

DUNKIRK HIGH SCHOOL GOAL STATEMENT

Dunkirk High School students will acquire the skills, knowledge and abilities to be successful in transitioning to post-secondary education, training, or employment.

PLANNING YOUR HIGH SCHOOL PROGRAM

This handbook contains the curriculum offerings of the major departments in the school. The level of the course and its prerequisites are designated as part of each listing. Prerequisite means you must have completed certain requirements before enrolling in the course. Carefully check these prerequisites as success in the course is dependent upon having completed these requirements.

Asking yourself the following questions as you plan or review your overall high school program will be beneficial.

- A. Have the subjects I have chosen enabled me to meet requirements for graduation at the end of the 12th grade?
- B. Will the courses I have chosen enable me to meet at least the minimum entrance requirements for schools beyond high school? (This question applies to vocational, technical, two- or four-year colleges.)
- C. Are my subject selections consistent with my tentative vocational plans? (Some subjects may be taken to explore new areas of possible interest, some to develop special skills, some to develop appreciation of areas other than those of primary interest.)
- D. Is my course load filling the required 6 courses plus Physical Education?

Although each student will develop his/her program with his/her counselor and teachers, the ultimate responsibility for the proper selection of courses rests with the parents/guardians and student.

ANTI-DISCRIMINATION POLICY

No students shall be denied membership or participation, on the basis of race, sex, marital status, sexual orientation, color, religion, national origin, or disability, in any program or activity which is included in a school program.

REQUIREMENTS FOR FURTHER EDUCATIONAL SCHOOLING AFTER HIGH SCHOOL

Students should be aware that prescribed subject patterns can and will vary for different vocations and different colleges and schools. Also, students should note that merely meeting the minimum subject requirements will not guarantee acceptance.

COLLEGE ADMISSION

Requirements for admission at two and four-year colleges vary considerably. The best source for entrance requirements is the college website, where students can gain a wealth of information. Collegeboard (www.collegeboard.com) offers an excellent college research site. Students can put in specific parameters such as location, major, cost, etc. and receive a list of colleges that match their specific needs.

HOW DO COLLEGES DECIDE ON WHOM TO ADMIT?

A recent survey on what colleges state are important factors for deciding on the admission of students include the following:

- A. Rigor of Classes - Colleges want to see that you are challenging yourself with classes that prepare you for a college level workload. There is a direct correlation between participating in AP classes and success in college. Take a full caseload and do not slack in your senior year. Many colleges request senior transcripts, both mid-term and the end of the year.
- B. Quality of high school marks or grades in subject areas and overall rank in the class.
- C. Evaluations and recommendations of high school teachers and administrators.
- D. Counselor recommendations
- E. SAT or ACT test scores. Some colleges require SAT II subject tests as well.

Note: The rank order of importance will vary from college to college.

Most colleges also want information about the student's character, his/her emotional stability, eagerness for learning, attitudes and leadership qualities. A personal interview, audition of special skills, and examples of student's work are required in many colleges.

The student's own statement about him / herself carries a good deal of weight for college admissions. Very often the application requires a detailed written autobiographical statement by the applicant. Also, in the interview, the applicant should be able to converse about his/her past life experiences and future plans.

TWO-YEAR AND TECHNICAL SCHOOLS

Students who do not plan to attend a four-year college after high school should investigate and consider the many specialized training opportunities available. Some of these schools are:

- A. Junior Colleges - (Private)
- B. Community Colleges - (Public)
- C. Technical Institutes
- D. Vocational Schools
- E. Trade Schools
- F. Business Schools
- G. Apprenticeship

- H. Adult Evening Courses
- I. Extension Courses
- J. Correspondence Courses
- K. Industrial and Business Training Programs
- L. Armed Forces

More information regarding these training programs may be obtained from personnel in the Guidance Office.

PROFESSIONAL SCHOOL REQUIREMENTS

ENGINEERING

Achievement in math, science and technology is required. Four years of high school math and science, including physics and chemistry are recommended. Technology education courses such as: Drawing and Design for Production, Principles of Engineering and World of Technology are greatly encouraged. Communication skills are very important, so consider English and Communication Systems classes.

MEDICINE, DENTISTRY, PHARMACY

Require sound preparation in science and math. You should take a minimum of four years of math, three years of science including biology, chemistry and physics, and three years of a foreign language. A hands-on technology education course such as Principles of Engineering is useful for developing your fine motor skill and should also be considered. Students should take the AP Science courses and calculus. Also keep in mind if you are applying to a specialized program at college, the admission deadline is often earlier than a regular admission deadline.

FORESTRY AND AGRICULTURAL SCIENCE

You should have a minimum of three years of math, biology, chemistry, and physics. Include hands-on technology education courses like Drawing and Design for Production and World of Technology.

ART AND MUSIC

Recommended high school work in special field (art or music) plus a balanced academic high school program. Many schools accepting art or music majors require a portfolio or an audition. There should also be emphasis on as many art electives as possible from 9th grade on, as well as, a background in technology education with a course in Drawing and Design for Production. Music theory will also be needed for auditions. Foreign language, history should also be considered. AP studio art is an excellent course for future art majors. Music majors are required to audition as part of the college process and art students are expected to submit a portfolio, so make sure you take digital photos of all of your work.

HEALTH CAREERS

You will need three years of math plus biology and chemistry. For registered nurse - four-year college nursing programs will recommend three years of math and two to three years of science. Also try to include physics, psychology, and sociology if you can.

LAW/PUBLIC SERVICE

A well-balanced high school program including mathematics, science, foreign languages, humanities, public speaking and history.

TEACHING

Those who wish to prepare for high school academic or specialized fields will take more high school academic or related specialized subjects. Those who plan to teach in elementary school will also be required to minor in some particular subject area in college. High school courses in music, art, and earth science should be helpful. Three years of math, science, and foreign language is recommended.

PROFESSIONAL BUSINESS CAREERS

High school program should include the pattern of subjects suggested for Liberal Arts - (English, social studies, mathematics, science and foreign languages). Take advantage of the many business courses offered at Dunkirk High School.

HIGH TECH CAREERS

Four years of math, biology, chemistry, physics and three years of a foreign language are recommended. You should also consider a 5th year of math, AP courses and computer math, technology.

HUMANITIES/SOCIAL SCIENCES

Three years of math, science and foreign language is recommended. Also consider English and history courses.

COLLEGE ATHLETICS

If you are interested in playing a sport in college, you need to get an early start on the college process. Explore colleges that offer your sport but keep in mind there are other factors that are extremely important such as your desired major, how far away the college is from home, and the size of the college. You will have to decide what level of competition fits your talent and the Athletic Director and Coach can assist you with that decision. There are three levels, Division I, II and III and for Division I and II, you must register with NCAA Clearinghouse. You should inform your high school coach that you are interested in college athletics because you will need a video of your play. A highlight video is not always preferred. You should also inform the college coaches of your interest to play and you can complete an athletic interest form found on the college's website. Invite the college coach to attend one of your games or ask if he/she would prefer a video. Keep in mind the coach may not be able to speak with you; there are specific rules but this does not mean that you should not be contacting him/her. SAT/ACT exams should be taken early and repeated if needed. Spots on college rosters fill up quickly and money allotments are disbursed early in the process so be prudent and prepared. Also, complete your FAFSA early; it can be updated once you have final figures from tax completion. Please see the Athletic Director, coach or your counselor if you need additional support.

DEFINITION OF TERMS

Unit or Credit - the value given to a course

1 unit (credit)	=	5 periods a week for 40 weeks
1/2 unit (credit)	=	5 periods a week for 20 weeks or
	=	Every other day for 40 weeks

Required Subjects - These are subjects all students must take to meet state and local requirements.

Electives - Subjects which are not required but are chosen by the student.

Prerequisites - The requirements which a student must meet in order to be eligible to take a given subject.

Semester or Term- One-half of the school year (20-weeks).

Advanced Placement -This program involves college level courses taught by Dunkirk High School faculty. Competency exams for each course are taken in the spring. Many colleges give credit for A/P courses taken, thus allowing students to enter the next level of college course work as a college freshman. Currently we offer an AP Psychology Class taught through Distance Learning.

GRADING AND PROMOTION

Progress Report - Every 5 weeks, between report card periods, teachers may issue reports of positive academic progress and are required to issue reports of academic deficiencies if a student is failing, near failing or not working to potential.

Report Cards - are issued every 10 weeks. Minimum passing grade in each subject for all students is 65%.

Final Course Grade Calculation - Full year courses: the four quarter grades plus the mid-term exam equal 80% (4/5) and the final exam equals 20% (1/5) of the final mark. Mid-terms will be given as determined by individual departments.

One semester courses - the two quarter grades equal 80% (4/5) and the final exam equals 20% (1/5) of the final mark.

DROP-ADD

All students' schedules are being developed to meet 21st Century standards and expectations for college and career readiness. As such, we will not be changing schedules during the upcoming school year. At the conclusion of course selection, we will forward a copy of your student's class selection. If parents/guardians have any questions/concerns please contact the counseling office.

Failed Courses - Must be completed by passing in summer school or by repeating the course for a full regular course term (full year courses for full year, 1/2 year courses for 1/2 year).

Doubling Up - Students are not allowed to enroll in two required courses in the major academic areas (math, science, English, social studies) at the same time. The only exception is for seniors who must do so in order to graduate. Seniors who are doubling up

and are not making a conscientious effort in both courses will be required to drop the higher level course.

PROGRESSION INDICATOR FOR TRADITIONAL PLAN

Promotion - (to qualify for 10, 11, 12th grade)

- | | |
|--------------|---|
| 10th Grade - | Must have accumulated a minimum of 4.5 units of credits. |
| 11th Grade - | Must have accumulated a minimum of 10.5 units of credits. |
| 12th Grade - | Must have accumulated a minimum of at least 15 units of credit and be taking sufficient units to graduate the following June. |

RANK-IN-CLASS

- A. Ranking will take place at the end of the 5th, 6th and 7th semesters. Ranking statistics are available in the Guidance Office.
- B. Any subject where a "special" grade is given rather than a numerical one will not be included in the calculation of averages.
- C. An incomplete (inc.) grade in any subject on an issued report card disqualifies a student for 1st Honor or 2nd Honor roll for the marking record. If the requirements are completed within five weeks, (assuming the incomplete resulted due to reasons beyond the student's control, usually illness) the student's name will then be placed on the correct roll.
- D. Class rank is weighted. The weight factor for each course is indicated. The purpose of this is to encourage students to enroll in courses that are more academically challenging.
- E. Meaningful rank in class statistics cannot be determined until the end of 10th grade.
- F. To be eligible for valedictorian and salutatorian honors students must be enrolled in Dunkirk High School for a minimum of 4 semesters prior to graduation.

SCHOOL COUNSELING OFFICE

The Counseling Office is designed to offer support to both students and families to ensure a successful high school journey.

THE HIGH SCHOOL COURSE OF STUDY INTRODUCTION

The following material has been prepared to help the students at Dunkirk Senior High School and their parents in the selection of proper courses throughout high school. A wise evaluation of interests, aptitude, present subject achievements, and tentative plans for the future should help in deciding on choices of subjects. Guidance counselors, school administrators, teachers and parents should all be involved in this important process.

DIPLOMA TYPE

Diploma Type	# of Course Credits	Courses	Regents Exams
Local Diploma Available exclusively to Students with an IEP or 504 plan which states eligibility for the safety net	22	4 English, 4 Social Studies, 3 Math, 3 Science, 2 P.E., 1 Art or Music, 1 Language other than English, 1 Health, 3 Electives	Pass 5 exams – ELA, Global History, U.S. History, Algebra and Science
Regents Diploma	22	4 English, 4 Social Studies, 3 Math, 3 Science, 2 P.E., 1 Art or Music, 1 Language other than English, 1 Health, 3 Electives	Pass 5 exams– ELA, Global History, U.S. History, Algebra and Science
Advanced Regents Diploma	22	4 English, 4 Social Studies, 3 Math, 3 Science, 2 P.E., 1 Art or Music, 3 Language other than English, 1 Health, 1 Elective	Pass 9 exams – ELA, Global History, U.S. History, Algebra, Geometry, Trigonometry, 2 Science, and Language exam

- To receive designation “With honors” for either the Regents or Advanced Regents Diploma, a student must achieve an average of 90% in all Regents exams required for that diploma. Advanced Regents available to students who pass a second Regents in Science and two additional Regents in math, as well as a Regents in a Foreign Language.

Three New Designations to the Advanced Regents Diploma

Advanced Regents Diploma with Mastery in Math: The student must complete all course and exam requirements for the Advanced Regents diploma and score 85 or higher on each of the three required math Regents exams: Integrated Algebra, Geometry, and Algebra 2/Trigonometry.

Advanced Regents Diploma with Mastery in Science: The student must complete all course and exam requirements for the Advanced Regents diploma and score 85 or higher on any three science Regents exams. (Note: While the Advanced Regents diploma requires only two science Regents exams, the Advanced Regents Diploma with Mastery in Science requires three science Regents exams.)

Advanced Regents Diploma with Mastery in Math and Science: The student must complete all course and exam requirements for the Advanced Regents diploma, score 85 or higher on three math Regents exams, and score 85 or higher on three science Regents exams.

STUDENT ORGANIZATIONS

BAND

Band allows students with an interest and ability to play a musical instrument to do so.

BUSINESS AND MARKETING HONOR SOCIETY

Recognizes students who have demonstrated outstanding achievement in business/marketing.

Seniors: 3 units in business/marketing (must be enrolled in a business class senior year)

Juniors / Sophomores: 2 units in business/marketing(must be enrolled in a business class for that year)

Minimum Criteria: 88% average in business/marketing courses

Overall average: 80%

Additional Criteria: Demonstrated Character, Leadership and Service

CHORUS

The chorus fosters and promotes the enjoyment of music more fully through the active participation in choral singing. The chorus also strives to allow the student to become acquainted with the aesthetic value of music.

CITIZEN

This organization publishes the school newspaper.

DRAMA CLUB

Drama Club provides students the opportunity to develop their theater arts talents behind scenes and on stage. With a fall and spring production, the club is open to all students.

FRENCH CLUB, SPANISH CLUB, GERMAN CLUB

These clubs foster an appreciation of the respective language and culture allowing the students more opportunities to enjoy the language in a more relaxed setting often involving food, music, film and fun.

IVY TOWER

The school yearbook provides direct hands-on experience in the publication methods used in the publication of a photography based record of student life.

MUSICAL

The musical provides an opportunity to learn organizational skills, appreciation of drama, dance and music through the participation in the production of a full scale musical.

NATIONAL HONOR SOCIETY

The National Honor Society promotes recognition for students who reflect outstanding accomplishments in the areas of academics, character, leadership and service. Membership is both an honor and a responsibility. Students selected for membership are expected to continue to demonstrate the four qualities that won them selection. Membership is an honor bestowed upon students selected by a faculty council consisting of five faculty members. Membership is open to qualified sophomores, juniors and seniors who have a cumulative weighted grade point average of 92 percent or higher. If the scholarship requirement is met, students can then be considered for selection on the basis of leadership, service and character. Students must complete the Student Activity Information Form which is reviewed and evaluated by the faculty council. Candidates receiving a majority vote of the council are inducted into the Dunkirk chapter during an evening ceremony.

STUDENTS AGAINST DESTRUCTIVE DECISIONS (SADD)

SADD promotes activities that are chemical free as well as attempts to heighten awareness of the dangers of driving while drinking.

STUDENT COUNCIL

Student Council assists in the internal administration of Dunkirk High School. It serves as a representative body for the students and provides social activities that will foster a sense of school spirit and cooperation.

ART OFFERINGS

Studio in Art

Course Length: 20 weeks

Credits: .50

Weight Factor: 1.00

Recommended Grade Level: 9-12

Prerequisite: None

This is the introductory course in art required by **ALL** art students. It is designed for pupils who will take only one course in art as well as for those who will elect additional courses in art. The course is centered on the discussion and practice of the principles of design and color as applied to various art activities. Pupils study the work of others and obtain practice in different media.

Studio in Drawing

Course Length: 20 weeks

Credits: .50

Weight Factor: 1.00

Recommended Grade Level: 9-12

Prerequisite: None

Drawing is a basic skill. Disciplines, selective vision coupled with sensitive sensory perception and motor control are stressed. Students explore the limitations and potentialities of many drawing materials. Grade 9 students who intend to pursue an art sequence may enroll in this course.

Studio in Ceramics I

Course Length: 20 weeks

Credits: .50

Weight Factor: 1.02

Recommended Grade Level: 10-12

Prerequisite: Minimum 85+ average
in Studio Art or Drawing

The Ceramics Course is designed for the mature student who is interested in working with clay. One of a kind objects (no molds are used) are constructed using pinch, slab, coil and handbuilding methods. Basics of sculpture are introduced.

Studio in Ceramics II

Course Length: 20 weeks

Credits: .50

Weight Factor: 1.02

Recommended Grade Level: 10-12

Prerequisite: Minimum 85+ average
in Ceramics I

Students are given the opportunity to advance skills developed in Ceramics I. More complex structures and sculptures are attempted, as well as learning wheel thrown techniques.

ART 1590 JCC Ceramics

Course Length: 20 weeks each
Credits: .50
Weight Factor: 1.04

Recommended Grade Level: 11-12
Prerequisites: Teacher recommendation and successful completion Studio Art/ Drawing/T&O Media. Application for entrance.

Students will gain a working knowledge of fundamental and advanced studio work in clay preparation, hand building, throwing, mold making, slip casting, glaze preparation, decorating techniques, and firing techniques.

Mixed Media

Course Length: 20 weeks
Credits: .50
Weight Factor: 1.02

Recommended Grade Level: 10-12
Prerequisites: Minimum of 85+ Studio Art & Drawing

This is an advanced course for grade 10, 11 or 12 which may be elected to participate in advanced art study. The program should develop a foundation of exploratory experience in both transparent and opaque medium. The students will begin by developing their drawing skills and working with a variety of media including painting, collage, bookbinding and printing.

Painting I

Course Length: 20 weeks
Credits: .50
Weight Factor: 1.02

Recommended Grade Level: 11-12
Prerequisites: Drawing, Studio Art, Mixed Media Minimum of 85+ average

This course is designed to add and extend the knowledge acquired Studio Art, Drawing and Mixed Media. It will develop an understanding and appreciation of the medium and of the artists working in it. The students will be working on a series of projects dealing with acrylic, watercolor, tempera paint, etc.

Painting II

Course Length: 20 weeks
Credits: .50
Weight Factor: 1.04

Recommended Grade Level: 11-12
Prerequisite: Painting I
Minimum of an 85+ average

This program helps develop the student's chosen area of concentration. While this advanced course encourages freedom and individual study, it is vital that the teacher continually observe and guide the working stages as they progress. Once again, the student will be working with watercolor, tempera and/or acrylic.

BUSINESS OFFERINGS

JCC Accounting Fundamentals BUS 1410

Course Length: 40 weeks

Credits: 1.0

College Credits: 3

Weight Factor: 1.04

Recommended Grade Level: 10-12

Prerequisite: None

Eligible for 3 JCC credits
(no placement test)

Accounting is one of the most “in demand” careers. This is a full year course designed to develop basic competencies in accounting. This course is strongly recommended for the student planning on majoring in business in college and who is considering a career in small business ownership, accounting, finance, business administration, management, marketing, and/or administrative assistant. Course content includes the complete accounting cycle for a business organized as a proprietorship and a merchandising business organized as a corporation. Students may use this course for a **math credit** as well as receive **3 college credits** through the JCC College Connections Program at no cost to the students.

JCC Microcomputer Applications I CSC 1560

Course Length: 40 weeks

Credits: 1.0

College Credits: 4

Weight Factor: 1.06

Recommended Grade Level: 10-12

Prerequisite: Top 10% of Class or
Algebra and Passing of
Reading Placement test

This one unit course utilizes the Microsoft Office package at an advanced level. Microsoft Word will be used to create professional newsletters, resumes, and other documents used in real life settings. Microsoft Excel will consist of using formulas and functions within spreadsheets and charts to communicate numerical data. Microsoft Access will be used to create forms, reports, and tables. Students will also learn how to integrate these three programs together. In addition, if students meet all requirements, they will be eligible for 4 college credits through JCC College Connections Program at no cost to the students. This course is required of all computer science and business majors. Some colleges accept this course as math credits. These credits can then be transferred to other four-year colleges.

JCC Personal Finance BUS 1610/Career and Financial Management

Course Length: 20 weeks

Credits: .5

Weight Factor: 1.06

Recommended Grade Level: 10-12

College Credits: 3

College Credit Prerequisite: Top 10% of
class or passing of Writing and
Reading Placement Tests

Student will gain an appreciation of the need for personal financial planning and learn how to apply smart planning to goal setting and budgets. Students will have the ability to coordinate income, assets, and spending into the comprehensive program that takes them through the various stages of their life cycle, from college to retirement.

JCC Introduction to Business BUS 1500

Course Length: 20 weeks

Credits: .5

Weight Factor: 1.06

Recommended Grade Level: 10-12

College Credits: 3

College Credit Prerequisite:
(no placement test)

Students will study the elements and characteristics of a free enterprise system and will be presented an overview of functional areas of business and basic concepts of the business world. Some topics include the environment of business, organization and management of the enterprise, management of human resources and production, marketing, finance, government's role in business, social responsibility, and cultural diversity, as well as major societal issues facing today's business executives. Recommended for beginning business students and non-business majors. This course will be scheduled opposite JCC Personal Finance BUS 1610. Students will have an opportunity to complete **six JCC credits, three for each class** during this time frame.

JCC Public Speaking CMM 1610

Course Length: 20 weeks

Credits: .5

Weight Factor: 1.06

Recommended Grade Level: 10-12

College Credits: 3

College Credit Prerequisite: Top 10% of
class or passing of Writing and
Reading Placement Tests

Students will learn effective strategies for researching, preparing, and delivering informative and persuasive speeches to small groups. Students will be able to demonstrate methods for building confidence in speech delivery, supporting points with evidence, analyzing the audience, using media aids effectively, and refining delivery style. This course will be scheduled opposite JCC Office Procedures BUS 1420. Students will have an opportunity to complete **six JCC credits, three for each class** during this time frame.

JCC Office Procedures BUS 1420

Course Length: 20 weeks

Credits: .5

Weight Factor: 1.06

Recommended Grade Level: 10-12

College Credits: 3

College Credit Prerequisite: None

Students will learn the skills necessary for success in today's office. Students are given a perspective on the role of an office professional, how office technology has evolved, and how business is conducted in the USA as well as internationally. Students will gain the necessary skills to find & apply for a real job, conduct themselves during an interview & handle various job situations. Time management, planning/organizing, and communication skills will be emphasized. This course will be scheduled opposite JCC Public Speaking CMM 1610. Students will have the opportunity to complete **six JCC credits, three for each class**.

BEEP

Course Length: 20 weeks
Credits: .50
Weight Factor: 1.06

Grade Level: Grade 12
First Semester
Recommended Prerequisite:
Computers Applications

This course will assist students in preparing for college and the workforce through hands-on real world scenarios and events. Students will develop a Business Education Employability Portfolio (BEEP). The portfolio will give students the opportunity to showcase the development of career and occupational skills necessary to successfully enter today's competitive marketplace or college. Student talents, skills, and best work samples from in-school and out-of-school activities will be some of the highlights included in the finished portfolio product. Upon successfully meeting all requirements in the curriculum and completing the review process by a local community interviewer, students will be issued the Certificate of Employability by the Niagara Frontier Industry Education Council. Earning this certificate can be a benefit on college applications, scholarship opportunities, as well as preferential consideration from many employers in the community during the job application and interview process.

Desktop Publishing

Course Length: 20 weeks
Credits: .50
Weight Factor: 1.06

Grade Level: Grade 12
Second Semester
Recommended Prerequisite: Computer
Applications

Desktop Publishing is designed to expose students to practical examples of the computer as a useful desktop publishing tool. Students will create professional quality publications suitable for course work, professional purposes, and personal use. Students will create flyers, newsletters, brochures, business cards, signs, and calendars. This class is scheduled opposite BEEP.

Computers Applications

Course Length: 20 weeks
Credits: .50
Weight Factor: 1.0

Recommended Grade Level: 9-12
Prerequisite: None

Computer Applications is a one-semester course. Students will use Microsoft WORD, EXCEL, and POWERPOINT to learn and create various documents for use in school, college, and the world of business. Internet Safety and social media issues are also covered in this course. Web-based presentation programs will also be explored as part of the course. Proofreading and editing skills will be used to produce professional-looking documents throughout the semester.

Career and Financial Management

Course Length: 20 weeks

Credits: .50

Weight Factor: 1.0

Recommended Grade Level: 9-12

Prerequisite: None

This class is a requirement for a 5 unit sequence in Business for an Advanced Regents Diploma or CTE endorsement. This half-year course will emphasize the world of work, careers, and financial managements as it pertains to real-life.

ENGLISH OFFERINGS**English 9**

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.00

Recommended Grade Level: 9

Prerequisite: English 8

English 9 is a required course for all freshmen students. The New York State Grade 9 ELA curricula includes modules that focus on reading, writing, listening and speaking in response to high level texts. The modules sequence and scaffold content that is aligned to the CCLS for ELA & Literacy and the PARCC Frameworks. Each module culminates in an end-of-module performance task, which can provide information on whether students are achieving the standards. Each unit includes a set of sequenced, coherent progressions of learning experiences that build knowledge and understanding of major concepts that prepares them for the Common Core exam that they will take at the end of their junior year.

English 9 Honors

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.04

Recommended Grade Level: 9

Prerequisite: Teacher recommendation

The same curriculum as English 9 only the students will use higher level thinking skills and extended activities within each module. This course is designed for all college entrance students and students who excel in English.

English 10

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.00

Recommended Grade Level: 10

Prerequisite: English 9

English 10 is a required full-year course for all sophomores. The New York State Grade 10 curriculum focuses on integrating technology from multiple media sources that include both literary and informational texts. The goals of the ELA modules are to engage the students with instruction to improve reading, writing, listening and speaking skills so that they can be prepared for both state required testing and more readily able to adapt to the requirements and rigor of collegiate life.

English 10 Honors

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.04

Recommended Grade Level: 10

Prerequisites: Teacher recommendation
and/or successful completion of
English 9 Honors

The curriculum is the same as English 10 only the students will use higher level thinking skills and extended activities within each module. This course is designed for all college entrance students and students who excel in English.

STUDENTS MUST HAVE PASSED ENGLISH 9 AND 10 BEFORE THEY ARE ELIGIBLE FOR ENGLISH 11 AND 12.

English 11

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.02

Recommended Grade Level: 11

Prerequisite: English 10

English 11 is a required course for all juniors. Each instructional unit includes a set of sequenced, coherent progressions of learning experiences that build knowledge and understanding of major concepts that prepares students for the Common Core exam that they will take in January of their junior year. While the New York State Grade 11 ELA curricula includes modules that focus on reading, writing, listening and speaking in response to high level texts, test preparation activities are built into the course. The modules sequence and scaffold content that is aligned to the CCLS for ELA & Literacy and the PARCC Frameworks. Each module culminates in an end-of-module performance task, which can provide information on whether students are achieving the standards.

JCC English 1510

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.10

Recommended Grade Level: 11

Prerequisite: JCC Placement Exam

This is a Spring semester JCC college course that follows Honors English 11. In this writing course, students will learn to write precise, clear, substantive essays. They will work with multi-page papers, organization, grammar and mechanics. Emphasis will be placed on critical thinking, reading, and writing. Since a majority of assignments are online, students will need regular, reliable access to the internet and to word processing programs. Admittance into the course is based on AccuPlacer scores: students must earn at least a 4 for the writing portion and an 80 for the reading portion. After successful completion of the course, students will earn 3 hours of college credit.

English 12

Course Length: 20 weeks

Credits: 1.0

Weight Factor: 1.04

Required of all Seniors not in JCC English 1530

Prerequisite: English 11

The New York State Grade 12 ELA curricula includes modules that focus on reading, writing, listening and speaking in response to high level texts. A successful integration of the Common Core Standards will provide students with necessary fluency, comprehension, analytical and communication skills necessary to be on track for college and career readiness.

JCC English 1530

Course Length: 20 weeks

Credits: 1.0

Weight Factor: 1.10

Recommended Grade Level: 12

Prerequisite: completion of JCC English 1510 or 7 or higher on Placement Exam

This is a full-year English course that is the next consecutive level of English offered through JCC. Students who have successfully completed 1510 or have scored at least a 7 on JCC's placement exam are eligible to take this course. It continues to emphasize an appreciation for the written word through analysis of authors' writing style and the development of each student's writing style. Specific writing units include diction, syntax, point of view and detail. Students will read, write, speak and listen to speeches, write a minimum of three additional analytical papers, a 2000 word research paper and take a college exam in May. If students successfully complete this course with a C or higher, they will earn three hours of college credit for this course as well as fulfill their freshman English requirement for most local colleges.

Journalism

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.04

Recommended Grade Level: 9-12

Prerequisite: Teacher Recommendation

This writing course is designed to provide opportunities for students to engage in an in-depth examination of journalism and the news writing process. Students are responsible for the planning, design, and publication of the school newspaper. This production process will involve feature writing, news writing, sports writing, page/graphic design, photography, and business management. Good writing skills and a working knowledge of grammar are required. This is a full year course and counts as an English elective.

English as a Second Language

Course Length: 40 weeks

Credits: 1.0

Weight Factor: Beg.-1.00, Inter-1.02, Adv.-1.04

Recommended Grade Level: 9-12

Prerequisite: Tested into appropriate level

The purpose of the English as a Second Language Program is to assist our English language learners to improve their English language skills and their ability to function well in their mainstream academic classes. Students are placed in ESL classes as a result of scores on an evaluation instrument called the Language Assessment Battery.

FOREIGN LANGUAGE OFFERINGS

GENERAL FOREIGN LANGUAGE INFORMATION

Successful completion of any Level 1 foreign language course fulfills the *minimum* NYS requirement for graduation. Students wishing to earn an Advanced Regents Diploma *must* complete the Level 3 course and pass the Level 3 exam.

What's more, colleges today look for high school students to have completed *at least* three levels of foreign language. Many college, though, prefer students to have successfully completed *at least* one upper level language course.

FRENCH

French Level I

Course Length: 40 weeks

Credits: 1.0

Weight Factor 1.00

Recommended Grade Level: 9

Prerequisite: interest in the language/ culture

Bonjour! Always wanted to study French but never had the chance? Interested in traveling to Paris, but don't speak French? Now you, too, can learn to parlez-vous français like the Canadians and find out the truth behind Mardi Gras and Marie Antoinette (*she didn't really say "Let them eat cake!"*). French I introduces the basics of the language through the four language skills: listening, speaking, reading and writing. Vocabulary topics covered will include, among others: numbers, school, family, free time activities, likes & dislikes, food, shopping, community and weather. We will also study French speaking countries and their cultures.

Successful completion of this course and its final exam fulfills the *minimum* second language requirement for graduation and is an important foundation for future French language classes.

French Level II

Course Length: 40 weeks
Credits: 1.0
Weight Factor 1.02

Pre-requisite: Successful completion
of French Level I

French II builds upon the firm vocabulary base built Level I. Students will work both in pairs and in groups in order to achieve proficiency in the four skills of speaking, listening, reading and writing. A larger variety of vocabulary will be introduced, including expanded Food and Clothing units, as well as Driving, and Medical Emergencies. They will be encouraged to communicate in “real life” situations. There is a stronger emphasis on grammatical structures needed in order to communicate effectively in French. This year, the 2 past tenses of French will be mastered, as well as object pronouns and reflexive verbs. We will also begin to watch shorter-length videos in French to improve our listening/comprehension skills.

French Level III

Course Length: 40 weeks
Credits: 1.0
Weight Factor 1.04

Pre-requisite: Successful completion
of French Level II

This course includes a very thorough review of all the grammar points covered in Level II. At the same time there is a stronger emphasis on the acquisition of vocabulary. In class, students will practice real life situations in pairs and/or in groups. The student is expected to express his/her feelings, obtain information, and socialize in French. Students are also expected to obtain information from authentic documents written in French and are encouraged to develop their own writing style in French. There will be a greater emphasis on expanded writing this year. The future tense will be covered, as well as the conditional. French-language videos will also be a part of this course.

Passing the final exam is required for the Advanced Diploma.

French IV: JCC FRE2510

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.10

Pre-requisite: Successful completion
of French Level III

Made it through the Regents and want more? Well, now you can get 3 college credits when you take French IV. We will continue to learn vocabulary, and will review and expand upon grammar topics of old. Students will still practice the four language skills: reading, writing, listening and speaking. Class materials include the JCC textbook and website access – for FREE. In addition, learning will be aided through the use of a variety of non-print materials such as internet-based projects, hands-on crafts and projects, and movies about the various French-speaking cultures around the world. The final exam comes from JCC, who may award 3 credit hours for successful completion.

French V: JCC FRE2520

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.10

Pre-requisite: Successful completion
of JCC FRE2510

In this course we will continue with the JCC text “Imaginez”, as well as continuing to read (in French) the further adventures of Astérix et Obélix, and le Petit Nicolas, with movies (*in French, bien sûr!*) to follow. This course also covers in-depth the many French-speaking peoples from around the world—their histories, geography, and culture in general—from pre-historic man in France and sub-Saharan Africa to the Cajuns of Louisiana, fighting to maintain their French-Canadian heritage. Each unit of study will culminate in a project or test, followed by a movie related to the topic—in French where available. JCC awards *another* 3 credit hours for successful completion of 2520.

SPANISH **Spanish I**

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.00

Recommended Grade Level: 9-12
Prerequisite: Interest in the language

Spanish I introduces the basics of the language through the four language skills, listening, speaking, reading and writing. Students will learn the simple present tense, the present progressive and the preterite tenses. They also study negation and question formation. Nouns, articles, adjective agreement, possession, comparatives, superlatives and object pronouns are also introduced at this level.

Successful completion of this course and its final exam fulfills the minimum second language requirement for graduation and is an important foundation for future Spanish language classes.

Spanish II

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.02

Pre-requisite: Successful completion
of Spanish I

Spanish II begins by reviewing several of the basics from Level I. In each subsequent level many topics are reviewed and expanded. A good foundation in the previous level is important.

In Spanish II students are exposed to new verb tenses, the imperfect, past participles, the future and conditional tenses. They also expand their use of object pronouns with direct, indirect and reflexive pronouns. Students begin to differentiate between prepositions of place and *por* and *para*. The culture and vocabulary from Spanish I are also expanded.

Spanish III

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.04

Pre-requisite: Successful completion
of Spanish II

As with Level II Spanish III reviews the material from the previous year and expands on it. Students are introduced to new tenses - the perfect tenses. They also learn to use imperatives although they have been exposed to them orally from the beginning. The subjunctive mood is also presented in Spanish III. Once again culture and vocabulary are expanded. Successful completion of the final exam earns the students their three foreign language credits necessary for the Advanced Regents Diploma.

Spanish IV: JCC SPA2510

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.08

Pre-requisite: Successful completion
of Spanish Level III

Made it through the Regents and want more? Well, now you can get 3 FREE college credits when you take Spanish IV. Students will expand language skills and structural knowledge mastered in Spanish 1-3. Special attention is given to continuing development of students' conversational, reading, and writing skills at the intermediate level.

Class materials include the JCC textbook and website access—for FREE. In addition, learning will be aided through the use of a variety of non-print materials such as internet-based projects, hands-on crafts and projects, and movies about the various Spanish-speaking cultures of Spain and the Americas. JCC awards 3 credit hours for successful completion.

JROTC OFFERING

Junior ROTC

Course Length: 40 weeks
Credits: 1.0
Weight Factor: JROTC 1-1.00, 2-1.02,3-1.04,4-1.06

Recommended Grade Level: 9-12
Prerequisite: None

The mission of the ROTC program is to motivate young people to be better American Citizens. Junior ROTC is a course given during regular school hours but includes many out of the class activities. Subjects covered include history, government, technology awareness and current events. Leadership skills (how to motivate others) and personal skills (how to study, take tests, interview for a job) are also covered. Extracurricular activities include drill team and color guard. A summer camp is possible where students train on a confidence course, play team sports, learn land navigation and water safety techniques. THERE IS NO OBLIGATION TO JOIN THE MILITARY.

MATH OFFERINGS

Math Enrichment

Course length : 40 weeks

Recommended Grade level : 9

Credits : 1.0 (elective)

Weight Factor: 1.00

This course is designed to support students in the Algebra Common Core curriculum and help them obtain a passing grade for the Regents Exam. Students are selected for this class using past math performance, current math grade and teacher recommendation.

Algebra - Common Core

Course Length: 40 weeks

Recommended Grade Level: 9

Credits: 1.0

Weight Factor: 1.04

This course is required for all high school graduates. The students must pass the Common Core New York State exam before they can graduate. The main topics covered include: functions, statistics, series and algebra. The syllabus will follow the Common Core curriculum and modules that are available on EngageNY.com.

Transition Algebra - Common Core

Course Length: 40 weeks

Recommended Grade Level: 9

Credits: 1.0

Weight Factor: 1.04

This course is for students that had difficulty with the Algebra Common Core course as a freshmen and are not ready to move on in the math sequence. A strong emphasis will be placed on the skills that the students were deficient in Algebra. Common core curriculum will be taught throughout the course.

Principles Topics in Geometry

Course Length: 40 weeks

Recommended Grade Level: 10-11

Credits: 1.0

Prerequisite: Pass Algebra

Weight Factor: 1.04

This course is designed for students that passed algebra. Course will cover many topics also covered in Geometry Common Core course but will not culminate in the Geometry Common Core exam. Course is meant to prepare students for college mathematics who are not receiving an Advanced Regent's Diploma. Course material includes proofs, circles, constructions geometric properties and relationships involving algebra and geometry.

Geometry- Common Core

Course Length: 40 weeks

Credits: 1.05

Weight Factor: 1.06

Recommended Grade Level: 9-10

Prerequisites: Pass Algebra class and exam

This is the second course in the high school math sequence. Passing the Common Core Exam is necessary for those students seeking an advanced regents diploma. The curriculum for this course includes: proof, circles, constructions geometric properties and relationships involving algebra and geometry. The complete curriculum and modules will be available on EngageNY.com

Particular Topics in Algebra II

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.04

Recommended Grade Level: 11-12

Prerequisites: Pass Geometry class but failed the regents

This course is designed for students that passed geometry but failed the common core exam. Course will cover many topics also covered in the Algebra 2 – Common Core course but will not culminate in the Algebra 2 Common Core exam. Course is meant to prepare students for college mathematics who are not receiving an Advanced Regent’s Diploma. Course material includes, operations of polynomials, factoring polynomials, rational expression, radicals, exponential functions, logarithmic functions and modeling real life examples with functions.

Algebra II- Common Core

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.08

Recommended Grade Level: 11-12

Prerequisite: Pass Geometry class and regents

This course is the third course in the high school math sequence. This course is required for those students seeking an advanced regents diploma. Passing the New York State Algebra 2 Common Core exam is required for the advanced diploma. The curriculum for this course includes various topics in advanced algebra, trigonometry, graphing and utilization of the TI- 84 calculator, logarithms, sequences and series and advanced trigonometry. The complete curriculum and modules will be available on EngageNY.com

JCC 1590 College Algebra/Trigonometry

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.09

Recommended Grade Level: 11-12

Prerequisite: Pass Geometry class and regents, department recommendation

Students will learn algebra and trigonometry topics necessary to prepare them for the study of precalculus. Topics include one-to-one functions and their inverses and graphs, polynomial and rational functions and their applications, radicals and exponents, complex numbers, and trigonometric functions, including graphs and basic identities. Problem-solving and applications are emphasized. An approved graphing calculator is required. Eligibility: Accuplacer college-level math score of 40+ for all students, including top 10%.

JCC Pre-Calculus MAT1600

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.10

Recommended Grade Level: 11
Prerequisite: Algebra II or
Department Approval

This course is for students on the accelerated track (those who took algebra in 8th grade). Half of the year will follow the JCC syllabus culminating in students earning 4 college credits upon successful completion. The second half of the year will follow a more in depth discussion of pre-calculus topics leading to calculus. Topics to be studied may include techniques of sketching graphs, finding zeros of polynomial functions, rational functions, applications of logarithms, graphs of trigonometric functions, trigonometric applications, analytic trigonometry, polar coordinates, systems of equations with matrix techniques, sequences and series and analytic geometry with graphs of ellipse and hyperbola.

Calculus / SAT

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.10

Recommended Grade Level: 12
Prerequisite: Trigonometry or
Pre-Calculus or
teacher recommendation.

This course is designed for those planning to take calculus at the college level. Students taking this course must have completed Trigonometry. There will be a brief introduction to the SAT math component. Elementary function theory, including limits, differentiation and the introduction to the definite integral are part of this course. Students attending 3-1-3 at Fredonia State are eligible to receive college credit.

University Calculus 1 & 2-JCC Calculus

Course Length: 20 weeks each
Credits: 0.5 each
Weight Factor: 1.20

Recommended Grade Level: 12
Prerequisite: Pre-Calculus

MAT 1700 – Semester 1
MAT 1701- Semester 2

These courses are intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, axiomatic geometry, trigonometry and analytic geometry (rectangular and polar coordinates, equations and graphs, lines and conics). Topics to be studied include: elementary functions, limits, derivatives and their applications; anti-derivatives and their applications; techniques of integration; and the integral and its applications. College credits awarded through JCC (a maximum of 8). Use of TI84 plus calculator is covered along with a computer program.

JCC Problem Solving Math

Course Length: 20 weeks

Credits: 0.5

Weight Factor: 1.15

Recommended Grade Level: 12

Prerequisite: Passing JCC placement test

MAT 1500 - Problem Solving w/Mathematics

Students will develop problem solving skills through a detailed study of topics such as financial mathematics, linear and exponential modeling, and geometry, in concert with specific problem solving strategies such as drawing diagrams, making systematic lists, looking for patterns, identifying sub-problems, and working backwards. Solution presentations and communication are emphasized. College credits are awarded thru JCC if students pass the JCC placement test.

JCC Statistics

Course Length: 20 weeks

Credits: 0.5

Weight Factor: 1.15

Recommended Grade Level: 12

Prerequisite: Passing JCC placement test

MAT 1540 - Elementary Statistics

Students will investigate various topics in both descriptive and inferential statistics including measures of central tendency and spread, graphical analysis of data, probability, random sampling, correlation and regression, hypothesis testing and confidence intervals. Practical applications are emphasized throughout the course. A significant part of the course is taught in a laboratory setting using a software package such as Minitab. College credits are awarded thru JCC if students pass the JCC placement test.

MUSIC OFFERINGS

Mixed Choir

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.00

Recommended Grade level: 9-12

Prerequisite: None

Mixed Choir functions as a performing outlet for the vocal students as singing is the universal form of musical expression. Group singing helps give students an opportunity to convey emotions and interpret feelings and sensitivities, one of the few places in the high school setting that provides this type of activity. A wide variety of works will be sung in order to acquaint students with various types of choral literature and to develop concepts and performance skills associated with varying musical content, structure and styles. The class will include sight-reading choral/vocal technique, and ear-training. Full participation in all performances is required. Students may participate in choir for four full years and are encouraged to do so. This class fulfills the NYS requirement for one unit of art/music. Performances are required.

Jazz Band

Course Length: 40 weeks
 Credits: 1.0
 Weight Factor: 1.00

Recommended Grade Level: 9-12
 Prerequisite: Basic understanding
 and skills on musical instrument.
 This is a small group whose members
 need to be enrolled in Band.

Valid performance experiences are provided which assist the individual to understand and appreciate jazz and other popular music; help the student apply jazz principles to musical performance. Performances are required.

JCC 1570 Music Theory

Course Length: 40 weeks
 Credits: 1.0
 Weight Factor: 1.04

Recommended Grade Level: 11-12
 Prerequisite: Knowledge of Music
 Rudiments and minimum 2 years HS
 Ensemble experience

This first semester course includes aural and written theory spread over a 40-week time span allowing students to gain mystery. Music Theory provides an opportunity for music students to develop a sense of musical values and the necessary skills for effective musical expression. The course deals with the elements of musical structure including music reading, harmony, sight-singing, music analysis, writing, ear training and synthesizing these skills through study of music.

Students must pass a state proficiency examination in Music Theory to earn course credit. This course fulfills the one-year NYS requirement in art/music.

Select Chorus

Course Length: 20 or 40 weeks
 Credits: .50 or 1.0
 Weight Factor: 1.02

Recommended Grade Level: 9-12
 Prerequisite: Participation in High
 School Chorus – By audition only

High School Select Chorus is a higher level performance group that is open to students in grades 9-12 by audition only. The class has between 15-20 students who demonstrate a high level of proficiency in vocal performance. The group performs formally at two concerts and from five to eight times per year in the community. This group is designed to be the showpiece vocal performance group of the high school.

History of Rock 'n Roll Music: 1950-Present

Course Length: 40 weeks
 Credits: 1.0
 Weight Factor: 1.02

Grade Level: 10-12
 Prerequisite: None

This course covers the history of music from 1950 to the present including but not limited to rock, jazz, theatre and modern classics. The class is open to all students in grades 10-12 with no pre-requisite class. Preference is given to upper classmen. An open mind to different music within the genre is expected. There is written work as well as listening and watching videos.

History of Music

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.02

Grade Level: 10-12
Prerequisite: None

This course will explore the music throughout the history of the United States as it evolves and changes with our changing society and history. We will explore how changes in our country influences our music. This class will closely tie in with US History class curriculum.

Band

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.00

Recommended Grade Level: 9-12
Prerequisite: Basic understanding and skills on a band instrument.

The school band program affords students a wide choice of instruments and a wealth of musical literature to study. This kind of performing organization provides a group activity in which pupils learn how to work cooperatively with one another and derive genuine esthetic growth. The instructional program consists of sectional rehearsals, instruction of individual members, small ensemble playing, full ensemble rehearsals, and a wide variety of marching and concert performances. Performances are required.

PHYSICAL EDUCATION OFFERING

Physical Education

Course Length: 40 weeks
(every other day)
Credits: .50
Weight Factor: 1.00

Grade Level: 9-12
Prerequisite: Successful completion of Physical Education in Grade 8

The aim of Physical Education is to give the student the opportunity for optimum physical, mental and social development through experiences which are primarily physical in nature. Hopefully they will develop a positive value system regarding personal fitness and lifetime activity. Students earn 1/2 credit per year of Physical Education credit. Every student must complete 2 credits of Physical Education to meet graduation requirements. There is also an adaptive Physical Education class available for students in need of modifications and/or accommodations.

SCIENCE OFFERINGS

Regents Earth Science (Physical Setting)

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.04

Recommended Grade Level: 10

Prerequisite: The living environment

This course is recommended for above average 10th grade students, and for other high school students who have not had the proper mathematical background for either Chemistry or Physics. The five areas of investigation in Regents Earth Science are the processes of change, the earth model, the earth's energy budget, the rock cycle, and the history of the earth. It follows the State syllabus for Earth Science and the national Earth Science curriculum.

Regents Biology (Living Environment)

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.04

Recommended Grade Level: 9

The Regents Biology course gives the students a broad outlook on the world of living things and their interactions with the nonliving. The student gains an understanding of the major biological principles and concepts of life and living things. The areas studied are human physiology, modern genetics, cell biology, reproduction, evolution and ecology.

Science Enrichment

Course Length: 40 weeks

Credits: .50

Weight Factor: 1.02

Recommended Grade Level: 9

This enrichment course is designed to assist students in acquiring the skills necessary to pass the Biology Regents Exam.

Science Proficiency Development

Course Length: 40 weeks

Credits: .50

Weight Factor: 1.02

Recommended Grade Level: 10-12

This enrichment course is designed to assist students who have already taken the biology exam acquire the skills necessary to pass the regents exam.

JCC CHE 1500 Introduction to Chemistry

Course Length: 40 weeks

Recommended Grade Level: 11-12

Credits: 1.0

Prerequisite: JCC Placement Test

Weight Factor: 1.10

Students will investigate fundamental concepts of chemistry from a theoretical approach using basic scientific tools of measurement and problem solving. Topics include atomic structure, nomenclature, bonding, periodic behavior, chemical equations, acids and bases, gases, liquids, solids, and properties of solutions. The course is for students with little or no chemistry background and/or who wish to continue in CHE 1550. Eligibility – Writing Score 4+; Corequisites: MAT 0600 or MAT 1500; Reading Score: 80+.

JCC BIO 1510 Health Sciences

Course Length: 40 weeks

Recommended Grade Level: 11-12

Credits: 1.0

Prerequisite: JCC Placement Test

Weight Factor: 1.10

Students will investigate a variety of health-related topics, many of which are useful in planning a healthier lifestyle. Topics include stress, mental health, nutrition, human sexuality and reproduction, birth control, sexually transmitted and other diseases, cardiovascular health, cancer, drugs (including alcohol), and environmental health. Eligibility – Reading Score 70+. Class can count as either science or health credit.

Health

Course Length: 20 weeks

Grade Level: 9-12

Credits: 1.00

Prerequisites: None

Weight Factor: 1.00

This course discusses such topics as drug and substance abuse. AIDS, communicable diseases, mental health and first aid. All students must earn .50 unit of health to graduate. The state mandated curriculum in parenting is a major portion of this course.

JCC BIO 1520/1420/1560 Biology of Birds, Insects & Mammals

Course Length: 40 weeks

Recommended Grade Level: 11-12

Credits: 1.0

Prerequisite: JCC Placement Test

Weight Factor: 1.10

In this introduction to birds, one of the most colorful and popular groups of animals on planet, students will learn about basic anatomy and physiology, evolutionary history, classification and identification by sight and song, behavior, and ecological importance. Outdoor fieldwork is included.

This course studies insects, the most abundant and diverse group of animals on our planet. Students will learn about basic anatomy and physiology, evolutionary history,

classification and identification, behavior, and ecological and economic importance. Field trips and a small insect collection are required. Outdoor fieldwork included.

This course studies mammals, the group considered to be the peak of animal evolution. Students will learn about physiology, evolutionary history, classification and identification, behavior, and ecological importance. Outdoor fieldwork included.
Eligibility - Writing Score: 4+; Reading Score: 80+

JCC BIO 1575 Biology: A Molecular Approach (BAMA)

Course Length: 40 weeks

Recommended Grade Level: 11-12

Credits: 1.0

Prerequisite: JCC Placement Test

Weight Factor: 1.10

Students will understand how science is actually performed, with a special emphasis on the interdisciplinary nature of science. Basic principles of biology will be taught in context of fundamental principles of chemistry and physics to broaden understanding of the natural world. Students will perform research projects that focus on gene expressions/cell biology and ecosystems to reinforce these basic principles. Additionally, through their authentic applications of scientific method, students will learn basic skills like laboratory relevant math, reagent preparation, lab notebook keeping skills, pipeting and micropipeting skills, etc. Eligibility – Reading Score 80+

Everyday Chemistry (Physical Setting)

Course Length: 40 weeks

Recommended Grade Level: 10-12

Credits: 1.0

Prerequisites: Completion of Biology or

Weight Factor: 1.04

Earth Science and Algebra Class

Everyday Chemistry is a practical, non-quantitative chemistry course designed for students who desire an understanding of everyday chemical concepts and applications. There is no lab attached to this class.

Regents Chemistry (Physical Setting)

Course Length: 40 weeks

Recommended Grade Level: 10-12

Credits: 1.0

Prerequisites: Pass 1 Regents Exam

Weight Factor: 1.06

in Science and Math

This course is recommended for students who passed at least 1 Regents exam in science and 1 in math. It presents a modern view of Chemistry suitable for pupils with a wide range of abilities and interests. It is predominantly theory, requiring a good mathematical background in Algebra. It follows the State Syllabus for Chemistry and the National Syllabus for Chemistry studies. The course includes the following topics: Matter and Energy, Atomic Structure, Bonding, the Periodic Table, the Mathematics of Chemistry, Kinetics and Equilibrium, Acids and Bases, Redox and Electrochemistry, Organic Chemistry, Application of Chemical Principles and Nuclear Chemistry.

Regents Physics (Physical Setting)

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.08

Recommended Grade Level: 11-12

Prerequisites: Pass 1 Regents Exam
in Science and 1 in Math

This course is open to 11th and 12th grade students who have successfully completed a previous Regents science course and are currently enrolled in Geometry or higher. Regents Physics provides the student with a very structured, modern view of the fundamental concepts of Physics. It is designed to deal with the behavior of matter, but it deals primarily with energy and its manifestations. It follows the State Syllabus for physics. The course is divided into five core areas: Mechanics, Energy, Electricity and Magnetism, Wave Phenomena and Modern Physics. There are also six optional areas: Motion in a Plane, Internal Energy, Electromagnetic Applications, Geometric Optics, Solid State Physics and Nuclear Energy. The core areas and the Optional areas are studied during the course.

Everyday Physics

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.02

Recommended Grade Level: 10-12

Prerequisites: Algebra

An introductory physics course, stressing conceptual understanding rather than math, to understand the natural world around us. From objects as small as atoms, to as large as the universe itself, topics include understanding what makes a curveball curve, how a spiral helps a thrown football, why the earth stays in orbit, how a rollercoaster works, and more!!! A full understanding of algebra is not required; however a basic understanding of equations is needed.

CAT Anatomy

Course Length: 20 weeks

Credits: .50

Weight Factor: 1.06

Recommended Grade Level: 11-12

Prerequisite: Regents credit in
Living Environment

Anatomy reduced to the high school level. The structure of the human body is studied by the dissection of the domesticated cat. One or two periods a week are used to do the actual dissections and the rest is class periods with lecture. A college type of atmosphere is followed in preparation for college classes. Physiology of all of the parts of the cat is studied and compared to the human. In this course all specimens are preserved.

Contemporary Science Issues

Course Length: 20 weeks

Credits: .5

Weight Factor: 1.00

Recommended Grade Level: 9-12

Prerequisite: One regents credit in science

This course presents and discusses new developments and “cutting edge” science. Several projects will be required. Since this is a fundamental course, there is no laboratory requirement.

Field Biology

Course Length: 20 weeks

Credits: .50

Weight Factor: 1.06

Recommended Grade Level: 11-12

Prerequisite: Regents credit in
Living Environment

This is a one semester elective that takes an in-depth look at ecology as well as forest ecosystems, population interactions and energy flow. Students have the chance to identify and learn many local plant and animal species. Much of the course is substantiated by hands on experience either outdoors on site or in the lab.

Earth Science Topics

Course Length: 20 weeks

Credit: .50

Weight Factor: 1.00

Recommended Grade Level: 9-12

Prerequisite: one regents credit in science

This is a one semester elective that will be student driven and project oriented. Topics to be considered include but are not limited to the following: Astronomy, earthquakes and volcanoes, cartography, oceanography, meteorology, national parks, storms, geology of New York State, ground water and water supply.

Introduction to Forensics

Course Length: 20 weeks

Credits: .50

Weight Factor: 1.02

Recommended Grade Level: 10-12

Prerequisite: One Regents credit
In science

This half year course will provide students with a very basic understanding of Forensics and how it is used in criminal cases through the use of published works and lab activities. The class will include units on: general knowledge and skills, evidence collection, crime scene data collection, fingerprint analysis, stages of death and decomposition, ballistics, forensic anthropology and career paths for the forensic field.

SOCIAL STUDIES

Global Studies - Social Studies 9

Course Length: 40 weeks

Credits: 1.0

Wight factor: 1.00

Recommended Grade Level: 9

Prerequisite: Previously passed
Social Studies in Grade 8

This is the first of a two-year course in Global Studies designed to develop perspectives on the Middle East, Africa, South Asia, Southeast Asia and East Asia along with Latin America. Interactions among nations and people will be explored to ascertain how the past influences the present. Upon completion of this course a local school final exam will be given to each student. A passing minimum grade to continue the second year of Global Studies is a 65% overall average.

Global Studies – Social Studies 9 Honors

Course Length: 40 weeks

Credits 1.0

Weight Factor: 1.04

Grade Level: 9

Prerequisites: Teacher recommendation
and successful completion of Social
Studies 8

Global Studies 9 is a required course for all freshmen students. Students in the Global Honors classes will not only study the core curriculum (Pre-history through the 1700s), but work on additional analysis, communication, and writing skills. This course is designed for college entrance students and students who excel in History.

Global Studies - Social Studies 10

Course Length: 40 weeks

Credits: 1.0

Weight Factor: 1.02

Recommended Grade Level: 10
(Regents, Honors)Prerequisite: Previously passed
Social Studies 9Global Studies with a minimum 65%
overall average

This is the second part of a two-year course in Global Studies. Areas of study include: Western Europe, Eastern Europe, Russia and the world today. A state Regents exam or the Regents competency exam on Global Studies covering the two years will be the final activity for all students. Required for graduation. Such students must receive a minimum 65% on that exam and a 65% overall average.

Global Studies Enrichment

Course Length: 40 weeks

Credits 1.0

Weight Factor: 1.00

Grade Level: 10

Prerequisites: Teacher recommendation

This course is designed for 10th grade students who are currently enrolled in their second year of global history and benefit from skill acquisition in order to pass the Regents Global Exam.

Global Studies – Social Studies 10 Honors

Course Length: 40 weeks

Credits 1.0

Weight Factor: 1.06

Grade Level: 10

Prerequisites: Teacher recommendation

Global Studies 10 is a required course for all sophomore students. Students in the Global Honors classes will not only study the core curriculum (1700s through modern times), but work on additional analysis, communication, and writing skills. This course is designed for college entrance students and students who excel in History.

United States History & Government

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.02

Recommended Grade Level: 11
(Regents, Honors)
Prerequisites: Previously passed the two-year Global Studies course meeting the NYS requirements and local requirements

A chronological study of American History and a comprehensive study of the evolution of our Constitution and Federal system of government will be studied. American History will be reviewed from Colonization through the present. Constitutional and legal issues will be explored in depth as well as the problems we presently are encountering in an increasingly complex and technological world. Students who desire a Regents diploma will be required to take the state Regents exam in United States History and Government. Such students must receive a minimum 65% on that exam and a 65% overall average.

JCC American History

Course Length: 40 weeks
Credit: 1.00
Weight Factor: 1.10

Recommended Grade Level: 11
Recommended Prerequisites: Average in Social Studies 10 in high 90's and 90% or better on Social Studies 10 Regents Examination

This course is designed to be the equivalent of a college course in American History. An in depth study of our country from colonial time to the present is included in the curriculum. This course is highly accelerated and is for the highly motivated student. The course requires a great deal of reading and class participation. Students must take the Regents examination and will also be awarded JCC credit, 3 credits per semester.

JCC World History

Course Length: 40 weeks
Credit: 1.00
Weight Factor: 1.10

Recommended Grade Level: 11-12
Recommended Prerequisites: Average in Social Studies 10 in high 90's and 90% or better on Global exam

Students will examine the foundations of major cultures of the world from the beginning of recorded history to the modern age, including the ancient civilizations to Medieval European society, to the meeting of east and west, to the shaping of the modern age and its legacy for the world today. The factual and interpretive content of this course will emphasize the comparisons of the historical developments and the diffusions of the world's major cultures amid increasing global interconnection. There is *no* standardized test. Passing grades earn college credit.

Economics/Participation in Government

Course Length: 40 weeks

Recommended Grade Level: 12

Credits: .50 credit-Economics
.50 credit-Government
Weight Factor: 1.02

(Basic, Regular, Honors)
Prerequisites: Previously completed
and passed Global Studies, U.S.
History & Government meeting
state and local requirements

A one-semester or one-half year study of basic economic concepts such as supply and demand, opportunity cost, scarcity and competition. Also a study of other economic systems will be included. This course is 20 weeks and a final activity is a local school prepared Economics exam. Passing overall average is 65% to receive .5 credit.

A one-semester or one-half year study of the interaction between citizens and government at all levels: local, state, national will be reviewed. Participation in Government will encourage students to understand, and encourage them to participate in the democratic process. A local school exam or project will be required. An overall passing average is 65% to receive .5 credit.

Each course is required for graduation.

Global Studies Proficiency Development

Course Length: 40 weeks
Credits 1.0
Weight Factor: 1.00

Grade Level: 11-12
Prerequisites: Global history exam failure

This course is designed for students who have taken but not passed the global history exam. This course will assist students in acquiring the skills necessary to pass the global history exam.

U.S. History Proficiency Development

Course Length: 40 weeks
Credits 1.0
Weight Factor: 1.00

Grade Level: 12
Prerequisites: US history exam failure

This course is designed for students who have taken but not passed the US History exam. This course will assist students in acquiring the skills necessary to pass the US History exam.

JCC EDU 1510 Foundations of Education

Course Length: 40 weeks
Credits 1.0
Weight Factor: 1.06

Grade Level: 12
Prerequisites:

Students will be provided with information and experiences that will be helpful in deciding whether or not a career in education seems to be an appropriate choice. This course explores the philosophical and socio-cultural roots of education. Students will also examine the political, economic, legal, and ethical basis of American education. Contemporary issues facing education will be examined within the context of teachers, students, schools, and curriculum. Students will also complete a 20 hour internship in a local school.

TECHNOLOGY OFFERINGS

***World of Technology and Principles of Engineering may be used in place of a third math or science credit, but not both. **Drawing and Design for Production I & II can be used for the art/music requirement.**

Drawing and Design for Production I

Course Length: 20 weeks

Credits: .5

Weight Factor: 1.02

Recommended Grade Level: 9-12

Prerequisite: Good Math Background

This course is an introduction to drawing and CAD. Drawing is the oldest type of written expression and it is universally understood all over the world. In this course students can expect to be given an objective and a list of guidelines along with a set of materials and are expected to build a fully functional product. This course can be seen as an introduction to engineering and design.

Drawing and Design for Production II

Course Length: 20 weeks

Credits: .50

Weight Factor: 1.02

Recommended Grade Level: 9-12

Prerequisites: Tech Drawing and Middle School Technology Unit

This advanced course deals with designs and projects on a larger scale than Design and Drawing for Production I. Students will produce vehicles such as hovercrafts and gliders. Students will be required to sketch, draft, and produce products based on a production schedule. This course will fine tune a student's Math and Science skills because it takes a practical approach to problem solving.

TV Productions I

Course Length: 20 weeks
Credits: .50
Weight Factor: 1.02

Recommended Grade Level: 9-12
Prerequisite: Communication Systems I,II

This course will use digital video equipment and special software to produce multimedia productions with professional appeal. The course will incorporate guest speakers and possible internship opportunities with companies such as Local Access 12 and Time Warner. Special attention will be paid to censorship and learning how to properly use a TV Studio.

TV Productions II

Course Length: 20 weeks
Credits: .50
Weight Factor: 1.02

Recommended Grade Level: 9-12
Prerequisite: TV Productions I

This course is a continuation of TV Productions I where the digital projects are more complex and creative. We will explore careers in production and broadcast journalism along with learning the history of TV and the high definition revolution. Continued time will be spent in the TV studio perfecting interviews and news broadcasts.

Industrial Arts/Power Mechanics

Course Length: 20 weeks
Credits: 0.50
Weight Factor: 1.02

Recommended Grade Level: 9-12
Prerequisite: None

This one-semester course is designed to teach the principles of the internal combustion engine and to provide opportunity for students to determine their interests and aptitude for careers in small engine mechanics. Students will learn proper maintenance and repair procedures by actually servicing and repairing an engine brought to class.

Industrial Arts/Home Maintenance

Course Length: 20 weeks
Credits: 0.50
Weight Factor: 1.02

Recommended Grade Level: 9-12
Prerequisite: None

This course provides students with an opportunity to explore the many different areas in construction that relate to home maintenance and repair. Students will develop advanced problem-solving skills as they relate to home repair and essential life skills that will help make them self-reliant in maintaining or updating a residential structure. Students will also learn and practice many different home repair procedures and techniques including: plumbing, electrical, drywall work, tiling, etc. This course will be presented from a hands-on approach.

Robotics

Course Length: 40 weeks
Credits: 1.0
Weight Factor: 1.04

Recommended Grade Level: 10-12
Prerequisite: Math 102 or Math I

This is a beginning course in robotics. We will be utilizing Lego Mindstorm kits, Robolab software and various Lego Robotics materials. The objective of this course is to introduce the student to basic programming as well as problem solving strategies. This course will involve students in the development, building and programming of a LEGO Mindstorm robot. Students will work hands-on in teams to design, build, program and document their progress

Communication Systems I

Course Length: 20 weeks

Recommended Grade Level: 9-12

Credits: .50
Weight Factor: 1.02

Prerequisite: None

This is an introductory course in communications for students who might be interested in multimedia production or digital photography. It includes photography, broadcasting, reporting, camera operator, television and radio productions, journalism, newspaper printing, pod casting, and a wide variety of multimedia experiences.

Communication Systems II

Course Length: 20 weeks
Credits: .50
Weight Factor: 1.02

Recommended Grade Level: 9-12
Prerequisite: Communication System I

This course builds off of the Communication Systems I course. In this course, we will explore computer graphics, computer animation, design computer games and web pages, and employment trends for future careers in the communication field.

Advanced Communication Systems

Class Length: 40 weeks
Credit: 1.0
Weigh Factor: 1.04

Recommended Grade Level: 11-12
Prerequisites: Communication
Systems I, II

This class will use the computers, digital cameras, video cameras and special software to produce multimedia presentations with a more professional appeal. Students will apply what they have learned in Communication Systems I & II (Computer Graphics/Photography). The course will incorporate field trips, guest speakers, and possible internship opportunities with area communication companies, such as DFT Communications, Time Warner Communication, Satlink, Access 12, double click technologies, and more.

JCC College Connections Courses

ENR 1560 Introduction to Engineering & Engineering Design

Class Length: 40 weeks

Recommended Grade Level: 11-12

Credit: 1.0

Prerequisites: JCC Placement Test

Weight Factor: 1.04

This course provides a first experience for students choosing an engineering career and is divided into three segments. Part one covers the engineering design process.

Part two introduces the student to computer aided design. Part three introduces the student to the engineering fields and advances in high technology. Field trips and speakers are used to help the student select a major field and a transfer institution.

MCT 1240 Engineering Drawing With AutoCAD

Class Length: 40 weeks

Recommended Grade Level: 10-12

Credit: 1.0

Prerequisites: JCC Placement Test

Weight Factor: 1.04

Students will focus on engineering drawing fundamentals, incorporating both manual and computer-aided drafting. Topics include freehand sketching, principles of applied geometry, orthographic projections, dimensioning, section views, pictorials, conventional drawing practices, standards, tolerance, and an introduction to 2-D wire frame software such as AutoCAD. Students will create and modify CAD geometry, text, and dimensions.

MCT 1270 Machine Theory and Operations

Class Length: 40 weeks

Recommended Grade Level: 10-12

Credit: 1.0

Prerequisites: JCC Placement Test

Weight Factor: 1.04

Students will learn the function and operation of basic chip producing machine tools such as lathes, drill, milling machines, saws, and grinders.

WLD 1200 Safety and Cutting Processes

Course Length: 40 weeks

Recommended Grade Level: 10-12

Credits: 1.00

Prerequisite: JCC Placement Test

Weight Factor: 1.04

This course introduces oxy-fuel and plasma-arc cutting systems. Topics include an intensive introduction to welding safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thicknesses as well as have an appropriate understanding of welding safety.

