elective options and may result in the student not receiving, necessary credits towards graduation.

Q. How many credits do I need to be promoted to the next grade?

Sophomores	6.00 Credits
Juniors	12.00 Credits
Seniors	18.50 Credits

Students who do not meet this credit requirement will not be promoted to the next grade and may jeopardize graduating on time with their class. Participation in your grade's functions (i.e. – class meeting, fundraising, social events, etc.) will be based on the class in which you enter ninth grade.

## **DIPLOMA OF ADVANCED STUDY**

A Diploma of Advanced Study recognizes a student's significant achievement in the areas of academics and community service.

The requirements for a Diploma of Advanced Study are as follows:

<u>Course</u>	<u>Credits</u>
English	4
Social Studies	4
Mathematics	4
Science	4
Second Language	3
Health	.5
Art and/or Music	1
Occ. Ed. Elective	1
Electives	3.5
Physical Education	2
+ Service (300 hours)	1
 Total Credits Required	 28

Students must also successfully complete all required Regents examinations for an Advanced Regents Diploma and additionally must complete 300 hours of approved community service.

**Class of 2010**

<b>Regents Diplomas</b>		<b>Advanced Regents Diploma</b>	
<b>Required Courses</b>		<b>Required Courses</b>	
English	4	English	4
Social Studies	4	Social Studies	4
Math	3	Math	3
Science	3	Science	3
Foreign Language	1	[a] Foreign Language	3
Art/Music	1	Art/Music	1
Occ. Ed. Elective	1	Occ. Ed. Elective	1
Health	.5	Health	.5
Physical Education	2	Physical Education	2
Electives	5.5	Electives	3.5
<b>Total</b>	<b>25</b>	<b>Total</b>	<b>25</b>

<b>REQUIRED STATE EXAMINATIONS</b>		
<b>Local Diploma</b> (Score 65 or above on any 3 required Regents exams and score 55 or above on 2 required Regents exams)	<b>Regents Diploma</b> (Passing score of 65 on all required Regents exams)	<b>Advanced Regents Diploma</b> (Passing score of 65 on all required Regents exams)
English Language Arts	English Language Arts	English Language Arts Exam
Math A/Algebra or Geometry	Math A/Algebra or Geometry	Math A & B or Algebra, Geometry & Algebra 2/Trig
Regents Global History Exam	Regents Global History Exam	Regents Global History Exam
Regents US History Exam	Regents US History Exam	Regents U.S. History Exam
Regents Science Exam	Regents Science Exam	Two Regents Science Exams
		[a]Regents Foreign Language Exam

[a]Students acquiring 5 units of credit in Art, Music, Business, Family and Consumer Sciences, Technology or Vocational Education may be exempt.

**NOTE** – The Regents Competency test safety net for students with disabilities will continue to be available for students entering grade nine prior to September 2010.

**Diploma of Advanced Study** - candidates must complete additional requirements as follows:  
4 credits in both Math and Science, 3 credits in Foreign Language, and 1 credit of Community Service (300 total hours) for a total of 28 credits. Students must successfully complete all required Regents Examinations for the Advanced Regents diploma.

**Class of 2011**

<b>Regents Diplomas</b>		<b>Advanced Regents Diploma</b>	
<b>Required Courses</b>		<b>Required Courses</b>	
English	4	English	4
Social Studies	4	Social Studies	4
Math	3	Math	3
Science	3	Science	3
Foreign Language	1	[a] Foreign Language	3
Art/Music	1	Art/Music	1
Occ. Ed. Elective	1	Occ. Ed. Elective	1
Health	.5	Health	.5
Physical Education	2	Physical Education	2
Electives	5.5	Electives	3.5
<b>Total</b>	<b>25</b>	<b>Total</b>	<b>25</b>

<b>REQUIRED STATE EXAMINATIONS</b>		
<b>Local Diploma</b> (Score 65 or above on any 4 required Regents exams and score 55 or above on 1 required Regents exams)	<b>Regents Diploma</b> (Passing score of 65 on all required Regents exams)	<b>Advanced Regents Diploma</b> (Passing score of 65 on all required Regents exams)
English Language Arts	English Language Arts	English Language Arts Exam
Algebra or Geometry	Algebra or Geometry Exam	Algebra, Geometry, & Alg 2/Trig
Regents Global History Exam	Regents Global History Exam	Regents Global History Exam
Regents US History Exam	Regents US History Exam	Regents U.S. History Exam
Regents Science Exam	Regents Science Exam	Two Regents Science Exams
		[a]Regents Foreign Language Exam

[a]Students acquiring 5 units of credit in Art, Music, Business, Family and Consumer Sciences, Technology or Vocational Education may be exempt.

**NOTE** – The Regents Competency test safety net for students with disabilities will continue to be available for students entering grade nine prior to September 2010.

**Diploma of Advanced Study** - candidates must complete additional requirements as follows:  
4 credits in both Math and Science, 3 credits in Foreign Language, and 1 credit of Community Service (300 total hours) for a total of 28 credits. Students must successfully complete all required Regents Examinations for the Advanced Regents diploma.

**Class of 2012 and Beyond**

<b>Regents Diplomas</b>		<b>Advanced Regents Diploma</b>	
<b>Required Courses</b>		<b>Required Courses</b>	
English	4	English	4
Social Studies	4	Social Studies	4
Math	3	Math	3
Science	3	Science	3
Foreign Language	1	[a] Foreign Language	3
Art/Music	1	Art/Music	1
Occ. Ed. Elective	1	Occ. Ed. Elective	1
Health	.5	Health	.5
Physical Education	2	Physical Education	2
Electives	5.5	Electives	3.5
<b>Total</b>	<b>25</b>	<b>Total</b>	<b>25</b>

<b>Regents Diploma</b>	<b>Advanced Regents Diploma</b>
(Passing score of 65 on all required Regents exams)	(Passing score of 65 on all required Regents exams)
English Language Arts	English Language Arts Exam
Algebra or Geometry Exam	Algebra, Geometry, and Alg 2/Trig
Regents Global History Exam	Regents Global History Exam
Regents US History Exam	Regents U.S. History Exam
Regents Science Exam	Two Regents Science Exams
	[a]Regents Foreign Language Exam

[a] Students acquiring 5 units of credit in Art, Music, Business, Family and Consumer Sciences, Technology or Vocational Education may be exempt.

**NOTE** – The Regents Competency test safety net for students with disabilities will continue to be available for students entering grade nine prior to September 2010.

**Diploma of Advanced Study** - candidates must complete additional requirements as follows:  
 4 credits in both Math and Science, 3 credits in Foreign Language, and 1 credit of Community Service (300 total hours) for a total of 28 credits. Students must successfully complete all required Regents Examinations for the Advanced Regents diploma.

## CAREER EDUCATION PROGRAMS

The Career and Technical Center offers the following courses for the credit listed:

<u>Courses</u>	<u>Sessions</u>
909 New Visions Health Careers Academy	A.M.
937 Careers In Education I	A.M.
938 Careers in Education II	P.M.
939 Auto Body Repair I	A.M.
940 Auto Body Repair II	P.M.
941 Auto Technology I	A.M.
942 Auto Technology II	P.M.
943 Construction Technology I	A.M.
944 Construction Technology II	P.M.
945 Computer Information Technology & Networking I	A.M.
946 Computer Information Technology & Networking II	P.M.
947 Environmental Conservation I	A.M.
948 Environmental Conservation II	P.M.
949 Cosmetology I	A.M.
950 Cosmetology II	P.M.
952 Medical Assisting I	A.M.
953 Medical Assisting II	P.M.
954 Culinary Arts I	A.M.
955 Culinary Arts II	P.M.
956 Digital Multimedia & Communications I	A.M.
957 Digital Multimedia & Communications II	P.M.
958 Equine Science I	A.M.
959 Equine Science II	P.M.
960 Criminal Justice I	A.M.
961 Criminal Justice II	P.M.
963 Nurse Assisting	A.M.
965 Licensed Practical Nursing I	A.M.
966 Licensed Practical Nursing II	P.M.

Requirements: Students wishing to attend a Career Ed. Program must commit by signing up in the guidance office by January 31, 2008. Students who sign up after this date may not be eligible to attend. Parents' approval, home school approval, good attendance, and junior or senior credit status are required to be eligible. Interested sophomores will have the opportunity to attend an orientation at the Career Education Center on January 4, 2007.

### 909 New Visions Health Careers Academy                      3.5 credits-seniors only - A.M.

This one year program will provide high school seniors an inside look at the health care field by placing students in a hospital setting in order to observe and assist health care professionals at work. Students need to be recommended by high school guidance counselor and principal, as there are a limited number of openings in the program. A student interested in this program must have a demonstrated interest in the health career field and a maturity and ability to work both independently and in teams. Before entering the program, seniors need to have met graduation requirements through the 11<sup>th</sup> grade and have completed three years of math and science. This program gives students a high school sequence with 2 credits of health occupations, 1 credit of English 12, and one credit of social studies 12. Interested students should see their guidance counselor

937 and 938 Careers in Education I & II      3.5 Credits 1<sup>st</sup> year, 3.5 Credits 2<sup>nd</sup> year

For students interested in any licensed career opportunity in education (including teaching assistant, guidance counselor, teacher, school psychologist, social worker, and administrator). During the second year students will have career shadowing/mentoring opportunities with staff in our component schools.

939 and 940 Auto Body Repair I & II      3.5 credits 1<sup>st</sup> year, 3.5 credits 2<sup>nd</sup> year

The work involves body and fender repair, painting, straightening frames, aligning front ends, and repairing or replacing upholstery. The work also involves the installation and repair of electronic wiring systems. The repairmen must have a working knowledge of gas and electric welding. They must know how to use power jacks, frame tools, paint mixers, and natural synthetic upholstery fabrics.

941 and 942 Auto Technology I & II      3.5 credits 1<sup>st</sup> year, 3.5 credits 2<sup>nd</sup> year

The work of the auto mechanic covers a broad range of light and heavy repair, calls for the ability to diagnose and locate troubles and to make all necessary adjustments or parts replacements, to return a vehicle to satisfactory operating condition. Units of study include Shop Safety, Power Plant, Lubrication System, Cooling System, Fuel System, Electrical System, Drive Lines, Suspension Systems, Brake Systems, Accessory Units, Business Management, and Customer Relations.

943 and 944 Construction I & II      3.5 credits 1<sup>st</sup> year, 3.5 credits 2<sup>nd</sup> year

Students learn the building process from the ground up. Instruction includes safety, tools, blueprint reading, site preparation/foundations and concrete work. Included next is floor framing, wall framing and roof framing and covering. During the second year of the program students may specialize in any of four areas: Finish carpentry, plumbing, masonry or electrical. Finish carpentry includes siding, sheetrock and trim, and stair building. Brick, block and concrete work are covered in the masonry module. The electrical module covers residential wiring and the plumbing module includes all aspects of residential plumbing.

945 and 946 Computer Information Technology & Networking      3.5 credits 1<sup>st</sup> year, 3.5 credits 2<sup>nd</sup> year

The Computer Information Technology & Networking program includes two courses: IT Essentials and CISCO Certified Network Associate (CCNA) taught in the senior year. **The IT Essentials** course is divided into two parts. The first covers core competencies in the latest hardware and software technologies, with emphasis on information security skills, safety and environmental issues, and soft skills. The second part is hands-on and lab-based, and covers all three CompTIA job environment certification exams.

**The CISCO Certified Network Associate (CCNA)** course curriculum emphasizes the use of decision-making and problem-solving techniques to resolve networking issues. CCNA students learn how to install and configure Cisco switches and routers in local and wide-area networks using various protocols, how to provide Level 1 trouble-shooting service, and how to improve network performance and security. The CCNA curriculum provides training in the proper care, maintenance, and use of networking software tools and equipment.

947 and 948 Environmental Cons. I & II

Environmental Conservation includes forestry and natural resources, the operation and maintenance of heavy equipment, and developing an understanding of environmental science issues. Extensive "hands-on" practical laboratory and field exercises such as heavy equipment operation, forestry management, wood processing and wildlife management are critical parts of the program. Students learn to operate backhoes, bulldozers, trucks, chainsaws, a bandsaw mill, and a wide variety of other equipment.

949 and 950 Cosmetology I & II      3.5 credits 1<sup>st</sup> year, 3.5 credits 2<sup>nd</sup> year

Eligible to take N.Y.S. License Examination

It is intended that graduates of this course will meet the requirements to become licensed operators. It offers training in manicuring, shampooing, finger waving, hair trimming, and all other phases of the occupation. Instruction is provided in business procedures.

952 and 953 Medical Assisting I & II      3.5 credits 1<sup>st</sup> year, 3.5 credits 2<sup>nd</sup> year

Students in this program are introduced to a full range of activities and tasks that medical Assistants may undertake. The students acquire a specialized body of knowledge, skills and attitudes that allow them to perform administrative and clinical procedure in a variety of health care settings.

954 and 955 Culinary Arts I & II                      3.5 credits 1<sup>st</sup> year, 3.5 credits 2<sup>nd</sup> year

The Morning session covers principles of quantity food service and preparation of entrees, salads, soups and sauces, sandwiches and desserts. Instructions also offered in sanitation, storeroom management and breakfast cookery. Participants gain hands-on experience through the daily production of breakfast and lunch for students, faculty and staff at the BOCES center. The afternoon session allows students to operate a café restaurant where they learn customer service, grade management, cake decoration, cake and pastry baking, meat and poultry preparation and career skills.

956 and 957 Digital Multimedia & Communication I & II    3.5 credits each year

Printing is an art, an important industry, and one of our chief means of communication. It is divided into two major fields: printing composition and printing presswork. Composition can be defined as the performance of any and all those duties concerned with the hand and machine setting of type, and the assembling of the set type and other artwork. It also involves the operation of various types of darkroom apparatus, platemakers, presses, and cutting and binding equipment. The ability to estimate stock, to make ready the job, and to adjust equipment are also part of the printer's responsibilities. A student is provided with the opportunity to develop basic skills using modern equipment that represents major fields in the printing industry.

958 and 959 Equine Science I & II    3.5 credits 1<sup>st</sup> year, 3.5 credits 2<sup>nd</sup> year

This program is intended to prepare students for the world of equine science. Students will be exposed to a general understanding of all aspects of horse care and training. Students are bused from the Vo-Tec Center four days per week to our horse barn facilities for practical and hands on experience. One day per week is spent at the Vo-Tec Center covering related information and preparing for the New York State Basic Agriculture Proficiency Examination for those students that are regular diploma candidates. Appropriate clothing is necessary for success. See Employability Profile and/or visit the program for more information. A.M. Sessions

960 Criminal Justice I & II    3.5 credits 1<sup>st</sup> year, 3.5 credits 2<sup>nd</sup> year

Students prepare for entry into college criminal justice or security management programs as well as career opportunities in law enforcement, public/private security and the corrections fields. To enroll, high school juniors and seniors must have excellent school attendance and good grades. Students in the second year of this program prepare for entry into the corrections and security fields as corrections officers, supervisors, counselors, investigators, security personnel or administrators. Students who pass the New York State Security exam and the IFPO exam (International Federation of Protection officers – U.S. and Canada) will receive a certificate and license.

963 Nurse Assisting    3.5 Credits - 1 year program

This is a one-year program. An indicator for success might be the successful completion of the Reading RCT or the potential to do so. Homework, workbook assignments and activity sheets are given approximately once a week. Vocabulary can be difficult. Students, with good personal hygiene that are caring and have a sincere desire to help people, would be well suited for this program. The Health Occupations Core Curriculum is followed. Students are expected to pass the Proficiency Examination before the second semester clinical experience. A physical exam, including blood work and a Tuberculosis test, is also required before the clinical experience. A uniform, shoes, name pin, and cap are needed. Very successful student may "ladder" to Diversified Health Occupations or Licensed Practical Nursing.

Academic Intervention Services

The Academic Intervention Services program offers instructional support for students who need assistance to master the New York State Learning Standards and competency skills required for high school graduation. Students receive individualized or small group instruction using materials that are career education based. An independent-study option is also available for students who need to meet specific diploma requirements. Tips on study skills and test-taking measures are given to students who need reinforcement or review prior to assessment testing.

## Art Program

The Art Department participated in the development of the Interdisciplinary Entrepreneurship Sequence. We encourage all students seeking an Art Sequence to consider the Entrepreneurship Sequence as an addition to their educational plan. We believe the combination of these sequences will better prepare the student to use and market their skills in the future. One sequence provides saleable skills while the other provides the information needed to operate a small business or to be a more knowledgeable employee.

600	Studio Art - 9th Grade Component	1 credit fall
601	Studio in Art	1 credit full year
602	2 and 3 Dimensional Design	½ credit spring
603	Painting	½ credit fall
605	Sculpture	½ credit spring
607	Pottery I	½ credit fall
608	Drawing	½ credit fall
610	Drawing II	½ credit spring
611	Pottery II	½ credit spring
612	Painting II	½ credit spring
614	Painting III	½ credit fall
613	Photography	½ credit fall

### Art Major

Studio in art and any combination amounting to two full credit electives.

### Electives

Drawing	Drawing II
Painting	Painting II
2/3 Dimensional Design	Sculpture
Photography	Pottery I
Pottery II	Painting III

Electives are not open to 9th graders.

\*\*There is a set sequence for art electives. A student wishing to pursue the art program should note that certain requirements must be met in order to take more advanced classes. Students should meet with the art teacher to discuss the proper order of sequence.

### Art Courses

#### 600 Studio Art – 9th Grade Component

This 9th grade Studio Art component is a half-year, half credit course. This course combined with the half credit acceleration Studio Art course for 8th grade provide, with successful completion of both, one full credit in Studio Art for majors. The two-part course will cover the same concepts, techniques, and materials as course 601. It will require the same personal sketchbook, homework and a long-term project for final review as course 601. Successful completion of both components will allow the student to enter the high school art program one half year early.

#### 601 Studio in Art (Full Year) 1 credit Local Exam

This course is designed to expand the horizons of the students, to introduce them to the varied areas of artistic expressions. Emphasis will be on appreciation, education and interest. The course will include art techniques, painting, drawing, and crafts combined with the academic study of Art History.

#### 602 2 and 3 Dimensional Design ½ credit

*Prerequisites for this class: 608, 610.* This is a basic design course that will reinforce and expand on the fundamental lessons of design. The student will apply the principles and elements of design to the 3 dimensional and 2 dimensional formats. The course will explore graphics, interior/exterior, fashion and industrial design. Anyone considering an art major should take this ½ credit course. A weekly sketchbook assignment is part of this course.

**603 Painting** ½ credit

Materials used will be acrylic paints. All painting assignments will be done in the classroom. Students may be required to build their own canvas stretchers, as most painting are done on canvas. A sketchbook assignment weekly will be a part of this course.

**604 Art History** ½ credit **Local Exam**

*Prerequisites: 610, 612.* The course will be a survey of art, beginning with the caveman and continuing into the 20th century. The students will explore how art reflects the cultures and civilizations of the world. Studying Art History aids in understanding the development of artist's expression and techniques.

**605 Sculpture** ½ credit

*Prerequisites: 610, 612.* Several types and methods of three-dimensional structuring will be explored. Media such as plaster of Paris, clay, wood, paper, and cardboard, paper mache, plastic, and metal may be used to create different types of sculpture. The historical aspect of sculpture will be studied, as it is pertinent to the course. Some homework will be assigned.

**607 Pottery I (Junior and Senior elective)** ½ credit

*Prerequisites: 602.* This course will be a study of the science, history, and contemporary methods in functional pottery. Students will use several techniques including coil and slab building and using the pottery wheel. Techniques for finishing clay such as glazing and firing will be explored. Students should be prepared to spend extra time on projects during study hall, before or after school.

**608 Drawing** ½ credit

The entire course will concentrate on various drawing techniques including such media as a pencil, charcoal, pen and ink, brush and ink, pastels. A weekly sketch will be assigned as homework to be done outside of class.

**610 Drawing II** ½ credit

*Prerequisite: Successful completion of Drawing I.* This course will deal with an in-depth study of black and white drawing techniques. Emphasis will be on long-term drawing projects. Drawing I is a required course for any student wishing to take Drawing II. Sketchbook homework will be assigned weekly.

**611 Pottery II (Junior and Senior elective)** ½ credit

*Prerequisite: Successful completion of Pottery I.* This course will focus on techniques using the pottery wheel and offer opportunities for students to research and explore techniques and styles of personal interest.

**612 Painting II** ½ credit

*Prerequisite: Successful completion of Painting I.* Painting II is designed to develop the individual creativity and style of the student. Emphasis will be on long-term projects and the artistic growth of the student. Each student will be expected to be involved in the development of each assignment. Homework will be assigned weekly.

**614 Painting III** 1/2 credit

*Prerequisite: Successful completion of Painting I and Painting II.*

Painting III is designed to meet the needs of students who would like to further their knowledge and skill in painting. Emphasis of this course will be on student's problem solving abilities and the design and creation of long-term projects. Students will be expected to be involved in the development of each assignment. Homework will be assigned weekly assigned.

**613 Photography (Junior and Senior elective)** ½ credit

*Prerequisite: 610,612.* This course is designed to explore photoshop and the digital enhancement of photography. Students will learn to apply the elements and principles of design through photography. Emphasis will be on contrast, balance, texture, etc.. Home work will be assigned weekly. A digital camera is suggested for this class.

\*\*\***Independent Art is only offered as a privilege to art majors who have been pre-approved and completed all/ most art courses.**

## Business Career & Tech Program

The Business Career & Technical Department offers the following courses for the credit listed and in the years recommended.

<u>Subject</u>		<u>High School Credit</u>	<u>College Credit</u>	<u>Suggested Grade Level</u>
401	Career & Financial Management	1/2		9-10
403	Introduction to the Economics of Work	1/4		9-10
404	Human Relations/Decision Making	1/4		9-10
405a	Computer Information Systems (Keyboarding)	1/2		9-12
<b>405b</b>	<b>Computer Information Systems (Keyboarding)*</b>	1/2	3	11-12
<b>407</b>	<b>Effective Communications*</b>	1	3	11-12
408	Accounting	1		10-12
<b>411</b>	<b>Introduction to Law*</b>	1	3	11-12
<b>417</b>	<b>Speedwriting (College Note taking)*</b>	1	3	11-12
421	Advanced Computer Information Systems	1/2		10-12
<b>422</b>	<b>Microcomputers CS 105*</b>	1	3	11-12
<b>423</b>	<b>Sports &amp; Entertainment Marketing*</b>	1	3	10-12
<b>424</b>	<b>Ventures in Entrepreneurship*</b>	1	3	11-12
<b>425</b>	<b>College Accounting*</b>	1	4	11-12
<b>426</b>	<b>Financial Math*</b>	1	3	11-12
554	Skills for Life	1/2		9-12
974	Peer Leadership	1/2		9-12
977	Peer Leadership Too	1/2		9-12

\*College-Credit Course

### COURSE DESCRIPTIONS

#### **401 CAREER & FINANCIAL MANAGEMENT**

Career & Financial Management Part A is a required module divided into five topics. Students learn (1) about our economy, (2) career planning, (3) the career selection process, (4) career success, and (5) financial literacy. Recommended grade level: 9-12 Recommended for ALL students, whether work or college bound.

#### **403 ECONOMICS OF WORK**

This module is designed to make you aware of the role of the citizen as an owner, worker, consumer, and community member in our economic system. Students learn about the interrelationship of government and private enterprise, and explore entrepreneurship: how to start your own business. Recommended grade level: 9-10

#### **404 HUMAN RELATIONS/DECISION MAKING**

This course covers two important components of success on the job and in life. One is the ability to get along well with others in a variety of contexts. The other is the ability to adapt to change by solving problems and making intelligent decisions. Many videos and discussions are used in order to explore self-esteem, problems associated with lack of self-esteem, including stress and eating disorders. Recommended grade level: 9-10, but appropriate for any student interested in human relations. This is an excellent course for students interested in psychology/sociology. PROBLEM SOLVING is a skill needed by ALL students.

#### **405 COMPUTER INFORMATION SYSTEMS (1/2 high school unit--3 college credit hours)**

This course is designed to teach students how to touch-type the alphabetic, numeric, and symbol keys using MicroType, WordPerfect, and Microsoft Word software and proper keyboarding techniques. Students must be able to achieve a speed of 20 words a minute after 20 weeks. Students learn to key personal notes, memos, enumerated lists, business letters, and how to center information. Recommended grade level: 9-12 Recommended for ALL students whether work or college bound. \*College credit available

#### **407 EFFECTIVE COMMUNICATIONS** (1 high school unit--3 college credit hours)

This full-year course is designed to teach students to apply skills in verbal and nonverbal communications, listening, telephone skills, writing, reading, oral communication skills, and keyboarding skills. Students will present a speech as a requirement for the course and will actually compose and key letters. Letters are graded based on content, grammar, punctuation, conciseness, spelling, format, and typographical errors. This is a very intense mixture of situational business, computer, and English skills. Excellent course for ALL students whether work or college bound. Recommended grade level: 11-12 Prerequisite: Computer Information Systems. **\*College credit available**

#### **408 ACCOUNTING**

This course is designed to develop occupational competencies in the application of accounting theory. The course content encompasses the complete accounting cycle and incorporates computer utilization to reinforce the accounting procedures. Recommended grade level: 10-12

#### **411 INTRODUCTION TO LAW** (1 high school unit--3 college credit hours) Full year.

This course emphasizes the relationship of business law to an individual's personal life as well as occupational life. Applications of the laws as they affect the individual are featured. Current events are discussed as well as use of textbook-website applications. Recommended grade level: 10-12. **\*Grades 11-12 may take this course for college credit.**

#### **417 SPEEDWRITING (College Note Taking)** (1 high school unit--3 college credit hours)

This form of note taking uses the letters of the alphabet and familiar punctuation marks to represent sounds. As a result, taking notes, building speed, and transcribing are accelerated. Students will develop a basic competency of 80 words a minute. This course is recommended for ALL students, especially the college-bound ones. Recommended grade level: 11-12 Prerequisite: CIS. **\*College credit available**

#### **421 ADVANCED CIS**

This is a one-year course designed to develop keyboarding, software, formatting, problem solving, and proofreading proficiency. Each student will gain a thorough knowledge of mailability criteria, as well as production standards demanded in actual employment. These students will have the knowledge to help classmates properly format and key research papers. Students leave this course with employable skills. Performance will be measured for both speed and accuracy.

The class will be taught on IBM compatible equipment using WordPerfect as well as Microsoft Office. Students must achieve a speed of 32 words a minute after 40 weeks of instruction. Recommended grade level: 10-12 Prerequisite: Computer Information Systems--must have passed CIS with an overall average of 80.

#### **422 MICROCOMPUTERS CS 105** (1 high school unit--3 college credit hours).

This full year course is offered to all students-**college-bound students are encouraged to take it.** The newest version of Microsoft Office 2007 is offered including Microsoft Word 2007, Microsoft Office Excel 2007, Microsoft Office Access 2007, Microsoft Office PowerPoint 2007, Microsoft Office Outlook 2007, and Microsoft Windows XP. This course concentrates on the advanced functions of software that is used by many professionals. Students can use skills taught to create professional looking resumes, type term papers, Email attachments, develop financial statements, charts, presentations, and organize information easily. Recommended grade level: 11-12. No prerequisite but Computer Information Systems is a plus. **\*College credit available**

#### **423 SPORTS & ENTERTAINMENT MARKETING** (1 high school unit--3 college credit hours)

This full-year course illustrates the application of marketing principles and processes to the sports, entertainment, and literary industries. It encourages students to be creative and innovative in their approach. Students will get hands-on experience in marketing techniques through the implementation of the e CommEd curriculum and specifically the scoresup.com/fondafultonville website. Students planning a major in business in college will find this course very beneficial. The opportunity exists for each class member to receive three college credit hours from Schenectady County Community College at a reduced rate per credit hour. These three credit hours are transferable to any state college and most private institutions as long as the student maintains a C or better grade in the class. Recommended grade level: 11-12 **\*College credit is available for Sophomores, Juniors, and Seniors.**

**424 VENTURES IN ENTREPRENEURSHIP** (1 high school unit--3 college credit hours)

ViE is a full year, one-credit-bearing interdisciplinary class (Business, Social Studies, Art, Home and Careers, Career Guidance) designed to explore skills and dispositions needed to be successful in self-employment. In this exploration, the students will participate in an Otis Spunkmeyer bakery operation as a vehicle to develop skills and understand the risks and benefits taken by the entrepreneur. As a culmination of the class, students will use the Otis Spunkmeyer model and the NYIE BizTech computer program to develop their own business plans for a kind of venture of interest to them. Recommended grade level: 10-12. **\*College credit is available for Juniors and Seniors only.**

**425 COLLEGE ACCOUNTING** (1 high school unit--4 college credit hours--1 year)

This is a college-level accounting class that is equivalent to the first half of a one-year college course introducing accounting theory: Theory of debit and credit; accounts and special journals; the accounting cycle; accounting for notes and interest, accrued items, receivables, inventories, and plant assets; preparation of financial statements. Excel applications used as well as textbook website activities.

Students may opt to pay a reduced tuition to receive four college credit hours that are transferable to any state college and most private institutions. The class is open to all students with or without previous accounting background. Recommended grade level: 11-12 **\*College credit is available for Juniors and Seniors only. (May also be used for 3<sup>rd</sup> math credit)**

**426 FINANCIAL MATH** (1 high school unit--3 college credit hours)

This full-year course provides a comprehensive coverage of personal and business-related math. Spreadsheet applications, simulations, and E-commerce activities are integrated with the following topics: simple and compound interest, simple and compound discount, annuities, capital budgeting and depreciation, stocks, bonds, mutual funds, and real estate. Recommended grade level: 11-12. **\*College credit is available for Juniors and Seniors only.**

**554 SKILLS FOR LIFE**

Skills for Life is a 20-week life skills class divided into 8 sections. This course is designed to present useful tools and information for everyday life. Areas of concentration will be:

Self -Evaluating

Setting Goals

Improving Relationships

Achieving Success in the Workplace

Knowing Your Rights and Responsibilities

Managing Finances

Assessing Housing Needs

Being an Active Citizen

Managing Health/Health Care

**974 PEER LEADERSHIP**                      **½ Credit**                      **20 Weeks-Every day**                      **½ Year**

This elective is offered in order to educate high school students in regards to substance abuse and other concerns of youth today. The content will touch upon prevention, intervention, and treatment.

Topics covered will be the following:  
Assertion/communication/listening skills  
Values/goals/decision making/problem solving  
Drug and alcohol abuse prevention/refusal skills  
Stress management/self-esteem/eating disorders/suicide prevention  
Leadership skills/Teaching techniques  
Peer helping  
Ethics/Confidentiality

Course Requirements:

Students must:  
Keep a Journal.  
Attend and participate in class discussions.  
Complete a school project.  
Complete a community project. (5 separate projects or one five-week project.)  
Assist fellow students.

Grading

All journals for each quarter  
5 hours minimum of school service each quarter  
Total of five hours minimum of community service

\* It is helpful if students have study halls.

\*\* See "Peer Too" description. Looking for same type of student. You will be busy. Students will plan and carry out projects - the instructor is the facilitator only.

**977 PEER LEADERSHIP TOO**                      **½ Credit**                      **Full Year**

This is a much more extensive version of Peer Leadership. Peer Leadership is NOT a prerequisite. The student who enlists in this course must be a unique individual who is energetic, dedicated, responsible, and concerned about the school and community. This course is fun and requires much time.

Grading for this course will be pass/fail. Students must be able to attend after school meetings and work INDEPENDENTLY. All work will be done on their free time, study halls, etc. After school meetings will be held either Tuesdays or Thursdays, so the students may ride the detention bus home.

Students must be motivated and either have much free time or be good time managers. Students will be broken up into committees to PLAN and IMPLEMENT projects. The instructor will be available as a facilitator and to help run activities, but will not plan the projects.

Students must log 60 hours of service to the school/community and keep proof of time spent and activities completed in a journal to be turned in each quarter, showing 15 hours of service per quarter.

Possible Committees are: Fundraising, Open Friday Nights, Prom Party, Teaching Younger Children, Spirit Days, Graduation/Senior Project, Appreciation Days, Easter Egg Hunt, Tutoring

## **English Program**

Each student is required to complete four units of English, one unit per year at the Regents level. In the senior year, a student may choose to complete more than one unit of English.

### **9th Grade**

All students must take 001 English 9 1 Credit

### **10th Grade**

All students must take 007 English 10 1 Credit

### **11th Grade**

All students must take 013 English 11 1 Credit

### **12th Grade**

Students must choose two half-credit courses or 1 full credit course.

014	Folktales, Fairytales, and Fiction	½ credit
017	Literature & Psychology	½ credit
035	College in the High School	1 credit
018	20th Century Literature	½ credit
021	Poetry Lovers Only	½ credit
554	SAT Prep	½ credit

### **Course Descriptions**

#### **001 English 9 1 Credit**

Reading, writing, grammar, spelling, listening and speaking will be taught. Literature selections will include full-length works such as Gathering Blue, To Kill a Mockingbird, and Romeo and Juliet, as well as short stories, poems, and essays.

#### **007 English 10 1 Credit**

Reading, writing, grammar, spelling, listening and speaking will be taught. Literature selections will include full-length works such as Lord of the Flies, A Separate Peace, A Walk to Remember, White Fang, A Midsummer Night's Dream, and Julius Caesar, as well as short stories, poems, and essays.

#### **013 English 11 1 Credit**

Reading, writing, grammar, spelling, listening and speaking will be taught. Emphasis will be placed on preparation for the Comprehensive English Regents. This course will include a study of American literature.

#### **014 Folktales, Fairytales, and Fiction ½ Credit**

This course studies literature in the areas of the supernatural, folk tales, fairy tales, and other popular fiction. Short stories and novels will include topics ranging from ghost stories to early folk fiction. Stories include folk tales of King Arthur and Robin Hood, as well as many fairytales by Hans Christian Andersen and The Grimm Brothers. Detective fiction by Edgar Allan Poe and Sir Arthur Conan Doyle, along with several ghost stories of the 1800s will be studied. Novels include Alice's Adventures in Wonderland and another TBD. Students should expect nightly reading homework and weekly writing assignments. This course will cover college writing, including thesis essays and a research paper, but is appropriate for all seniors. The first quarter focuses on folk and fairy tales, while the second quarter emphasizes a research paper and oral presentation using Power Point on related topics. A strong emphasis will be placed on writing assignments throughout the course.

#### **017 Literature and Psychology ½ Credit**

This course will explore the history and development of psychology as an organized science. We will study the major principles of psychology and apply them to our classroom activities as well as our personal lives. Major aspects of exploration will include, but will not be limited to, the history of psychology, psychological methods, heredity and environment, biological influences on behavior, understanding personality, measuring personality, measuring intellectual ability, and the processes of thinking and learning. As we delve into these psychological issues, literature will be the primary vehicle through which we relate psychology to our everyday lives. Three films will also be used to

further explore various principles of psychology. Students should expect to complete daily reading assignments, quizzes, tests, essay assignments, oral presentations, and project work.

**018 Twentieth Century Literature                      ½ Credit**

This course will offer the student the opportunity to explore literature of the twentieth century, as well as some contemporary work. In this course, students can select from more than a dozen titles, and will design their own timeline to complete the course. Course selections will be chosen from the best of recent fiction, non-fiction, poetry, and drama. Authors include Hemingway, Richard Russo, Tim O'Brien, Pat Conroy, Kim Edwards, Bernard Malamud, John Steinbeck, and many others. This is a reading intensive course, but will also involve essay writing and critical response papers. Students should expect daily reading assignments in this course.

**021 Poetry Lovers Only                                      ½ Credit**

This senior English elective will provide students the opportunity to explore the craft of writing poetry. Students will be expected to write their own original poetry using techniques and styles discussed in class and to share it publicly. Furthermore, students will be expected to have their poetry critiqued by their classmates and in turn critique the poetry of their peers. Throughout this process of writing and revising, students will be challenged to apply their developing knowledge of various styles of poetry and the practices of the major schools of poetic thought to their writing. Besides, writing, sharing, and critiquing poetry, students will be expected to research the lives and poetry of famous poets and provide oral presentations and written reports of their discoveries.

**035 College in the High School      1 Credit**

College in the High School English is a demanding college-level English course designed to develop the student's skills in reading and writing. This full-year, one credit class covers two college courses through FMCC. Students opting to take the full-year course may choose to pay a reduced fee to FMCC in order to receive college credit, or they may opt not to pay and simply receive high school credit. The first semester covers EN 103, a writing skills course including persuasive, analytical, and research writing using short stories for background reading. The first semester includes a ten-page research paper and short oral presentation. The second semester covers EN 104, a literature course which focuses on novels, plays, and poetry. Students will continue to improve writing skills throughout the second semester. Nightly reading and/or writing assignments will be given throughout the year. Students planning on taking the course should be in good academic standing and plan on having good attendance as makeup assignments will be required for each class period missed. Students considering taking this course that have lower than an 85 average in English 10 and 11 should see Miss Palmer prior to signing up.

**042 First Semester 043 Second Semester English Lab      0 Credit**

The English lab period is designed to allow the student an opportunity to receive special attention in English. The student can be assigned regularly to an English lab by a teacher, or he/she can seek help on a day-to-day basis. This lab is not a remedial class, but is a place where the student can receive individual help in areas such as developing writing skills, working on a particular assignment, or writing an application essay.

**554 SAT Prep    ½ credit**

This course will be offered in conjunction with English to prepare students for the SAT's. We will do examples from SAT review books and learn short cuts to solve some of the problems. This is a great opportunity for all college-bound students. This is a great opportunity for all college-bound students. Because the emphasis is on improvement, the course is offered on a pass/fail basis.

**DISTANCE LEARNING COURSE OFFERINGS**

**019 Children's Literature                                      ½ Credit**

This course will develop an awareness of the different types of children's literature and provide a critical basis for evaluation of this literature. Students will be expected to read and evaluate numerous children's literature, submit a written reflection at the conclusion of each unit and create several projects based on specific themes.

**020 Film Studies    ½ Credit**

This course will focus on a survey of various genre of film. Numerous films will be watched, discussed and analyzed in writing.

## Family and Consumer Sciences

Family and Consumer Sciences Department offers the following sequences:

### 1. Early Childhood Specialization

Students selecting a Family and Consumer Sciences sequence must take the CORE Courses. Any of the courses in Family & Consumer Sciences may be taken as electives.

### Early Childhood Specialization

#### Required

- Working Citizen (401 offered in Business Dept)
- 812 Human Development CORE
- 801 Food & Nutrition CORE
- 816 Early Childhood Education I (2 Credits)
- 814 Child Development
- 821 Early Childhood Education II (2 Credits) **Senior Year**

**A student interested in early childhood or elementary education may take 816 Early Childhood I as an elective during their senior year.**

COURSES	OFFERED IN 09-10	CREDITS
801 Foods & Nutrition CORE	Yes	½
803 International Foods	Yes	½
805 Gourmet Foods	Yes	½
812 Human Development CORE	Yes	½
813 Parenting	Yes	½
814 Child Development	NO	½
815 Adolescent Psychology	Yes	½
816 Early Childhood Ed. Program I	Yes	2
821 Early Childhood Ed. Program II	Yes	2

Any of the courses offered in Family & Consumer Services may be taken as electives by students not pursuing a sequence in Family & Consumer Services.

### **801 Food and Nutrition Core ½ Credit**

This course is designed to help students apply nutrition knowledge to everyday living, and to develop skills in menu planning, food purchasing, preparation and service in the basic areas of the food guide pyramid. Students will also explore careers and employment opportunities in the food and nutrition field.

### **803 International Foods ½ Credit**

In this course, students will explore a variety of culture specific foods and preparation techniques. Students will be doing research for a particular country. Through research students will learn about many different aspects of a culture and how food is a part of that particular culture. Students will also gain an understanding of cultural differences and interdependence of regions and countries around the entire world and of the ecological consequences of choices in the use of the environment and natural resources. Current and future food careers will be explored. **Prerequisite: Food and Nutrition.**

### **805 Gourmet Foods ½ Credit**

This course will emphasize catering, food presentation, and advanced foods. The student will explore standards of food preparation, mealtime efficiency, and how to make money with your cooking talents. The students will learn safety during food preparation and storage of prepared foods. **Prerequisite: Food and Nutrition.**

### **812 Human Development Core ½ Credit**

This course is designed to give students an opportunity to explore the contemporary issues facing them, and to investigate the many choices and challenges open to them as they deal with these issues. They will examine the family unit and analyze the adolescent's roles within the family structure. Ways in which the adolescent can effectively relate to younger children will be identified and practical applications will be developed. Students will investigate how to relate to and learn from the adults around them. Opportunities for employment in human development will be studied.

### **813 Parenting ½ Credit**

This course is centered upon the vast number of choices individuals make in relation to parenting. The economic, social, educational, and physical conditions that influence parenting are identified and their implications explored. Skills for working with children of all ages will be discussed and applied in laboratory situations.

### **814 Child Development ½ Credit**

The physical, emotional, intellectual, and social development of the infant, toddler, preschooler, school-age child, and child with special needs will be studied. Daily care, guidance, discipline, and other parenting skills, as well as care-giver and social concerns will be studied and practiced in a variety of situations.

### **815 Adolescent Psychology ½ Credit**

This course focuses on the study of adolescent growth and development. Students will become involved with and responsible for their personal growth socially, emotionally, intellectually, and physically. Students will explore values and their relationship to basic human needs. Adolescent crises will be identified and examined. Students will be better prepared to move toward successful adult roles in a responsible manner.

### **816 Early Childhood Education Programs 2 Credits**

This program provides an in-depth study of early childhood education including related managerial skills, curriculum, and developmental theory and application. Students will observe, participate in, and develop a variety of activities with young children that will enhance the development of these children. Competence for job skills will be stressed, practiced and evaluated in laboratory situations. The students will actively participate in elementary classrooms on a daily basis. Child development is recommended with this program. \*NOTE: CLASS IS OPEN TO STUDENTS AS AN ELECTIVE IN THE SENIOR YEAR. **Prerequisites: Parenting, Food & Nutrition.**

### **821 Early Childhood Education Program II 2 Credits**

In addition to advanced techniques in early childhood, the student will participate in a two-week internship in another childhood facility. Each student will write a position paper on an educational issue of his/her choice. **Prerequisite: Early Childhood Education Program I**

## Mathematics Program

The Mathematics Department offers the following courses for the credit listed:

<u>Subject</u>	<u>Credit</u>
201 Pre-Algebra	1
202 Algebra	1
203 Pre-Geometry	1
204 Geometry	1
205 Honors Geometry	1
207 Algebra 2/Trig	1
208 Pre-Calculus 1	1/2
209 Pre-Calculus 2	1/2
210 Introduction to Computer Programming	1
213 AP Statistics	1
215 AP Calculus - Analytic Geometry & Calculus I	1
554 SAT Prep	1/2
242 Math Lab - 1st Semester	0
243 Math Lab - 2nd Semester	0
<b>425 College Accounting *</b>	<b>1</b>
<b>426 Financial Math *</b>	<b>1</b>

Sequences: School Credit

Any combination of the following courses may be used for a three-course requirement for graduation. Special education students should see the guidance office for requirements.

Pre-Algebra  
Algebra  
Pre-Geometry  
Geometry  
Honors Geometry  
Math 3  
College Accounting as the 3rd unit  
Financial Math as the 3rd unit

### Math Course Descriptions

#### 201 Pre-Algebra 1 Credit Local Exam in June

This course is designed to reinforce basic mathematics skills while building new concepts including work with rational numbers, elementary equations, graphing as well as other aspects of geometry and algebra. It is intended for those students not quite ready for Algebra. For select units, the students will perform lab activities and work practical problems. Successful completion of this course and recommendation from the teacher will allow the student to enroll in Algebra. A scientific calculator is required for this course.

#### 202 Algebra 1 Credit Regents Exam in June

Prerequisite: 75% or higher in 8th grade math or Pre-Algebra

Algebra will include aspects of algebra and geometry, probability and statistics, the Rectangular Coordinate system, and right triangle trigonometry. Topics will include linear equations, graphing, ratio and proportions, factoring, quadratics, radicals, and areas and volumes of figures. Students will be required to complete a take home test each quarter.

A scientific calculator is required and a graphing calculator (TI-83 PLUS) is recommended.

**203 Pre-Geometry** 1 Credit Local exam in June

Prerequisite: Successful completion of Algebra.

This course will reinforce topics covered in Algebra. The course will cover topics such as logic, and mathematical systems including Groups and Fields. Also, Euclidean Geometry will be introduced as well as graphing, quadratic equations, and probability. This course is intended for those students who are not quite ready for Geometry. Successful completion of this course and recommendation from the teacher will allow the student to enroll in Geometry. A scientific calculator is required and a graphing calculator (TI-83 PLUS) is recommended.

**204 Geometry** 1 Credit Regents Exam in June.

Prerequisite: Successful completion of Algebra with a grade of 80% or higher or Pre-Geometry.

Geometry will examine various topics including Deductive Proofs, Quadratic Equations and Inequalities, Similarity, Logic, Locus, Constructions, Geometry of the Circle, and Properties of Polygons. A scientific calculator is required. A graphing calculator will be used throughout this course. A graphing calculator is preferred TI-83 Plus.

**205 Honors Geometry** 1 credit Regents Exam in June

Perquisite: accelerated math in 8<sup>th</sup> grade or teacher recommendation.

This course will cover topics including but not limited to Deductive Proofs, Quadratic Equations and Inequalities, Right-Triangle Trig, Similarity, Logic, Locus, Constructions, Geometry of the Circle, and Properties of Polygons. Students in this course will be taught at a faster pace and a higher level than those in Geometry. They will be challenged by being asked to answer more thought provoking questions that require thinking “outside the box”. This course will prepare students for Honors Algebra 2/Trig, Pre-Calculus and/or Calculus.

\*A graphing calculator is required for this course. The TI-83 Plus is preferred.

**207 Algebra 2/Trig** 1 Credit Regents Exam in June

Prerequisite: Successful completion of Geometry and Geometry Regents

This course includes topics such as Functions, Linear Functions and Systems, Polynomial Functions, Quadratic Functions, Matrices, Exponential and Logarithmic Functions, Rational and Radical Functions, Conic Sections,, Trigonometric Functions and Graphs, Probability, Statistics, and Sequences and Series.

\*A graphing calculator is required. TI-83 Plus is preferred.

\*Please note that if a student has an average of between 65-75 inclusive, in the high school math course immediately preceding this one, participation in a math lab is required in lieu of study hall.

**208 Pre-Calculus 1** ½ Credit

Prerequisite: Successful completion of Math 3

This course will prepare students for college level calculus. The course will cover topics including but not limited to Linear relations and functions; Systems of Equations and inequalities including work with elementary Matrices; Nature of Graphs; Polynomial and rational functions.

Graphing calculators are used extensively in both pre-calculus and calculus. Students are encouraged to purchase a graphing calculator, as it will greatly increase your understanding of many of the topics covered. In addition, the graphing calculator is required for the AP calculus exam. The TI-83 Plus calculator is probably your best choice since it can be used in these courses and is used in many colleges throughout the country.

**209 Pre-Calculus 2** ½ Credit

Prerequisite: Satisfactory completion of Pre-calculus 1

This course is an extension of Pre-calculus 1. Topics include, but are not limited to, Trigonometric functions, Conics, Polar Functions, Exponential and Logarithmic Functions; Series and Sequences; Vectors and Parametric equations; and Derivatives.

**210 Introduction to Computer Programming**

1 Credit Local Exam

This course is intended for students who have an interest in computer programming. Students should have completed or be enrolled in Math 2. Students will use “Karel the Robot” to get an introduction to object-oriented programming. Then students will learn to write basic programs using C++. Topics include: input and output statements, loops, if-else statements and functions.

### 213 College Statistics

1 Credit - 3 college credits (optional) AP Exam/Local

This course is equivalent to an introductory college-level course typically taught in one college semester. The purpose of the course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will study descriptive and inferential statistics. Students will explore data by observing patterns, plan a study deciding how and what to measure, anticipate patterns and produce models using probability and simulation and use statistical inference to confirm models. Prerequisite: Successful completion of Math 3. Graphing calculator is required, preferable TI-83 Plus.

Note: Students may take this course for college credit through FMCC. They will be required to pay a reduced tuition fee and receive 3 college credits transferable to any state college and some private colleges. Students may also take the Advanced Placement Exam in May.

### 215 College Calculus

1 Credit - 4 college credits (optional) AP EXAM (optional) Local Exam in June

Prerequisite: 3 years of high school math

This course covers topics from calculus, analytic geometry, differential equations and advanced areas. Topics include: inequalities, functions, limits, continuity, differentiation, application of the derivative, antidifferentiation, applications of the definite Integral and the techniques of integration. Generally offered to students who have completed courses 208/209. TI-83 Plus graphing calculator is required.

Note: Students may take this course for college credit through FMCC. They will be required to pay a reduced tuition fee and receive 4 college credits transferable to any state college and some private colleges. Students may also take the Advanced Placement Exam in May.

### 554 SAT Prep

½ credit

This course will be offered in conjunction with English to prepare students for the SAT's. We will do examples from SAT review books and learn short cuts to solve some of the problems. This is a great opportunity for all college-bound students.

### 425 COLLEGE ACCOUNTING (1 high school unit--4 college credit hours--1 year)

This is a college-level accounting class that is equivalent to the first half of a one-year college course introducing accounting theory: Theory of debit and credit; accounts and special journals; the accounting cycle; accounting for notes and interest, accrued items, receivables, inventories, and plant assets; preparation of financial statements. Emphasis is on sole proprietorship.

Students may opt to pay a reduced tuition to receive three college credit hours that are transferable to any state college and most private institutions. The class is open to all students with or without previous accounting background. Recommended grade level: 11-12

### 426 FINANCIAL MATH

This full-year course provides a comprehensive coverage of personal and business-related math. Spreadsheet applications, simulations, and E-commerce activities are integrated with the following topics: simple and compound interest, simple and compound discount, annuities, capital budgeting and depreciation, stocks, bonds, mutual funds, and real estate. Recommended grade level: 11-12. **College credit available.**

### Primary Instruction to Mainstream

A student coming from 1 year of primary instruction math will be placed in Pre-Algebra.  
A student coming from 2 years of primary instruction math will be placed in Algebra.

## Music Program

The music department offers the following courses for the credit listed:

850 (Mixed Chorus), 1/2 credit

851 (Select Chorus), 1/2 credit

852 (Senior Band), 1 credit

853 (Music in Our Lives), 1 credit

854 (Comprehensive Musicianship), 1 credit

855 (Comprehensive Musicianship II), 1/2 credit

856 (Wind Ensemble), 1 credit

857 Jazz Ensemble and Improvisation

### MUS 850 and MUS 851

The goals of the chorus program are to:

- develop a broad knowledge of choral literature encompassing many different styles.
- practice proper singing techniques including diction, posture, and breathing.
- interpret and perform music according to its stylistic features.
- develop listening skills, which allow for blending within a group.
- promote music literacy through the interpretation of scores and both rhythmic and melodic sight-singing activities.

The high school **mixed chorus** is designed to accommodate students who wish to elect group singing in parts. Students who have not participated in chorus at the middle school level must audition to gain admittance.

The high school **select chorus** is comprised of approximately 30 students chosen by audition and/or teacher recommendation. The level of music literature is much higher for this group. The select chorus, in addition to school concerts, also participates in many out of school performances and competitions.

All choral students are expected to participate in the winter concert in December and the spring concert in May, as well as graduation ceremonies in June. In addition, students in grades 9 and 10, regardless of which chorus they participate in, will also have a voice lesson once per week. Each lesson group contains approximately 5-8 students. Lesson materials include chorus music, sight-reading, composition, listening activities and supplementary materials taken from musical theatre, Broadway, Disney and other sources.

A point system is used for evaluation. Points are given for participation and preparedness, in both chorus and lessons. The accumulation of these points is used as the grade for each quarter. The three performances listed above serve as the final exam grade, which is averaged with the four quarter grades for the final average.

Chorus students also have the opportunity to participate in/audition for other activities, including All-County Chorus, NYSSMA Festivals, Area All-State, All-State and Melodies of Christmas.

### MUS 852

High School Concert Band is a full year course that meets every other day. In conjunction with the band class time students receive a weekly group band lesson.

High School Concert Band is a performance-intensive course that focuses on the rehearsal and performance of a challenging and fun musical repertoire. It is expected that students maintain respectful behavior and exert maximum effort during rehearsals. It is also expected that students attend all required performances. Failure to attend a required performance will negatively impact student's grade.

### **MUS 853**

Music in Our Lives is designed as a music appreciation course, geared toward those students who do not participate in band or chorus. It meets the Regents Action Plan requirement for one year of high school music or art. It meets every day for a full year.

The main goal of this course is to teach students to value music in their own lives and as an essential ingredient in the lives of all humans. The overall approach is not to make students like the music they study; it is to help them understand and respect it. It is hoped that this course will help students to:

- respond emotionally and intelligently to a wide range of music representative of many styles and cultures.
- understand the social uses of music and to value music accordingly.
- recognize music as an important marker of its time and culture.
- develop knowledge and understanding of, and respect for, superlative human musical achievements.
- acquire an overview of their own musical heritage and why music is an essential ingredient of all human cultures.

In order to achieve these goals, students acquire the technical understanding necessary, including basic musical concepts and vocabulary, knowledge of music theory and history, and development of skills in analysis, listening, performing, critiquing and creating.

Grading is based on attendance, participation, homework, small group and individual projects and quizzes. A final exam is given at the end of the year, which when averaged with the four quarter grades, determines the final grade for the course.

### **MUS 854**

This course is an elective open to students in grades 11 and 12. It meets every day for a full year. It is a college-level course geared toward those students interested in pursuing a career in the field of music.

This course covers basic music theory, sight-singing, rhythmic and melodic dictation and composition. Theory units include: notation, scales, intervals, transposition, chords, texture, melodic organization, voice leading, harmony, modulation and form.

Grading is based on homework, quizzes, tests, sight-singing exercises and compositions. A final exam is given at the end of the year.

### **MUS 855**

This course is a continuation of MUS 854, open to students in grade 12. It meets every other day for a full year. In addition to theory and aural skills, this course prepares students for college music auditions. Theory topics focus on modes, 2- and 4-part voice writing and harmonic analysis. Aural skills include melodic and rhythmic sight-reading, triad and interval recognition, and melodic sing-backs.

Successful completion of Comprehensive Musicianship I with a final average of 80 or higher is a pre-requisite for this course.

Grading is based on homework, quizzes, tests and compositions. A final exam is given at the end of the year.

### **MUS 856**

Wind Ensemble is a full year course that meets every other day. In conjunction with the band class time students receive a weekly group band lesson.

Wind Ensemble is a performance-intensive course that focuses on the rehearsal and performance of a challenging musical repertoire. Students will play a variety of band classics and new music. Much of the repertoire will be NYSSMA Level 5 and 6. This band will consist of 45-50 members who will audition to be part of the group. It is expected that students will maintain respectful behavior and exert maximum effort during rehearsals. Rehearsal techniques and maturity will be taken into consideration along with the students' audition when considered for admittance. It is also expected that students attend all required performances. Failure to attend a required performance will negatively impact student's grade.

### **MUS 857 Jazz Ensemble and Improvisation**

Jazz Ensemble and improvisation is a full year course that meets every other day students will receive .5 credit for this group. During Class the group will read, rehearse and perform both classic and modern jazz repertoire. In conjunction with the performance of this repertoire the group will learn basic jazz chord theory and improvisation skills. This course will not be a substitute for Concert Band and or Wind Ensemble. In order to audition students must be a member of one of those ensembles. The group will be required to perform at the concerts and will also participate in Jazz Festivals and competitions. Grades will be based on class participation and performance attendance.

## Technology Education Program

Bridge the gap between high school and your future educational opportunities.

Connections made through Technology Education help to focus the student's interest and abilities. Whether students move on to trade/technical programs, community colleges or four-year colleges, Technology Education graduates find success in a number of career fields.

## Brand New for 2009-2010 Introducing HS Project Lead The Way

In September 2009 we will be offering the first of several high school level Project Lead The Way pre-engineering courses. PLTW's curriculum makes math and science relevant for students. By engaging in hands-on, real-world projects, students understand how the skills they are learning in the classroom can be applied in everyday life.

## Technology Education at FFCS

- Sequences in Technology Education are approved for Regents Credit
- Technology Education can help students meet their career goals.
- Technology Education course can be used to fulfill the requirement for the third unit of math.
- The Design and Drawing for Production course can be used by any student to fulfill the art/music requirement.
- Students pursuing a five-unit sequence in occupational education can be exempted from the three-unit foreign language requirement.

## Entrepreneurship at FFCS

The Technology Department participated in the development on the Entrepreneurship Sequence. We encourage all students seeking a Technology Sequence to consider the Entrepreneurship Sequence as an addition to their educational plan. We believe the combination of these sequences will better prepare the student to use and market their skills in the future. One sequence provides saleable skills while the other provides the information needed to operate a small business or to be a more knowledgeable employee.

Think of the possibilities through higher education.....

Electrician Electrical Engineer	Technology Teacher	Construction Technology	Technical Consulting
Fine & Applied Arts	Production Technology	Biotechnology	Graphics & Engineering Communication
Transporting Technology	Manufacturing Technology	Futurist	Research & Development
Broadcasting	Media Arts	Mechanical Technology	Computer Information

## Educational Opportunities...

The Technology Department offers the following courses for the credit listed and for the grade level recommended.

501	Communication Systems	½	10-12
502	Production Systems	½	10-12
503	Transportation Systems	½	9-12
504	Basic Energy Systems	½	9-12
506	Design and Drawing for Production (Intro. to Engineering Design)	1	9-12
507	Material Processing	½	9-12
508	Production Research and Development	½	9-12
510	Computer Aided Drafting	½	9-12
511	Adv. Computer Aided Drafting	½	9-12
512	Architectural Drafting	½	9-12
513	Residential Structures	½	9-12

514	Adv. Production Research & Development	½	9-12
515	Principles of Engineering	1	9-12
516	Computer Graphics	½	9-12
517	Computer Applications	½	9-12
518	Aerospace	½	9-12
519	Land Transportation	½	9-12
520	Home Repair and Maintenance	½	9-12

## Technology Course Descriptions

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### **501 Communications Systems** ½ Credit      20 Weeks

\*Underclassmen must get teacher approval

This course emphasizes the electronic, graphic, and photographic systems people use to communicate information and ideas. Creative problem solving utilizing various communication processes will be used to organize and produce the senior DVD and the high school yearbook. Students will focus on the development of interpersonal and business communication skills required to meet the goals outlined for project completion. Students will utilize real world computer technology, digital photography and the principles and elements of design to complete assigned tasks.

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### **502 Production Systems** ½ Credit      20 Weeks

Production Systems provides the second half of the year-long high school yearbook production experience usually paired with Communication Systems. Students will be responsible for all aspects of the creation, development, and eventual production of the high school yearbook - something to be very proud of. We will focus on the preparation, proofing, and final selection of all yearbook components as well as marketing strategies.

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### **503 Transportation Systems** ½ Credit      20 Weeks

Transportation Systems provides an overview of aerospace, land, marine, and air transportation methods and systems. Students will construct models of various types of transportation vehicles and have the opportunity to use their design skills in several competition-based activities.

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### **504 Basic Energy Systems** ½ Credit      20 Weeks

Energy Systems is an introductory course that will explore energy supplies and systems, sources, types, and forms of energy, consumption and conservation, and include the study of the quickly developing field of energy careers.

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### **506 Design and Drawing for Production (Intro. To Engineering Design)** 1 Credit      40 Weeks

This course emphasizes creative problem solving, designing and technical drawing. The course reflects the approach used in business and industry to develop new products. Students will develop solutions to various design or product problems where proposed solutions are researched, scheduled, refined, and rendered as technical drawings. Basic elements of design and the areas of technical drawing are covered.

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### **507 Material Processing** ½ Credit      20 Weeks

A broad view of the way materials have changed. Students will study the methods of processing various materials. For example: cutting wood, plastics, ceramics, metals, etc. Students will construct projects using different materials.

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### **508 Production Research and Development** ½ Credit      20 Weeks

A course designed to involve students in realistic, hands-on research and development. Students will form a company in order to learn the knowledge and skills involved to successfully produce a good for sale and distribution.

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**510 Computer Aided Design and Drawing** ½ Credit 20 Weeks  
Prerequisite: Design and Drawing for Production

Computer Aided Design (CAD) will address the areas of design and technical drawing as related to the computer. The students will become familiar with the uses, equipment, and processes involved in CAD. Each student will complete a required number of drawings and projects that pertain to each area taught.

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**511 Adv. Computer Aided Design** ½ Credit 20 Weeks  
Prerequisites: Computer Aided Design

Advanced Computer Aided Design will be a follow up course for Computer Aided Design. The course will involve more complicated drawings and problems. The students will complete worksheets, drawings, and design problems for evaluation.

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**512 Architectural Drawing** ½ Credit 20 Weeks  
Prerequisites: Design and Drawing for Production or a junior/senior.

Architectural Drawing deals with the construction methods and mechanical drawing techniques of residential design and construction. Architectural Drawing is a study of design and drafting related to building constructions. Content to be taught will include: history, room/area plans, exterior plans, perspectives, site plans, aesthetics and careers. Each student will complete a required number of drawings that pertain to each area taught.

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**513 Residential Structures** ½ Credit 20 Weeks

This course is a study of the any systems and skills involved in constructing residential buildings. Course content will include resources, processes and outputs and effects. Examples of contents will include planning, materials, framing, roofing, plumbing, and environmental impacts.

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**514 Adv. Production Research and Development** ½ Credit 20 Weeks  
Prerequisites: Production Research and Development

This course is of the advanced type. It is of an exploratory nature, using all of the resources in the Technology Department. This course will consist of practical application work by the student, further exploration in the technology areas of special interest to him/her to prepare him/her for the technological society they live in today.

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**515 Principles of Engineering** 1 Credits 40 Weeks  
Prerequisites: Senior Standing

This course is an integrative drawing, math, and science hands on laboratory based on a set of case studies. These case studies will include auto safety, communications, energy, machine automation, and structures. The course will be taught in a laboratory setting providing access to tools and materials for individual, small group and large group projects.

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**516 Computer Graphics** ½ Credit 20 Weeks

This course consists of instruction and hands on activities in image design, electronic imaging, equipment interfacing, and image transfer and finishing. Desktop publishing and other computer technologies are stressed in this hands-on learning lab.

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**517 Computer Applications** ½ Credit 20 Weeks

This course provides instruction relating to the types, uses, advantages and disadvantages of different computer systems, the evolution of today's computer and its impact on education, industry and the individual. Personal, social, industrial, and commercial applications of computer systems will be emphasized, including applications software, telecommunications, and computer control. Students will use a variety of methods to complete the following: programming, spreadsheets, word processing, CAD and graphics.

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**518 Aerospace** ½ Credit 20 Weeks

This course provides an introduction to the growing field of aerospace technology. The student will have the opportunity to use both computer simulations and models to become more familiar with all areas of aerospace technology. The course will discuss the progression of flight from the fundamentals of flight to space travel today.

**519 Land Transportation** $\frac{1}{2}$  Credit

20 Weeks

An investigation of the various systems needed to operate a land vehicle. Students will perform tasks on automobile and small engines. Students will be required to bring in a project to work on.

**520 Home Repair and Maintenance** $\frac{1}{2}$  Credit

20 Weeks

This course is a study of the many systems and skills involved in repairing and maintaining a home, troubleshooting and repair procedures for appliances, and step-by-step instructions for common repairs. Course content will include roof repair, gutters, walls, floors, concrete, furniture, heating and cooling systems, insulation, and many more topics.

## Foreign Language Department

The foreign language department offers the following courses for the credit listed:

<u>Subject</u>	<u>Credit</u>
650 French I	1
651_ French II	1
652 French III	1
653 French IV	1
659 French V	1
654 Spanish I	1
655 Spanish II	1
656 Spanish III	1
657 Spanish IV	1
660 Spanish V	1

650 French I 1 Credit Local Exam

Introductory language course geared to the student interested in developing basic language skills in the reading, writing, speaking, and comprehension of a foreign language. Much emphasis is placed on oral expression and cultural awareness.

651 French II 1 Credit Local Exam

Prerequisite: Student has passed the Proficiency Exam or French I

Geared to the continuing intermediate level French student who desires to progress and further develop all the language skills needed to communicate effectively in a French speaking country. Knowledge of culture and history is also broadened

652 French III 1 Credit Regents Exam

Prerequisite: French I and II

Geared to the student capable of performing at a Regents level of study. Much emphasis is placed on reading, writing, comprehension and oral expression of the French language. Varied projects and activities.

653 French IV 1 Credit

Prerequisite: French I, II, III

For the motivated French student who desires to study a blend of culture, history, literature and art of French speaking countries. Students will further develop oral/speaking proficiency.

659 French V Prerequisite: Level IV and Teacher Approval

Content to include advanced grammar and composition, literature, research projects and oral presentations.

654 Spanish I 1 Credit Local Exam in June; possibly in January by teacher approval only

An introduction to speaking, reading, writing and comprehending a modern foreign language. Students learn to recognize the various parts of speech and work with the grammatical structure of Spanish. Extensive practical vocabulary, Hispanic culture and current events.

655 Spanish II 1 Credit Local Exam

Prerequisite: Student has passed the proficiency Exam or Spanish I

Basic skills and vocabulary are expanded at this level. The student will read and comprehend more advanced material, converse and write about more topics in more tenses. Auditory comprehension continues, as does discussion of customs and culture..

656 Spanish III 1 Credit Regents Exam

Prerequisite: Spanish I and II

Speaking, reading, writing and comprehending skills gain sophistication. Emphasis is on reading and auditory comprehension as well as short composition and conversations. Vocabulary expands rapidly to include common synonyms, antonyms, and idiomatic expressions.

657 Spanish IV 1 Credit Local Exam

Prerequisite: 85% or Better on Comprehensive Spanish Regents/Final Course Average Spanish III

This elective course is designed for those who are motivated to work independently as well as in class to advance their Spanish speaking, listening, reading, and writing skills. Course content will include advanced grammar in addition to geography, history, culture, current events, art and literature. Creative writing is expected, along with oral presentations. Students will read from Miguel de Cervantes' Don Quijote.

660 Spanish V \*\* 1 Credit Local Exam

Prerequisite: 85% or better final course average in Spanish IV

\*\* May also be taken as FMCC course Intermediate Spanish II, FL244 for 3 paid credits. This course will continue to actively broaden students' oral, aural, reading comprehension and writing skills at college level. Reading will be from classic and contemporary sources. Writing will be for grammatical accuracy as well as creativity. Culture is inherent in all materials used in order to deepen knowledge and foster appreciation.

## Science Program

The science department offers the following courses for the credit listed:

301	Physics/ The Physical Setting*	1
303	Chemistry/The Physical Setting	1
305	Biology/The Living Environment	1
306	Honors Biology	1
307	Earth Science/The Physical Setting	1
310	Human Anatomy & Physiology	1
312	AP Biology/ College Biology *	1
316	Microbiology	1
318	Lab-Honors Biology	
319	Lab - Biology	
320	Lab - Chemistry	
321	Lab - Physics*	
322	Lab - Earth Science	
324	Lab - AP Biology /College Biology*	
304	Environmental Science	1

\* These courses have specific math requirements.

### SEQUENCES: REGENTS

1)	EARTH SCIENCE/The Physical Setting BIOLOGY/The Living Environment CHEMISTRY/The Physical Setting PHYSICS/The Physical Setting	2)	BIOLOGY/The Living Environment CHEMISTRY/The Physical Setting PHYSICS/ The Physical Setting
3)	EARTH SCIENCE/The Physical Setting BIOLOGY/The Living Environment PHYSICS/The Physical Setting	4)	EARTH SCIENCE/The Physical Setting CHEMISTRY/The Physical Setting PHYSICS/ The Physical Setting

NOTE: ALL SUGGESTIONS IN THE SEQUENCES ARE MADE WITH THE RECOMMENDATION THAT STUDENTS SHOW STRENGTH IN THE FIELD OF MATHEMATICS.

ELECTIVES: HUMAN ANATOMY & PHYSIOLOGY  
MICROBIOLOGY  
ENVIRONMENTAL SCIENCE  
AP BIOLOGY/COLLEGE CREDIT BIOLOGY

### 301 Physics – The Physical Setting 1 Credit Regents Exam

Prerequisites:

1. Students must have successfully completed a Regents science class.
2. Completion of Chemistry is also desirable, although a student can complete physics without taking chemistry . However, since physics requires more maturity and understanding in mathematical concepts, it is recommended that it be placed at the top of the science sequence.
3. Mathematics: The student should have as much math training as possible.
  - a. Both Algebra and Geometry should have been completed.
  - b. The student should have completed or be in the process of taking Trigonometry.
4. Recommendation of a former science teacher.

Goals: 1. Develop laboratory technique.  
2. Teach the basic principles of the course.  
3. Relate physics to the student's environment.

Topics included: Mechanics, Waves, Energy, Electricity, Magnetism, Nuclear and Modern Physics.

**303 Chemistry – The Physical Setting** **1 Credit** **Regents Exam**

Prerequisite: Open to students who have completed the Geometry Regents or who are currently enrolled in Geometry. Successful completion of the Algebra Regents is desirable as there are many algebraic formulae used in Chemistry.

Goals:

- 1) To give the students an understanding of basic principles of chemistry.
- 2) To provide students with individual laboratory experiences that will help them understand basic theoretical concepts in Chemistry.
- 3) To help students relate learning experiences in chemistry in their environment and to their philosophy of life.
- 4) To help students develop competence in using basic processes of quantitative and qualitative analysis.

Topics include matter and energy, atomic structure, bonding, the periodic table, mathematics of chemistry, kinetics and equilibrium, acid-base theories, redox, and electricity, and organic chemistry.

**304 Environmental Science** **1 Credit** **Local Exam**

Prerequisites: Having satisfied the State's graduation requirement of taking two Regents science classes and having passed one science Regents Exam.

This is a full year Biology course that will examine organisms and their interactions with the environment. It will examine such topics as pollution, water testing, and conservation and use of limited resources. Furthermore, this course will also look at some fundamental chemistry principals and how they relate to everyday life. This course provides regents- level material and is appropriate for students who are not science majors but need a third science credit for graduation.

**305 Biology – The Living Environment** **1 Credit** **Regents Exam**

Goals:

- 1) Introduce students to general biological principles
- 2) Advance inductive thinking by inquiry approach
- 3) Maximize individualized approach through student projects
- 4) Attitudinal and Affective domains given high priority
- 5) Provide integrated awareness of natural world
- 6) Firsthand analysis of plants and animals
- 7) Use of terminology as a tool rather than an end in itself

Topics to be covered include ecological relationships, energy relationships, reproduction and development, and patterns of inheritance. Students are required to take lab and all labs must be submitted in order to be eligible to take Regent's exam.

**306 Honors Biology- The Living Environment** **1 Credit** **Regents Exam**

This course covers the curriculum mandated by NYS for the Regents Living Environment lecture and lab. The student will take the June Regent's exam. This course is designed for the student who has shown exemplary work in previous science courses. The topics covered will be more in-depth and at a faster pace than the non-honors class. This class is for the student that has the maturity and intelligence for a more rigorous course. The goal is to hopefully have the student take AP Biology/College Biology.

Prerequisites:

- a.) 90% or better overall average in Earth Science
- b.) 85% or better on the Earth Science Regent's Exam
- c.) approval by their 9<sup>th</sup> grade science & math teacher
- d.) approval by their guidance counselor

**307 Earth Science/The Physical Setting** **1 Credit** **Regents Exam**

Topics to be covered include weather, rocks, minerals, water, pollution, earthquakes, and astronomy. LAB CLASS REQUIRED.

**310 Human Anatomy & Physiology** 1 Credit Local Exam

**Prerequisite: Regents Biology or permission of instructor.**

The purpose and philosophy of this course is to reinforce and expand basic principles of biology that were introduced in Regents biology. It also goes into depth concerning human health and medical issues. Lecture, theory, labs, and practical applications are combined to give a proper overview of human anatomy and physiology.

This course is recommended to many students for a variety of reasons. These reasons include the student that definitely has an interest in the medical profession to the student who just wants a better understanding of their own health. This is not a regent's course but can be used for the third science for graduation.

**312 AP Biology/College Credit Biology** 1 Credit AP Exam or Local Exam

**Prerequisite: Exemplary work in R-Biology and R-Chemistry**

This course is approved as an Advanced-Placement course by the Advanced Placement College Board. In May the student is eligible to take the AP Biology exam. It is designed to be the equivalent of a college introductory biology course. This course is also affiliated with Fulton Montgomery Community College and upon successful completion earns the student 4 college credits. This course covers topics that are regularly covered in a college biology course and differs from a high school biology course with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. In addition, the labs will be the equivalent of college labs. This is a fast paced, rigorous course. The student can use the course for AP credit and/or FMCC credit.

The course of study will consist of 25% Molecules and Cells, 25% Heredity and Evolution and 50% Organisms and Populations. Primary emphasis should be on developing an understanding of concepts rather than memorizing terms and technical details

**316 Microbiology** 1 Credit Local Exam

**Prerequisite: Regents Biology and Regents Chemistry**

This course will focus on bacteria. The approach to this course will primarily be through laboratory exercises. Micro technique will be emphasized. Areas covered include bacterial anatomy, cultivation of bacteria in pure culture, bacterial metabolism and genetics, and bacterial diseases. Fungi and the viruses may be included.

## Social Studies Course Selections

- Global History and Geography I
- Global History and Geography II
- U.S. History & Government
- American History I (College in the High School - F-MCC)
- American History II (College in the High School - F-MCC)
- Participation in Government
- Economics
- Intro to Political Science (College in the High School - F-MCC)
- Intro to Economics (College in the High School - F-MCC)
- Modern American History (Senior Elective)

## Social Studies Program

1. Every student will have to complete four units of social studies.
2. Every student will also have to successfully pass the Global History and Geography II Regents exam and the US History and Government Regents exam in order to receive a Regents diploma.

The Social Studies Department offers the following courses for the credit listed:

### 9<sup>th</sup> Grade

All students must take this course:

**101 Global History and Geography I** 1 Credit

### 10<sup>th</sup> Grade

All students must take this course:

**103 Global History and Geography II** 1 Credit

### 11<sup>th</sup> Grade

All students must take this course:

**105 U.S. History & Government** 1 Credit

### 12<sup>th</sup> Grade

All students must take this course:

**107 Participation in Government** ½ Credit

**109 Economics** ½ Credit

Students wishing to complete a major in social studies can take:

**Modern American History** 1 Credit

## 101 Global History and Geography I 1 Credit Grade 9

This course begins a two-year chronological study of world history. The curriculum will reflect the new standards, which includes world history, geography, economics, and political science. The scope of the course will include topics, ranging from the early peoples in Asia and the Middle East and conclude about 1750 in the early modern period. Writing and critical thinking skills will be stressed for students who are in the Regents program.

## 103 Global History and Geography II 1 Credit Grade 10

This course will continue the chronological study of world history. The topics will begin with the Age of Revolutions and continue into the twentieth century. The curriculum will reflect an emphasis on world history, geography, economics, and political science that are contained in the new standards. Students will take a Regents exam at the completion of the two-year global history sequence.

**106 United States History and Government      1 Credit      Grade 11**

This curriculum is a basic survey course of key events in American history from the origins of the U.S. as a new nation to the complexity of modern America today. Students will take the Regents exam at the completion of a full-year of instruction.

**107 Participation in Government      ½ Credit      Grade 12**

The objectives of this half-year course are to develop a sense of civic responsibility and duty; to understand public policy and its impact on our society and on the economy, to critically analyze, understand, and discuss current political issues; and to locate information and agencies necessary in making careful political decisions.

**109 Economics      ½ Credit      Grade 12**

This curriculum is designed to build thinking skills and job skills that today's business owners and corporations desire in their workers. The objectives of this half-year course are to understand basic micro and macro economic concepts, their impact our lives; to critically analyze, understand, and discuss current economic issues; and to locate information and agencies necessary in making careful economic decisions.

**Introduction to Political Science/Economics      2 Half-Credit Courses      Grade 12**  
**COLLEGE IN THE HIGH SCHOOL**

This course is offered to those seniors interested in examining the American political system on an introductory college level format. The structure and function of the American political system is addressed with a focus on the U.S. Constitutional framework for governing and the interplay of the three major branches of government with important governing power-brokers and influence-makers. A historical, as well as, current approach to the study of the system is taken.

The first ten weeks of the course will cover economic topics, primarily microeconomics, and macro economics.

Students take this course as part of their social studies graduation requirement. Students also have the option of taking the national qualifying examination in this subject with the aim of obtaining college credit for the course work done this half-year. Additionally, even the student who has not received college course credit does derive the benefit of preparing in high school for more rigorous demands of college work. Students wishing to enroll in this course should have scored 88% or higher in either U.S. History & Government or the U. S. History and Government Regents.

In addition, there is a summer reading and writing assignment of three books.

A great emphasis on critical thinking, reading comprehension and written communication are key features of this course. Text readings of primary sources and works of book length require a commitment to a greater volume of work than is common in the usual survey courses offered.

**132 First Semester      133 Second Semester      Social Studies Lab**

For those who find social studies work especially challenging, the department would like to offer tutorial opportunities during study hall periods. Students interested in obtaining additional help on composition writing, test-taking, research projects, critical reading/thinking skills would sign up for this lab during their study hall. During this period, they would have access to a Social Studies instructor as their study hall teacher so that this extra tutorial help could be given. Students would receive assistance in preparing homework or reviewing for tests so that their in-class performance would improve.

**AMERICAN HISTORY I and II      2 Half-Credit Courses      Grade 11**  
**COLLEGE IN THE HIGH SCHOOL**

The Social Studies Department offers **two** semester concurrent enrollment courses (College in the High School) that will offer 3 college credits per semester from F-MCC. The courses will be taught here at Fonda-Fultonville High School. Completion of both courses will also meet New York State Regents requirements. Students must meet the following requirements:

- Have completed enough credits to achieve 11th Grade status academically.
- Have an overall average of at least 90 from Global History II or obtain permission from the instructor.

Students who enroll in the College in the High School courses must pay tuition to F-MCC to receive college credit. However, the tuition is usually one-third the regular tuition rate. For classes beginning at the start of the school year, the Registrar from F-MCC will make class presentations in September and students will have until October 1st to opt for college credit. F-FCS is not responsible for collecting any money; the college bills the students directly. The same procedure occurs in January for enrollment in the second course.

Students taking these courses are reminded that they are required to take and pass the New York State Regents Exam in June. The Regents Exam is a requirement for graduation even though it will not be counted as the final exam for these courses. (In our own high school's U.S. History and Government Regents course, the Regents Exam counts as your final exam grade.)

### **COURSE DESCRIPTION**

#### **SS 283 Survey of American History I**

**FA 3 s.h.**

A survey of the political, social, and intellectual development of the United States from the Colonial period to Reconstruction. General Education: U.

#### **SS 284 Survey of American History II**

**SP 3 s.h.**

A continuation of SS 283 from Reconstruction to the present. Emphasis on the changing character of the American society and its role in international affairs. General Education: U.

### **MODERN AMERICAN HISTORY ELECTIVE**

**1 Credit**

**Grade 12**

This elective will focus on the important historical developments since 1945. The course will utilize films, both dramatic and documentary, that depict these historic events to help us gain a greater understanding of the America we live in today. The course will emphasize discussion and active participation.

**970 Health****½ Credit****20 Weeks****Local Exam**

This course is required once in grade 7 and then once again in grades 10, 11, or 12. If a senior has an urgent scheduling conflict, independent study can be arranged with the permission of the instructor and the principal, but the course itself is suggested.

The Health Education course is designed to provide students with an enjoyable, interactive, hands-on learning environment, where they will be provided with the information and skills that are necessary to live healthy for a lifetime. The students will develop in all three areas of the Health Triangle: physical, social, and mental/emotional.

The health curriculum will cover the following units/topics: Systems of the Body, Human Growth and Development, Communicable/Non-Communicable Diseases, Smoking, Alcohol & Drugs, Nutrition and Physical Activity, CPR, First Aid & Safety, Mental and Emotional Health, as well as current health issues and problems.

This is a half year (20 week) course that is offered both the first and second semester. The class meets every day for the time the course is in session. It is only required to take one semester of health education in high school to meet the ½ credit requirement.

**972 Journalism****1 Credit****Full Year****(Grades 9-12)**

This course provides an opportunity for any high school student to explore the areas of journalism, commercial production systems, business communication and desktop publishing. Units of instruction in these courses include: The mass media in a democratic society, The journalist in a democratic society, The high school journalist and school media, Yearbook production - editorial positions and staff. Students will write feature stories, sports stories, and news stories. The class will conduct interviews and write articles from these interviews.

Yearbook production offers the student a wide variety of valuable experience in layout design, photography, business communication, record keeping, and copy writing. The unit will begin as a formal instruction in the complete production of the yearbook, progressing to an in-class workshop where actual production of the book will be carried out. Because of the scope of this project, out of class time will be a requirement.

The class involves on-going evaluation with each student responsible for completion of their assigned pages of the yearbook and the fundraising involved. In addition, writing news media will be studied and required writings in these areas will be assigned.

**974 PEER LEADERSHIP**                      **½ Credit**                      **20 Weeks-Every day**                      **½ Year**

This elective is offered in order to educate high school students in regards to substance abuse and other concerns of youth today. The content will touch upon prevention, intervention, and treatment.

Topics covered will be the following:  
Assertion/communication/listening skills  
Values/goals/decision making/problem solving  
Drug and alcohol abuse prevention/refusal skills  
Stress management/self-esteem/eating disorders/suicide prevention  
Leadership skills/Teaching techniques  
Peer helping  
Ethics/Confidentiality

Course Requirements:

Students must:  
Keep a Journal.  
Attend and participate in class discussions.  
Complete a school project.  
Complete a community project. (5 separate projects or one five-week project.)  
Assist fellow students.

Grading

All journals for each quarter  
5 hours minimum of school service each quarter  
Total of five hours minimum of community service

\* It is helpful if students have study halls.

\*\* See "Peer Too" description. Looking for same type of student. You will be busy. Students will plan and carry out projects - the instructor is the facilitator only.

**977 PEER LEADERSHIP TOO**                      **½ Credit**                      **Full Year**

This is a much more extensive version of Peer Leadership. Peer Leadership is NOT a prerequisite. The student who enlists in this course must be a unique individual who is energetic, dedicated, responsible, and concerned about the school and community. This course is fun and requires much time.

Grading for this course will be pass/fail. Students must be able to attend after school meetings and work INDEPENDENTLY. All work will be done on their free time, study halls, etc. After school meetings will be held either Tuesdays or Thursdays, so the students may ride the detention bus home.

Students must be motivated and either have much free time or be good time managers. Students will be broken up into committees to PLAN and IMPLEMENT projects. The instructor will be available as a facilitator and to help run activities, but will not plan the projects.

Students must log 60 hours of service to the school/community and keep proof of time spent and activities completed in a journal to be turned in each quarter, showing 15 hours of service per quarter.

Possible Committees are: Fundraising, Open Friday Nights, Prom Party, Teaching Younger Children, Spirit Days, Graduation/Senior Project, Appreciation Days, Easter Egg Hunt, Tutoring

## **Physical Education**

990-992            Grades 9-10 (Semester 1 &2) Physical Education  $\frac{1}{2}$   
991-993            Grades 11-12 (Semester 1 & 2) Physical Education  $\frac{1}{2}$

You must take physical education for a full year. Each student is required to complete four years of physical education in high school.

The school year will be divided into 12 blocks of time with a different gym activity being offered each block. Unless restricted by large numbers, each student will be allowed to choose between the swimming activity and the gym activity during each block. Most activities are co-ed.

Students will be assigned physical education every other day for the entire school year.

Course offerings include a wide variety of swimming activities, lifetime sports activities, and co-educational activities. All students 9-12 will receive instruction on survival swimming techniques.

Beginning in the freshmen year, each student will receive  $\frac{1}{4}$  credit for each semester of physical education class that is successfully completed. I.E. two semesters per year =  $2 \times \frac{1}{4} = \frac{1}{2}$  credit toward graduation. A student must complete four years of physical education in high school or 2 credits in order to graduate.

A numerical grade will also be given to each student in physical education class. A student's grade will be determined by their ability to meet certain criteria outlined by their instructor. The criteria may include but are not limited to: preparation for class, attitude, skill level, knowledge of activity.

Participation in class is required to pass physical education. Any classes missed because of tardiness, unexcused absences, or being unprepared for class, may result in failure.