



Tamarac High School

Course Selection Guide



Tamarac High School
Counseling Center
2019-2020

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. Patricia Poupore

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
- Senior Notes
- 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
- Career Connections

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.....	1 unit*
Health Education.....	1/2 unit
Physical Education (1/2 unit each year).....	2 units

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

*Students must pass 7th grade, 8th grade, and the final exam at the end of 8th grade in order to receive the one mandatory high school credit needed for graduation. An alternative path to meeting the requirement is the successful completion of a 9th grade, level one Language Other Than English (LOTE) course. College bound students are strongly encouraged to complete 3 units (4 years) of LOTE study.

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

3. Additional Testing Requirements

Successful completion of the following Regents Examinations:

REGENTS DIPLOMA

- Comprehensive English
- 1 Regents Math
- 1 Regents Science
- Global History & Geography
- U.S. History & Government

REGENTS DIPLOMA WITH ADVANCED DESIGNATION

- Comprehensive English
- Algebra
- Geometry
- Algebra 2
- 2 Regents Science
- Global History & Geography
- U.S. History & Government
- Foreign Language (exam developed locally)

*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.

ATHLETICS*

Baseball	Soccer
Basketball	Softball
Cheerleading	Indoor Track
Cross Country	Lacrosse
Football	Outdoor Track
Golf	Volleyball
Hockey	Wrestling

*Teams and levels may vary

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.

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

Student requests to take courses for credit at other area institutions or through online providers will be reviewed on a case by case basis by a committee established by the building Principal and should not be used as a replacement for courses or curriculum currently offered at Tamarac High School.



BUSINESS EDUCATION

Earning College Credit

A partnership between Tamarac High School and Hudson Valley Community College enables students to earn college credit through the **College in the High School Program** upon successfully completing designated business courses. Students have the opportunity of earning college credits for a fee. An additional registration process through HVCC is required. See your Business teacher for more information.

BUSINESS LAW

Learn how the legal system works and recognize legal problems!

Grade Level: 10-12 **1/2 Unit**

This course emphasizes the relationship of law to a person's business and personal life. Whether a student is interested in pursuing a career in law, business, or law enforcement, planning to attend college or preparing to enter the workforce, this course will be beneficial. Students will understand the structure, and operation of the American legal system and the basic principals of law relevant to criminal law, civil law, the court system, business and personal contracts, consumer protection laws, insurance, minors and employment laws. Special emphasis on computer and electronic device crimes will also be discussed.

PERSONAL COMPUTER CONCEPTS & APPLICATIONS I

Recommended for All students!

College in the High School Program

Grade Level 10-12 **1/2 Unit**

This course is **essential** for all college bound and career oriented business students. Learn how spreadsheets, databases, graphics and word processing can be used for both business and personal applications. This course is designed to develop student understanding and skills in such areas as applying integrated software to business applications, word processing, spreadsheets, presentations, database applications, Internet, and/or personal information.

PERSONAL COMPUTER CONCEPTS & APPLICATIONS II

Grade Level 10-12 **1/2 Unit**

This course is a continuation of Personal Computer Concepts and Applications I. Students will use more advanced Features of Word Processing, Spreadsheets, Database, Presentation Graphics and Internet applications. Lab time outside of the class may be required.

BUSINESS CONCEPTS & APPLICATIONS

College in the High School Program

Are you interested in using your on-line abilities to start your own business? What about learning how to design and develop a business plan to help you on your road to success?

Grade Level 11-12 **1/2 Unit**

This course is recommended for all students who are interested in **Business Ownership, Management, and Marketing & Advertising**. 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.

CAREER & FINANCIAL MANAGEMENT

This course is recommended for all students.

Grade Level 10-12 **1/2 Unit**

This course provides students with career preparation/ exploration and financial literacy. Topics include how to develop personal budgets, handle checking accounts, manage credit wisely, making wise purchases, completing basic tax forms and evaluating insurance needs. Students will also complete an "on your own" simulation to enhance their development of these skills. The career preparation component of this course concentrates on developing a portfolio that will include a resume, cover letter, writing sample and job application. Students will also participate in a mock job interview. Students will use the computer for research and for creating financial spreadsheets and word documents.

Business Education Suggested Sequences		
Career Areas		
Business Management Entrepreneurship Marketing Finance Accounting	Graphic Design Software Design Game Design Computer Programming IT Specialist	Career Technical Education (CTE) Entering the Workforce
↓	↓	↓
Personal Computer Applications I Career & Financial Management Business Concepts Principals of Marketing Business Law Financial Accounting	Personal Computer Applications I Desktop Publishing Web Design Digital Photo (ART Dept) TV Video Prod (ART Dept)	Career & Financial Management Business Concepts Web Design

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BUSINESS EDUCATION (continued)**PRINCIPLES OF MARKETING****College in the High School Program**

Recommended for those students who are interested in Sports Marketing, Fashion Marketing, Business Marketing and Ownership.

Grade Level 10-12**1/2 Unit**

From MADISON AVENUE TO MONTAUK! Explore the psychology of promoting and selling goods and services. Learn how major stores such as Abercrombie & Fitch and McDonald's target customers and develop marketing strategies for those customers. A variety of projects will be completed including a marketing plan of your own!

DESKTOP PUBLISHING

Recommended for all students interested in the Gaming Industry, Graphic Design, Web Design and Journalism.

Grade Level 10-12**1/2 Unit**

This course will introduce students to a variety of ways that people use tools and resources to communicate. Students will explore various applications in desktop publishing through hands-on activities and experiences which may include brochures, pamphlets, newsletters, letterheads, tables (graphs, charts, etc.), memo forms, advertisements, banners, business cards, web pages, etc.

WEB PAGE DESIGN AND CONTENT DEVELOPMENT**College in the High School Program**

Recommended for all students interested in Web Page Design, Gaming, Graphic Design, Computer Programming and Software Design.

Grade Level 10-12**1/2 Unit**

The course provides both a conceptual and applied introduction to Web design and content management. Topics include: W3C compliant Web design, current WWW architecture, the Internet, and content management systems (CMS). Students will create a multimedia rich, accessible W3C compliant Web site using the open source Wordpress Web and Content Management System and learn the basics of HyperText Markup Language (HTML) and Cascading Style Sheets (CSS). Previous computing experience required.

FINANCIAL ACCOUNTING:**College in the High School Program****Grade Level: 10-12****1 Unit**

The objective of this course is to provide a solid foundation in basic accounting concepts and techniques for students who plan to pursue a career in accounting, as well as the general business student. The course covers the traditional topics of a college level accounting course, including the accounting cycle, financial statement analysis, and coverage of asset, liabilities and stockholders equity.

ENGLISH EDUCATION**Earning College Credit**

*A partnership between Tamarac High School and the University at Albany enables students to earn college credit through the **University in the High School Program** upon successfully completing designated English courses. Students have the opportunity of earning three college credits for a fee. An additional registration process through the University at Albany is required. See your English teacher for more information.*

ENGLISH 9**1 Unit**

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.

ENGLISH 10**1 Unit**

At this grade level, students examine a wide variety of writers and literary genres, focusing on exploring the relevance of literature and its themes to their lives and the world around them. Developing and fully supporting ideas with relevant and specific evidence will be stressed in their written expression.

ENGLISH 11**1 Unit**

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.

ENGLISH 12**1/2 Unit**

English 12 serves a variety of student needs and is especially helpful for the college-bound student. Instruction will focus on several areas including: standardized test score improvement, authentic writing opportunities (e.g. college essays, scholarships, etc.) research skills and individual and/or group presentations. Students will actively learn 21st century critical thinking skills. The course will culminate in either a final exam or project

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ENGLISH EDUCATION (continued)**CREATIVE WRITING****Grade Level: 12** **1/2 Unit**

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.

PUBLIC SPEAKING AND COMMUNICATIONS**Grade Level: 12** **1/2 Unit**

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.

MYTHOLOGY AND FOLKLORE**Grade Level: 12** **1/2 Unit**

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.

AP ENGLISH LITERATURE and COMPOSITION/COLLEGE ENGLISH 121**University in the High School Program****Grade Level: 12** **1 Unit**

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.

Students are **required** to take the Advanced Placement examination. A fee is required for the AP Exam. As a

University at Albany course, this class is subject to university policies on academic integrity, attendance, and grading. Additional registration process required.

DETECTIVE FICTION**Grade Level: 12** **1/2 Unit**

Detective Fiction is a half-year reading intensive 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.

INDIVIDUALIZED READING**Grade Level: 12** **1/2 Unit**

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.

PLEASE NOTE: This course is NOT approved for NCAA Core Credit

SCRIPT TO SCREEN**Grade Level: 12** **1 Unit**

Script to Screen is a full year course in which students go through the process of making a film from beginning to end. Students will write their own scripts, audition actors, film their scripts, edit each scene, and present their films to their fellow students. The final project for the course will be a short film of 5 to 7 minutes in length to be presented to an audience of their parents and peers.

PLEASE NOTE: This course is NOT approved for NCAA Core Credit

FOREIGN LANGUAGE EDUCATION

Earning College Credit

*A partnership between Tamarac High School and Russell Sage College enables students to earn college credit through the **Russell Sage College in the High School Program** upon successfully completing designated Language courses. Students have the opportunity of college credits for a fee. An additional registration process through Russell Sage College is required. See your Foreign language teacher for more information.*

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

Grade Level: 9-12 **1 Unit**

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 Spanish language and acquiring a basic vocabulary of the most commonly used words. Cultural appreciation is also stressed.

SPANISH 2

Grade Level: 9-12 **1 Unit**

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.

SPANISH 3

Grade Level: 10-12 **1 Unit**

The third level course assures proficiency in comprehension, reading, speaking and writing Spanish. Students will take a locally developed final exam in this course.

SPANISH 4 and SPANISH 5

College in the High School Program

Grade Level: 11-12 **1 Unit Each**

This is the advanced study of Spanish. Students will become acquainted with Spanish literature and history. Students will become proficient in oral and written Spanish.

FRENCH 2

Grade Level: 9-12 **1 Unit**

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.

FRENCH 3

Grade Level: 10-12 **1 Unit**

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 a locally developed final examination in June.

FRENCH 4 and FRENCH 5

College in the High School Program

Grade Level: 11-12 **1 Unit Each**

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.

RUSSIAN 2

Grade Level: 9-12 **1 Unit**

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.

RUSSIAN 3

Grade Level: 10-12 **1 Unit**

This course is conducted primarily in Russian and trains students to communicate ideas on a more advanced level in Russian. Assignments include auditory and reading dialogs, reading comprehension passages and a written composition. Students are required to take a locally developed final examination in June.

RUSSIAN 4 and RUSSIAN 5

College in the High School Program

Grade Level: 11-12 **1 Unit Each**

This is the advanced study of Russian. Students will become acquainted with Russian literature, history and other aspects of Russian culture. There will be concentration on perfecting all language skills. Grammar will be reviewed and there will be regular writing assignments.

HEALTH EDUCATION

HEALTH

Grade Level: 10-12

1/2 Unit

Health is a mandated course designed to help students gain the 21st Century skills necessary to remain safe and healthy throughout their lives. Students will experience skill building in Communication, Relationship Management, Decision Making, Planning and Goal Setting, Stress Management, Advocacy, and Self Management and have the opportunity to apply these skills to practical issues including Alcohol/Tobacco/Drugs, Family life/Sexual Health, Parenting, HIV/AIDS, Sexual Risk, Physical Activity & Nutrition, Injury and Violence Prevention.

HONORS

HONORS 9

Grade level: 9

1/2 Unit

This course is a humanities-based interdisciplinary class. The Honors Program is designed to enhance the existing ninth grade curriculum for motivated learners who are eager to go above and beyond the core courses. The enrichment will take place through the use of journals, novels, essay writing, projects and independent research. The course is student driven and class participation is an integral part. Each student will participate in daily class discussions as well as facilitate discussions independently at times. Honors 9 will challenge you to demonstrate leadership, improve your writing skills, think deeply, ask questions, and seek answers through quality research. The culminating assignment is an inquiry-based independent research project that will be presented to the school community.

Students who wish to register for 9th Grade Honors will need to apply for this selective program. Criteria for selection includes; teacher recommendation, GPA, effort, homework completion, and assessment of writing skills.

HONORS 10

College in the High School Program

Grade Level: 10

1/2 Unit

This course is a continuance of the themes and topics studied in 9th grade. The project-based course will involve intensive research and will also focus on writing skills, collaborative learning, presentation skills and the goal of providing a unique opportunity for students to study and research topics that most interest them. During a portion of the course students have the opportunity to earn college credit with an introduction to library research and information literacy. Content will focus on how to create a research strategy for finding, retrieving, using and evaluating information in print and electronic formats including the Internet. Also covered will be many of the academic, legal

and ethical issues relating to information. Skills gained can be applied to research papers, projects, professional and personal information needs. Honors10 is a course that will better prepare sophomore students for future Advanced Placement and University in High School courses.

MATH EDUCATION

Earning College Credit

*A partnership between Tamarac High School and the University at Albany enables students to earn college credit through the **University in the High School Program** upon successfully completing designated Math courses. Students have the opportunity of college credits for a fee. An additional registration process through the University at Albany is required. See your Math teacher for more information.*

PLEASE NOTE: equipment needed for math related courses are: T1-83 plus or T1-84 Plus graphing calculator

ALGEBRA

Prerequisite: Recommendation of 8th grade teacher.

1 Unit

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 Algebra Regents exam will be given in June.

PRE-ALGEBRA

1 Unit

This course provides students with the foundations they need for success in high school mathematics. This course offers students more time to focus on and master the content of Algebra. Students will take a school exam at the end of Pre Algebra. After successful completion of this class, students will move to Algebra and will take the Algebra Regents exam at the end of the course.

PLEASE NOTE: This course is NOT approved for NCAA Core Credit

GEOMETRY

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

1 Unit

Topics include geometric relationships, transformational geometry, informal and formal proofs, constructions, triangles, quadrilaterals, circles, coordinate geometry and equations of lines. The Geometry Regents exam will be given in June.

An accelerated course in GEOMETRY X will be offered for students successfully completing Algebra X. 1 Unit

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MATH EDUCATION (Continued)**PRE-GEOMETRY****1 Unit**

This course will provide an introduction to many of the topics included in the Common Core Geometry Curriculum. After successful completion of this course, students will enroll in Geometry and take the Common Core Geometry exam. Students enrolled in Pre Geometry will take a local exam in June. This course is available **only** by recommendation of the Algebra 1 Teacher, School Counselor, Principal, or Director of Special Education.

PLEASE NOTE: This course is NOT approved for NCAA Core Credit

ALGEBRA 2**Prerequisite: 1 Unit**

Mastery on Common Core Geometry Regents Exam or teacher recommendation.

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.

An accelerated course in Algebra 2X will be offered for students successfully completing Geometry X. 1 Unit

MATH 11**1 Unit**

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. This course is available **only** by recommendation of the Principal, School Counselor or Director of Special Education and does not meet criteria for the traditional high school pathway.

PLEASE NOTE: This course is NOT approved for NCAA Core Credit

MATH 12**Prerequisite: Math 11 1 Unit**

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.

PLEASE NOTE: This course is NOT approved for NCAA Core Credit

PRE-CALCULUS**Prerequisite: 1 Unit**

Successful completion of the Regents Mathematics sequence. An interest in mathematics above the norm is anticipated.

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.

An accelerated course in Pre-Calculus X will be offered for students successfully completing Geometry X. 1 Unit

CALCULUS

University in the High School Program

Prerequisite - 85% or better in Pre-Calculus X and/or teacher recommendation. 1 Unit

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.

**Traditional High School Pathway
for All Math Students**

Algebra ⇌ Geometry ⇌ Algebra 2

$$-\ln f_{a,\sigma^2}(\xi_1) = \frac{(\xi_1 - a)}{\sigma^2} f_{a,\sigma^2}(\xi_1) = \frac{1}{\sqrt{2\pi\sigma}} \left| \frac{\xi_1 - a}{\sigma} \right| e^{-\frac{1}{2} \left(\frac{\xi_1 - a}{\sigma} \right)^2}$$

$$T(x) \cdot \frac{\partial}{\partial \theta} f(x, \theta) dx = M \left(T(\xi) \cdot \frac{\partial}{\partial \theta} \ln l(\xi, \theta) \right)$$

MUSIC EDUCATION

Earning College Credit

A partnership between Tamarac High School and Schenectady County Community College enables students to earn college credit through the **College in the High School Program** upon successfully completing designated music courses. Students have the opportunity of earning three (3) college credits. An additional registration process through SCCC is required. See your Music teacher for more information.



BAND

Grade Level: 9-12 **1 Unit**

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.

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.

JAZZ ENSEMBLE

Grade Level: 9-12 **1/2 Unit**

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

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.

CHORUS

Grade Level: 9-12 **1 Unit**

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

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.

CHORALAIRES

Grade Level: 10-12 **1 Unit**

Prerequisite: One year of high school choir

The Choralaires is select mixed voice choral ensemble open to students in grades 10 - 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.

COMPREHENSIVE FOUNDATIONS OF MUSIC

College in the High School Program

Grade Level: 9-12 **1/2 Unit**

Prerequisite: Some musical experience is suggested but not required.

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.

PHYSICAL EDUCATION

PE 9-12

Grades: 9-12

1/2 Unit

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 - 3 Weeks

Ultimate Frisbee or Tennis and Walking Wellness

October - 3 Weeks

Flag Football or Speedball & Fitness Test

November - 3 Weeks

Basketball or Floor Tennis

December - 4 Weeks

Volleyball or Strength & Conditioning

January - 4 Weeks

Badminton and Ping Pong

February - 2 Weeks

Indoor Games or Team Handball or Snowshoes

March - 4 Weeks

Floor Hockey or Aerobics or Weight Room

April - 2 Weeks

Fitness Tests or Weight Room or Cardio Exercise

May - 3 Weeks

Golf or Rugby or Field Hockey

June - 3 Weeks

Softball and Walking Wellness & Tennis

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

INDEPENDENT FITNESS PHYSICAL EDUCATION

Grades: 9-12

1/2 Unit

Independent Fitness Physical Education is a small group fitness based Physical Education Program. The curriculum is meant to provide students with fitness activities that can be utilized throughout their everyday lives. The small group structure allows students to actively participate while maximizing instruction from the Physical Education Teacher.

The units will meet the needs of the specific students in the class, as well as meet the standards imposed by the State of New York. Some of the units that will be taught are aerobic walking, cardiovascular and muscular endurance and strength training in the fitness room, yoga and flexibility training.

SCIENCE EDUCATION

Earning College Credit

*A partnership between Tamarac High School and Siena College enables students to earn college credit through the **College in the High School Program** upon successfully completing designated science courses. Students have the opportunity of earning eight (8) college credits for a fee. An additional registration process through Siena College is required. See your Science teacher for more information.*

Traditional High School Pathway for All Science Students

Biology ⇔ Earth Science ⇔ Chemistry ⇔ Physics

Accelerated Pathway

Earth Science ⇔ Chemistry ⇔ Physics ⇔ AP Environmental Science

BIOLOGY / THE LIVING ENVIRONMENT

1 Unit

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.

EARTH SCIENCE

1 Unit

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.

CHEMISTRY / PHYSICAL SETTING

Prerequisites: Satisfactory completion of **1 Unit the Regents exams in Earth Science and Algebra.**

This course provides the theory behind the chemistry of the world around us while emphasizing practical applications

(Continued on following page)

SCIENCE (Continued)

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.

**PHYSICS/PHYSICAL SETTING
(Regents Physics)**

Grade Level 11-12 **1 Unit**
Prerequisites: Successful completion of Algebra and Geometry and currently enrolled in Algebra 2 or higher level mathematics course

This course of study follows the New York State Regents curriculum for the course of study of Physical Setting/Physics. Physics is the science that explores how things work and attempts to determine the underlying principles for explaining the interaction of the fundamental forces in nature. A separate laboratory component is a requirement for this course. Students planning on taking this course should have a strong foundation in Algebra and Geometry with Trigonometry.

COLLEGE PHYSICS

Grade Level 11-12 **1 Unit**
Prerequisites: Successful completion of Algebra 2 and currently enrolled in Precalculus or higher level mathematics course

This course of study follows the curriculum developed by the Siena College Physics department for the General Physics 110 and 120 courses. This course of study includes the entire curriculum that is part of the New York State Regents curriculum as well as additional topics required by the Siena College Physics department. This course uses algebra based problem solving methods as part of its curriculum. This course is specifically designed by Siena College for their Biology and Pre-med majors as well as any of their students who desire a rigorous course in physics to advance their collegiate education goals. Students who enroll in this course have the option of registering with Siena College to receive college credit for the course. A separate laboratory component is a requirement for this course.

Students who opt to earn college credit for the course are required to take two Semester Final Exams administered by the Siena college physics department here at Tamarac to earn the college credit through Siena College. Students also take the New York State Regents exam in Physical Setting/Physics at the end of the course.

FORENSIC SCIENCE

Grade Level 11-12 **1/2 Unit**
Prerequisite: Successful completion of BOTH The Living Environment and Earth 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. Since this course is lab based, good attendance is necessary to achieve success.

**UNDERSTANDING SCIENCE
THROUGH SCIENCE FICTION**

Grade Level: 11-12 **1/2 Unit**

This is a general science course that explores how scientific principles are used in the media of literature, movies and television to tell a story about human relationships and how the presented science impacts those relationships. Topics include exploration of space travel and the dimension of space; how gravity works; energy requirements for space travel; human genetics and cloning; epidemiology; evolution and natural selection; and how science allows us to know what reality is. This course is designed to fulfill a 1/2 credit of the 3 unit Science requirement.

**TOPICS in SCIENCE, ENERGY
and the ENVIRONMENT**

Grade Level: 11-12 **1/2 Unit**

This is a general science course that explores the underlying scientific principles of everyday life. Topics explored in the course are using scientific method to make "everyday" decisions; Newton's laws and how they relate to work, power, and energy use; simple machines and engines; energy productions and distribution; and the impact of our energy use requirements on the environment. This course is designed to fulfill a 1/2 credit of the 3 unit Science requirement.

AP ENVIRONMENTAL SCIENCE

Grade Level: 12 **1 Unit**
Prerequisites: Successful completion of Algebra and 2 years of Regents level lab sciences Chemistry preferred

Topics will cover seven main categories of study: Earth Systems & Resources, The Living World, Population Studies, Land & Water Use, Energy Resources & Consumption, Pollution, & Global Change. The course challenges students to use innovative, creative, and critical thinking skills to tackle the complex problems facing our society and planet. A separate laboratory component is required. Students are required to take the Advanced Placement examination. A fee is required for the AP exam.

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SCIENCE (Continued)**ADVANCED BIOLOGY****Grade Level: 12****1 Unit****Prerequisite: Successful completion of Biology. Chemistry preferred.**

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.

SOCIAL STUDIES EDUCATION**Earning College Credit**

*A partnership between Tamarac High School and the University at Albany enables students to earn college credit through the **University in the High School Program** upon successfully completing designated Social Studies courses. Students have the opportunity of college credits for a fee. An additional registration process through the University at Albany is required. See your Social Studies teacher for more information.*

GLOBAL HISTORY I and II**Grade Level: 9-10****1 Unit each year****Honors enrichment will be offered.**

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 Absolution 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.

U.S. HISTORY AND GOVERNMENT R**Grade Level: 11****1 Unit**

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.

ADVANCED PLACEMENT AMERICAN HISTORY**University in the High School Program****Grade Level: 11****1 Unit****Prerequisite: Recommended by Grade 10 Social Studies teacher.**

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 required to take the Advanced Placement examination as well. An examination fee is required for the AP exam. Summer reading will be required.

ECONOMICS**Grade Level: 12****1/2 Unit**

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.

PARTICIPATION IN GOVERNMENT**Grade Level: 12****1/2 Unit**

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.

PSYCHOLOGY**Grade Level: 12****1/2 Unit**

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.

(Continued on following page)

SOCIAL STUDIES (Continued)**SOCIOLOGY****Grade Level: 12** **1/2 Unit**

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.

FILM IN AMERICAN SOCIETY**Grade Level: 12** **1/2 Unit**

This course will touch on many of the social sciences including history, psychology, sociology, and political science. Students will watch, interpret and discuss a number of American films (fiction, non-fiction, documentary, silent etc.) made from 1900 to the present. The course will be taught thematically and include such topics as education, family, prejudice and discrimination, war, religion, and politics.

PLEASE NOTE: This course is NOT approved for NCAA Core Credit

SPECIAL EDUCATION**RESOURCE ROOM****Prerequisite: CSE Recommendation**

The Resource Room program provides opportunities for students to build on strengths and reinforce skill deficits as outlined in their IEP. Each student's IEP goals are addressed through supplementary instruction designed to build skills and reinforce content area knowledge.

LIFE SKILLS**Prerequisite: CSE Recommendation** **1 Unit**

The Life Skills program focuses on basic reading, writing and math skills, as well as social/intrapersonal skills and independent living skills. In addition, the curriculum is designed to help students develop basic vocational skills needed to successfully enter the work force after graduation. Specific units of the Life Skills Program include: safety skills, cooking, maintaining a budget, getting involved in leisure activities, communicating individual needs/wants/ desires to friends, family and co-workers, how to intermingle, and how to get and maintain a job. Students are expected to participate in a variety of jobs in school and within the community, and are provided a job coach as needed.

SPECIAL CLASS ENGLISH**Prerequisite: CSE Recommendation**

The high school self-contained English class is a multi-grade special education class for students requiring high

intensity skills based learning. The focus of the curriculum is on increasing reading development, reading comprehension skills, vocabulary acquisition, basic research skills and written communication skills. The content material is drawn from current national and international topics that have or will impact every student.

SPECIAL CLASS MATH**Prerequisite: CSE Recommendation**

This course adapts math content, giving students access to the general education curriculum and the opportunity to meet the educational standards that apply to all students. Students receive specially designed instruction to meet their individual needs and learning styles.

* Course offerings and descriptions may vary
according to resources available

TECHNOLOGY EDUCATION**Earning College Credit**

*A partnership between Tamarac High School and Hudson Valley Community College enables students to earn college credit through the **College in the High School Program** upon successfully completing designated business courses. Students have the opportunity of earning college credits for a fee. An additional registration process through HVCC is required.*

TV AND BROADCAST MEDIA**College in the High School Program****Grade Level: 10-12** **1 Unit**

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.

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TV AND BROADCAST MEDIA (Continued)

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.

ADVANCED MEDIA PRODUCTION

Grade Level: 11-12 **1 Unit**

Prerequisite: TV and Broadcast Media

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.

HOME REPAIRS AND BUILDING

Grade Level: 10-12 **1/2 Unit**

This course is aimed at those students who wish to get a basic understanding of how a home works and how to maintain one. This may include basic structure building and remodeling, plumbing tile and electrical work and furniture repair. The direction of the course will be in large part directed by the needs and interests of the students enrolled. Students are encouraged to bring in personal items from home and practice their repair skills

VISUAL ARTS

STUDIO IN ART

Grade Level: 9-12 **1 Unit**

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. All students enrolled in Studio in Art must have a *spiral* bound sketch book 8.5" x 11" or larger.

DRAWING

Grade Level: 10-12 **1/2 Unit**

Prerequisite: Studio in Art

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

POSSIBLE ART SEQUENCES*

Interest	9th	10th	11th	12th
Fine Arts	Studio in Art	Drawing, Painting	Adv. Art or Ind. Study 1	Ind. Study 1 or 2
Photography	Studio in Art	Digital Photo	Adv. Photo Ind. Study 1	Ind. Study 1 or 2
Graphic Design	Studio in Art	Drawing, Digital Photo	Adv. Art or Adv. Photo	Ind. Study 1

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

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.

PAINTING

Grade Level: 10-12 **1/2 Unit**

Prerequisite: Studio in Art

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.

DIGITAL PHOTOGRAPHY

Grade Level: 10-12 **1 Unit**

Prerequisite: Studio in Art

This course teaches the basics of camera use, composition, lighting, focus, and digital photo editing. In addition,



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VISUAL ARTS (Continued)

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.

ADVANCED PHOTOGRAPHY

College in the High School Program

Grade Level: 11 -12 **1 Unit**

Prerequisite: Average of 90+ in Digital Photography or Teacher Recommendation

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.

ADVANCED ART

Grade Level: 11-12 **1 Unit**

Prerequisite: Average of 90+ in Drawing/Painting or Teacher Recommendation

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.

INDEPENDENT STUDY I

Grade Level: 11-12 **1 Unit**

Prerequisite: Teacher Recommendation

This course expands upon all previous art courses, and allows students to work on both assigned and individual projects with personalized goals in mind. This class serves as a way to build upon prior work to create a college portfolio.

INDEPENDENT STUDY II

Grade Level: 12 **1 Unit**

Prerequisite: Teacher Recommendation

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.

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.

- Information Technology I & II
- Automotive Technology I & II
- Construction Technology I & II
- Cosmetology I & II
- Criminal Justice I & II
- Culinary Arts I & II
- Heating, Ventilation, Air Conditioning and Refrigeration I & II
- Heavy Equipment Operation & Maintenance
- Certified Nurse Aide

CAREER STUDIES / SPECIAL NEEDS

- Automotive Services
- Career Exploration
- Hospitality and Lodging
- Intro to Food Services

NEW VISIONS PROGRAMS

Grade 12 only

- Medical
- Science, Technology, Engineering & Math
- Scientific Research & World Health
- Visual & Performing Arts

College Credit Opportunities at Tamarac High School

University at Albany – State University of New York

University in the High School Program

- Advanced Placement American History (6 credits)
- Calculus (4 credits)
- AP English Literature and Composition/College English 121 (3 credits)

Russell Sage College

Russell Sage College in the High School Program

- French 4 (3 credits)
- French 5 (3 credits)
- Russian 4 (3 credits)
- Russian 5 (3 credits)
- Spanish 4 (3 credits)
- Spanish 5 (3 credits)

Siena College

Siena College in the High School Program

- Physics (8 credits)

Hudson Valley Community College

HVCC College in the High School Program

- Personal Computer Concepts (3 credits)
- Business Concepts & Applications (4 credits)
- Principles of Marketing (3 credits)
- Web Page Design & Content Development (3 credits)
- Financial Accounting (4 credits)
- TV & Broadcast Media (3 credits)
- Advanced Photography (3 credits)
- Honors /Library Skills for Research (1 credit)

Schenectady County Community College

SCCC College in the High School Program

- Comprehensive Music (3 credits)

There are also many other ways to earn college credits while in high school.

- Advanced Placement Courses
- Career & Technical Education Programs through Questar III
- New Visions Programs through Questar III
- Off site programs such as Siena College High School Scholars, Bryant and Stratton College January Jump Start and more

This list keeps growing.

Please see your HS Counselor for more information.

Why Should I take an Honors, Advanced Placement or College Level Course?

- Rigor of a student's high school curriculum or strength of schedule is the single, best predictor of success in college.
- Improve writing skills and develop the study skills necessary for tackling rigorous work.
- Challenge yourself and make your transcript stand out and be noticed.

*“The more rigor in high school,
the more success in college.”*

– SUNY Administration at
SUNY Operation Inform 10/2017