



TAMARAC HIGH SCHOOL

COURSE SELECTION GUIDE



Tamarac High School
Counseling Center
2011-2012

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BRUNSWICK CENTRAL SCHOOLS
BRITTONKILL

Dear Students,

This curriculum guide is for you to use as a reference when deciding on your course of studies. As you will note, the high school offers you a wide range of course selections. We advise you to challenge yourself and take advantage of the many opportunities available to you at Tamarac High School.

Please involve your parents, teachers and your school counselors in these important decisions. Use this guide as a tool to make sure that you are meeting all requirements for a diploma in New York State.

It is our wish that your high school experience be fulfilling, challenging, rewarding and enjoyable.

The High School Counseling Center

TAMARAC HIGH SCHOOL

COUNSELORS

Mrs. Patricia Maloney

Mrs. Marie Taglione

COUNSELING CENTER SERVICES

1. PERSONAL:

- Academic Counseling: Course selection and planning
- Encourage academic excellence and achievement
- Individual and group counseling
- Crisis intervention and referrals
- Liaison with parents, teachers and students
- Vocational and College Planning

2. INFORMATIONAL:

- Career/College Planning/Reference Library
- Counseling Center Web Site
- Counseling Center Newsletter
- Exploring College and Careers Booklet
- The Road to College and Career Planning Booklet
- Student Resource Center
- Financial Aid Session
- Scholarship/ Financial Aid Resources
- Armed Services Day
- College Admissions Visitations
- College Caravan
- College Instant Admit Days
- Referrals to outside agencies and services

HIGH SCHOOL GRADUATION REQUIREMENTS

DIPLOMA REQUIREMENTS INCLUDE:

1. Completion of the following specific minimum course requirements:

- English 4 units
- Social Studies 4 units
- Mathematics 3 units
- Science 3 units
- Fine Art 1 unit
- Foreign Language 2 units*
- Health Education 1/2 unit
- Physical Education (1/2 unit each year) 2 units

Course must be taken each semester while attending high school, per state guidelines.

* Students must complete two years of seat time in a **Language Other Than English** (LOTE) by the end of 9th grade. They must also either pass the state LOTE final exam by the end of 8th grade or pass a high school LOTE course.

2. Completion of a minimum of 22 units of credit.

3. ADDITIONAL TESTING REQUIREMENTS Successful completion of the following Regents Examinations:

<u>Regents Diploma</u>	<u>Regents Diploma with Advanced Designation</u>
Comprehensive English Integrated Algebra I Regents Science Global History & Geography U.S. History & Government	Comprehensive English Integrated Algebra + Geometry + Algebra 2/Trig 2 Regents Science Global History & Geography U.S. History & Government Foreign Language

* Students entering grade 9 prior to September 2005 and students with disabilities may earn a local diploma by completing credit requirements and receiving a grade of 55-64 on 5 required Regents Exams.

4. Academic Intervention Services (AIS)

Students may be required to receive additional instruction that supplements regular classroom instruction or support services to address barriers to improve academic performance, as they are identified through various assessments.

5. Special Education

While all students are required to meet the high school graduation requirements, some also need individualized supports to assist them in meeting these requirements. Whenever possible, these supports are provided within the regular education classes, but, at times, will be provided in stand alone classes that teach specific skills. Placement in stand alone special education classes is made through the Committee on Special Education.

EXTRA-CURRICULAR ACTIVITIES

Best Buddies Club

Biology Club

Book Club

Class Councils

Drama Club

Fitness Club

Key Club

Masterminds

National Junior Honor Society

National Honor Society

Students Against Destructive Decisions

Ski Club

Student Senate

Yearbook

ATHLETICS

Baseball

Basketball

Cheerleading

Cross Country

Football

Golf

Soccer

Softball

Track

Volleyball

Wrestling

If you are interested in participating in any of the above, see your orientation packet, watch the bulletin boards, listen to the morning announcements or see your coach.

Participation in extra-curricular activities is a privilege. In order to participate in any extra-curricular activity or sport, students must be academically eligible. Students are academically ineligible if they receive 2 or more failing grades during the marking period or interim period.



BUSINESS



BUSINESS LAW: This course will concentrate on contracts and agreements, consumer protection laws, insurance, minors and employment laws. Issues involving criminal law, juvenile justice and the court system will also be discussed.

Grade Level: 10-12 (1/2 unit)

PERSONAL COMPUTER CONCEPTS & APPLICATIONS I:

This course provides both a practical and conceptual background in microcomputer use. Students receive hands-on experience while learning the latest in graphical interface technology and how it interacts with Word Processing, Spreadsheets, Database Management, Presentation Graphics and the Internet. Microsoft Windows and Windows Applications are the software products used. Lab time outside of class may be required. Students in this course have the opportunity to earn 3 college credits from HVCC for a fee.

Grade Level: 10-12 (1/2 unit)

PERSONAL COMPUTER CONCEPTS & APPLICATIONS II:

This course is a continuation of Personal Computer Concepts & Applications I. Students will use more advanced features of Word Processing, Spreadsheets, Database, Presentation Graphics and Internet applications. Lab time outside of class may be required. Students in the course have the opportunity to earn 3 college credits from HVCC for a fee.

Grade Level: 10-12 (1/2 unit)

BUSINESS CONCEPTS & APPLICATIONS: This course addresses the issues of business in the 21st century. Topics include Marketing, Finance, Management and Legal and Ethical issues. Students will create a business plan for a sole proprietorship or partnership. Students will learn the importance of professionalism in business. Students in this course have the opportunity to earn 3 college credits from HVCC for a fee.

Grade Level: 10-12 (1/2 Unit)

BUSINESS COMMUNICATIONS: This course addresses written, verbal and non-verbal communications applied in the business world. Design of business forms and graphic aids, resume preparation, listening skills, interview techniques and oral presentations will be reviewed. Students in this course have the opportunity to earn 3 college credits from HVCC for a fee.

Grade Level: 10-12 (1/2 Unit)

PRINCIPLES OF MARKETING: This course will discuss Marketing functions: Advertising, Transportation, Storage, Channels of Distribution, Pricing and Packaging. Types of middlemen and methods of buying, selling and pricing will be included. Students have the opportunity to earn 3 college credits from HVCC for a fee.

Grade Level: 11-12 (1/2 Unit)

DESKTOP PUBLISHING: Using MS Publisher, the student will design and produce professional quality documents by using text, graphics, illustrations, and photos. With the use of the additional desktop publishing tools like design templates, graphic manipulation tools, color schemes, and wizards, the student will create, edit, and modify newsletters, brochures, merged documents, clip art, plus others.

Grade Level: 10-12 (1/2 Unit)

WEB PAGE DESIGN AND MANAGEMENT: This course provides both a practical and conceptual introduction to the basic components of the World Wide Web, HTML and Web Page design. Students will create web pages while learning design and techniques for graphics and images. Lab time outside of class may be required.

Grade Level: 11-12 (1/2 Unit)



ENGLISH

ENGLISH 9 R: A comprehensive study of all phases of the English language arts. The novel, short story, poetry, basic grammatical concepts, sentence structure, vocabulary development and spelling improvement will all be considered. Specific emphasis in each class will be subject to the needs of the students enrolled.

Honors Enrichment will be offered. (1 Unit)

ENGLISH 10 R: An in-depth study of American Literature concentrating on major American writers, the ideas they are expressing, and their relationship to trends in literature. Writing is stressed not only from a grammatical standpoint but also from a stylistic standpoint. Book analyses are assigned where major themes are examined.

Honors Enrichment will be offered. (1 Unit)

ENGLISH 11 R: In this course students will be exposed to a wide range of authors and ideas. An important goal of this course is to help students recognize the importance of reading, writing and thinking critically and analytically. Students will read a variety of novels, plays, poems, short stories and essays. There is a strong emphasis on writing, particularly on developing and supporting ideas. Students also prepare to take the Comprehensive Regents Examination in English.

(1 Unit)

CREATIVE WRITING: This course stresses the enjoyment and satisfaction that can come from self-expression in writing. Each student will be given individual help in writing description, a personal narrative, a short story, poetry, and a one act play. Select this course if you like to learn by doing.

Grade Level: 12 (1/2 Unit)

PUBLIC SPEAKING AND COMMUNICATIONS: The goal of the course is to give **you** confidence and poise while speaking with others. Techniques such as eye contact, voice control, and mannerisms will be looked at. Topics chosen for speeches are not only interesting, but fun to work with. Situations will call for impromptu speeches, role playing, demonstration speeches and a personal experience speech. Students returning from college have mentioned the benefits received from taking the course, due to the oral reports they have had to give in college. This course also benefits those going directly into the work environment. So take advantage of this course, and enjoy speaking in front of others. It can be fun.

Grade Level: 12 (1/2 Unit)

MYTHOLOGY AND FOLKLORE: This will be a survey course of short stories, plays, novels, and poetry in the mythology and folklore genres. A selection of authors might include: W.B. Yeats, Homer, T.H. White, Mark Twain, T.S. Eliot, James Joyce, and Anton Chekhov.

Grade Level: 12 (1/2 Unit)

SHAKESPEARE: This is a half-year course focusing on Shakespeare as a vibrant, working artist who needed to entertain audiences in order to keep them coming to the Globe Theatre. Consequently, the curriculum covers Shakespearean comedies and histories, as well as the more familiar (at least to high school students) tragedies. The course includes a study of Shakespeare's life and times in order to place his work in historical context. In addition to reading plays, students will view filmed performances of Shakespearean works.

Grade Level: 12 (1/2 Unit)

COLLEGE ENGLISH 121: This is a full-year course for students who wish to challenge themselves their senior year by taking a college-credit bearing English class. The course is taught under the University in the High School program through the University at Albany. It is a college class wherein successful students will earn three college credits, as well as high school credit toward graduation. The purpose of the course is to bridge the gap between being a high school senior and a college freshman. There are extensive reading and writing requirements for this class, as with any college English program. Students who take the class will register with the university and will receive a SUNY transcript. There is a fee for the college credit.

Grade Level: 12 (1 Unit)

DETECTIVE FICTION: Detective Fiction is a half-year English elective that explores the rich history and dynamic nature of this literary genre. In addition to studying the origins of mystery writing, students will read short stories and novels covering the British and American traditions in the genre. The course will focus on the history and development of the detective as an archetypal hero in both traditions. Students will also examine the diverse offerings of modern writers in one of the most popular and widely read literary forms in the world.

Grade Level: 12 (1/2 Unit)

CHILDREN'S LITERATURE: Have you ever wondered why some young children love books and some hate them? Whether and how they are read to, makes a big difference. This course is designed to help students prepare to help their own future children to learn to enjoy reading. Students will learn to decipher the meanings behind fairy tales and nursery rhymes, and to evaluate the quality of a variety of current books aimed at children 1 to 13 years of age. Students will practice effective oral reading and write their own stories for young children. A major research paper will be required.

Grade Level: 12 (1/2 Unit)

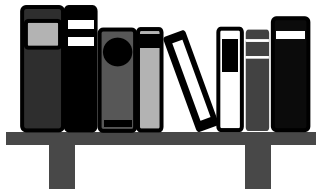
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ENGLISH (Cont.)

INDIVIDUALIZED READING: This course is designed specifically for self-motivated students who like to work independently. Students who choose this course must like to read. The course is designed so a student can work at his/her own pace, but with deadlines. Students contract the level of course work for their desired numerical grade. A student then at his/her own pace fulfills the obligations of the contract. Students write papers and lead discussions about novels they have read.

Grade Level: 12

(1/2 Unit)



TELEVISION JOURNALISM: This course will instruct students in both the TV production and journalism skills used in producing the news format through which most Americans receive information about the world around them. Students will write, videotape, edit, and produce a professional-level bi-weekly television news magazine that will be the official news source of the Tamarac community. Students in television journalism will be responsible for every facet of producing a quality news program: cover stories as reporters and videographers, gain experience before and behind the camera, and handle post-production editing duties in the control room. The course will provide students with an array of potentially marketable skills and a very solid foundation to pursue further education in the TV broadcast profession, journalism, or communications.

Grade Level: 12 - English Credit (1 Unit)

Grade Level: 11 - Elective Credit (1 Unit)

Prerequisite: Completion of TV Broadcast Media with at least an 80% final average or permission of both instructors.

FOREIGN LANGUAGES

In order to receive a high school diploma, students must complete a minimum of two years of foreign language study, plus successfully complete the final examination.

SPANISH 1: The beginning of language study involves the learning of basic language patterns. Listening with comprehension, speaking with acceptable pronunciation, reading and writing skills are developed. Cultural appreciation is stressed.

Grade Level: 7-12

(1 Unit)

SPANISH 2: The second year of language study involves further development of the skills taught in level one. At this level, additional time is spent developing reading and writing skills.

Grade Level: 9-12

(1 Unit)

SPANISH 3: The third level course assures proficiency in comprehension, reading, speaking and writing Spanish. The final examination is the Spanish Regents examination.

Grade Level: 10-12

(1 Unit)

SPANISH 4: The fourth level course of advanced Spanish. Students will become acquainted with Spanish literature and history. Students will become proficient in oral and written Spanish. This course is available through SUNY Albany for four college credits for a fee.

Grade Level: 11-12

(1 Unit)

SPANISH 5: The fifth level of advanced Spanish. Students will perfect their language skills through the study of Spanish on the college level. This course is available through SUNY Albany for three college credits for a fee.

Grade Level: 12

(1 Unit)

FRENCH 1: The primary goal of the first year is to lay a firm foundation in the four language skills: listening comprehension, reading, writing and speaking. This is achieved through mastery of the phonetic system, learning the fundamental structures of the French language and acquiring a basic vocabulary of the most commonly used words. Cultural appreciation is also stressed.

Grade Level: 7-12

(1 Unit)

FRENCH 2: The second year of study is designed to further develop each of the skills begun in level one and to promote a better understanding of the culture of the French people.

Grade Level: 9-12

(1 Unit)

FRENCH 3: This course is conducted primarily in French and trains students to communicate ideas on a more advanced level in French. Weekly assignments include auditory and reading dialogs, reading comprehension passages and a written composition. Students are required to take the Regents examination in June.

Grade Level: 10-12

(1 Unit)

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FOREIGN LANGUAGES (Cont.)

FRENCH 4: This is the advanced study of French. French literature will be introduced in the context of French history and civilization. There will also be a review of difficult grammar points. A great deal of oral work will be geared toward improving oral skills. This course is available through SUNY Albany for four college credits for a fee.

Grade Level: 11-12 (1 Unit)

FRENCH 5: This is an advanced course in French language and literature. Students receive a deeper appreciation of French history and civilization, together with advanced grammar study and writing. This course is available through SUNY Albany for four college credits for a fee.

Grade Level: 12 (1 Unit)

RUSSIAN 1: Students in the first year of Russian learn to read and write the Russian alphabet, study the basic structures of the Russian language and become familiar with the basic vocabulary of the Russian language. Cultural activities familiarize students with the life and culture of the Russian people.

Grade Level: 7-12 (1 Unit)

RUSSIAN 2: This is a continuation of first year Russian. The ability to communicate orally will be stressed. We will cover the major part of the grammar. The class will begin to write simple compositions. Our goal is to use Russian as actively as possible.

Grade Level: 9-12 (1 Unit)

RUSSIAN 3: This course is the completion of a Regents sequence in Russian. Students will improve all their language skills in preparation for the Regents examination in June.

Grade Level: 10-12 (1 Unit)

RUSSIAN 4: This course concentrates on perfecting all language skills. Students will become acquainted with Russian literature, history and other aspects of Russian culture. Grammar will be reviewed and there will be regular writing assignments. This course is available through SUNY Albany for five college credits for a fee.

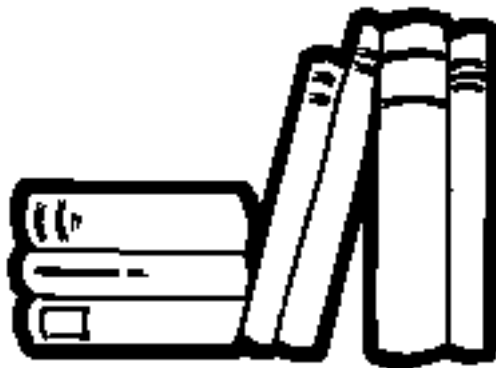
Grade Level: 11-12 (1 Unit)

RUSSIAN 5: This is an advanced course in Russian language and literature. Students receive a thorough preparation for advanced college-level Russian as well as a deeper appreciation of Russian literature and culture. This course is available through SUNY Albany for five college credits for a fee.

Grade Level: 12 (1 Unit)

LATIN ROOTS: This is a half-year course aimed at improving vocabulary in English through a knowledge of Latin roots and prefixes. This course is recommended for those wishing to enrich their knowledge of English and to improve their performance on standardized verbal tests.

Grade Level: 11-12 (1/2 Unit)



HEALTH EDUCATION

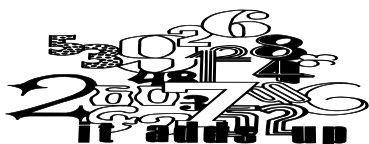
HEALTH EDUCATION: An intense study of physical, mental and social well-being. Emphasis will be placed on today's pertinent health concerns, such as values clarification, drug education and family life education. This is the required health curriculum for N.Y.S. graduation.

Grade Level: 10-12 (1/2 Unit)

HUMANITIES

INTRODUCTION TO PHILOSOPHY: Philosophy is the love and pursuit of wisdom. In this class, students all submit an urgent, burning question of their own. Every Friday, a question is chosen by chance. Classes are devoted to hearing student research and discussion and taking notes on what the students, the teacher and the occasional guest have to say. Every Thursday the students submit a one page typed paper addressing the week's question. We make a book of our papers, conduct a philosophy forum at year's end, watch a movie, do yoga, engage in silent meditation and even go on a field trip to the Grafton Peace Pagoda.

Grade Level: 10-12 (1/2 Unit)



MATHEMATICS

INTEGRATED ALGEBRA: Topics include number sense, monomials and polynomials, irrational numbers, algebraic fractions, systems of equations, quadratics, triangles, coordinate geometry, functions, geometry, measurement, probability, and statistics. The Integrated Algebra Regents exam will be given in June.

Prerequisite: Recommendation of 8th grade teacher. (1 Unit)

Equipment needed: T1- 83 Plus or T1- 84 Plus Graphing Calculator

GEOMETRY: Topics include geometric relationships, constructions, locus, informal and formal proofs, transformational geometry and coordinate geometry. The Geometry Regents exam will be given in June.

Prerequisites: Mastery Level on the Integrated Algebra Regents and/or recommendation of Algebra teacher.

Equipment needed: T1 - 83 Plus or T1 - 84 Plus Graphing Calculator (1 Unit)

An accelerated course in GEOMETRY X will be offered for students successfully completing Algebra X.

(1 Unit)

MATH 10: This course is for students wishing to study geometry, but who are not seeking a Regents with Advanced Designation Diploma. Topics include geometric relationships, constructions, locus, transformational geometry and coordinate geometry. A school final will be given in June.

Prerequisites: Passing Integrated Algebra

Equipment needed: Scientific Calculator (1 Unit)

ALGEBRA 2/TRIGONOMETRY: This course is the third in the new NYS high school mathematics sequence. Topics of study include Radicals, Irrational Numbers and Absolute Value, Relations and Functions, Rational Expressions and Equations, Quadratic Equations and Inequalities, Complex Numbers, Coordinate Geometry and Systems, Exponential Expressions and Equations, Logarithms, Sequences and Series, Trigonometry, Trig Graphs, Trig Equations and Identities, Trig Applications, Statistics, Regression, Probability and Binomials.

Prerequisite: Geometry and 85 on Geometry Regents Exam. (1 Unit)

Equipment needed: TI - 83 Plus or TI - 84 Plus Graphing Calculator

ALGEBRA 2/TRIGONOMETRY X: This course is the third in the new NYS high school mathematics sequence. The course is an accelerated course taught at a faster pace than Algebra 2/Trigonometry. More advanced exploration of topics will be included as part of the course. Topics of study include Radicals, Irrational Numbers and Absolute Value, Relations and Functions, Rational Expressions and Equations, Quadratic Equations and Inequalities, Complex Numbers, Coordinate Geometry and Systems, Exponential Expressions and Equations, Logarithms, Sequences and Series, Trigonometry, Trig Graphs, Trig Equations and Identities, Trig Applications, Statistics, Regression, Probability and Binomials.

Prerequisite: Geometry X and 85 on Geometry Regents Exam

Equipment Needed: TI - 83 Plus or TI - 84 Plus Graphing Calculator (1 Unit)

MATH 11: This course is designed to give students a third year of math and some exposure to trigonometry. Topics include quadratic equations, rational expressions, complex numbers, functions, statistics, conics, exponential and logarithmic functions. There will be a school final exam given in June

Prerequisite: Math 10 or Geometry (1 Unit)

MATH 12: This is a senior level math course designed for students coming from Math 11. Topics include: probability, statistics, trigonometry and sequences and series. Time permitting, matrices will also be included. There will be a school final exam given in June.

Prerequisite: Math 11 (1 Unit)

PRE-CALCULUS: This course is a natural lead in to Calculus. This course will focus in on several types of functions including: quadratic, polynomial, inverse, exponential and logarithmic, circular, trigonometric. Also covered may include the study of vectors, matrices, sequences and series, advanced probability and an introduction to the study of calculus.

Prerequisite: Successful completion of the Regents Mathematics sequence with a recommended approximate overall average of "80" or above. An interest in mathematics above the norm is anticipated. (1 Unit)

Equipment needed: Scientific Calculator or TI - 83 Plus or TI - 84 Plus Graphing Calculator

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MATHEMATICS (Cont.)

PRE-CALCULUS X: This course is a natural lead in to Calculus. This course will focus in on several types of functions including: quadratic, polynomial, inverse, exponential and logarithmic, circular, trigonometric. Also covered may include the study of vectors, matrices, sequences and series, and advanced probability. In addition, students will begin study of Calculus including Limits and Differentiation.

Prerequisite: Successful completion of (1 Unit) the Regents Mathematics sequence with a recommended approximate overall average of "80" or above. An interest in mathematics above the norm is anticipated.

Equipment needed: TI - 83 Plus or TI - 84 Plus Graphing Calculator

CALCULUS: A college level calculus course in which students will be eligible for SUNY Albany credit upon successful completion of the course. This highly intense course includes the in depth study of functions, limits, derivatives, application of derivatives, integrals, application of integrals, transcendental functions. Each of these types will prove to be challenging and have direct impact on future collegiate success in mathematics and science studies. Highly self-motivated students are encouraged to take this course. There is a fee for students wishing to earn University in the High School credit.

Prerequisite - 85% or better in (1 Unit) Pre-Calculus X and/or teacher recommended

Equipment needed: TI - 83 Plus or TI - 84 Plus Graphing Calculator



PERFORMING ARTS

BAND: The Tamarac High School Band is an award-winning Concert Band dedicated to the performance of quality literature and to the pursuit of teamwork, practice and musical growth. Band students will be exposed to a wide variety of band, solo and ensemble literature through listening and performing. All band students are required to perform in concerts which will occur outside of the school day. These concerts are a goal of the performance curriculum and a major part of the band grade. All band students must take music lessons, either privately or in school as part of their grade and course of study. Lessons at school are part of the band schedule and occur once per week on a rotating basis throughout the students' daily schedule. Students who study privately may be waived from the school lesson commitment.

Prerequisite: Enrollment is open to all students who are proficient on a band instrument. Students new to the band program may join by audition with the instructor.

Grade Level: 9-12 (1 Unit)

JAZZ ENSEMBLE: This is a performing group open to instrumental music students interested in studying the jazz idiom. There will be a strong emphasis on jazz styles, theory, listening, and biographies of jazz musicians. Students will perform repertoire from the jazz genre with an emphasis on swing and big band music. Students are responsible for practicing on their own time as needed to successfully perform their individual parts in rehearsal. All band students are required to perform in concerts which will occur outside of the school day. These concerts are a goal of the performance curriculum and a major part of the band grade.

Prerequisite: Proficiency on their instrument and permission from the instructor.

Grade Level: 9-12 (1/2 Unit)

CHORUS: The emphasis in chorus is singing. The Choir gives several concerts during the year. The music performed includes examples from the standard choral repertoire as well as selections from musicals and the popular field. Students who are members of choir are given the opportunity to audition for NYSSMA solo festivals and All County Choirs.

Prerequisite: Participation in Middle School choir recommended, not required.

Grade Level: 9-12 (1 Unit)

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PERFORMING ARTS (Cont.)

CHORALAIRES: The Choralaires is select mixed voice choral ensemble open to students in grades 9 - 12 by audition. The group performs intermediate to advanced level choral literature from various time periods in musical history. Along with vocal and rehearsal techniques, students will also explore the cultural and historical elements of choral music and apply these to their performances. The Choralaires perform at three regularly scheduled concerts: Senior Citizen's Concert, Winter Concert and Spring Concert. There are also other performances in the community as well as in-school events.

Grade Level: 9-12

(1 Unit)

COMPREHENSIVE FOUNDATIONS OF MUSIC: This course is designed to acquaint students with the basics of music. Emphasis is given to the following areas:

1. Music Theory - a study of the elements of music including reading music, melody, rhythm, chord structure and chord progressions. Ear training and written theory will be emphasized

2. Music History - a study of the history of Western music from ancient times through the present. Topics will include composers, styles and instruments.

In addition, students will be given an opportunity to explore electronic music, composing, publishing, arranging, piano, guitar and conducting.

Prerequisite: Some musical experience is suggested but not required.

Grade Level: 9-12

(1/2 Unit)



PHYSICAL EDUCATION

Curriculum: The Tamarac Physical Education Department will provide a variety of activities that they feel will best meet the needs of each specific student, as well as incorporate the standards imposed by the State of New York. The units that we will participate in will mainly consist of lifetime activities, team sports and strength & aerobic exercise. Students will be divided up throughout the course of the year in several possible ways: competitive vs. non-competitive groupings and 9/10 & 11/12 groupings.

September

Ultimate Frisbee or Tennis and Walking Wellness
3 Weeks

October

Flag Football or Speedball & Fitness Test
3 Weeks

November

Basketball or Floor Tennis
3 Weeks

December

Volleyball or Strength & Conditioning
4 Weeks

January

Badminton and Ping Pong
4 Weeks

February

Indoor Games or Team Handball or Snowshoes
2 Weeks

March

Floor Hockey or Aerobics or Weight Room
4 Weeks

April

Fitness Tests or Weight Room or Cardio Exercise
2 Weeks

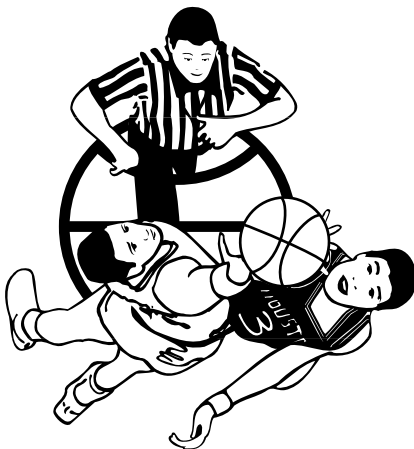
May

Golf or Rugby or Field Hockey
3 Weeks

June

Softball and Walking Wellness & Tennis
3 Weeks

GRADING: Students are graded daily on **participation, skill, effort, behavior & sportsmanship.**



SCIENCE

BIOLOGY (R)/THE LIVING ENVIRONMENT: Students cover the standards studying: similarities and differences among living organisms, homeostasis in organisms, genetic continuity, reproduction and development, evolution, ecology, human impact on ecosystems, scientific inquiry and skills, and laboratory skills. A great deal of time is spent on reinforcing concepts with lab experiences. All labs done in class must be successfully completed in order to take the Regents exam.

(1 Unit)

EARTH SCIENCE (R): Areas of study include: Physical geology, historical geology, astronomy, climatology, meteorology, and oceanography. This course challenges the student to use his reasoning ability to determine the logical order of events. There is a mandatory lab requirement in order to qualify for the Regents exam in Earth Science.

(1 Unit)

CHEMISTRY (R)/PHYSICAL SETTING: This course provides the theory behind the chemistry of the world around us while emphasizing practical applications where possible. The course relies on many visual examples in the form of media and live demonstrations. Topics include atomic structure, the periodic table, chemical bonding, reaction kinetics, mathematics in chemistry, organic and nuclear chemistry. There is a mandatory lab requirement in order to qualify for the Regents exam in Chemistry.

Prerequisites: Satisfactory completion of the Regents exams in Earth Science and Integrated Algebra

(1 Unit)

PHYSICS (R): This course follows the New York State Regents curriculum for the course of study Physical Setting/Physics. Topics included in the course include, but are not limited to: Newtonian Mechanics, Conservation of Momentum and Energy, Electricity and Magnetism, Waves and Light and Modern Physics. A separate laboratory component of the course is a requirement. Students planning on taking this course should be well grounded in the mathematical skills of Algebra and Geometry with Trigonometry.

Prerequisites: Successful completion of Integrated Algebra and Geometry and currently enrolled in Algebra 2/Trig.

(1 Unit)

FORENSIC SCIENCE: This course is designed to fulfill 1/2 credit of the 3 unit science requirement. Learn about the world of criminal investigations by studying forensics. This class will be heavily oriented toward hands on activities. Topics include but are not limited to document forgery, chromatography, soil analysis, blood drop analysis and typing, DNA fingerprinting, hair and fiber analysis, and fingerprinting techniques.

Prerequisite: Successful completion of BOTH The Living Environment and Earth Science

Grade Level 11-12

(1/2 Unit)

PRINCIPLES OF SCIENCE FICTION: This course explores how scientific principles are used in the media of literature, movies and television to tell a story about human relationships. Selected works of science fiction will be reviewed in class with the emphasis on how the author/writer/director is using the scientific principles and how these principles are stretched, or even ignored for the purposes of the story. Emphasis is placed in understanding the basic underlying science, and using critical thinking skills to determine how an author/writer/director "Got it Right" or "Got it Wrong." Students will be required to do several writing assignments in using the guidelines of the science fiction genre. Students will also be encouraged to do their own reading and viewing of titles outside those reviewed in class. This course is designed to fulfill a 1/2 credit of the 3 unit Science requirement.

Grade Level: 11-12

(1/2 Unit)

TOPICS IN SCIENCE: This is a course that explores the underlying scientific principles of everyday life. Topics explored may include Newton's Laws and "Everyday Motion", Food Science, Electricity and Electrical Safety in Your Home, Mechanics of Objects, Why Things Fly, as well as Science in the News. Emphasis will be placed on hands-on or project based activities as well as classroom discussion. This course is designed to fulfill a 1/2 credit of the 3 unit Science requirement.

Grade Level: 11-12

(1/2 Unit)

ADVANCED BIOLOGY: This course is designed to give seniors additional background in the study of biology. The topics covered will provide the student with a solid foundation for success in a college level, introductory biology course. Topics will include ecology, ethology, biochemistry/enzymes, cell study, cellular respiration, photosynthesis, evolution, genetics, taxonomy, and the human immune system. Opportunities for exposure to and discussion of current scientific research, and "hands on" authentic inquiry and experimentation will be offered and encouraged.

Prerequisite: Successful completion of Biology. Chemistry preferred.

Grade Level: 12

(1 Unit)



SOCIAL STUDIES

GLOBAL HISTORY IR and IIR: This is a two year course that is designed to introduce students to world history using a chronological approach. The ninth grade course covers all 5 social studies standards and 11 themes in exploring world events from the ancient times to the Age of Exploration.

The tenth grade course picks up with the Age of Absolutism and continues to modern times. This course stresses global connections and interactions as students develop an understanding of the scope and sequence of world history.

Reading, writing and thinking skills are stressed throughout both years. The Regents exam is administered at the end of Global History II and serves as the final exam for Global History II.

Honors enrichment will be offered.

Grade Level: 9-10 (1 Unit each year)

U.S. HISTORY AND GOVERNMENT R: This will be a history of the U.S. and will cover a chronological survey of U.S. History, in general. The emphasis will be on the U.S. as a developing industrial and post-industrial nation. Constitutional and legal issues will be explored in depth, as will the problems of a dynamic industrial society in an increasingly complex and technologically-oriented world. Previous historical knowledge will be called upon for background, comparison, and contrast purposes in all topics.

Grade Level: 11 (1 Unit)

ADVANCED PLACEMENT AMERICAN HISTORY: This AP course is a very intensive, in-depth study of American History from 1607 to the present. It places heavy emphasis on historiography, that is on the methods and interpretations that various historians have used in their unlocking of the American past. This course will encourage a student to think in historical rather than just contemporary terms. It requires both extensive reading and the ability to reason in abstract terms. Students will be eligible for SUNY Albany credit upon successful completion of the course. There is a fee for the University in the High School credit. The Regents exam is required. Students are expected and encouraged to take the Advanced Placement examination as well. An examination fee is required for the AP exam. Summer reading will be required.

Prerequisite: Recommended by Grade 10 Social Studies teacher.

Grade Level: 11 (1 Unit)

ECONOMICS: This course will include the basic economic concepts and understandings which all persons will need to function effectively and intelligently as citizens and participants in the economy of the United States and of the world.

Grade Level: 12 (1/2 Unit)

PARTICIPATION IN GOVERNMENT: This course will emphasize the interaction between citizens and governments at all levels, local, state, and federal. The course will encourage students to understand and participate in the democratic process.

Grade Level: 12 (1/2 Unit)

PSYCHOLOGY: A survey of the basic processes which underlie human psychological development. Emphasis will be placed on the uses of psychological testing, processes of perception, learning, child development, motivation, and normal and abnormal behaviors.

Grade Level: 12 (1/2 Unit)

SOCIOLOGY: An explanation of the nature and scope of sociology, together with a study of the nature of society, culture, and human groups. Emphasis is also given to the basic processes of social interaction and to the major social institutions.

Grade Level: 12 (1/2 Unit)

SPECIAL EDUCATION

RESOURCE ROOM: The Resource Room program provides opportunities for students to build on strengths and reinforce skill deficits as outlined in their IEP objectives. Each student's individual objectives are reinforced by incorporating them into instruction that supplements their academic course work, hence building and reinforcing content area knowledge along with building skills.

Prerequisite: CSE Recommendation (1/2 Unit)

STUDY SKILLS: The Study Skills program teaches students strategies and techniques that increase their independence in meeting the requirements of the regular education curriculum. Units of study include such topics as time management, organizational skills, test taking strategies and studying strategies. Students learn about individual learning styles and are instructed in methods of improving reading and listening. Students are given the opportunity during class to apply skills and strategies to assignments given in other classes.

Prerequisite: CSE Recommendation (1/2 Unit)

WRITING LAB: This course is intended to support those students with significant weaknesses in written expression and writing mechanics. It is specifically designed to help students meet the NYS English/Language Arts Standards: writing for information and understanding; literary response and expression; critical analysis and evaluation; and social interaction. Units of study include document based questions (DBQs), sentence structure, proofreading, spelling, graphic organizers, journal writing and research papers. Students are given the opportunity during class to apply skills taught to completing assignments given in Social Studies and English classes.

Prerequisite: CSE Recommendation (1/2 Unit)

READING IN THE CONTENT AREA: This course is designed to help students improve reading comprehension skills, reading fluency and vocabulary. It uses a content-based curriculum, drawing from Social Studies and Science courses the students are currently enrolled in.

Prerequisite: CSE Recommendation (1/2 Unit)



• *Course offerings and descriptions may vary according to resources available.* •

TECHNOLOGY EDUCATION

HOME REPAIR & MAINTENANCE: This course will provide students with a basic understanding of general home repair. Skills and proper safety practices will be taught. Troubleshooting common household problems relating to plumbing, electricity and carpentry will also be the focus of this class. A wide variety of material processing techniques will also be covered.

Grades 10 -12 (1/2 Unit)

TV AND BROADCAST MEDIA: This course is designed to increase the students awareness of audiovisual systems through manipulative experiences with equipment and materials associated with communication systems. As the student progresses through this module, they will learn the basics of video production: camera operation, audio equipment, lights, ancillary equipment and program production from script writing and studio work to edition.

Students will gather historic perspective on the history and evolution of American filmmaking and in turn use this to write, produce and direct short pieces of their own that will exemplify various genres of the media. Students in this course have the opportunity to receive 3 college credits through HVCC for a fee.

Grade Level: 10-12 (1 Unit)

ADVANCED MEDIA PRODUCTION: Advanced Media Production is built upon the foundations laid out in TV and Broadcast Media. Students will take the basic concepts learned in the beginning course and expand upon them both with the equipment available and creatively. Problem solving exercises ranging from claymation to music videos will be tackled and learned from. The integration of computers and computer software into video presentations will also be addressed.

Prerequisite: TV and Broadcast Media (1 Unit)

Grade Level: 11-12



VISUAL ARTS



STUDIO IN ART: This is a class for everyone that focuses on the basics. Students will be introduced to art styles, movements, and artists of various time periods and cultures. They will explore a variety of media, such as drawing, painting, printmaking, collage, sculpture, and computer art. This class is a prerequisite for all other visual art courses, and fulfills one unit of fine arts for graduation. In addition, this class is recommended for those interested in taking TV & Broadcast Media, Desktop Publishing, and/or Web Design.

Grade Level: 9-12 (1 Unit)

DRAWING: This course builds upon the concepts learned in Studio in Art, and focuses on developing individual freedom of expression, style and technique. The class takes the student from realism to abstraction through projects involving perspective, observational drawing, illustration, and conceptual art (drawing machine). The following media will be used: graphite pencil, colored pencil, markers, ink, and charcoal. This course serves as a strong foundation for Painting. All students enrolled in Drawing must have a *spiral* bound sketchbook 8.5X11 or larger.

Prerequisite: Studio in Art
Grade Level: 10-12 (1/2 Unit)

PAINTING: This course builds upon the concepts learned in Studio in Art, and expands upon Drawing. Projects involve various painting techniques using acrylic and watercolor paints. This class visits a wide spectrum of ideas from real to abstract through projects involving portraiture, landscape, expressionism, and conceptual art (object self-portrait). Drawing serves as a strong foundation for Painting.

Prerequisite: Studio in Art
Grade Level: 10-12 (1/2 Unit)

POSSIBLE ART SEQUENCES*				
Interest	9th	10th	11th	12th
Fine Arts	Studio in Art	Drawing, Painting	Adv. Art	Ind. Study
Photography	Studio in Art	Digital Photo	Adv. Photo	Ind. Study
Graphic Design	Studio in Art	Drawing, Digital Photo	Adv. Art or Adv. Photo	Ind. Study

*These sequences do not represent all combinations of art classes. The Art Department encourages students to customize course selections based upon individual interests.

DIGITAL PHOTOGRAPHY: This course teaches the basics of camera use, composition, lighting, focus, and digital photo editing. In addition, students will be introduced to the basic concepts of graphic design. Critiques are an integral part of the course, reinforcing knowledge of the elements and principles of design. Computer programs used will be Adobe Bridge®, Photoshop®, and Illustrator®. Students must own or have access to a digital camera on a *regular* basis, and have a memory card that is 2GB or more.

Prerequisite: Studio in Art
Grade Level: 10-12 (1 Unit)

ADVANCED PHOTOGRAPHY: This course builds upon the concepts learned in Digital Photography. Projects will be more complex, and will encourage the development of personalized expression and style. Computer programs used will be Adobe Bridge®, Photoshop®, and Illustrator®. Students will have access to Digital SLR cameras to explore more advanced techniques.

Prerequisite: Digital Photography
Grade Level: 11 -12 (1 Unit)

ADVANCED ART: This course is a continuum of Drawing and/or Painting. Assigned projects will be open-ended, giving students the opportunity to choose appropriate media to communicate intended ideas. Art media used will expand upon those used in Drawing and Painting to include collage, sculpture, printmaking, etc. This class serves as a foundation for college portfolio development.

Prerequisite: Drawing or Painting
Grade Level: 11-12 (1 Unit)

INDEPENDENT STUDY: This course expands upon all previous art courses, and allows students to work independently on goal-driven projects. Emphasis is placed on the development of a required college portfolio. Portfolio reviews will take place at each interim. Assessment is based upon the progression of knowledge, ideas, techniques, and individuality.

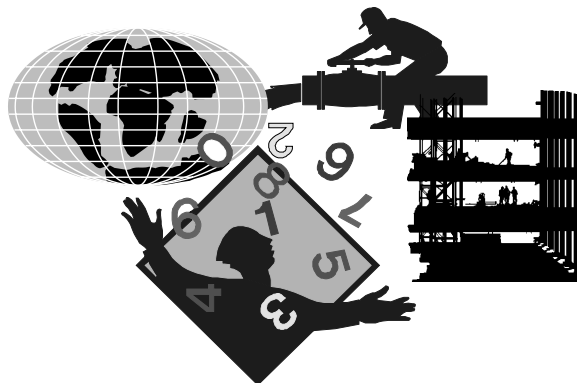
Prerequisite: Teacher Recommendation
Grade Level: 11-12 (1 Unit)



CAREER and TECHNICAL EDUCATION

Career and Technical Education programs offer opportunities for students to acquire professional skills and training in high school to help them start on a successful career path, which might include further education and/or immediate employment upon graduation. A student interested in a potential career choice is able to explore career fields which can provide important information and insight helpful to choosing a specific college or employment choice.

Students planning to enter a CTE program should expect a full schedule at Questar and at their home school to fulfill requirements for their Regents diploma. Each CTE program includes potential for students to earn college credits through articulation agreements, so students will be expected to work at grade level on Math, English and Science assignments.



CAREER TECH PROGRAMS

The following Career Tech courses are available at Questar III, Rensselaer Education Center. All courses are for 11th and 12th grade students. Students can earn 4 credits per year towards their high school diploma and be awarded a vocational certificate upon successfully completing their course.

Academy for Information Technology I & II

Automotive Technology I & II

Aviation Maintenance Technology I & II

Construction Technology I & II

Cosmetology/Advanced Cosmetology

Criminal Justice I & II

Culinary Arts I & II

Heating, Ventilation, Air Conditioning and
Refrigeration I & II

Certified Nurse Aide

CAREER STUDIES/SPECIAL NEEDS

Automotive Services

Building Trades

Career Exploration

Hotel Lodging/START

Intro to Employment

Intro to Food Services

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