

CHOICES HANDBOOK

*A Planning Guide for Diploma
Requirements*

2024-2025



Counseling & Career Center

Phone: (315) 484-1401

Visit us on the web @ www.solvayschools.org

Counseling & Career Center Staff

Mr. Micho – Director of Counseling

Mrs. DeWaters – School Counselor

Mrs. Passalugo-Wales – School Counselor

“Experience the Pride”

January 2024

Dear Students,

Welcome to the 2024-2025 edition of the Choices Handbook. We look forward to working with you as you make important decisions regarding your high school years. This handbook is designed to provide accurate information regarding course descriptions. It is also intended to acquaint you with the most recent diploma requirements mandated by both the Solvay School District as well as the New York State Department of Education. Please carefully examine the requirements that are detailed within to become familiar with the courses and examinations that you will need to complete in order to graduate from Solvay High School.

While courses in the freshman and sophomore years are fairly well prescribed, there is greater flexibility as you progress to the upper grade levels. The most effective means of gaining that choice is through academic focus and successful completion of required classes and Regents examinations. Freshmen should discuss the Foreign Language and Fine Arts requirements as well as Career and Technical Education opportunities with their counselor in order to understand the widest and most appropriate range of options available.

Once you have made your schedule choices, every effort will be made to preserve your requests. However, constraints within the master schedule may make that impossible. Should it be necessary to adjust your selections, we will suggest alternative classes that may be similar in nature to the one in conflict. As early planning can often prevent later disappointment, final course requests need to be completed in a timely manner. Schedule change requests made over the summer are difficult to accommodate and those made after school has opened are virtually impossible.

Throughout your high school years, you will be making many important and often life changing decisions. Included are those involving the contemplation of career opportunities, college, technical and trade school options, the establishment of goals and the management of personal challenges. The decisions and choices that you make today may heavily impact upon the options that you will have available in the future. Choose wisely and make all that you do, be a positive reflection on who you are. The counselors look forward to helping you through the years and welcome all questions and concerns that you may have.

Good luck for a very successful and greatly rewarding high school experience!

Solvay High School Counselors,

Brad Micho, Director of Counseling
Kristine DeWaters, Counselor
Michele Passalugo-Wales, Counselor

Students with Last Names A – B
Students with Last Names Me – Z
Students with Last Names C – Mc

STUDENT REGENTS REQUIREMENTS

Regents Diploma		Advanced Designation Diploma	
English	4	English	4
Social Studies	4	Social Studies	4
Math ²	3	Math	3
Science ²	3	Science	3
Foreign Language ¹	1	Foreign Language ³	3
Art/Music	1	Art/Music	1
Health	.5	Health	.5
Physical Education	2	Physical Education	2
Electives	3.5	Electives	1.5
Total	22.0	Total	22.0

<i>Required Exams</i> (Passing score of 65 and above)	<i>Required Exams</i> (Passing score of 65 and above)
Common Core English	Common Core English
Common Core Algebra	Common Core Algebra, Geometry & Algebra 2/Trigonometry
Regents Global Studies	Regents Global Studies Exam
Regents U.S. History	Regents U.S. History Exam
Regents Science	Two Regents Science Exams

¹Students are required to have successfully completed one unit of credit in a foreign language by the end of their freshman year and pass a final exam.

²An integrated course in mathematics/science/technology may be used as the third required unit of credit in mathematics or science.

³ Students acquiring 5 units of credit in Art, Business, Technology or Vocational Education may be exempt.

Solvay High School

Course Selection Sheet

2024-2025

Name: _____
 Grade: _____ ID: _____
 Phone: _____

Course#	English Courses	Credit	Course#	Mathematics Courses	Credit	Course#	Science Courses	Credit	Course#	Technology Courses	Credit
0002	English 9	1.00	0126	Algebra I	1.00	0084	Physical Setting/Earth Science	1.00			
0003	English 9 H	1.00	0127	Geometry	1.00	0086	Physical Setting/Earth Science H	1.00	0513	Adaptive Design	0.50
0010	English 10	1.00	0140	Fundamentals of Algebra	1.00	0096	Living Environment/Biology	1.00	0517	Computer Graphics I	0.50
0011	English 10 H	1.00	0154	Algebra II w/Trigonometry	1.00	0099	Everyday Physics I	0.50	0519	Computer Graphics II	0.50
0018	English 11	1.00	0155	Algebra II w/Trigonometry H	1.00	0101	Everyday Physics II	0.50	0540	Video Production	0.50
0019	English 11 H	1.00	0150	OCC PreCalc/Trig (MAT143)	1.00	0103	General Chemistry I	0.50	0545	Black & White Photography	0.50
0028	English 12	1.00	0151	Robotics Engineering	1.00	0104	General Chemistry II	0.50	0561	TCC Intro to Photojournalism (ART106)	0.50
0031	OCC Learning Seminars (ILS153)	0.50	0153	OCC Calculus (MAT161)	1.00	0105	ESF General Bio I (EFB101)	0.50	0515	Emerging Technologies	0.50
0037	OCC English (ENG 103)	0.50	0160	CCC Statistics (MATH214)	1.00	0109	ESF General Bio II (EFB103)	0.50	0524	Materials Processing	0.50
0038	OCC English (ENG104)	0.50	0225	Business & Personal Finance	1.00	0106	Physical Setting/Chemistry	1.00	0553	Automotive Technology	0.50
0901	English AIS		0226	OCC Finite Math (BUS102)	1.00	0107	Chemistry Honors (PSE296)	1.00	0514	Residential Structures	0.50
			0903	Math AIS	1.00	0113	OCC General Physics I	0.50	0541	Intro to Computer Science	0.50
Course#	ESL Courses	Credit	Course#	Business Courses	Credit	0116	OCC General Physics II	0.50	0535	OCC Intro to Eng. (MET150)	0.50
0174	ENL 9-10	1.00	0201	Career & Financial Mgt.	0.50	0117	SUPA Forensics (CHE113)	1.00	0532	OCC Engineering Drawing (MET161)	0.50
0175	ENL 11-12	1.00	0208	Business Ownership	0.50	0118	ESF Global Environment (EFB120)	1.00			
0176	Integrated ENL 9-10	1.00	0225	Business & Personal Finance	1.00	0136	Physical Science I	0.50			
0177	Integrated ENL 11-12	1.00	0226	OCC Finite Math (BUS102)	1.00	0137	Physical Science II	0.50			
			0228	OCC Financial Acc (BUS105)	1.00	0315	Applied Food Science I	0.50			
Course#	World Language Courses	Credit	0233	Business Law	0.50	0316	Applied Food Science II	0.50			
0162	Spanish 1	1.00	0236	Co-Op		0913	Science AIS				
0164	Spanish 2	1.00	0238	Sports & Ent Marketing	0.50	Course#	Social Studies Courses	Credit			
0168	Spanish 3	1.00	0240	OCC Desktop Pub (ART123)	1.00	0040	Global History/Geo 9	1.00			
0173	CCC Spanish 4 (SPA201)	1.00	0241	Intro to Business - DECA	0.50	0041	Global History/Geo 9 H	1.00			
0178	CCC Spanish 5 (SPA202)	1.00	Course#	Art Courses	Credit	0048	Global History/Geo 10	1.00			
0186	Italian 2	1.00	0400	Studio in Art	1.00	0050	Global History/Geo 10 H	1.00			
0188	Italian 3	1.00	0406	Drawing & Painting	1.00	0056	U.S. History/Gov	1.00			
0190	CCC Italian 4 (ITAL103)	1.00	0409	OCC Ceramics I (ART120)	1.00	0065	OCC American History (HIS106/107)	0.50			
0191	CCC Italian 5 (ITAL104)	1.00	0411	Senior Studio	1.00	0067	Economics	0.50			
			0415	Advanced Ceramics	1.00	0069	Government	0.50			
Course#	Music Courses	Credit	0421	Observational Drawing	1.00	0072	SUPA Sociology (SOC101)	0.50			
0600	Concert Chorus	1.00	Course#	Physical Education Courses	Credit	0074	SUPA Psychology (PSY205)	0.50			
0602	Vocal Jazz Ensemble	1.00	0658	Adaptive Physical Education	0.50	0902	Social Studies AIS				
0604	Concert Band	1.00	0659	Physical Education	0.50	Course#	Family Consumer Science Courses	Credit			
0608	Jazz Band 9-11	1.00	Course#	Health Courses	Credit	0302	Clothing & Textiles	0.50			
0610	OCC Jazz Band (MUS151J)	0.50	0662	Better Life-Better You	0.50	0307	Food Preparation	0.50			
0611	OCC Jazz Band (MUS152J)	0.50	0663	Working on Wellness	0.50	0308	Housing & Environment	0.50			
0613	World Music and Today's Sound	0.50	0664	OCC Personal Health (HEA207)	0.50	0310	Child Psychology	0.50			
0615	Music and Theatre Production	0.50				0311	Commercial Food	0.50			
0617	OCC Musical Theory I (MUS160)	0.50									
0618	OCC Musical Theory II (MUS161)	0.50									

To Parents or Guardians:

Should you have any questions or concerns, contact your child's counselor for help or clarification at 484-1401. This form must be signed and returned to the Counseling & Career Center.

Counselor Signature Date

Parent Signature Date

TABLE OF CONTENTS

ART		MUSIC (Continued)	
Studio in Art.....	1	MUS 161 OCC Music Theory II.....	15
Mixed Media Studio I.....	1	MUS103 OCC Music Appreciation I.....	15
Mixed Media Studio II.....	1	MUS104 OCC Music Appreciation II.....	15
Drawing & Painting.....	1	PHYSICAL EDUCATION	
Advanced Drawing & Painting.....	1	Physical Education.....	16
ART120 OCC Ceramics I.....	1	SCIENCE	
Senior Studio.....	2	Physical Setting/Earth Science.....	17
Introduction to Ceramics.....	2	Physical Setting/Earth Science Honors.....	17
Advanced Ceramics.....	2	Living Environment/Biology.....	17
Studio in Photography.....	2	Everyday Physics I.....	17
Sculpture.....	2	Everyday Physics II.....	17
Observational Drawing.....	2	General Chemistry I.....	18
BUSINESS		General Chemistry II.....	18
Career & Financial Management.....	3	EFB101 General Biology I/EFB102 Lab.....	18
Keyboarding/Information Processing.....	3	EFB103 General Biology II/EFB104 Lab.....	18
Business Ownership.....	3	Physical Setting/Chemistry.....	18
Business and Personal Finance.....	3	Chemistry H/PSE296 Paper Engineering.....	18
BUS102 OCC Finite Math for Business.....	3	AP Physics I.....	18
BUS105 OCC Financial Accounting.....	3	PHY103/104 OCC General Physics.....	19
Business Law.....	3	EFB120 Global Environment.....	19
Co-Op.....	4	Physical Science I.....	19
Sports & Entertainment Marketing.....	4	Physical Science II.....	19
ART123 OCC Desktop Publishing.....	4	CHE113 SUPA Forensics.....	19
Intro to Business - DECA.....	4	Marine Biology.....	20
ENGLISH LANGUAGE ARTS		Astronomy.....	20
English 9.....	5	Meteorology.....	20
English 9 Honors.....	5	Anatomy and Physiology.....	20
English 10.....	5	Oceanography.....	20
English 10 Honors.....	6	Applied Food Science I.....	20
English 11.....	6	Applied Food Science II.....	20
English 11 Honors.....	6	Science AIS.....	20
English 12.....	7	SOCIAL STUDIES	
ENG103/104 OCC English.....	7	Global History & Geography 9.....	21
ILS153 OCC Integrated Learning Seminar.....	7	Global History & Geography 9 Honors.....	21
WRT114 SUPA Writing Culture: Intro to Creative Nonfiction.....	7	Global History & Geography 10.....	21
Comedy & Humor.....	7	Global History & Geography 10 Honors.....	21
English AIS.....	8	U.S. History & Geography.....	21
FAMILY & CONSUMER SCIENCE		HIS106/107 Early American History/19th Century.....	21
Clothing & Textiles.....	9	Economics.....	22
Food & Nutrition.....	9	Government.....	22
Food & Fitness.....	9	SOC101 SUPA Sociology.....	22
Culture & Foods.....	9	PSY205 SUPA Psychology.....	22
Food Preparation.....	9	Social Studies AIS.....	22
Housing and Environment.....	9	TECHNOLOGY	
Child Psychology.....	9	Adaptive Design.....	23
Commercial Food.....	10	Computer Graphics I.....	23
Human Development/Adolescent Psychology.....	10	Computer Graphics II.....	23
Applied Food Science I.....	10	Video Production.....	23
Applied Food Science II.....	10	Black & White Photography.....	23
HEALTH		Digital Photography.....	23
Health.....	11	Emerging Technologies.....	23
Better Life-Better You.....	11	Materials Processing.....	24
Working on Wellness.....	11	Automotive Technology.....	24
MATH		Residential Structures.....	24
Fundamentals of Algebra.....	12	Intro to Computer Science.....	24
Algebra I.....	12	MET150 OCC Intro to Engineering.....	24
Geometry.....	12	MET161 OCC Engineering Drawing.....	24
MATH214 CCC Statistics.....	12	ART106 TCCC Introduction to Photojournalism.....	24
MAT143 OCC Pre-Calculus with Trigonometry Honors.....	12	Advanced Material Processing.....	25
Robotics Engineering.....	13	Advanced Computer Graphics.....	25
MAT 161 OCC Calculus I.....	13	Advanced Emerging Technologies.....	25
Algebra II with Trigonometry.....	13	Advanced Residential Structures.....	25
Algebra II with Trigonometry Honors.....	13	Advanced Automotive Technology.....	25
Business and Personal Finance.....	13	Advanced Video Production.....	25
BUS102 OCC Finite Math for Business.....	13	Advanced Game Programming.....	25
Math AIS.....	13	Advanced Photography.....	25
MUSIC		WORLD LANGUAGE	
Concert Chorus.....	14	Italian 1.....	26
Vocal Jazz Ensemble.....	14	Italian 2.....	26
Concert Band.....	14	Italian 3.....	26
Jazz Band 9-11.....	14	ITAL103 CCC Italian 4.....	26
MUS151V OCC Jazz Band.....	14	ITAL 104 CCC Italian 5.....	26
MUS152J OCC Jazz Band.....	14	Spanish 1.....	26
World Music and Today's Sound.....	14	Spanish 2.....	27
Music and Theatre Production.....	15	Spanish 3.....	27
MUS160 OCC Music Theory I.....	15	SPA201 CCC Spanish 4.....	27
		SPA202 CCC Spanish 5.....	27

ART

0400 Studio in Art
0401 Mixed Media Studio I
0402 Mixed Media Studio II
0406 Drawing & Painting
0407 Advanced Drawing & Painting
0409 OCC Ceramics I (ART120)

0411 Senior Studio
0412 Introduction to Ceramics
0415 Advanced Ceramics
0417 Studio in Photography
0420 Sculpture
0421 Observational Drawing

0400 Studio in Art

Credit: 1 Unit

Prerequisite: None

40 Weeks

Studio in Art is a foundation course for students in grades 9-12 who need to complete one credit of fine arts for graduation requirements, or is the introductory course for those students planning a three-year or five-year art sequence. The course is an overview of the art world, incorporating two- and three-dimensional work with art history and art criticism. Students will draw from life studies, paint, and use three-dimensional mediums such as clay, wire and mixed media.

0401 Mixed Media Studio I: Glass Arts

Credit: ½ Unit

Prerequisite: Studio in Art

20 Weeks

This ½ year course will be an exploratory course focusing on arts in the field of glass. Students will learn stained-glass crafting methods, as well as the process of how to slump glass and learn the art of enameling. Students will be expected to participate in group critiques, as well as provide written reflections on work and the processes we will be using in the classroom.

0402 Mixed Media Studio II: Textiles and Printmaking

Credit: ½ Unit

Prerequisite: Studio in Art

20 Weeks

This ½ year course will focus on fiber applications in the classroom, including, but not limited to learning about history of paper-making and the processes, using a dye lab to create surface pattern design on fabric, batik, and silk painting. The course will also include a unit on print-making. Students will be expected to participate in group critiques, and do exploratory studies outside of the classroom involving the processes we will be utilizing in the classroom.

0406 Drawing & Painting

Credit: 1 Unit

Prerequisite: Studio in Art

40 Weeks

Drawing and Painting is a full-year course for students in grades 10-12 who have successfully completed one unit/one year of Studio in Art and wish to acquire a three- or five-year sequence in art. The focus of this course is completely two-dimensional, including such media as pencil, charcoal, pastel, colored pencil, acrylic and watercolor painting. Studies will include figure drawing, observational life studies, art history and a focus on application of the elements and principles of art.

0407 Advanced Drawing & Painting

Credit: 1 Unit

Prerequisite: Drawing & Painting, Teacher Recommendation

40 Weeks

This is a full year course that is designed to be a continuation of Drawing and Painting for the serious art student. This course will have emphasis on observational drawing from the figure, still life and landscapes. It will also include the study and practice of a variety of 2-D media such as graphite, charcoal, conte crayon, soft pastel, oil pastel, watercolor, acrylic paints and mixed media. This course is designed to help students establish portfolio quality artwork for college entry.

0409 OCC ART120 Ceramics I

Credit: 1 Unit of High School Credit, 3

Prerequisite: 3 Units of Art and Teacher Approval

40 Weeks

This course is an introduction to ceramic techniques such as hand-building, wheel throwing and glazing. Pottery aesthetics and art historical ceramics will be explored.

This course is offered at no cost to the student.

0411 Senior Studio I

Credit: 1 Unit

Prerequisite: 3 Units of Art and Teacher

40 Weeks

Approval

Senior Studio is an advanced art course designed for seniors who have successfully completed at least 3 high school art courses. Students must have an existing collection of work prior to entering this course and must complete a work-review with the instructor prior to signing up. Senior Studio provides an opportunity for seniors that are seriously interested in art to work independently and explore their artistic ideas, 2D and/or 3D, under the guidance of the instructor. Senior Studio I allows student time to *complete* their portfolio for college admissions.

0412 Introduction to Ceramics

Credit: 1 Unit

Prerequisite: Studio in Art

40 Weeks

This is a full-year course in which students will explore the art of working with clay. The foundations of the course are built upon basic hand-building methods and creative exploration using themes, symbolism and cultures as inspiration. Studies will include historical and cultural overview of the art of ceramics. Students will develop "the basics" needed for applications towards more complex ceramic work.

0415 Advanced Ceramics

Credit: 1 Unit

Prerequisite: Studio in Art and Introduction to Ceramics

40 Weeks

This full-year course is designed to give students studio time to develop their ceramic techniques and personal style. Prior skills and techniques will be re-introduced and utilized in more advanced work for this course. The assignments will be broad-based, and open to individual interpretation. The course will include full-use and instruction of the ceramic wheel and serve as an introduction to wheel-throwing abilities based on demand.

0417 Studio in Photography

Credit: ½ Unit

Prerequisite: Studio in Art

20 Weeks

In this half year course students will explore the art of digital photography. The foundations of this course are built upon photo composition, camera usage & techniques, the study of famous photographers and analysis of student work. Studies will include landscape, portrait, self-portrait, motion and altered photography. Students will be introduced to, but limited in, the use of Photoshop.

0420 Sculpture

Credit: 1 Unit

Prerequisite: Studio in Art, Ceramics

40 Weeks

The primary focus of this course is to introduce students to the basic concepts of sculpture, including the visual vocabulary used in creating and critiquing artwork. Students will explore the elements and principles of 3-D art while creating sculptures using various materials and methods (i.e. clay, ceramics, toothpicks, wire, and paper mache.) In this course students will also study the historical and cultural aspects of sculpture.

0421 Observational Drawing

Credit: 1 Unit

Prerequisite: Studio in Art, Drawing & Painting

40 Weeks

Observational Drawing is a course whose focus is on drawing and painting from actual objects, people and places without the use of photographic references. Content will include, but not be limited to:

Application of new tools used to check the accuracy of symmetrical objects and to determine size relationships of objects within a still life.

Figure drawing as well as portraiture (study of facial spacing and proportions).

Study of landscape and inhabitants of local places of interest (such as Stone Quarry Art Park and Rosamond Gifford Zoo.)

BUSINESS

0201 Career & Financial Management
0204 Keyboarding/Information Processing
0208 Business Ownership
0225 Business and Personal Finance
0226 BUS102 OCC Finite Math for Business
0228 BUS105 OCC Financial Accounting

0233 Business Law
0236 Co-Op
0238 Sports & Entertainment Marketing
0240 ART123 OCC Desktop Publishing
0241 Intro to Business - DECA

0201 Career & Financial Management

Credit: ½ Unit

Prerequisite: None

20 Weeks

The focus of this course is to provide practical workplace skills for **every** student. The course will begin with a concentration on career planning, selection and success. Projects will include creating your own resume, job applications, mock interviews and projects. Guest speakers from numerous backgrounds will be presented to introduce different careers. The second half of this course will be devoted to basic financial skills such as money management, credit, tax preparation and identity theft. Projects will include car buying, budget simulations, and creating power point presentations.

0204 Keyboarding/Information Processing

Credit: ½ Unit

Prerequisite: None

20 Weeks

This course is designed to orient students to the basic alphabetic, numeric and symbolic keyboard through the touch typing method. Students will learn how to prepare enumerations, letters, term papers and Power Point presentations using Micro Type Media and Microsoft software.

0208 Business Ownership

Credit: ½ Unit

Prerequisite: None

20 Weeks

Are you interested in owning your own business? Take an Entrepreneurial IQ test to determine if you possess the necessary characteristics to work for yourself! In-class computer projects that will prepare you for opening a business include the following: marketing research surveys, creating and designing business cards, forming a business plan and writing press releases. Fulfill the fun and practical real life application by working at the school store.

0225 Business and Personal Finance

Credit: 1 Unit

Prerequisite: Algebra I

40 Weeks

This class teaches students a practical application of math. Students will learn how to calculate gross/net pay, interest, insurance, taxes, and consumer credit. Basic arithmetic operations, statistics, graphing and algebra are applied to these concepts as well as a range of others. Completion of this class with a passing grade earns the student 1 credit but is part of both a business sequence and a math sequence.

0226 BUS102 OCC Finite Math for Business

Credit: 1 Unit High School, 3 OCC credits

Prerequisite: Algebra I

40 Weeks

This is a study of mathematical concepts and processes as applied to business and finance. Students will develop skills required to perform with accuracy and facility mathematical operations integral to the interpretation and solution of business problems. Arithmetic operations, signed numbers, linear equations, percentage and statistical procedures are applied to topics in accounting, retailing, risk management, banking, and finance. This course is a core course for the Business Technology A.A.S. degree and may be used to fulfill a Business or general elective requirement.

This course is offered at no cost to the student.

0228 BUS105 OCC Financial Accounting

Credit: 1 Unit High School, 3 OCC credits

Prerequisite: BUS102 or teacher permission

40 Weeks

Financial Accounting is an introduction to accounting as a means of recording business activities. The course includes a study of the classification and recording of original business transactions, the preparation and evaluation of financial statements, and the application of Generally Accepted Accounting Principles. The course will incorporate appropriate computer technology in the instruction process.

This course is offered at no cost to the student.

0233 Business Law

Credit: 1 Unit

Prerequisite: None

40 Weeks

This course is designed to introduce the student to the basics of our legal system, the application and ethics of civil, consumer and business laws and how they may be applied to everyday life. A trip to the court house or Jamesville Prison is always a possibility. After studying criminal law, police rights and criminal rights, emphasis will be made on the particulars of contracts and on the legal rights of consumers and individuals.

0236 Co-Op

Credit: ½ - 1 Unit

Prerequisite: None

40 Weeks

Do you have a job or plan on getting one? You can earn up to 1 credit per year (2 total) towards graduation for working 150 – 300 hours over the course of the year. All you have to be is enrolled in ANY business course and an instructor will visit your job site. It's that simple. This is not a class that meets once a day, 5 days a week. You fill out your hours, come to one meeting after school once a month.....and that's all there is to it.

0238 Sports & Entertainment Marketing

Credit: ½ Unit

Prerequisite: None

20 Weeks

An exciting course that will take you on a step-by-step journey through the sports and entertainment industry. How did Gatorade become such a "necessity" to athletes; whose product is better – Nike or Under Armor? How does Disneyland get people to spend? How much does it cost to produce a CD? Spiderman the movie cost 300 million to produce and Paranormal Activity 15 thousand? All this and more will be discussed and researched in Sports and Entertainment Marketing.

0240 ART123 OCC Desktop Publishing

Credit: 1 Unit High School, 3 OCC credits

Prerequisite: None

40 Weeks

This course offers an introduction to the fundamental design concepts and software techniques used by graphic designers to produce flyers, cards, brochures, calendars and newsletters. Students will achieve a working knowledge of Microsoft and Adobe software used for computer aided graphic design. This course may be used as an elective course for non-art majors.

This course is offered at no cost to the student.

0241 Intro to Business - DECA

Credit: ½ Unit

Prerequisite: None

20 Weeks

This course will use DECA competitive events to introduce students to basic business concepts in five business career clusters. These are: Business Management & Administration, Entrepreneurship, Marketing, Finance, Hospitality & Tourism, and Personal Financial Literacy. Students will apply business concepts in hands-on DECA competitive events. In addition to the course, all students will participate in DECA and compete in business events at the winter regional competition. Additionally, students will gain real-life retail business experience by assisting with the management of the school-based enterprise, the Solvay Café.

ENGLISH LANGUAGE ARTS

0002 English 9
0003 English 9 Honors
0010 English 10
0011 English 10 Honors
0018 English 11
0019 English 11 Honors

0028 English 12
0035 WRT114 SUPA Writing Culture
0037/0038 ENG103/104 OCC English
0031 ILS153 OCC Integrated Learning Seminars
0039 Comedy & Humor
0901 English AIS

0002 English 9

Credit: 1 Unit

Prerequisite: English 8

40 Weeks

This course familiarizes students with the literary study of fictional forms such as the novel, short story, poetry, and drama, and with non-fictional forms such as the essay, the article, biography, and autobiography. In this course, as with all English courses, there is a summer reading list that will be a component of the grade for the course.

There are required classroom texts and required outside reading texts. The course not only requires students to read, but it provides instruction in other components of the study of the English language: research techniques, grammar, correct usage, vocabulary development, spelling, punctuation, capitalization, speaking and listening. Students will write narratives, persuasive pieces, analytical responses to literature, and a research assignment. Teachers emphasize student writing using a process approach, which involves multiple drafts, peer editing, and revision.

All aspects of the course are designed to help students to exceed the greater expectations for learning set forth in the New York State Common Core Aligned Standards for English Language Arts, and to provide students with the tools needed to excel on New York State Assessments.

0003 English 9 Honors

Credit: 1 Unit

Prerequisite: Advanced English 8, Teacher Recommendation, Essay Required

40 Weeks

The course develops students' understanding of fictional forms including the novel, short story, poetry, and drama, and non-fictional forms such as the essay, the article, biography, and autobiography. Students read a variety of required titles. This honors level course requires students to employ higher order literacy and interpretation skills while they read widely, reflect purposefully, and discuss extensively the structure and purpose of works of recognized literary merit.

In this course, as with all English courses, there is a summer reading list with a related project that will be a component of the grade for the course.

There are required classroom texts and required outside reading texts. The course not only requires students to read extensively, but provides instruction in other components of the study of the English language: research techniques, grammar, correct usage, vocabulary development, spelling, punctuation, capitalization, speaking and listening. Students will write narratives, persuasive pieces, analytical responses to literature, and a research assignment. Teachers emphasize student writing using a process approach, which involves multiple drafts, peer editing, and revision.

Rigorous and demanding work, beyond that of the regular English class, is required of the students. All aspects of this course are designed to help students exceed the greater expectations for learning set forth in the New York State Common Core Aligned Standards for English Language Arts, and to provide students with the tools needed to excel on New York State Assessments.

0010 English 10

Credit: 1 Unit

Prerequisite: English 9

40 Weeks

This course continues to familiarize students with the literary study of fictional forms such as the novel, short story, poetry, and drama, and with non-fictional forms such as the essay, the article, biography, and autobiography. Students read a variety of required titles, including but not limited to Twelve Angry Men, Huck Finn, Inherit the Wind, Imitate the Tiger, Gospel According to Larry, The Pearl and Lord of the Flies. Additional paperback readings may be required. In this course, as with all English courses, there is a summer reading list with a related project that will be a component of the grade for the course.

There are required classroom texts and required outside reading texts. The course not only requires students to read, but provides instruction in other components of the study of the English language: research techniques, grammar, correct usage, vocabulary development, spelling, punctuation, capitalization, speaking and listening. Students will write narratives, persuasive pieces, analytical responses to literature, and a research assignment. Teachers emphasize student writing using a process approach, which involves multiple drafts, peer editing, and revision.

All aspects of the course are designed to help students to exceed the greater expectations for learning set forth in the New York State Common core Aligned Standards for English Language Arts, and to provide students with the tools needed to excel on New York State Assessments.

0011 English 10 Honors

Credit: 1 Unit

Prerequisite: English 9 Honors or Teacher Recommendation 40 Weeks

The course develops students' understanding of fictional forms including the novel, short story, poetry, and drama, and non-fictional forms such as the essay, the article, biography, and autobiography. Students read a variety of required titles. This honors level course requires students to employ higher order literacy and interpretation skills while they read widely, reflect purposefully, and discuss extensively the structure and purpose of works of recognized literary merit.

In this course, as with all English courses, there is a summer reading list with a related project that will be a component of the grade for the course.

There are required classroom texts and required outside reading texts. The course not only requires students to read extensively, but provides instruction in other components of the study of the English language: research techniques, grammar, correct usage, vocabulary development, spelling, punctuation, capitalization, speaking and listening. Students will write narratives, persuasive pieces, analytical responses to literature, and a research assignment. Teachers emphasize student writing using a process approach, which involves multiple drafts, peer editing, and revision.

Rigorous and demanding work, beyond that of the regular English class, is required of the students. All aspects of this course are designed to help students exceed the greater expectations for learning set forth in the New York State Common Core Aligned Standards for English Language Arts, and to provide students with the tools needed to excel on New York State Assessments.

0018 English 11

Credit: 1 Unit

Prerequisite: English 10 40 Weeks

This course familiarizes students with the literary study of fictional forms such as the novel, short story, poetry, and drama, and with non-fictional forms such as the essay, the article, biography, and autobiography.

In this course, as with all English courses, there is a summer reading list with a related project that will be a component of the grade for the course.

There are required classroom texts and required outside reading texts. The course not only requires students to read, but provides instruction in other components of the study of the English language: research techniques, grammar, correct usage, vocabulary development, spelling, punctuation, capitalization, speaking and listening. Students will write narratives, persuasive pieces, analytical responses to literature, and a research assignment. Teachers emphasize student writing using a process approach, which involves multiple drafts, peer editing, and revision.

All aspects of the course are designed to help students to exceed the greater expectations for learning set forth in the New York State Common Core Aligned Standards for English Language Arts. Students are required to take the New York State Common Core English Language Arts Regents Assessment given at the end of the junior year.

0019 English 11 Honors

Credit: 1 Unit

Prerequisite: English 10 Honors or Teacher Recommendation 40 Weeks

The course develops students' understanding of fictional forms including the novel, short story, poetry, and drama, and non-fictional forms such as the essay, the article, biography, and autobiography. Students read a variety of required titles. This honors level course requires students to employ higher order literacy and interpretation skills while they read widely, reflect purposefully, and discuss extensively the structure and purpose of works of recognized literary merit.

In this course, as with all English courses, there is a summer reading list with a related project that will be a component of the grade for the course.

There are required classroom texts and required outside reading texts. The course not only requires students to read extensively, but provides instruction in other components of the study of the English language: research techniques, grammar, correct usage, vocabulary development, spelling, punctuation, capitalization, speaking and listening. Students will write narratives, persuasive pieces, analytical responses to literature, and a research assignment. Teachers emphasize student writing using a process approach, which involves multiple drafts, peer editing, and revision.

All aspects of the course are designed to help students to exceed the greater expectations for learning set forth in the New York State Common Core Aligned Standards for English Language Arts. Students are required to take the New York State Common Core English Language Arts Regents Assessment given at the end of the junior year.

0028 English 12

Credit: 1 Unit

Prerequisite: English 11 40 Weeks

This course develops students' understanding of fictional forms including the novel, short story, poetry, and drama, and with non-fictional forms such as the essay, the article, biography, and autobiography. There is also extensive poetry analysis and examination of rhetorical devices. This course requires students to employ higher order literacy and interpretive skills while they read widely, reflect purposefully, and discuss extensively the structure and purpose of works or recognized literary merit.

In this course, as with all English courses, there is a summer reading list with a related project that will be a component of the grade for the course.

There are required classroom texts and required outside reading texts. The course not only requires students to read extensively, but provides instruction in other components of the study of the English language: research techniques, grammar, correct usage, vocabulary development, spelling, punctuation, capitalization, speaking and listening. Students will write narratives, persuasive pieces, analytical responses to literature, and a research assignment. Teachers emphasize student writing using a process approach, which involves multiple drafts, peer editing, and revision.

0037 ENG103 OCC English (Semester 1)

Credit: 1 Unit High School; 3 OCC credits Prerequisite: None 20 Weeks

Emphasizing the recursive nature of writing and the process of revision, this course teaches students the skills and processes necessary for writing and revising college-level academic prose. Various aspects of writing, including invention/pre-writing, composing, revision, and editing/proofreading will be taught. Critical readings of various nonfiction texts may be used to develop understanding of rhetorical conventions and genres. Composing in and for electronic environments, as well as their conventions, will also be taught.

0038 ENG104 OCC English (Semester 2)

Credit: 1 Unit High School; 3 OCC credits Prerequisite: ENG103 20 Weeks

Teaches students to comprehend, respond to and use the ideas of others in their own writing. Skills such as analytic and critical reading and writing, summarizing, and paraphrasing are developed through the study of literature. Term paper form will also be taught.

0031 ILS153 OCC Integrated Learning Seminars

Credit: ½ Unit High School, 3 OCC Prerequisite: English 9, 10 and Teacher Recommendation 20 Weeks

This course presents techniques that help students cope successfully with the demands of college. Through participation in a variety of unique activities designed to empower students to meet life-career goals, ILS 153 – Integrated Learning Seminar creates an educational environment that fosters an appreciation for knowledge and study skills, research strategies, and ultimately student success. Students will become more efficient learners, self-aware with respect to academic and personal goals, and confident in their ability to manage academic challenges.

0035 WRT114 SUPA Writing Culture: Intro to Creative Nonfiction

Credit: 1 Unit High School, 3 SU Credits Prerequisite: None 40 Weeks

SUPA WRT 114 – *Will fulfill the required ENGLISH 12 credit.* The course focuses on the genre of creative nonfiction. Students explore varieties of creative nonfiction, such as memoir; biography; the personal essay; travel, science, and food writing; and “new journalism.” As its name suggests, creative nonfiction borrows elements from fiction and poetry (e.g., description, scene construction, dialogue, etc.) yet still aims to tell the truth. This course allows students to experiment with creative writing in a nonfiction context. Students will have the opportunity to experiment with style, genre, and subject in a writing studio environment and to read varied examples of contemporary creative nonfiction. Students will craft and workshop their own creative nonfiction compositions.

The total cost is approximately \$330. Financial aid may be available.

0039 Comedy & Humor

Credit: ½ Unit Prerequisite: Concurrent Enrollment in English 12 20 Weeks

Students will explore comedy and humor's basic elements in traditional print, electronic media and dramatically staged formats to achieve greater knowledge of the social, cultural and serendipitous forces motivating people's laughter about life's funny circumstances. Specifically, pupils will familiarize themselves with comedy's significant history, vocabulary, genres, figures, styles, formats and purposes. By participating in the course, pupils will have opportunities to read and discuss literature, view and critique films, write and act scenes, research and analyze comedic material or people, and produce humorous material (e.g., jokes, cartoons, commercials, stories, poems, etc.). While the course will help students to develop their skills in traditional New York State Standards in reading, writing, speaking and listening, the course activities will also provide them with a fun way to see humor in life's everyday moments. This elective will be scheduled during the same period that Journalism is scheduled so students can take two different half-year electives, in addition to English12R, and earn a sequence in English.

0901 English AIS

Placement in Academic Intervention Services (AIS) is determined either by the results of the 8th grade New York State Assessment in English or a failing grade on a Regents exam. This class, meeting every other day, provides additional support that supplements the instruction provided in the general English curriculum and assists students in meeting the State learning standards. AIS is intended to assist students who may be at risk of not gaining the requisite knowledge and skill required to meet or exceed designated performance levels on the State assessment. This program is based on Scholastic's READ 180. Students get intensive small group and individualized training in reading comprehension, decoding, spelling, fluency, and independent reading.

FAMILY & CONSUMER SCIENCE

0302 Clothing & Textiles
0303 Food & Nutrition
0304 Food & Fitness
0305 Culture & Foods
0307 Food Preparation
0308 Housing and Environment

0310 Child Psychology
0311 Commercial Food
0312 Human Development/Adolescent Psychology
0315 Applied Food Science I
0316 Applied Food Science II

0302 Clothing & Textiles

Credit: ½ Unit

Prerequisite: None

20 Weeks

Sewing is not so old fashioned and it's not only for girls, watch HGTV! It's a lot of fun, learning how to sew and making something to wear or update your bedroom. Learn about fashion and what styles and colors look the best. Learn to take care and repair the clothing you already own. You will learn from sewing on a button to fixing a hem to making something from a piece of fabric.

0303 Food & Nutrition

Credit: ½ Unit

Prerequisite: None

20 Weeks

Would you like to learn how to cook to survive or to become a chef, this course is for you. Students will learn the basics of cooking and baking foods. You will learn everything to make you a success in the kitchen from reading a recipe to measuring to different techniques or secrets in making delicious dishes. We bake quick bread, yeast breads, pasta, rice, omelets, soups, salads, casseroles, pies, cookies, and cakes just to name a few. We will also look at nutrition and study what food gives our bodies to function.

0304 Food and Fitness

Credit: ½ Unit

Prerequisite: None

20 Weeks

Feeling overtired and stressed? Do you want to learn how to be more energized and effective? This course will show you how your diet choices will affect your activity level. You will be introduced to Pilates, weight training, core-training, yoga, etc. You will study about the different nutrients and how they affect your ability to concentrate, feel good and keep your from illness. Through journaling, you will find out more about yourself and how food and exercise affect your total well-being. Hopefully you will be able to choose a diet and form of exercise that you will enjoy to help you reach and maintain your fitness goals.

0305 Culture & Foods

Credit: ½ Unit

Prerequisite: None

20 Weeks

We will travel around the world in this foods class. We will study about 12 different lands, customs, culture, traditions and celebrations. You will look at how their food cuisine is a reflection of their way of life. Everyone in class will research a country and learn about that country's cuisine. Weekly food labs will reflect each culture.

0307 Food Preparation

Credit: ½ Unit

Prerequisite: None

20 Weeks

Food Preparation is a course whose focus is the methods of preparing food, the functions of food in the body, and the recommended dietary guidelines for individuals throughout the lifespan. Students will research the history of food preparation methods and the development of food preparation equipment. They will investigate food-related issues such as the quality, quantity and safety of the food supply to make connections between food-related issues and advances in the food industry. Students will have the opportunity to examine the wide variety of career paths in food preparation and nutrition fiddles and identify the knowledge and skills necessary for success within these fields.

0308 Housing and Environment

Credit: ½ Unit

Prerequisite: None

20 Weeks

What will your house be like? Where will you live? Will you own or rent? What will the architectural style be? How will you decorate and at what cost? These are just a few of the questions students explore in HE. Students will complete an Interior Design Project on the Dream House, and learn about wall and floor coverings, lighting fixtures, windows and furniture. There are class assignments, group and individual projects, quizzes or tests used as assessments for Housing and Environment.

0310 Child Psychology

Credit: ½ Unit

Prerequisite: None

20 Weeks

Kids say the funniest things and they love teenagers! Students can be a special friend to a preschooler. Through observations and class discussions students learn about children from conception to five years of age. Students become experts on childcare – a good preparation for a future career either as a parent or in the field of Child Development. Students will design their own day care center, complete with toys, a schedule and a floor plan. Quizzes or tests are used to assess each unit of study. Students complete a Case Study on a child in our community.

0311 Commercial Food

Credit: ½ Unit

Prerequisite: None

20 Weeks

Students will actively manage a commercial kitchen setting and prepare foods according to the principles of quantity and quality food production. Students will learn the aspects of pricing, productivity, controlling and directing of personnel and the planning of menus. Students will develop other essential skills including baking, purchasing, menu planning, introduction to restaurant management, and the exploration of international cuisines. Will also explore hospitality management and catering management.

0312 Human Development/Adolescent Psychology

Credit: ½ Unit

Prerequisite: None

20 Weeks

HDAP will help students understand themselves a little better. Current issues that relate to students, such as sexuality, alcoholism, relationship violence, eating disorders, stress, depression, communication. This class emphasizes how important each student is to their family and community. A Community Link Project is planned and implemented. There are quizzes or tests after each unit. This class involves research, presentation and cooperative learning projects.

0315 Applied Food Science I

Credit: ½ Unit

Prerequisite: Living Environment/Biology

20 Weeks

Applied Food Science I introduces students to the science of food and nutrition. In the first half of the course, topics include the physical and biochemical aspects of food science (elements, compounds, bonding, physical/chemical reactions, elemental properties and their affect on food compounds, properties of water, acids, bases, pH and energy). Students are encouraged to gain an understanding of food and nutrition, as well as the social, technological, economic and environmental issues surrounding the purchase and production of food. Students will conduct experiments to help them gain an understanding of the scientific concepts behind nutrition and food processing.

0315 Applied Food Science II

Credit: ½ Unit

**Prerequisite: Applied Food Science I,
Living Environment/Biology**

20 Weeks

In Applied Food Science II, students will focus on the biological aspects of food science, including nutrition, metabolism, organic compounds and their molecular structures and properties, vitamins, minerals and leavening agents. Students will conduct experiments to help them gain an understanding of the scientific concepts behind nutrition and food processing.

HEALTH

0657 Health
0662 Better Life-Better You
0663 Working on Wellness

0657 Health

Credit: ½ Unit

Prerequisite: None

20 Weeks

The Health Education course provides units of study that include promoting health throughout the life cycle, disease prevention, strategies that reduce the risk of potential health problems, and how society and culture influence the decisions a student makes about his/her health. In addition, there is a unit that meets the state parenting education requirement. Students are assessed on classroom work, projects, and a final exam.

**The New York State Education Department mandates one-half credit of Health Education for graduation.

0662 Better Life-Better You

Credit: ½ Unit

Prerequisite: Health

20 Weeks

This course is a Health Elective that will help students excel academically, build strong relationships and lead happier; healthier; more fulfilling lives while participating in daily class discussions. We will concentrate on developing awareness of positive and negative emotions and discuss how emotions affect us in our lives and how to express the emotions we feel. Students will also self reflect on their own personal gifts and imperfections.

0663 Working on Wellness

Credit: ½ Unit

Prerequisite: Health

20 Weeks

This course will focus on the importance of developing habits to maintain lifelong physical, mental, and emotional health. In this course, students will learn practical skills to budget for a healthy lifestyle, assess and access mental health resources, maintain and grow healthy relationships, create realistic health goals at different stages of life, and to make time for physical, mental and emotional health with a busy schedule. Students will also learn stress relief strategies and the skills to be a healthier version of themselves. This course will combine health skills and physical fitness by practicing health enhancing behaviors and getting active in and out of the classroom.

MATH

0140 Fundamentals of Algebra
0126 Algebra I
0127 Geometry
0160 MATH214 CCC Statistics
0150 MAT143 OCC Pre-Calculus with Trigonometry H
0151 Robotics Engineering

0153 MAT161 OCC Calculus I
0154 Algebra II with Trigonometry
0155 Algebra II with Trigonometry Honors
0225 Business and Personal Finance
0226 BUS102 OCC Finite Math for Business
0903 Math AIS

0140 Fundamentals of Algebra

Credit: 1 Unit

Prerequisite: Math 8

40 Weeks

This course is intended to build a foundation in beginning Algebra for students entering the high school whose past performance has been below average either on the NYS Math 8 assessment or Grade 8 Mathematics. This course builds fundamental concepts in a variety of topics, with the primary emphasis being algebra. Other topics include plane geometry, analytic geometry, ratio, proportion, probability and statistics.

0126 Algebra I

Credit: 1 Unit

Prerequisite: Math 8 or Fund of Algebra

40 Weeks

The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The critical areas include Relationships between Quantities and Reading with Equations, Linear and Exponential Relationships, Descriptive Statistics, Expressions and Equations, and Quadratic Functions and Modeling. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students will be administered the NYS Algebra I Regents in June.

0127 Geometry

Credit: 1 Unit

Prerequisite: Algebra I

40 Weeks

The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. The critical Areas include Congruence, Proof and Constructions; Similarity, Proof and Trigonometry; Extending to Three Dimensions; Connecting Algebra and Geometry through Coordinates; and Applications of Probability. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students will be administered the NYS Geometry Regents in June.

0160 MATH214 CCC Statistics

Credit: 1 Unit

**Prerequisite: Algebra II with Trigonometry
or Algebra II with Trigonometry Honors**

40 Weeks

Statistics is a part of nearly every field of study, and as such is a requirement of nearly every college major. This course is intended to provide students with exposure to selected topics in the fields of probability and statistics. Topics range from data collection, descriptive statistics and linear regression models to inferential statistics. Includes probability, counting principles, and binomial probability distribution. The normal probability distribution and student's t-distribution are discussed in single and two populations applications. Statistical inference (confidence intervals and hypothesis testing) in sociology, psychology, and business/industry are stressed. Time permitting, additional topics may include Chi-square goodness of fit test, tests for independence and testing the significance of the linear regression model.

This course is offered at no cost to the student.

0150 MAT143 OCC Pre-Calculus with Trigonometry Honors

Credit: 1 Unit/4 OCC Credits

**Prerequisite: Algebra II with Trigonometry
Honors, Algebra II Regents Exam**

40 Weeks

This course is designed to provide the necessary foundation for a standard calculus course. Topics include absolute value and quadratic inequalities, functions and their equations, use of matrices to solve linear systems, exponential and logarithmic functions and their applications, circular functions and their inverses, trigonometric identities and equations, addition and multiple-angle formulas, complex numbers, elementary theory of equations and binomial theorem. Students are encouraged to enroll in this course through the concurrent enrollment program at no cost and receive 4 hours of credit at Onondaga Community College.

This course is offered at no cost to the student.

0151 Robotics Engineering

Credit: 1 Unit

Prerequisite: Algebra I

40 Weeks

This course is designed for students who successfully completed a minimum of two years of high school mathematics and may provide students with their third unit in mathematics. Using the Engineering Design Inquiry Process, the course is designed to teach programming, behaviors, systems, control, sensors, feedback, applied inquiry, motivated design, communication technology, and scanning. Key Technology, Science, Engineering, and Math concepts will be addressed.

0153 MAT161 OCC Calculus I

Credit: 1 Unit High School, 4 College Credits

Prerequisite: Pre-Calculus with Trigonometry

40 Weeks

This is a first course in the calculus for students planning to enroll in mathematics, science, computer science and engineering. Topics include basic analytic geometry, functions, limits and continuity, derivatives of algebra and trigonometric functions, chain rule, implicit differentiation, antiderivatives, definite integrals, Fundamental Theorem, applications of derivatives and integrals. Students are encouraged to enroll in this course through the concurrent enrollment program at no cost and receive 4 hours of credit at Onondaga Community College.

This course is offered at no cost to the student.

0154 Algebra II with Trigonometry

Credit: 1 Unit

Prerequisite: Geometry

40 Weeks

This course is intended to develop college readiness through the development and extension of algebra skills. Topics will include Linear, Quadratic, Polynomial, Rational, Exponential and Logarithmic Functions with a focus on the connections between the functions and their graphs. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

0155 Algebra II with Trigonometry Honors

Credit: 1 Unit

Prerequisite: Score of at least 80 on the Geometry Regents Exam

40 Weeks

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that student experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Students will be administered the NYS Algebra II Regents in June.

0225 Business and Personal Finance

Credit: 1 Unit

Prerequisite: Algebra I

40 Weeks

This class teaches students a practical application of math. Students will learn how to calculate gross/net pay, interest, insurance, taxes, and consumer credit. Basic arithmetic operations, statistics, graphing and algebra are applied to these concepts as well as a range of others. Completion of this class with a passing grade earns the student 1 credit but is part of both a business sequence and a math sequence.

0226 BUS102 OCC Finite Math for Business

Credit: 1 Unit High School, 3 OCC credits

Prerequisite: Algebra I

40 Weeks

Finite Math for Business is a study of mathematical concepts and processes as applied to business and finance. Students will develop skills to perform with accuracy mathematical operations integral to the interpretation and solution of business problems. Arithmetic operations, signed numbers, linear equations, percentage and statistical procedures, are applied to such topics as accounting, retailing, risk management, banking, and finance. Completion of this course with a passing grade earns the student 1 credit but is part of both a business sequence and a math sequence.

This course is offered at no cost to the student.

0903 Math AIS

Placement in Academic Intervention Services (AIS) is determined either by the results of the 8th grade New York State Assessment in Math or a failing grade on a Regents exam. This class provides additional support that supplements the instruction provided in the general Math curriculum and assists students in meeting the State learning standards. AIS is intended to assist students who may be at risk of not gaining the requisite knowledge and skill required to meet or exceed designated performance levels on the State assessment.

MUSIC

0600 Concert Chorus
0602 Vocal Jazz Ensemble
0604 Concert Band
0608 Jazz Band 9-11
0610 MUS151V OCC Jazz Band
0611 MUS152J OCC Jazz Band

0613 World Music and Today's Sound
0615 Music and Theatre Production
0617 MUS160 OCC Music Theory I
0618 MUS161 OCC Music Theory II
0619 MUS103 OCC Music Appreciation I
0620 MUS104 OCC Music Appreciation II

0600 Concert Chorus

Credit: 1 Unit

Prerequisite: Willingness to learn and sing

40 Weeks

Concert Chorus is a large vocal ensemble that rehearses five days a week and is open to all students. This course provides an opportunity for students to sing a wide variety of styles of music (classical, popular, etc.) written for 3 or 4 part, mixed chorus. Students are encouraged and challenged to grow both as individual and as ensemble performers. Concert participation is *mandatory*. Course requirement includes weekly attendance to a small group vocal lesson and daily practice. Concert Chorus meets the New York State Fine Arts requirement.

0602 Vocal Jazz Ensemble

Credit: 1 Unit

Prerequisite: Competitive Audition, Concert Chorus Participation

40 Weeks

Vocal Jazz Ensemble is a small vocal ensemble that rehearses five days a week and frequently performs both inside and outside the school district. It is a select organization designed to challenge and exercise the musical sensitivity and technical ability of the more advanced vocalists through the study of a wide variety of styles of jazz music. Students are encouraged and challenged to grow both as individual and as ensemble performers. Students will not only sing music but will learn how to *create* music through improvisation. Learning activities include critical listening of live and recorded jazz performances. Concert participation is *mandatory*. Vocal Jazz Ensemble meets the New York State Fine Arts requirement for graduation.

0604 Concert Band

Credit: 1 Unit

Prerequisite: Previous instrumental study or teacher recommendation

40 Weeks

Concert Band is a large instrumental ensemble that rehearses five days a week and is open to all students. Students are encouraged and challenged to grow both as individual and as ensemble performers. Concert participation is *mandatory*. Course requirements include weekly attendance at a small group instrumental lesson and daily practice. Concert Band meets the New York State Fine Arts requirement for graduation.

0608 Jazz Band 9-11

Credit: 1 Unit

Prerequisite: Competitive Audition and teacher recommendation, concert band participation

40 Weeks

Jazz Band is a small instrumental ensemble that rehearses five days a week and frequently performs both inside and outside the school district. It is a select organization designed to challenge and exercise the musical sensitivity and technical ability of advanced wind and rhythm section instrumentalists through the study of a wide variety of styles of jazz music. Students are encouraged and challenged to grow both as individual and as ensemble performers. Students not only play music, but also learn how to create music through improvisation. Other learning activities include aural skills, basic jazz theory, tune learning, and critical listening of jazz. Concert Band participation is required.

0610 MUS151V OCC Jazz Band/ 0611 MUS152J

Credit: 1 Unit

Prerequisite: Competitive Audition and teacher recommendation, concert band participation

40 Weeks

This course provides suitable repertoire for study and performance for the particular ensemble, and it provides the vehicles for the successful study and performance of that repertoire. Additionally, this course supplies sufficient performing opportunities whether departmental, college-wide, or in the community. Lastly, this course illustrates varied teaching techniques for that particular type of ensemble. Jazz Band is a small instrumental ensemble that rehearses five days a week and frequently performs both inside and outside the school district. It is a select organization designed to challenge and exercise the musical sensitivity and technical ability of advanced wind and rhythm section instrumentalists through the study of a wide variety of styles of jazz music. Students are encouraged and challenged to grow both as individual and as ensemble performers. Students not only play music, but also learn how to create music through improvisation. Other learning activities include aural skills, basic jazz theory, tune learning, and critical listening of jazz.

0613 World Music and Today's Sound

Credit: ½ Unit

Prerequisite: None

20 Weeks

World Music and Today's Sound is a course that looks at the globalization of music from past to present. Students will engage in a variety of activities related to class discussions including listening, reading, music, composing and performing.

0615 Music and Theatre Production

Credit: ½ Unit

Prerequisite: None

20 Weeks

Music and Theatre Production looks at the creation, history, and development of the Broadway musicals and dramatic plays. Students will learn technical skills they can be applied in schools, communities, and professional theatres along with different job settings of the arts.

0617 MUS160 OCC Music Theory I

Credit: ½ Unit

Prerequisite: None

20 Weeks

This is a course in basic music theory, including notation, scales, intervals, rhythmic elements, ear training, chords, and modes. MUS 160 is designed for the non-music major and/or prospective music major, as determined by an audition process. No prerequisites. Not applicable to MUS.AS curriculum requirements.

0618 MUS160 OCC Music Theory II

Credit: ½ Unit

Prerequisite: MUS160 or Instructor Permission

20 Weeks

This course continues the studies of scales, intervals, key signatures, and chords. Compound meter and harmonization of melodies will be introduced.

0619 MUS103 OCC Music Appreciation I

Credit: ½ Unit

Prerequisite: Open to students in Grades 10-12

20 Weeks

This course is designed to introduce students to the basic elements of music with an emphasis on what to listen for in all music. The styles of important composers of the 18th and 19th centuries will be compared and discussed in relation to the cultural and historical background of the times in which they lived, as well as their impact and influence on the many styles of music we listen to today.

0618 MUS104 OCC Music Appreciation II

Credit: ½ Unit

Prerequisite: MUS104

20 Weeks

This course focuses on the diverse styles of music composed from the beginning of the 20th century through the present day, including European and American concert music, jazz, popular music, music for film and stage, and music of non-European cultures. Topics include the role that music plays in society, as well as its impact on other disciplines from advertising to medicine.

PHYSICAL EDUCATION

0659 Physical Education

0659 Physical Education

Credit: ½ Unit High School

Prerequisite: None

40 Weeks

The goal of our program is to have all students meet the state standards in Physical Education while participating in a diverse range of physical activities. The curriculum is designed to develop movement skills, promote character education, and acquire the knowledge base and commitment level for an active lifestyle.

Student's fitness is evaluated and areas of weakness are addressed. A variety of lifetime activities, team activities, as well as cooperative games are offered with an emphasis on fitness.

**Two units of Physical Education are mandated for Graduation. Units will be earned at a rate of ½ unit per year.

SCIENCE

0084 Physical Setting/Earth Science
0086 Physical Setting Earth Science Honors
0096 Living Environment/Biology
0099 Everyday Physics I
0101 Everyday Physics II
0103 General Chemistry I
0104 General Chemistry II
0105 EFB101 General Biology I/EFB102 Laboratory
0109 EFB103 General Biology II/EFB104 Laboratory
0106 Physical Setting/Chemistry
0107 Chemistry H/PSE296 ESF Paper Engineering
0113 PHY103 OCC General Physics I
0116 PHY104 OCC General Physics II

0117 CHE113 SUPA Forensics
0118 EFB120 Global Environment
0135 AP Physics I
0136 Physical Science I
0137 Physical Science II
0139 Marine Biology
0141 Astronomy
0142 Meteorology
0143 Anatomy and Physiology
0144 Oceanography
0315 Applied Food Science I
0316 Applied Food Science II
0913 Science AIS

0084 Physical Setting/Earth Science

Credit: 1 Unit

Prerequisite: Living Environment/Biology 40 Weeks

Earth Science is the study of the solid earth, the water on it and the atmosphere surrounding it. Geology, oceanography, meteorology, and astronomy are combined in study to completely understand the Earth and its place in the Universe. The class meets 7-8 periods per week and a minimum of 1200 minutes of successfully recorded lab exercises is required.

0086 Physical Setting/Earth Science Honors

Credit: 1 Unit

Prerequisite: Accelerated Living Environment/Biology or appropriate classroom average with teacher recommendation 40 Weeks

Earth Science is the study of the solid earth, the water on it and the atmosphere surrounding it. Geology, oceanography, meteorology, and astronomy are combined in study to completely understand the Earth and its place in the Universe. The class meets 7-8 periods per week and a minimum of 1200 minutes of successfully recorded lab exercises is required.

This honors level course is offered to students in 9th grade and in addition to the standard Earth Science curriculum, requires students to employ higher level thinking skills to understand Earth's many processes and their cause and effect relationships.

0096 Living Environment/Biology

Credit: 1 Unit

Prerequisite: None 40 Weeks

The Living Environment course is designed to have students understand and apply scientific concepts, principles, and theories pertaining to the living environment. Students are required to explain, analyze, and interpret biological processes and phenomena as they pertain to five major areas of study: homeostasis, reproduction & development, heredity & genetics, and evolution & ecology. The class meets 7-8 periods per week and a minimum of 1200 minutes of successfully recorded lab exercises are required.

0099 Everyday Physics I

Credit: ½ Unit

Prerequisite: Living Environment/Biology, Integrated Algebra or Algebra I 20 Weeks

Everyday Physics I explores how physics plays a role in our everyday lives. We will explore the physics involved in transportation, amusement parks, sports and more. The course incorporates classroom and lab experiences in the study of motion, forces, energy, momentum, and rotational motion.

0101 Everyday Physics II

Credit: ½ Unit High School/3 OCC Credits

Prerequisite: Living Environment/Biology, Integrated Algebra or Algebra I, and Everyday Physics I 20 Weeks

Everyday Physics II looks at concepts such as electricity, magnetism and waves. Students will explore topics such as the electrical grid, how electricity is created, and the physics of music.

0103 General Chemistry I

Credit: ½ Unit

Prerequisite: 1 Year of Science

20 Weeks

General Chemistry I incorporates classroom and laboratory experience in the study of matter and elements. Topics include introduction to chemistry matter and energy, phase of matter, gas laws, atomic structure, periodic table and bonding.

0104 General Chemistry II

Credit: ½ Unit

Prerequisite: 1 Year of Science, General Chemistry I

20 Weeks

General Chemistry II incorporates classroom and laboratory experience in the study of the math of chemistry, solutions, acid/base, nuclear chemistry and organic chemistry.

0105 SUNY ESF EFB101 General Biology I: Organismal Biology and Ecology

*EFB102 General Biology I Laboratory

Credit: ½ Unit High School, 4 SUNY ESF Credits

Prerequisite: GPA of 85 or above in previous science coursework; 3 units of science and assessments; teacher recommendation. Must also take EFB102*

20 Weeks

An exploration of "big" biology: ecosystems, populations, and organisms. Emphasis is on life's forms, functions, diversity, ecology, and evolution. Co-requisite (EFB 102) gives reinforcing hands-on lab experiences exploring ecology, fungi, lichens, mosses & other plants, and field trips.

The total cost is approximately \$270.00 or \$100 with free/reduced lunch eligibility

0109 SUNY ESF EFB103 General Biology II: Cell Biology and Genetics

**EFB104 General Biology II Laboratory

Credit: ½ Unit High School, 4 ESF Credits

Prerequisite: EFB101 General Biology I, GPA of 85 or above in previous science coursework; 3 units of science and assessments; teacher recommendation. Must also take EFB104**

20 Weeks

An exploration of "small" biology: organization and function of living cells starting at the molecular level and working up through organelles, cell division, key reactions, genomics, population genetics, and evolution. Co-requisite (EFB 104) gives reinforcing hands-on lab experiences such as microscopy, chromatography, electrophoresis, cell transformation.

The total cost is approximately \$270.00 or \$100 with free/reduced lunch eligibility

0106 Physical Setting/Chemistry

Credit: 1 Unit High School; up to 6 credits OCC

Prerequisite: Physical Setting/Earth Science, Integrated Algebra or Algebra I

40 Weeks

Chemistry is the study of matter, its composition, properties and changes. Students understand and apply scientific concepts, principles and theories pertaining to the physical setting and recognize the historical development of ideas in chemistry. The ideas studied include the atomic makeup of matter and how it determines the observable characteristics, its reactivity, and energy changes. Students learn to work with graphs, charts, tables and measurements. The class meets 7-8 periods per week and a minimum of 1200 minutes of successfully recorded lab exercises is required.

0107 Physical Setting/Chemistry Honors/SUNY ESF PSE296 Paper Engineering

Credit: 1 Unit High School; up to 6 credits OCC

Prerequisite: None

40 Weeks

This course is for both 1 high school and up to 3 college credits through SUNY ESF. The course is the Honors Chemistry high school course with the NYS Chemistry Regents as the final exam. The ESF course will be taught as a laboratory program that will also fulfill the Regents laboratory requirement.

The total cost is approximately \$270.00 or \$100 with free/reduced lunch eligibility

0135 AP Physics I

Credit: 1 Unit

Prerequisite: Geometry, Integrated Algebra or Algebra I, Concurrent Enrollment in Algebra 2/Trigonometry

40 Weeks

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activities, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and waves.

There is a \$95 fee to take the AP exam.

0113 PHY103 OCC General Physics I

Credit: ½ Unit High School, 4 OCC Credits

**Prerequisite: Geometry, Integrated Algebra 20 Weeks
or Algebra I, Concurrent Enrollment in
Algebra 2/Trigonometry**

OCC PHY103 is a physics course emphasizing fundamental concepts and principles with a problem solving approach. Topics covered include kinematics and dynamics, Newton's laws, work and energy, momentum and rotational motion. Students have the option of taking the course through OCC for college credit. Must have a 70% lab average to receive college credit.

There is no charge for this course.

0116 PHY104 OCC General Physics II

Credit: ½ Unit High School, 4 OCC Credits

**Prerequisite: PHY103 General Physics I, 20 Weeks
Geometry, Integrated Algebra or Algebra I,
Concurrent Enrollment in Algebra
2/Trigonometry**

OCC PHY104 is a continuation of PHY103. Topics covered include: vibrations and wave motion, physical and geometrical optics, electricity and magnetism, and simple AC and DC circuits. Students have the option of taking the course through OCC for college credit. Must have a 70% lab average to receive college credit.

There is no charge for this course.

0118 EFB120 SUNY ESF The Global Environment and the Evolution of Human Culture

**Credit: 1 Unit High School, 3 SUNY ESF
Credits**

**Prerequisite: Physical Setting/Earth 40 Weeks
Science, Living Environment/Biology,
Concurrent enrollment in Physical
Setting/Chemistry**

A big-picture look at large-scale environmental issues and their relation to the development of human societies and resource-use strategies over time. Focus is on population growth and societal pressures on physical and biotic resources. Topics include energy-use issues, causes and socio-economic implications of climate change, pollution, and loss of biodiversity. Gain the knowledge and tools to make informed decisions regarding the environment and make connections between the aforementioned topics.

The total cost is approximately \$200.00 or \$75 with Free/Reduced lunch eligibility

0136 Physical Science I

Credit: ½ Unit

Prerequisite: Living Environment/Biology 20 Weeks

Physical Science 1 is an introduction to the fundamental concepts of physics. Topics include measurement, force, motion, energy, waves, and magnetism. Upon completion, students should be able to demonstrate an understanding of their physical environment.

0137 Physical Science II

Credit: ½ Unit

**Prerequisite: Physical Science I, Living 20 Weeks
Environment/Biology**

Physical Science 2 is an introductory course designed to allow students to explore the basic concepts of physical science, learning how to do proper lab procedures and measurement by exploring mass, volume, and density. This course includes an introduction to the fundamental concepts of chemistry, astronomy, and earth science.

117 CHE113 SUPA Forensics

Credit: 1 Unit High School, 4 SUPA

**Prerequisite: Regents Chemistry, Honors 40 Weeks
Chemistry, consistently maintains 80-85
average in science courses**

Chemistry 113, Introduction to Forensic Science, is focused upon the application of scientific methods and techniques to crime and law. Recent advances in scientific methods and principles have had an enormous impact upon science, law enforcement and the entire criminal justice system. In this course, scientific methods specifically relevant to crime detection and analysis will be presented. Prior high school chemistry instruction is required. Emphasis is placed upon understanding the science underlying the techniques used in evaluating physical evidence. Topics included are blood analysis, organic and inorganic evidence analysis, fingerprints, hair analysis, DNA, drug chemistry, forensic medicine, forensic anthropology, toxicology, fiber comparisons, soil comparisons, and fire and engineering investigations, among others.

The total cost is approximately \$460.00. Financial Aid may be available.

0139 Marine Biology

Credit: ½ Unit

Prerequisite: Living Environment/Biology **20 Weeks**

This course is designed to introduce students to the ocean world. The marine environment will be explored as it relates to biology, geology, chemistry, and physics. Through laboratory activities, marine organisms will be explored relative to their functions, their different habitats, and effects of organism interactions. The topics studied will include: environmental issues, marine resources, and current research.

0141 Astronomy

Credit: ½ Unit

Prerequisite: Living Environment/Biology **20 Weeks**

This course is an introductory study of the universe, solar system, stars, galaxies, and cosmology. Topics include examining the night sky, history of Modern Astronomy, gravity, spectroscopy, structure and origin of our solar system, planets, the sun, the moon, stellar evolution, stars, and galaxies.

0142 Meteorology

Credit: ½ Unit

Prerequisite: Living Environment/Biology **20 Weeks**

This course will study the basic principles of meteorology. Topics may include: monitoring the weather through local weather stations, radars, and satellites, the interactions between temperature, air pressure, wind, humidity, and precipitation to create our weather, how to forecast the weather on a daily basis, severe weather, such as tornadoes, hurricanes, and thunderstorms/lightning, and global climate change.

0143 Anatomy and Physiology

Credit: ½ Unit

Prerequisite: Living Environment/Biology **20 Weeks**

The course investigates the structure and function of the human body, including basic organization, biochemical composition and major body systems along with the impact of diseases on certain systems. Dissections and virtual dissections will be used to highlight various aspects of anatomy and physiology.

0144 Oceanography

Credit: ½ Unit

Prerequisite: Living Environment/Biology **20 Weeks**

This course is a study of the basic principles of oceanography. Topics include the structure of the earth and the sea floor, the physics and chemistry of the oceans, atmospheric wind and ocean circulation, waves, currents, tides, marine animals and habitats, ecological concepts, and environmental concerns.

0315 Applied Food Science I

Credit: ½ Unit

Prerequisite: Living Environment/Biology **20 Weeks**

Applied Food Science I introduces students to the science of food and nutrition. In the first half of the course, topics include the physical and biochemical aspects of food science (elements, compounds, bonding, physical/chemical reactions, elemental properties and their effect on food compounds, properties of water, acids, bases, pH and energy). Students are encouraged to gain an understanding of food and nutrition, as well as the social, technological, economic and environmental issues surrounding the purchase and production of food. Students will conduct experiments to help them gain an understanding of the scientific concepts behind nutrition and food processing.

0315 Applied Food Science II

Credit: ½ Unit

Prerequisite: Applied Food Science I, **20 Weeks**
Living Environment/Biology

In Applied Food Science II, students will focus on the biological aspects of food science, including nutrition, metabolism, organic compounds and their molecular structures and properties, vitamins, minerals and leavening agents. Students will conduct experiments to help them gain an understanding of the scientific concepts behind nutrition and food processing.

0913 Science AIS

Placement in Academic Intervention Services (AIS) is determined either by the results of the 8th grade New York State Assessment in Science, a failing grade on a Regents exam, or ineligibility to take the regents exam due to lab deficiency. This class meets on an every other day basis and provides additional support that supplements the instruction provided in the regular science curriculum. It also assists students in meeting the NYS Learning standards in science.

SOCIAL STUDIES

0040 Global History & Geography 9
0041 Global History & Geography 9 Honors
0048 Global History & Geography 10
0050 Global History & Geography 10 Honors
0056 U.S. History & Government
0065 HIS106/107 OCC American History

0067 Economics
0069 Government
0072 SOC101 SUPA Sociology
0074 PSY205 SUPA Psychology
0902 Social Studies AIS

0040 Global History & Geography 9

Credit: 1 Unit

Prerequisite: None

40 Weeks

The Global History and Geography course presented to incoming 9th graders is designed to provide students with the opportunity to study various regions and civilizations at a given time. It reinforces and expands upon the many concepts and themes presented in the middle school. It introduces many new concepts and themes that will continue to be explored in the 10th grade program. Due to its chronological approach, this course includes pre-historic beginnings to approximately the Age of Enlightenment.

0041 Global History & Geography 9 Honors

Credit: 1 Unit

**Prerequisite: Teacher Recommendation,
Essay Required**

40 Weeks

The Global History and Geography course presented to incoming 9th graders is designed to provide students with the opportunity to study various regions and civilizations at a given time. It reinforces and expands upon the many concepts and themes presented in the middle school. It introduces many new concepts and themes that will continue to be explored in the 10th grade program. Due to its chronological approach, this course includes pre-historic beginnings to approximately the Age of Enlightenment.

The 9th grade honors course will require a more rigorous and indepth investigation of historical topics. Students will be engaged in a variety of project based assignments to improve their skills in analytical and higher level thinking.

0048 Global History & Geography 10

Credit: 1 Unit

Prerequisite: Global History & Geography 9 40 Weeks

This course enables students to make global connections for an in-depth understanding of the basic themes and concepts presented in the 9th grade course. This course begins with the 1750's and continues chronologically to the present day. Students have the opportunity to apply the cognitive skills of history, political science, geography, economics, as well as other social sciences to the course content.

0050 Global History & Geography 10 Honors

Credit: 1 Unit

Prerequisite: Global History & Geography 9 40 Weeks

This course enables students to make global connections for an in-depth understanding of the basic themes and concepts presented in the 9th grade course. This course begins with the 1750's and continues chronologically to the present day. Students have the opportunity to apply the cognitive skills of history, political science, geography, economics, as well as other social sciences to the course content.

The 10th grade honors course will require a more rigorous and indepth investigation of historical topics. Students will be engaged in a variety of project based assignments to improve their analytical and higher level thinking skills.

0056 U.S. History & Government

Credit: 1 Unit

Prerequisite: Global History & Geography 9 & 10 40 Weeks

This course studies American History from colonial times to the present. A study of the Constitution is included. Emphasis in the course is on the technological development of America with its social, economic, and political implications. A chronological approach dominates the instruction of the course.

0065 HIS106/HIS107 OCC Early American History/19th Century History

Credit: 1 Unit High School, 6 OCC Credits

**Prerequisite: 85 average or above on
Global Regents Exam or teacher
recommendation**

40 Weeks

HIS 106 is a survey of American history emphasizing political, social, and intellectual trends. Students are introduced to the works of major historians and various interpretations of American history. This course is an introductory level survey of American history from the early National period through the 19th century. We will cover the major events of that era: Jeffersonian and Jacksonian America; the upheavals faced by Native American communities; the entrenchment of race-based slavery and resistance to it; Manifest Destiny and the Mexican-American War; the American Civil

War and the attempted Reconstruction; Industrialization, Immigration, and Urbanization; the Gilded Age; and the birth of the American overseas empire.

HIS 107 is a survey of American history emphasizing political, social, and intellectual trends. Students are introduced to works of major historians and to various interpretations of American history. This course is an introductory level survey of American history starting from the turn of the 19th century up until the 20th century.

The overall objective of this course is to help students to analyze the past and relate it to current problems and concerns while they develop a basic understanding of United States History from its beginning through the 20th century.

This is done by requiring students to:

- a) Identify the development and evolution of American politics, economics, religion, society, culture and the military;
- b) Identify and discuss how American needs, goals, and decisions have influenced and affected world events;
- c) Identify the contributions to America's development by people of color and women;
- d) Sort through the myths about America and develop a more accurate picture of the United States;
- e) Increase the student's listening, note-taking, researching, and overall study skills

This course is offered at no cost to the student.

0067 Economics

Credit: ½ Unit

Prerequisite: U. S. History & Government 20 Weeks

This course gives students the opportunity to examine economics topics in considerable depth. The concept of capital formation, begun in earlier social studies courses, is continued. The relationship of capital formation under the corporate structure to the operation of the market system is studied. Financing corporations through the stock market, monopolies, and competitions are studied and explored.

0069 Participation in Government

Credit: ½ Unit

Prerequisite: U. S. History & Government 20 Weeks

This course presents students with the challenges of a democratic system of government and the opportunities to participate actively as citizens charged with the responsibility of helping to determine the outcome of various local, state, and national issues. Students will analyze, discuss, and debate a wide variety of contemporary public issues. Students will also study current events as they relate to government.

0072 SOC101 SUPA Introduction to Sociology

Credit: ½ Unit High School, 3 SU Credits

Prerequisite: 85 or above on either Global Regents or U.S. History Regents Exam or teacher recommendation 20 Weeks

Syracuse University Project Advance Sociology is designed as an analytic, skills-based introduction to sociology. What is Sociology? According to the American Sociological Association, "Sociology is the study of social life, social change, and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies, and how people interact within these contexts. Since human behavior is shaped by social factors, the subject matter of sociology ranges from the intimate family to the hostile mob; from organized crime to religious cults; from the divisions of race, gender and social class to the shared beliefs of a common culture; and from the sociology of work to the sociology of sports.

The total cost is approximately \$345. Financial aid may be available.

0074 PSY205 SUPA Foundations of Human Behavior

Credit: 1 Unit High School, 3 SU Credits

Prerequisite: 85 or above on either Global Regents or U.S. History Regents Exam or teacher recommendation 20 Weeks

This is a college level introductory course in psychology. During the 20 weeks of this course we will survey the basic principles and research findings within the major areas of psychology, including learning, memory, cognition, development, personality and social psychology.

The total cost is approximately \$345. Financial aid may be available.

0902 Social Studies AIS

Placement in Academic Intervention Services (AIS) is determined either by the results of the 8th grade final exam, teacher recommendation, or a failing grade on a Regents exam. This class, meeting 1-2 days per week, provides additional support that supplements the instruction provided in the general Social Studies curriculum and assists students in meeting the State learning standards. AIS is intended to assist students who may be at risk of not gaining the requisite knowledge and skills required to meet or exceed designated performance levels on the State assessments.

TECHNOLOGY

0513 Adaptive Design	0535 OCC Intro to Engineering (MET150)
0517 Computer Graphics I	0532 OCC Engineering Drawing I (MET161)
0519 Computer Graphics II	0561 TCCC Intro to Photojournalism (ART-106)
0540 Video Production	0521 Advanced Materials Processing
0545 Black & White Photography	0523 Advanced Computer Graphics
0559 Digital Photography	0525 Advanced Emerging Technologies
0515 Emerging Technologies	0526 Advanced Residential Structures
0524 Materials Processing	0527 Advanced Automotive Technology
0553 Automotive Technology	0529 Advanced Video Production
0514 Residential Structures	0556 Advanced Game Programming
0541 Intro to Computer Science	0530 Advanced Photography

Introductory Level

0513 Adaptive Design

Credit ½ Unit

Prerequisite: None

20 Weeks

In this course, Students will be a part of ARISE Adaptive design, located here in Syracuse, to create customized equipment and devices for children and adults who have disabilities. Utilizing Computer aided design, robotics coding, and 3D printers, students will be given a series of problem solving activities that will end in a final product that will then be donated to ARISE Adaptive Design to go to a family in need, here, in the Syracuse area.

0517 Computer Graphics (CG) I

Credit: ½ Unit

Prerequisite: None

20 Weeks

Graphic design is the process of creating intelligent and powerful visual communication for print media and beyond. Want to create graphics that rock? This 1st half of this introductory course will emphasize the computer as a tool in the graphic, imaging and publishing industries. Students will learn adobe illustrator in order to create vector based graphics using basic design principles. The second half of the course will include the basics of Web Design, using Adobe Dreamweaver, where students will learn basic HTML and CSS code, as well as their knowledge in Adobe Illustrator to create custom websites.

0519 Computer Graphics (CG) II

Credit: ½ Unit

Prerequisite: None

20 Weeks

Continue the exploration of advanced production techniques to design graphic media for many applications. Computer Graphics II students do projects using Adobe Photoshop and Adobe InDesign software. Topics will include more advanced graphic design principals, photographic graphic design, image manipulation, and how to organize graphic content for print based projects. Throughout the course, students will become a "graphic design team" of problem-solvers who research and manage design projects, analyze needs/problems, and develop visual solutions.

0540 Video Production

Credit ½ Unit

Prerequisite: None

20 Weeks

This course will introduce students to the basic techniques of Video Production with Adobe Premiere Pro as well as digital animation with Adobe Animate, to develop creative ideas through the moving image. Through a range of hands-on exercises, students will gain essential knowledge of using a storyboard, setting up an environment or composition and working with sound to create unique Videos and animated sequences.

0545 Black & White Photography

Credit: ½ Unit

Prerequisite: None

20 Weeks

Photography is an entry-level course into the study of silver-based imaging. This course introduces the student to the use of 35mm format photography to produce high quality black and white enlargements of a variety of subjects and scenic situations. Students gain experience in the use of 35mm format equipment (single lens reflex camera, supplementary lenses, flash units, light meters), film processing, enlarging and printing images on photo paper, paper processing, photographic composition, artistic expression, lighting techniques, and print mounting for archiving and display. Students are required to complete reading, research and writing assignments, 6 topic specific shooting assignments, and the assembly of a portfolio of their work as a final course project.

0559 Digital Photography

Credit: ½ Unit

Prerequisite: None

20 Weeks

Students will be given an overview of traditional photographic techniques as they relate to digital imaging. Fundamental skills will include the planning and production of digital compositions that demonstrate an understanding of light, composition, color and visual impact. Students will learn the theory behind digital technologies, how to use a digital camera and related computer hardware and software, as well as how to edit and enhance an image using Adobe Lightroom® software as well as brief introduction, and consumer information about digital systems. Students will be loaned digital cameras and be given specific assignments designed to best demonstrate the capabilities of digital technology.

0515 Emerging Technologies

Credit: ½ Unit

Prerequisite: None

20 Weeks

This course provides students with an introduction to the knowledge and skills related to planning, designing, and integrating products and systems to meet the demands of the emerging technologies field. Emerging technologies are generally defined as radically novel and relatively fast growing technology applications, such as smartphones, 3D printing, CNC machining, laser cutting, drones, robotics, autonomous vehicles, Artificial Intelligence (AI), microcontrollers, Internet of Things (IoT), etc. This course will introduce various cutting-edge technologies and explore the interactions between the technologies and their users.

0524 Materials Processing**Credit: ½ Unit****Prerequisite: None****20 Weeks**

This course will give students an opportunity to investigate different processes used by both professionals and hobbyists in areas of woodworking, metalworking, and plastics. Several projects will be completed using each of these three materials as different methods (separating, forming, and combining) and tooling (hand tools and power tools) are explored. Students will be required to design and construct an individual finished product using some of the materials and processes studied.

0553 Automotive Technology**Credit: ½ Unit****Prerequisite: None****20 Weeks**

This course is designed to provide a broad base of technical knowledge and skills within the field of automotive technology. Topics include career awareness, work habits and attitudes, engine theory, basic automotive electricity and electronics, the subsystems of the automobile, their functions and maintenance. Environmental impacts of automobile use and disposal, workplace relations, and consumer issues are explored.

0514 Residential Structures**Credit: ½ Unit****Prerequisite: None****20 Weeks**

Residential Structures is a study of the knowledge and skills required to both construct and maintain a residential building. Course content includes: construction (e.g. planning, framing, roofing), and maintenance (e.g. plumbing, insulation, electrical, flooring, drywall, window and door installation, and complete room renovation) required to successfully maintain a home. Students will be required, by the end of the course, to complete class construction of a shed (planning and construction) as well as complete many modules on basic home repair and maintenance. Knowledge acquired here could be used over the lifetime of any home owner.

0541 Intro to Computer Science**Credit: ½ Unit****Prerequisite: Algebra I****20 Weeks**

This course is designed to be an introductory, college preparatory, computer science course. Students will investigate the entire breadth of the field of computer science through an exploration of engaging and accessible topics, including; human computer interaction, problem solving, web design, introduction to programming, computing and data analysis, robotics and the societal impacts of computing.

0535 MET150: OCC Introduction to Engineering**Credit: ½ Unit, 3 OCC Credits****Prerequisite: Geometry****20 Weeks**

This course is a hands-on introduction to the engineering discipline/profession. Topics covered will include the following; an introduction to the various types of engineering majors and professions, engineering design and analysis methods, elementary engineering statistics and data analysis, computer literacy, working in a team setting, oral and written communications, use of practical engineering tools, and engineering ethics. Individual and group projects will cover the five major branches of engineering: Mechanical, Chemical, Civil, Electrical, and Environmental.

This course is offered at no cost to the student.

0532 MET161: OCC Engineering Drawing I**Credit: ½ Unit, 3 OCC Credits****Prerequisite: Geometry****20 Weeks**

This course is designed to prepare students with the necessary skills to interpret and construct engineering drawings. Lectures will address such topics as drawing interpretation, orthographic projection systems, dimensioning, geometric dimensioning and tolerance; lab sessions give the students practice in drawing creation.

This course is offered at no cost to the student.

0561 ART-106: TCCC Introduction to Photojournalism**Credit: ½ Unit, 3 TCCC Credits****Prerequisite: None****20 Weeks**

This introductory-level photography course emphasizes photojournalism and digital workflow. Students explore the full potential of the digital camera and master a variety of techniques in Adobe Photoshop. Photojournalistic skills, such as people pictures and action photography, writing effective captions, writing copy, editing, and layout are covered, along with historical and contemporary approaches to photojournalism. While students are encouraged to use their personal digital still camera (provided that it has an adjustable aperture and shutter speeds), a limited number of cameras will be available for class use.

This course is offered at no cost to the student.

Advanced Level

0521 Advanced Materials Processing

Credit: ½ Unit

Prerequisite: Materials Processing

20 Weeks

This course covers the principles and procedures of various manufacturing processes used in modern industries. Materials selection and machine tools required for the processes are emphasized. The major categories of content include inputs, resources, processes, outputs and control.

0523 Advanced Computer Graphics

Credit: ½ Unit

Prerequisite: CGI & CGII

20 Weeks

Modern photographers, web developers, and graphic designers, specifically those using network and Internet communications, use digital systems for higher productivity, quality, and diversity in creativity. The Digital Imaging course is designed to show students how to capture, edit and produce top quality digital images for combined utilization on network systems, the Internet, and output printing.

0525 Advanced Emerging Technologies

Credit: ½ Unit

Prerequisite: Emerging Technologies

20 Weeks

This course applies principles of rapid prototyping, robotics, and automation. Students will use current computer software and computer controlled prototyping equipment, such as CNC mills, laser engravers, and 3D printers to solve problems by constructing actual models of their 3-dimensional designs. Students will also be introduced to the fundamentals of robotics and how this equipment is used in an automated manufacturing environment.

0526 Advanced Residential Structures

Credit: ½ Unit

Prerequisite: Residential Structures

20 Weeks

This course provides a basic introduction to construction work and the technical aspects of carpentry. Topics include safety, measurement, and the identification, selection, and use of tools, equipment, lumber, materials, and fasteners. Basic skills, leadership, career development, thinking and reasoning skills, mathematics, and principles of technology are reinforced. Hands-on activities provide many opportunities to enhance instruction and career development.

0527 Advanced Automotive Technology

Credit: ½ Unit

Prerequisite: Automotive Technology

20 Weeks

Advanced Automotive Technology will provide students with an opportunity to utilize the skills and knowledge they acquired through successful completion of the introductory course and apply it to real world situations. Emphasis will be on diagnosis and repair of miscellaneous small engine equipment and automobiles. It is preferred, but not required that students taking this course have a driver's license and access to their own vehicle.

0529 Advanced Video Production

Credit: ½ Unit

Prerequisite: Video Production

20 Weeks

In this course, students will be able to choose either computer animation and Adobe Animate or video production and Adobe Premiere Pro, and further learn the ins and outs of each program in order to complete a full movie. Students will brainstorm, storyboard, script, create the environment, film and edit their movie.

0556 Advanced Game Programming

Credit: ½ Unit

Prerequisite: Intro to Computer Science

20 Weeks

This course is for students who are interested in learning how to code by working in a real software development environment to design, program and publish mobile apps and games. Students will learning to code by creating real products using the JavaScript coding language.

0530 Advanced Photography

Credit: ½ Unit

Prerequisite: Black & White Photography & Digital Photography 20 Weeks

In this advanced course students will be given the opportunity to utilize the skills acquired during both Black & White and Digital Photography in order to develop a professional portfolio. Along with working to master their craft students will also be introduced to alternative processing methods as ways to display their work including but not limited to image transfer, cyanotype, double exposure, and Van Dyke Brown.

WORLD LANGUAGE

0185 Italian 1

0186 Italian 2

0188 Italian 3

0190 CCC ITAL103 Italian 4

0191 CCC ITAL104 Italian 5

0162 Spanish 1

0164 Spanish 2

0168 Spanish 3

0173 CCC SPA201 Spanish 4

0178 CCC SPA202 Spanish 5

0185 Italian 1

Credit: 1 Unit

Prerequisite: None

40 Weeks

Get ready to open a window to a vibrant world! In this introductory Italian Course, we'll embark on a journey together to develop basic communication skills in the Italian Language. You'll develop your listening comprehension through everyday conversations, authentic audio, and media like music and videos. You'll gain confidence expressing yourself in Italian through simple dialogues, presentations, games, and collaborative activities. You'll learn to decipher basic texts like emails, advertisements, news articles, and simple descriptions. You'll practice writing sentences, paragraphs, and short texts related to your daily life and interests.

A final exam assessing the student's ability to read, listen to, write and speak in the foreign language will be administered.

To receive the high school credit and meet the NYS graduation students must pass the course and the final exam.

0186 Italian 2

Credit: 1 Unit

Prerequisite: Italian 1

40 Weeks

Ready to take your Italian skills to the next level? This class is your stepping stone to confident communication! We'll build on your basics, helping you understand everyday conversations, fun audio clips, and even catch music! You'll gain the confidence to chat in simple Italian through dialogues, games and fun activities with your classmates. We'll decipher basic texts like emails and news headlines together, unlocking the secrets of written Italian. You'll practice writing short sentences and paragraphs about yourself and your interests, making your Italian come alive!

0188 Italian 3

Credit: 1 Unit

Prerequisite: Italian 2

40 Weeks

Boost your Italian to the next level with an interactive and immersive experience! Forget the basics and get ready to dive into nuanced conversations, culturally relevant audio clips, and even catchy music. You'll build fluency and confidence through engaging dialogues, interactive games, and collaborate activities with your classmates. Master everyday texts like emails and news with ease, unlocking the secrets of written Italian. Delve deeper into written expression by crafting sentences and paragraphs that truly reflect your personality and interests, bringing your Italian to life!

0190 CCC ITAL103 Italian 4

Credit: 1 Unit High School, 4 CCC Credits

Prerequisite: Italian 3

40 Weeks

Elevate your Italian to the next level with an interactive and immersive experience! Forget the basics and get ready to dive into nuanced conversations, culturally relevant audio clips and feature films. You'll build fluency and confidence through engaging dialogues, interactive games, and collaborative activities with your classmates. Not only will you earn 3 valuable college credits, but you'll also set yourself on a path that unlocks numerous degree programs. This is your stepping stone to a brighter future, and the best part? This course is offered at no cost to Solvay Bearcats!

0190 CCC ITAL104 Italian 5

Credit: 1 Unit High School, 4 CCC Credits

Prerequisite: ITAL103

40 Weeks

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0162 Spanish 1

Credit: 1 Unit

Prerequisite: None

40 Weeks

Get ready to open a window to a vibrant world! In this introductory Spanish course, we'll embark on a journey together to develop basic communication skills in the Spanish language. You'll develop your listening comprehension through everyday conversations, authentic audio, and media like music and videos. You'll gain confidence expressing yourself in Spanish through simple dialogues, presentations, games, and collaborative activities. You'll learn to decipher basic texts like emails, advertisements, news articles, and simple descriptions. You'll practice writing sentences, paragraphs, and short texts related to your daily life and interests.

A final exam assessing the student's ability to read, listen to, write and speak in the foreign language will be administered.

To receive the high school credit and meet the NYS graduation students must pass the course and the final exam.

0164 Spanish 2

Credit: 1 Unit

Prerequisite: Spanish 1

40 Weeks

Ready to take your Spanish skills to the next level? This class is your stepping stone to confident communication! We'll build on your basics, helping you understand everyday conversations, fun audio clips, and even catchy music! You'll gain the confidence to chat in simple Spanish through dialogues, games, and fun activities with your classmates. We'll decipher basic texts like emails and news headlines together, unlocking the secrets of written Spanish. You'll practice writing short sentences and paragraphs about yourself and your interests, making your Spanish come alive!

0168 Spanish 3

Credit: 1 Unit

Prerequisite: Spanish 2

40 Weeks

Boost your Spanish to the next level with an interactive and immersive experience! Forget the basics and get ready to dive into nuanced conversations, culturally relevant audio clips, and even catchy music. You'll build fluency and confidence through engaging dialogues, interactive games, and collaborative activities with your classmates. Master everyday texts like emails and news with ease, unlocking the secrets of written Spanish. Delve deeper into written expression by crafting sentences and paragraphs that truly reflect your personality and interests, bringing your Spanish to life!

0173 CCC SPA201 Spanish 4

Credit: 1 Unit High School, 3 CCC Credits

Prerequisite: Spanish 3

40 Weeks

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0178 CCC SPA202 Spanish 5

Credit: 1 Unit High School, 3 CCC Credits

Prerequisite: SPA201

40 Weeks

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