

*Course Descriptions For 2022-23 School Year*



**TAFT HIGH SCHOOL**

## **COURSE DESCRIPTIONS**

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**Requirements Per Grade (Classes you must take)**

**12th grade:** Language Arts, Economics/Government, other credits as needed

**11th grade:** Language Arts, US History, Math, Science, other credits as needed

**10th grade:** Language Arts, Math, Health, Global Studies, Chemistry, 2 fine arts or electives.

**9th grade:** Language Arts, Math, PE, High School Success, Biology, 2 fine arts or electives.

## **COURSES LIST**

### **Electives**

HIGH SCHOOL SUCCESS (required for 9th grade)  
AVID 9-12  
CHILD CARE INTERNSHIP  
STRENGTH TRAINING  
RECREATIONAL GAMES

### **Fine Arts/Career-Technical**

AP COMPUTER SCIENCE  
AMERICAN SIGN LANGUAGE I  
AMERICAN SIGN LANGUAGE II  
AMERICAN SIGN LANGUAGE III  
CERTIFIED EMERGENCY RESPONSE  
CHOIR  
COMMERCIAL GRAPHIC DESIGN  
CONCERT BAND  
CULINARY A  
CULINARY B  
DIGITAL MEDIA DESIGN I  
DIGITAL MEDIA DESIGN II  
DIGITAL MEDIA DESIGN III  
EARLY CHILDHOOD EDUCATION I  
EARLY CHILDHOOD EDUCATION II  
EARLY CHILDHOOD EDUCATION III  
EXPLORING COMPUTER SCIENCE  
FORESTRY 1  
FORESTRY 2  
FOOD & NUTRITION A  
FOOD & NUTRITION B  
HISTORY OF ROCK AND ROLL  
JAZZ BAND  
MYTHOLOGY  
SMALL ENGINE MECHANICS  
SPANISH I  
SPANISH II  
SYMPHONIC BAND  
YEARBOOK

### **Health**

HEALTH 1/2 (required for 10th grade)

### **Language Arts**

AP ENGLISH LITERATURE  
LANGUAGE ARTS 12  
LANGUAGE ARTS 11  
LANGUAGE ARTS 10  
LANGUAGE ARTS 9  
WRITING 121  
WRITING 122

### **Math**

INTEGRATED MATH I  
INTEGRATED MATH II  
INTEGRATED MATH III  
FINANCIAL ALGEBRA  
MATH 111/112  
MATH 251/252

### **Physical Education**

PE 1/2 (required for 9th grade)

### **Science**

ADVANCED BIOLOGY (BIO 101, 102, 103)  
ENVIRONMENTAL/FORESTRY SCIENCE  
PHYSICS  
CHEMISTRY (required for 10th grade)  
BIOLOGY (required for 9th grade)

### **Social Studies**

ECONOMICS (required for 12th grade)  
GOVERNMENT (required for 12th grade)  
US HISTORY (required for 11th grade)  
GLOBAL STUDIES (required for 10th grade)

## ***COURSE DESCRIPTIONS***

### **Electives**

#### **ADVANCEMENT VIA INDIVIDUAL DETERMINATION 9-12 (AVID)**

Grade Level: 12

Advisory: This course satisfies an elective (M) graduation requirement.

Prerequisite: Completion of the program application or counselor approval or current AVID student standing.

Length: 2 semesters, 1.0 credit elective

This course is designed to improve student academic performance and achievement via college preparatory skills; for students who have demonstrated academic potential by earning a 2.5–3.5 grade-point average. Students will receive two hours per week of instruction in college entry-level skills; two hours per week in tutor-led study groups; and one hour per week in motivational activities and academic survival skills. The focus of the course is the connection between reading and writing skills across the curriculum. To add or drop the AVID course, the student must submit a completed program application.

#### **CHILD CARE INTERNSHIP**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies an elective (M) graduation requirement.

This course is graded Pass/No Pass.

Prerequisite: Completion of the Early Child Education 1 course or instructor approval.

Length: 1 or 2 semesters, 0.5 credit elective per semester

Students will perform a variety of roles that assist the Taft Early Learning Center. This is a good opportunity to explore a career field that involves teaching children.

#### **HIGH SCHOOL SUCCESS - Required Elective for all 9th grade students (Can choose AVID 9 instead)**

Grade Level: 9

Advisory: This course satisfies an elective (el) graduation requirement

Prerequisite: none

Length: 2 Semesters, 1.0 elective credit

This course is designed to help support 9th grade students in their first year of high school. Topics covered will be credits, transcripts, types of diplomas, post-high school topics like college and careers, scholarships, etc. Students will also learn study skills, emailing, and other skills related to high school and workplace success. Some of the time may be used to complete work for other classes and to stay organized on assignment due dates, etc.

## **STRENGTH TRAINING**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies an elective (M) graduation requirement.

Prerequisite: none

Length: 1 semester or two semesters, .5 elective credit per semester. This course is designed to increase strength and endurance through the use of weights, plyometrics, medicine balls, speed and agility equipment.

## **RECREATIONAL GAMES**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies an elective (M) graduation requirement.

Prerequisite: Successful completion of the Physical Education course with a grade of C or better.

Length: 1 semesters, .5 credit elective

This course introduces students to a variety of individual, dual and team sports. In this high-impact course, students will participate in activities to improve their physical fitness levels and enjoy playing games and sports.

## **Fine Arts/Career-Technical Education**

### **ADVANCED PLACEMENT (AP) COMPUTER SCIENCE**

Grade Level: 10, 11, 12

Advisory: This course satisfies an elective (L) graduation requirement.

Prerequisite: Intro to Computers/Exploring Computers or instructor approval

Length: 2 semesters, 1.0 credit fine arts

The AP Computer Science A course and exam continues to focus on computer skills related to programming in Java. The new AP Computer Science Principles course complements AP Computer Science A as it aims to broaden participation in the study of computer science. The courses underscore the importance of communication solutions appropriately and in ways that are relevant to current societal needs. AP Computer Science courses address traditional issues of equity, access, and broadening participation in computing while providing a strong and engaging introduction to fundamental areas of the discipline

### **AMERICAN SIGN LANGUAGE I**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: None

Length: 2 semesters, 1.0 credit fine arts

This course develops basic skills in American Sign Language (ASL). The course may satisfy the foreign language requirement for the student who intends to attend a college or university after high school. It is the student's responsibility to verify foreign language requirements for admission to specific colleges and universities

### **AMERICAN SIGN LANGUAGE II**

Grade Level: 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: Successful completion of the ASL I course with a grade of C or better.

Length: 2 semesters, 1.0 credit fine arts

This course builds upon fundamental concepts presented in ASL I and introduces students to more advanced skills in ASL. The course may satisfy the foreign language requirement for the student who intends to attend a college or university after high school. It is the student's responsibility to verify foreign language requirements for admission to specific colleges and universities

### **CHOIR**

Grade Level: 9,10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisites: Enrollment is offered by audition.

Length: 2 semesters, 1.0 credit fine arts

Symphonic Choir is a performance ensemble that specializes in accompanied and "a cappella" vocal music. Members will study, rehearse and perform a variety of vocal literature on a daily basis. Students will be taught proper posture and breath control, and are expected to use those abilities to improve their signing technique. Sight-singing, counting rhythm, voice blending, and professional conduct will also be taught and assessed. The Symphonic Choir will frequently meet outside of school hours

### **COMMERCIAL GRAPHIC DESIGN & PRODUCTION**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: None

Length: 2 semesters, 1.0 credit fine arts

This course is an introduction to art and graphic design. It covers technical and abstract approaches to art and design with a wide breadth of media

### **CONCERT BAND**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies a fine arts (fa) graduation requirement.

Prerequisite: Prior experience is not required. Enrollment is offered by audition.

Length: 2 semesters, 1.0 credit (fa)

Concert Band is a performance ensemble that specializes in classical and contemporary music. Members will study, rehearse and perform a variety of literature on a daily basis. Students will be challenged to expand their playing techniques. Sight-reading, rhythm counting, tuning, tone quality and professional conduct will also be taught and assessed. The Concert Band will frequently meet outside of school hours, and willful attendance is required and expected of all members

## **CULINARY A**

Grade Level: 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: Successful completion of two semesters of Foods & Nutrition courses with a grade of C or better or teacher approval and successful completion of one semester of a Foods & Nutrition course with a grade of C or better.

Length: 2 semesters, 1.0 credit fine arts

This course provides students with knowledge and skills related to commercial and institutional food service establishments. Course topics range widely, but will usually include sanitation and safety procedures, nutrition and dietary guidelines, food preparation (and quantity food production), and meal planning and presentation. The course may also include back-of-the-house and front-of-the-house experiences, and may therefore also cover reservation systems, customer service, and restaurant/business management.

## **CULINARY B**

Grade Level: 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: Culinary A

Length: 2 semesters, 1.0 credit fine arts

This course provides students with knowledge related to commercial and institutional food service establishments, with an emphasis on management. Course topics include guest service and relationships, planning, resource management, and other topics related to managing and operating restaurants.

## **DIGITAL MEDIA DESIGN & PRODUCTION I**

Grade Level: 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: Successful completion of the Commercial Graphic Design & Production course with a grade of C or better.

Length: 2 semesters, 1.0 credit fine arts

This course is an introduction to digital media. Students will learn to design in multiple professional-level programs, and then output two- and three-dimensional forms with various printers, carvers and digital platforms.

## **DIGITAL MEDIA DESIGN & PRODUCTION II**

Grade Level: 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: Successful completion of the DMDP I course with a grade of C or better.

Length: 1 semester, 1.0 credit fine arts

This course builds on DMDP I, with a focus on two-dimensional output in the form of stickers and T-shirts. Students will develop design skills in Adobe Illustrator and learn the process to generate T-shirts and stickers with those design



### **EARLY CHILDHOOD EDUCATION I**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: None

Length: 2 semesters, 1.0 credit fine arts

The course will give you an introduction to the growth and development of children, from birth through age 8. Specific attention will be placed on understanding children's physical, social and emotional growth. Hands-on children's activities are included to help you understand the importance of play, also known as inquiry, by experimentation, and seeing the working from a child's perspective.

### **EARLY CHILDHOOD EDUCATION II**

Grade Level: 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: Successful completion of the Early Childhood Education I course with a grade of C or better.

Length: 2 semesters, 1.0 credit fine arts

This course is the second year of child development, psychology, vocational child-care, and early childhood training. The course is designed to develop the student's knowledge and practical experience. High school students interact with each other, infant, toddlers, and preschool-aged children. Four days per week are spent teaching in the on-campus Early Learning Center, and one day is spent planning age-appropriate activities and learning about best educational practices for young children.

### **EARLY CHILDHOOD EDUCATION III**

Grade Level: 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: Successful completion of the Early Childhood Education II course with a grade of C or better.

Length: 2 semesters, 1.0 credit fine arts

This course is the third year of child development, psychology, vocational child-care, and early childhood training. The course is designed to further develop the student's knowledge and practical experience. High school students choose their own independent study of elementary school-age children. Four days per week are spent in the elementary school; one day per week is spent planning age-appropriate activities and working on the semester project.

### **EXPLORING COMPUTER SCIENCE**

Grade Level: 9, 10, 11, 12

Advisory: This course fulfills the fine arts (L) graduation requirement.

Prerequisite: None

Length: 2 semesters, 1.0 credit fine arts

This course will introduce students to the basics in computer science and programming.

### **FORESTRY 1**

Grade: 11, 12

Advisory: This course fulfills the fine arts (L)

Prerequisite: None

Length: 1 semester; 0.5 credit. Fine arts

This course will study the interrelationships of organisms and forested areas. The emphasis will be on fire-fighting science, human influences, ecological structures, survey of populations, and ecosystems.

This course is designed to provide a basis needed to understand modern forestry practices and the resulting impacts upon the environment.

## **FORESTRY 2**

Grade: 10, 11, 12

Advisory: This course fulfills the fine arts (L)

Prerequisite: Forestry 1

Length: 1 semester; .5 credit (fine arts)

This course will expand on Forestry 1 and study more of the interrelationships of organisms and forested areas. The emphasis will be on fire-fighting science, human influences, ecological structures, survey of populations, and ecosystems. This course is designed to provide a basis needed to understand modern forestry practices and the resulting impacts upon the environment.

## **FOOD & NUTRITION A**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: None

Length: 1 semester, 0.5 credit fine arts

This course provides students with knowledge and skills about food preparation and/or production with a strong emphasis on nutrition, balanced diets, and satisfying special dietary needs. Topics typically include assessing nutrient content, the science of food and nutrition, physiology and utilization of nutrients. The course includes preparing quick breads, eggs, desserts and soups.

## **FOOD & NUTRITION B**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: Passing Foods and Nutrition A

Length: 1 semester, 0.5 credit fine arts

This course examines specific topics related to restaurant, and food and beverage services, including knowledge in cultural foods, micronutrients and alternative diets. The course includes preparing higher technique foods such as yeast breads, meat and seafood, and fruit and vegetables.

## **HISTORY OF ROCK AND ROLL**

Grade: 9, 10, 11, 12

Advisory: This course fulfills the fine arts (L) graduation requirement.

Prerequisite: None

Length: 1 semester; .5 credit fine arts

In this class students will be researching the different characteristics and styles of each rock era, listening to the difference between each rock and roll era and how they are different from each other, develop an understanding of rock and roll music, history, stories, and culture, and exploring the chronological progression of rock and modern music.

## **JAZZ BAND**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: Participation in Symphonic Band and instructor approval. Enrollment is offered by audition.

Length: 2 semesters, 1.0 credit fine arts

Jazz Band is a performance ensemble that specializes in jazz, rock, funk, fusion, swing, and big-band music. Members will study, rehearse and perform a variety of jazz literature on a daily basis. Students will be challenged to expand their soloing technique and learn how to improvise. Sight-reading, rhythm counting, tuning, tone quality and professional conduct will also be taught and assessed. The Jazz Band will frequently meet outside of school hours, and willful attendance is required and expected of all members.

## **MYTHOLOGY**

Grade Level 9,10,11,12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: none

Length: 1 semester, .5 fine arts credit

The focus of Mythology is to learn about the world's ancient mythological traditions, from Greco-Roman mythology to Norse mythology to Native American mythology. We will look at how they are connected, at archetypes, origin stories, heroes and villains, how women are treated, and the history that surrounds the myths (like Medieval England or Indigenous histories).

## **SMALL ENGINE MECHANICS**

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: none

Length: 1 semester, .5 fine arts credit

Small Engines Mechanics is an introductory course on the four stroke cycle, single cylinder engine. The student will study the four strokes, engine parts identification, and engine operation. The student must tear down a four stroke engine, inspect and repair, reassemble, trouble shoot, and try to get the engine running.

## **SPANISH I**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: Successful completion of an English course with a grade of C or better.

Length: 2 semesters, 1.0 credit fine arts

Spanish I will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be placed on the acquisition of four skills: listening, speaking, reading and limited writing. There are two main objectives to the course. Foremost is to give the students the ability to carry on a simple conversation. The second is to provide the students with instruction that teaches a basic understanding of Spanish culture, vocabulary and grammatical concepts.

## **SPANISH II**

Grade Level: 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Successful completion of both semesters of the Spanish I course with a grade of C or better.

Length: 2 semesters, 1.0 credit fine arts

The Spanish II course builds upon knowledge gained and reinforces skills developed in Spanish I: listening, speaking, reading and writing. Emphasis is placed on perfecting pronunciation, mastery of the basic grammatical structures, and increased communicative proficiency. Acquisition of functional vocabulary is expected. Students will be exposed to the past tenses, future, conditional and subjunctive mood. Students will be expected to apply them in their writing and speaking.

## **SYMPHONIC BAND**

Grade Level: 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisites: Concert Band and instructor approval. Enrollment is offered by audition.

Length: 2 semesters, 1.0 credit fine arts

Symphonic Band is a competitive band and will participate in two festivals each year in addition to regular performances. Outside practice is required. Students will be challenged to expand their playing techniques. Sight-reading, rhythm counting, tuning, tone quality and professional conduct will also be taught and assessed

## **YEARBOOK**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies a fine arts (L) graduation requirement.

Prerequisite: Instructor approval to continue after one semester.

Length: 2 semesters, 1.0 credit fine arts

This course is a combination of the Journalism I, II and Yearbook courses. Students are responsible for planning and creating original content for and design of The Talisman. Students must work well with deadlines and with little supervision.

## **Health**

### **HEALTH 1 and 2**

Grade Level: 10

Advisory: This course satisfies a health (hl) or elective (el) graduation requirement.

Length: 2 semesters, 1.0 credit health

This health education course focuses on the core concepts of balance, moderation and prevention, and their role in maintaining wellness. The course provides information and skills to influence students to take positive action for their own health.

## **Language Arts**

### **ADVANCED PLACEMENT (AP) ENGLISH LITERATURE**

Grade Level: 11,12

Advisory: This course satisfies a communication (A) graduation requirement.

Prerequisites: Completion of Writing 122 with a grade of C or better or instructor approval.

Length: 2 semesters, 1.0 credit cm

The AP Language and Composition course aligns to an introductory college-level, rhetoric-based curriculum, which requires the student to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. The student will evaluate, synthesize and cite research to support their arguments. Throughout the course, the student develops a personal style by making appropriate grammatical choices.

### **LANGUAGE ARTS 12**

Grade Level: 12

Advisory: This course satisfies a communication (cm) graduation requirement.

Prerequisite: None

Length: 2 semesters, 1.0 credit cm

This yearlong course provides the student with the opportunity to engage in reading, discussion, writing, revision, research, presentation, listening, collaboration, and leadership activities. Assigned texts provide platforms for discussion of topics and concerns of local, national and international interests.

### **LANGUAGE ARTS 11**

Grade Level: 11

Advisory: This course satisfies a communication (A) graduation requirement.

Prerequisite: Junior standing or instructor approval.

Length: 2 semesters, 1.0 credit cm

Students will learn the important ideas and traditions in American literature, principles of academic writing and research, how to construct and deliver presentations, and work together with peers while demonstrating acquisition of skills necessary to proceed to the next level of English instruction.

### **LANGUAGE ARTS 10**

Grade Level: 10

Advisory: This course satisfies a communication (cm) graduation requirement.

Prerequisite: None

Length: 2 semesters; 1.0 credit cm

This course is the initial high school offering for freshmen and consists of writing in a variety of poetry, fiction and nonfiction. Heavy emphasis is placed on the writing process.

### **ADVANCED LANGUAGE ARTS 10**

Grade Level: 10

Advisory: This course satisfies a communication (cm) graduation requirement.

Prerequisites: Satisfactory score on the placement exam and instructor approval.

Length: 2 semesters, 1.0 credit cm

The student is placed in this advanced freshman course after successfully completing Advanced English in the 8th grade. The student will be challenged with a more extensive workload and will be expected to complete more coursework outside of the classroom.

## **LANGUAGE ARTS 9**

Grade Level: 9

Advisory: This course satisfies a communication (cm) graduation requirement.

Prerequisite: None

Length: 2 semesters; 1.0 credit cm

This course is the initial high school offering for freshmen and consists of writing in a variety of poetry, fiction and nonfiction. Heavy emphasis is placed on the writing process.

## **ADVANCED LANGUAGE ARTS 9**

Grade Level: 9

Advisory: This course satisfies a communication (cm) graduation requirement.

Prerequisites: Satisfactory score on the placement exam and instructor approval.

Length: 2 semesters, 1.0 credit cm

The student is placed in this advanced freshman course after successfully completing Advanced English in the 8th grade. This course is the initial high school offering for freshmen and consists of writing in a variety of poetry, fiction and nonfiction. Heavy emphasis is placed on the writing process. The student will be challenged with a more extensive workload and will be expected to complete more coursework outside of the classroom.

## **WRITING 121**

Grade Levels: 11, 12

Advisory: This course satisfies a communication (A) graduation requirement. This is a college-level, dual-enrollment course; you will be enrolled both at Taft and OCCC. This means, if you decide to drop the class, it is your responsibility to consider the deadlines and consequences for doing so at each institution.

Prerequisite: Completion of Advanced World Literature with a grade of C or better or instructor approval.

Length: 1 semester, 0.5 credit cm as well as 4 college credits

The course focuses on academic writing as a means of inquiry, and uses critical reading, discussion and the writing process to explore ideas, develop cultural awareness, and formulate positions. Emphasizes development of a variety of strategies to present evidence in support of a thesis.

## **WRITING 122**

Grade: 11, 12

Advisory: This course satisfies a communication (A) graduation requirement. This is a college-level, dual-enrollment course; you will be enrolled both at Taft and OCCC. This means, if you decide to drop the class, it is your responsibility to consider the deadlines and consequences for doing so at each institution.

Prerequisite: Completion of Writing 121 with a grade of C or better.

Length: 1 semester, 0.5 credit cm as well as 4 college credits

Continues the focus of WR 121 on academic writing as a means of inquiry with added emphasis on persuasion and argument supported by external research. Uses critical reading, discussion and the writing process to explore ideas, develop cultural awareness, and formulate original positions.

## **Math**

### **INTEGRATED MATH I**

Grade Level: 9,10,11,12

Advisory: This course satisfies a mathematics (B) graduation requirement.

Prerequisite: Teacher placement

Length: 2 semesters, 0.5 credit each

Integrated Math 1 is the first of three Common Core State Standards high school-level courses that integrate Algebra, Geometry, Trigonometry, and Statistics. This course will focus on extending students' understanding of linear functions and their applications. Topics will include solving multi-step equations, modeling real-world situations, sequences, properties of geometric figures, introduction to proofs, and coordinate geometry.

### **INTEGRATED MATH II**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies a mathematics (B) graduation requirement.

Prerequisite: Successful completion of both semesters of the Integrated Math 1 course.

Length: 2 semesters, 1.0 credit math

Integrated Math 2 is the second of three Common Core State Standards high school-level courses that integrate Algebra, Geometry, Trigonometry, and Statistics. During this course, students will explore radicals, exponents, polynomials, quadratics, complex numbers, and functions.

### **INTEGRATED MATH III**

Grade Level: 9, 10, 11, 12

Advisory: This course satisfies a mathematics (B) graduation requirement.

Prerequisite: Successful completion of both semesters of the Integrated Math 2 course.

Length: 2 semesters, 1.0 credit math

Integrated Math 3 is the third of three Common Core State Standards high school-level courses that integrate Algebra, Geometry, Trigonometry, and Statistics. This course will focus on exploring various types of functions, trigonometry, statistical inference, and sequences and series.

### **FINANCIAL ALGEBRA**

Grade Level: 11, 12

Advisory: This course satisfies a mathematics (B) graduation requirement.

Prerequisite: Successful completion of the Algebra I

Length: 2 semesters, 1.0 credit math

The Financial Algebra Course engages students with real-world financial applications while maintaining deep mathematical rigor. The 10 units include: Taxes, Checking, Savings, Budgeting, Intro to Investing, Investing Strategies, Types of Credit, Managing Credit, Paying for College and Insurance. This course will be heavily collaboration and project based. Students will be required to use google drive, docs and sheets on a regular basis. This course has a distinction of Algebra 1 or higher. **This is a good course for**

**11th and 12th grade students to take who are not looking to attend a 4 year university right out of high school but need their 3rd math credit to graduate.**

### **MATH 111**

Grade Level: 10, 11, 12

Advisory: This course satisfies a mathematics (B) graduation requirement. This is a college-level, dual-enrollment course; you will be enrolled both at Taft and OCCC. This means, if you decide to drop the class, it is your responsibility to consider the deadlines and consequences for doing so at each institution.

Prerequisite: Successful completion of both semesters of the Algebra II course with a grade of B or better.

Length: 1 semester, 0.5 credit ma as well as 5 college credits

The course explores relations and functions graphically, numerically, symbolically and verbally. The course examines exponential, logarithmic, polynomial and rational functions. The course also investigates applications from a variety of perspectives.

### **MATH 112**

Grade Level: 10, 11, 12

Advisory: This course satisfies a mathematics (B) graduation requirement. This is a college-level, dual-enrollment course; you will be enrolled both at Taft and OCCC. This means, if you decide to drop the class, it is your responsibility to consider the deadlines and consequences for doing so at each institution.

Prerequisite: Successful completion of the College Algebra (MTH 111) course with a grade of B or better.

Length: 1 semesters (2nd), .5 credit ma as well as 5 college credits.

Description is missing.

### **MATH 251 and MATH 252**

Grade Level: 10, 11, 12

Advisory: This course satisfies a mathematics (B) graduation requirement. This is a college-level, dual-enrollment course; you will be enrolled both at Taft and OCCC. This means, if you decide to drop the class, it is your responsibility to consider the deadlines and consequences for doing so at each institution.

Prerequisite: Successful completion of the Trigonometry (MTH 112) course with a grade of B or better.

Length: 2 semesters, 1.0 credit ma as well as 10 college credits

Semester 1 includes limits, continuity, derivatives and applications of derivatives. Semester 2 includes limits, continuity, derivatives and applications of derivatives.

## **Physical Education**

### **PHYSICAL EDUCATION (PE)**

Grade Level: 9 (required for 9th graders)

Advisory: This course satisfies a physical education (pe) or elective (el) graduation requirement.

Length: 2 semesters, 1.0 credit pe/el

During the yearlong course, students will be able to learn, practice and play a variety of sports and games. Students will also be challenged to work toward greater cardiovascular health. By the end of the year, students will have participated in a large variety of indoor and outdoor sports, they will also have achieved a higher level of fitness after engaging in planned workouts on a weekly basis.



## **Science**

### **ADVANCED BIOLOGY (BIO 101, BIO 102 and BIO 103)**

Grade Level: 11, 12

Advisory: This course satisfies a science (C) graduation requirement. This is a college-level, dual-enrollment course; you will be enrolled both at Taft and OCCC. This means, if you decide to drop the class, it is your responsibility to consider the deadlines and consequences for doing so at each institution.

Prerequisite: Completion of Biology and Chemistry or Physics courses with a grade of B or better.

Length: 2 semesters; 1.0 credit science as well as 12 college credits

- The BIO 101 course introduces the properties of life, morphology and physiology of cells, cell chemistry, energy transformation, and the basic principles of ecology. Designed as a laboratory-science course for non-biology majors, it is the first course of a three-course sequence.
- The BIO 102 course presents protein synthesis, cell division, genetics, reproduction and development, and evolution. Designed as a laboratory-science course for non-biology majors, it is the second course of a three-course sequence.
- The BIO 103 course presents the evolutionary relationships among the kingdoms, and includes a comparison of biological systems across kingdoms. Designed as a laboratory-science course for non-biology majors, it is the final course of a three-course sequence.

### **ENVIRONMENTAL/FORESTRY SCIENCE**

Grade: 11, 12

Advisory: This course fulfills the science (C)

Prerequisite: None

Length: 2 semesters; 1.0 credit. science

This course will study the interrelationships of organisms and forested areas. The emphasis will be on fire-fighting science, human influences, ecological structures, survey of populations, and ecosystems. This course is designed to provide a basis needed to understand modern forestry practices and the resulting impacts upon the environment.

### **PHYSICS**

Grade Level: 11, 12

Advisory: This course satisfies a science (C) graduation requirement.

Prerequisite: Successful completion of both Math 1 and Math 2 courses with a grade of B or better.

Length: 2 semesters, 1.0 credit science

Physics is a college-preparatory course designed for the student who will be required to enroll in a physics course again in college, particularly the student who intends to pursue a science-related college major and career field. The student will study Newtonian mechanics, including statics and dynamics, wave dynamics, acoustics, electricity and magnetism, and some modern physics. The lab-based course provides opportunities to experience the topics covered.

## **CHEMISTRY**

Grade Level: 10th

Advisory: This course satisfies a science (sc) graduation requirement.

Prerequisite: None

Length: 2 semesters, 1.0 credit sc

Chemistry is the study of matter and the changes matter undergoes. In this lab-based course, students learn chemistry concepts, including atomic and molecular structure, nomenclature, bonding and reactions, phase changes, gas behavior, solutions, and acid and bases. The course is rigorous, and is recommended for the student who intends to continue in academics beyond high school, or the student who is interested in science.

## **BIOLOGY**

Grade Level: 9th

Advisory: This course satisfies a science (C) graduation requirement.

Prerequisite: None

Length: 2 semesters, 1.0 credit science

This is an introductory biology course which provides a perspective on the sphere of life, its organisms, and the role of humans within it. The course develops the spirit and procedures of scientific inquiry while setting forth the functional and organizational principles of life. Emphasis is placed on the interrelationship of all life forms.

## **Social Studies**

### **ECONOMICS**

Grade Level: 12

Advisory: This course satisfies a social sciences (ec) graduation requirement.

Prerequisite: Senior standing

Length: 1 semester, 0.5 credit ec

Students can expect to learn about different economic systems in the world such as macro vs. micro and consumerism. They will also be given instruction regarding the inner workings of the United States capitalistic system. Work regarding the relationship between government, citizens, and the economy will be a predominant part of the course as will credit and finances.

### **GOVERNMENT**

Grade Level: 12

Advisory: This course satisfies a social studies (gv) graduation requirement.

Prerequisite: Senior standing

Length: 1 semester, 0.5 credit gv

This course will give the student an understanding of how the Congress, Supreme Court and Presidency work. Students will explore the philosophical beginnings of American government while also studying other forms of government throughout the world. Students will gain additional understanding of election processes, political parties, civil liberties, the Constitution and the Bill of Rights.

## **U.S. HISTORY**

Grade Level: 11

Advisory: This course satisfies a social studies (Q) graduation requirement.

Prerequisite: Junior standing

Length: 2 semesters, 1.0 credit social studies

U.S. History is a yearlong survey of American history from Reconstruction to the late 20th century.

Emphasis is placed on vocabulary, critical thinking skills, historical writing, and interpretation of original documents. The focus of the course will be based upon topics such as politics, culture, conflict, minorities, progress, and what makes the United States unique.

## **GLOBAL STUDIES**

Grade Level: 10

Advisory: This course satisfies a social studies (us) graduation requirement.

Prerequisite: Sophomore standing

Length: 2 semesters, 1.0 credit us

Students will learn about world history, current events and global connections. Students will study Africa, the Middle East, Australia, Asia, Europe, Latin America, and the historical events that tie to current issues. For instance, students will learn about and discuss Rwandan Genocide, women's rights in the Middle East, and the forced removal of Aborigines in Australia, among other topics. In addition, students will learn about the Nobel Peace Prize process, the United Nations and weapons of mass destruction. The course is based on an equal amount of discussion, group projects, reading and lecture.







