

# Warren County Technical School

## Program of Study

### 2020-2021



1500 Route 57  
Washington, NJ 07882  
908-689-0122  
[www.wctech.org](http://www.wctech.org)

# TABLE OF CONTENTS

<b>School Supervisory Personnel</b>	<b>Page 3</b>
<b>School Information</b>	<b>Page 4</b>
<b>Graduation Requirements</b>	<b>Page 6</b>
<b>Course Selection Worksheets</b>	<b>Page 8</b>
<b>Academic Information</b>	<b>Page 10</b>
<b>Course Descriptions - CTE</b>	<b>Page 13</b>
<b>Course Descriptions - Special Education</b>	<b>Page 29</b>
<b>Course Descriptions - English</b>	<b>Page 30</b>
<b>Course Descriptions - History</b>	<b>Page 33</b>
<b>Course Descriptions - Math</b>	<b>Page 35</b>
<b>Course Descriptions - Science</b>	<b>Page 38</b>
<b>Course Descriptions - Physical Education</b>	<b>Page 41</b>
<b>Course Descriptions - Fine Arts</b>	<b>Page 43</b>
<b>Course Descriptions - World Language</b>	<b>Page 44</b>
<b>Course Description - Freshman Seminar</b>	<b>Page 45</b>
<b>Dual Enrollment and Articulation Agreements</b>	<b>Page 46</b>
<b>Virtual High School</b>	<b>Page 48</b>

# SCHOOL SUPERVISORY PERSONNEL

## ADMINISTRATION

908-689-0122

Title	Name	Email
Superintendent	Edmund Zalewski	<a href="mailto:zalewskie@wctech.org">zalewskie@wctech.org</a>
Principal	Derrick Forsythe	<a href="mailto:forsythed@wctech.org">forsythed@wctech.org</a>
Director of Curriculum & Instruction/Director of Special Services	Diana Mai	<a href="mailto:maid@wctech.org">maid@wctech.org</a>
Assistant Principal	Jeff Tierney	<a href="mailto:tierneyj@wctech.org">tierneyj@wctech.org</a>
Business Administrator	Amy Barkman	<a href="mailto:barkmana@wctech.org">barkmana@wctech.org</a>

## GUIDANCE DEPARTMENT

908-835-2819

Title	Name	Email
Guidance Counselor	Joseph Orchulli	<a href="mailto:orchullij@wctech.org">orchullij@wctech.org</a>
Guidance Counselor	Kristen Sarte	<a href="mailto:sartek@wctech.org">sartek@wctech.org</a>
Guidance Counselor	Zana Ziegler-Harbon	<a href="mailto:zieglerz@wctech.org">zieglerz@wctech.org</a>
Guidance Secretary	Sharon Lentine	<a href="mailto:lentines@wctech.org">lentines@wctech.org</a>

# School Information

**Our Mission:** Warren County Technical School strives to develop opportunities for vocational, academics, and personal achievement through the cooperation of students, staff, parents and community in an atmosphere of mutual respect.

**Our Philosophy:** Warren County Technical School provides a solid education with life-long rewards. We recognize the need to provide America's students with the skills to compete in a highly technical workforce. Our requirements go beyond the fundamentals of reading, writing, and arithmetic to encompass critical thinking skills that include problem solving, decision making, and reasoning. Furthermore, we work to develop the character and personal qualities of good citizenship in each student. All students regardless of race, gender, orientation, religious background, or disability are embraced in the community of the school as a member of the Warren Tech family

**Our Goals:** Warren County Technical School prepares high school graduates for the world marked by rapid change and escalating thresholds for technical and academic skills needed for success. We educate our students at all levels for these higher expectations with solid academic foundation and exposure to additional relevant career areas in addition to student primary choice. Career and Technical Education prepares students to succeed as global citizens for career opportunities for the 21st Century and to support healthy economic growth within the state.

**Who We Are:** Warren County Technical School in Franklin, NJ prepares students with the skills that employers are looking for. While the costs of college education continually rise and the job market becomes increasingly flooded with college graduates who are struggling to set themselves apart, it is becoming increasingly important for today's high school students to develop marketable skills that employers need, along with their college preparations. Warren Tech prepares students with these in demand career skills and its graduates take these skills to enter the workforce and to enter college programs. Graduates of Warren Tech can work their way through college by relying on the skills, licenses, certifications, and experience that Warren Tech provided them. In conjunction with the career training, Warren Tech also offers Dual

Enrollment, Advanced Placement and College Prep Courses to ensure students are marketable for both careers and college programs.

Warren Tech offers real-life, hands on career training in Automotive Technology, Building Technology, Child Development, Cinematography and Video Production, Computer Programming, Cosmetology, Culinary Arts, Electrician (Residential and Commercial), Electronics Technology, General Engineering, Graphic Arts, Health Science, Law and Public Safety, and Welding and Metal Fabrication.

Warren County Technical School stands out because it offers specialized career training that prepares students with the specific skills that employers need, in addition to its traditional high school program that prepares students for college.

Students enrolled at Warren Tech run restaurants, auto shops, and cosmetology salons, build full size structures, design products, sell products, and more. They learn how to use modern equipment and technology that is used in industry today. The hands on training in these career areas cannot be mimicked in a traditional classroom setting. Students at Warren Tech are prepared to begin earning a paycheck as they gain licenses, certifications, and build networks with professionals.

In addition to the career training offered at Warren Tech, the school also offers a traditional high school curriculum that prepares students for college. Warren Tech has several Dual Enrollment courses and Articulation Agreements in place with colleges and universities including Warren County Community College, Rutgers, and NJIT. Warren Tech also offers Advanced Placement, Honors, and College Prep courses.

# Graduation Requirements

Local high school graduation requirements include completion of **120 credits** in courses designed to meet all of the New Jersey Student Learning Standards, including but not limited to the following:

Career and Technical Education	Students must earn 50 credits and must successfully complete four years of a Career Major Program.
English	Students must complete at least 20 credits in English language arts aligned to grade nine through twelve standards.
Math	Students must complete at least 15 credits in mathematics, including Algebra I or the content equivalent; geometry or the content equivalent; and a third year of mathematics that builds on the concepts and skills of algebra and geometry and that prepares students for college and 21st century careers.
Social Studies	Students must complete at least 15 credits in social studies, including five credits in world history; and the integration of civics, economics, geography, and global content in all course offerings
Science	Students must complete 15 credits in science, including at least five credits in laboratory biology/life science or the content equivalent; one additional laboratory/inquiry-based science course, which shall include chemistry, environmental science, or physics; and one additional laboratory/inquiry-based science course;

Physical Education and Health	Students must complete at least 3.75 credits in health, safety, and physical education during each year of enrollment, distributed as one hundred fifty minutes per week
Visual and Performing Arts	Students must complete at least five credits in visual and performing arts.
World Language	Students must complete at least five credits in world language.
Financial Literacy	Students must complete at least 2.5 credits in financial, economic, business, and entrepreneurial literacy.

The high school graduation credit requirement may be met in whole or in part through program completion of a range of experiences that enable students to pursue a variety of personalized learning opportunities, as follows:

The district shall establish a process to approve individualized student learning opportunities that meet or exceed the NJSLs. Individualized student learning opportunities in all NJSLs areas include, but are not limited, to the following: (1) Independent study; (2) Online learning; (3) Study abroad programs; (4) Student exchange programs; and (5) Structured learning experiences, including, but not limited to, work-base programs, internships, apprenticeships, and service learning experiences.

# Course Selection Worksheets

**Students in Grade 9 – 11 Must Enroll in 40 Credits. Students in Grade 12 Must Enroll in at Least 30 Credits.**

*When scheduling students into academic classes for the next school year—level placement will be determined by student performance in the same academic program. In order to move up an academic level the student will need to earn a 90% average or higher (or receive **\*\*\*TEACHER RECOMMENDATION\*\*\***) in current level class at the time of scheduling. In order to stay at the same academic level, the student will need to earn a 75% average or higher (or receive **\*\*\*TEACHER RECOMMENDATION\*\*\***) in current level class at the time of scheduling.*

## Grade 9

Subject	English	Math	History	Science	Language
<b>Course Choices</b>	English 9	Algebra I	World History	Environmental Science	Spanish I
	English 9 Honors	Geometry	World History	Environmental Science	Spanish I Honors
	English 9 Honors	Geometry Honors	World History Honors	Environmental Science Honors	
	English 9 Honors	Geometry Honors	World History Honors	Environmental Science Honors	

All 9<sup>th</sup> grade students will also take Health / PE 9, Freshman Seminar, and the first year of a Career Major.

## Grade 10

Subject	English	Math	History	Science	Art
<b>Course Choices</b>	English 10	Geometry Honors	US I	Biology	Art I
	English 10 Honors	Algebra II	US I Honors	Biology Honors	
	English 10 Honors	Algebra II Honors			

All 10<sup>th</sup> grade students will also take Health / PE 10 and the second year of a Career Major.



### Grade 11

Subject	English	Math	History	Science
<b>Course Choices</b>	English 11	Algebra II	US II  AP History Course Options (VHS)	Chemistry
	English II Honors	Algebra II Honors		Chemistry Honors
	AP English	Intermediate Algebra		Earth Science
	Course Options (VHS)	Pre-Calculus		Forensic Science
		Pre-Calculus Honors		

All 11<sup>th</sup> grade students will also take Health / PE 11, and the third year of a Career Major.

### Grade 12

Subject	English	Math (Optional)	Science (Optional)	Business	Elective Courses/Senior Option
<b>Course Choices</b>	English 12	Pre-Calculus	Physics Honors	Introduction to Business	Virtual High School (VHS) Electives
	English 12 Honors	Pre-Calculus Honors	Forensic Science		Art II
	AP English	Calculus Honors	AP Science		Spanish II
	Course Options (VHS)	AP Calculus (VHS)	Course Options (VHS)		*Students who choose Senior Option do not have classes Periods 1 and 2

		Financial Math (VHS)			
--	--	-------------------------	--	--	--

All 12<sup>th</sup> grade students will also take Health / PE 12, and the final year of a Career Major.

## Academic Information

### Grading Scale

The grading scale utilized by Warren County Technical School is the recommended grading scale from the College Board. Each marking period grade is calculated as 20% of the final grade for a full year course. The final exam is calculated as 20% of the final yearly average. All Honors and courses are weighted with a +.5 for GPA calculations. All AP courses are weighted with a +1.0 for GPA calculations beginning the 2020-2021 School Year and are not retroactive.

Letter Grade	Percent Grade	4.0 Scale
A+	97-100	4.0
A	93-96	4.0
A-	90-92	3.7
B+	87-89	3.3
B	83-86	3.0
B-	80-82	2.7
C+	77-79	2.3
C	73-76	2.0
C-	70-72	1.7
D+	67-69	1.3
D	65-66	1.0
F	Below 65	0.0

### Academic Honors

High Honor Roll- Awarded to students who have attained a 93 or above in all classes.

Honor Roll- Awarded to students who have attained an 85 or above in all classes.

### Progress Reports/Report Cards

The Assistant Principal will email all parents at the mid-marking period and end of marking period dates to inform them that Progress Reports and Report Cards are available to view on the Genesis Parent Portal. If a parent/guardian would like a paper copy of your Progress Report or Report Card, please have them contact Ms. Lentine in the Main Office at (908) 835-2819.

## **Failure Policy**

There are ample tutoring help sessions and other avenues for improvement available to students who seek assistance. If a student fails for the year, he/she will be notified in writing of the status of the course make-up possibilities. If a student fails any subject for the year, he/she will have to make arrangements through the guidance department to take summer school classes.

If a student fails three or more classes or his/her career major\* for the year, he or she will need to transfer back to their home school district. A letter explaining the justification for this change in academic placement will be sent at this time, which outlines the appeal procedure for this decision.

\*FEE BASED CREDIT RECOVERY OPTIONS EXIST ONLY FOR ACADEMIC COURSES.

\*THERE ARE NO CREDIT RECOVERY OPTIONS FOR CAREER MAJORS IN SUMMER SCHOOL.

## **State Assessment Requirements**

Starting with the Class of 2021, students will only have two pathways to meet the high school graduation assessments requirements:

- (1) Pass the PARCC Algebra 1 and English language arts/literacy (ELA) grade 10 assessments; or
- (2) The submission by the district of a student portfolio through the NJDOE's portfolio appeals process, assuming the student has taken all PARCC assessments associated with the high school level courses for which they were eligible\* and received valid scores.

Each school year the NJDOE will determine the proficiency level needed on the assessments to meet the requirement.

## **Program Selection**

With the assistance of their counselor, using the recommendations provided by their classroom teachers, students will select their courses. Parents are encouraged to contact the counselor if they have any questions regarding course selection. A typical program consists of eight periods of instruction, usually four academics, physical education one/two electives, and two/three career and technical education. Courses are offered based upon student enrollment. Under-enrolled courses may be cancelled prior to school opening. Students are required to select alternate elective courses in priority order. To meet the needs of competitive universities, a challenging academic schedule should include four years of coursework in English, mathematics, Social Studies, and Science and at least two years of a foreign language.\* Additional consideration will be given for Honors and Advanced Placement courses.

\*Students who desire three years of a foreign language may take Spanish II and/or Spanish III via Virtual High School (VHS) during the 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grade school year or over the summer.

## **Course Level Recommendation**

Any decision concerning a student's course placement will be made cooperatively between

classroom teachers and guidance staff using the following criteria.

- Current academic achievement
- Motivation, study habits, effort, and maturity.
- Honors and AP level class may require submission of examples of student work and/or interview.

### **Schedule Changes**

A change in a student's schedule must have merit and meaning behind it. Students are encouraged to review their schedule the week before school begins and email any transfer requests to their guidance counselor. After September 30<sup>th</sup>, no schedule changes will be made unless warranted by the Child Study Team or the Administrative team. Seniors will be given first priority.

### **Career & College Readiness**

In addition to the career training offered at Warren Tech, the school also offers a traditional high school curriculum that prepares students for college. Warren Tech has several Dual Enrollment courses and Articulation Agreements in place with colleges and universities including Warren County Community College, Rutgers, and NJIT. Tech also offers Advanced Placement, Honors, and College Prep courses.

### **Structured Learning Experiences (SLE)**

Structured Learning Experiences (SLE) are designed for students who would like to work in their field of interest. An SLE can be during or after school and be paid or unpaid and can last from a few days to months. These experiences are structured supervised activities that may take place in a workplace or agency or a non-profit community organization. The SLE experiences are designed to give students structured, supervised activities that will assist them to clarify career goals, explore career possibilities, develop employable skills, or make the transition between school and employment or further education and training. All structured learning experiences must adhere to applicable state and federal child labor laws and other rules of the State Departments of Education and Labor. Structured learning experiences may include, but are not limited to: apprenticeships, internships, job shadowing, cooperative education, school-based enterprises, volunteer activities, and vocational student organizations.



# Course Descriptions – Career and Technical Education

*Warren County Technical School requires that all students complete fifty credits in their chosen Career and Technical Education Program. Students may only change career majors during their ninth grade year. Warren County Technical School offers 15 distinct Career Major Programs.*

Automotive Technology

Building Technology

Child Development

Television, Radio & Digital Media

Computer Programming

Cosmetology

Electrical Applications

Electronics Technology

Engineering

Graphic Arts

Health Science

Culinary Arts

Law and Public Safety

Welding

# Automotive Technology

## Required Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Automotive Technology I 5 Credits 49 Min. per Day	Automotive Technology II 10 Credits 92 Min. per Day	Automotive Technology III 15 Credits 140 Min. per Day	Automotive Technology IV 15 Credits 140 Min. per Day

## Program Description

The Automotive Technology Career Major Program is a comprehensive course of study that incorporates all aspects of the automobile. Students explore automotive systems and their components and learn how to apply operating principles, diagnose malfunctions, and perform a full range of automotive repairs.

The Warren Tech automotive facility is an ASE (Automotive Service Excellence) certified shop which provides students with the opportunity to not only learn from certified master mechanics, but also gain hands-on experience and earn ASE Industry Certifications.

These certifications make graduates of this program very marketable to prospective employers. Students in this program are assisted with job placement opportunities through Warren Tech's Structure Learning Experience (SLE) that allows students to obtain employment and receive high school credit for it during the school day.

Students in the Automotive Technology Program have a variety of post-secondary options. Students enrolled in Automotive Technology classes at Warren Tech are prepared to continue their education through a partnership with Warren County Community College where they are able to earn up to 16 credits towards their Associate's Degree while still in high school.

Warren Tech automotive students are also introduced to automotive trade schools and are prepared to continue their education at one of the schools. Warren Tech graduates from this program have continued their education at Universal Technical Institute (UTI), Lincoln Tech, BMW Service Technician Education Programs, and other technical programs.

Automotive Technology students are also prepared to enter the workforce straight out of high school. By successfully completing the four year course of study, student have the skills and certifications that they need to begin a career as an automotive technician.

# **Building Technology**

## **Required Course Sequence**

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
Building Technology I 5 Credits 49 Min. per Day	Building Technology II 10 Credits, 92 Min. per Day	Building Technology III 15 Credits, 140 Min. per Day	Building Technology IV 15 Credits, 140 Min. per Day

## **Program Description**

The Building Technology program at Warren Tech is a comprehensive course of study that incorporates all aspects of building and construction. Students explore a full range of construction trades, gaining mastery of critical skills including blueprint reading, masonry and foundation work, carpentry and framing, siding, roofing, and finish work including spackling, painting, flooring, and millwork.

Students have the opportunity to work on a wide variety of custom ordered construction projects and other hands-on work. Students are assisted with job placement opportunities through Warren Tech's Structure Learning Experience (SLE) that allows students to obtain employment and receive high school credit for it during the school day.

At the completion of the program, students have successfully achieved the skills to work in a variety of fields. Students in this program are also able to obtain industry certifications such as the S/P2 Safety & Pollution Prevention Training and OSHA credentials.

Students in the Building Technology Program have a variety of post-secondary options. Students enrolled in the Building Trades Academy at Warren Tech can begin preparing for two or four-year college programs by pairing their shop program with college prep courses. This career path is one way for our students to master the skills necessary to start them on the path of owning their own construction company. Students also have the opportunity to continue their technical training at trade schools such as Triangle Tech.

Students in the Building Technology Career Major are also prepared to enter the workforce upon graduating from Warren Tech. Students develop in demand construction skills that can help them obtain employment with union and independent contractors or in the home improvement and construction supplies retail industry. Students in this program are assisted with job placement opportunities to include Warren Tech's Structure Learning Experience (SLE) that allows students to obtain employment while still a student.

# **Child Development**

## **Required Course Sequence**

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
Child Development I 5 Credits 49 Min. per Day	Child Development II 10 Credits 92 Min. per Day	Child Development III 15 Credits 140 Min. per Day	Child Development IV 15 Credits, 140 Min. per Day

## **Program Description**

The Child Development Career Major introduces students to the developmental characteristics of children, including physical, emotional, and cognitive development. Students in this career are prepared for professions in child care and education and learn many of the skills required for working with children of various ages. In this program, students work towards obtaining industry credentials including Child Development Associate (CDA) certification, which is the most widely recognized credential in early childhood education.

Students in this program gain hand-on experience working in an active preschool run by the students in the program. Under the guidance of the instructor, students develop and teach lessons and activities to pre-school students. These field experiences are in concert with the laws governing professional child care training facilities. In addition to experience with preschool age children, students in the Child Development Career Major gain experience writing lessons and activities designed for students of varying ages and ability levels.

Many students in the Child Development Program continue their education at a two or four-year college or university. Students in this pathway traditionally are seeking future employment in education as a teacher, guidance counselor, or educational support staff. By completing this four-year program of study, students have the ability to earn up to 9 college credits through an articulation agreement with Warren County Community College. The curriculum allows students to gain experience working with young children and in developing and implementing lessons while preparing for college teacher preparation programs.

Students in the Child Development Career Major also have the opportunity to enter the workforce directly upon graduation from Warren Tech. Students who choose this option generally seek employment after high school in child care centers or other venues working directly with small children.



## **TV, Radio & Digital Media**

### **Required Course Sequence**

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
TV, Radio & Digital Media I 5 Credits 49 Min. per Day	TV, Radio & Digital Media II 10 Credits 92 Min. per Day	TV, Radio & Digital Media III 15 Credits 140 Min. per Day	1 TV, Radio & Digital Media III 5 Credits 140 Min. per Day

### **Program Description**

The TV, Radio & Digital Media Career Major is a comprehensive, process-centered program which prepares students interested in the area of multi-media production for careers in the field. Students integrate digital video, graphics, sound, and animation to create a wide range of projects. Students have the opportunity to experience instruction in audio and video production and editing. Students are further able to combine these processes to create professional and industry appropriate projects and production pieces.

Students in their third year of this program produce a daily news broadcast which informs students and staff of school happenings and important announcements. They rotate through the crew positions and create their own segment to add once a week. This real world experience takes place in a state of the art studio with cutting edge equipment, preparing students for work in the television production.

Students learn all aspects and parts of the production process, from the initial storyboard to distribution. The career major program offers students the opportunity to work on long-term assignments, such as documentaries, short movies, and a variety of live practical jobs.

The Warren Tech TV, Radio, & Digital Media Career Academy provides students with the skills needed to pursue a post-secondary education in television and radio production at colleges and universities. Field trips to real-life studios enhance students' experience in the program. Past field trips have included professional studios such as FOX News, WRNJ Radio, and WWE Studios.

The project-based approach prepares students with the skills needed for seamless entry into colleges where they can continue their education needed for employment in the field of TV, Radio, & Digital Media.

# **Computer Programming**

## **Required Course Sequence**

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
Computer Programming I 5 Credits 49 Min. per Day	Computer Programming II 10 Credits 92 Min. per Day	Computer Programming III 15 Credits 140 Min. per Day	Computer Programming IV 15 Credits, 140 Min. per Day

## **Program Description**

In the Computer Programming Career Major, students will learn the fundamentals of computer programming, as well as some advanced features of the Python language.

In the four year course of instruction, students begin by learning the basics of computer programming before advancing to more complex applications and concepts. Students begin their programming by using an intuitive graphical learning environment that allows them to visually learn key programming concepts such as commands, loops, and functions. This background will prepare students to write real-world standalone Python programs.

Throughout the sequence of courses students will write programs that solve a variety of problems and complete a large variety of tasks. Students are also introduced to Object Oriented Programming.

Much of the program is project based. Students are able to apply the skills that they have learned on multiple, long-term, student-selected programs. Students learn about customer relations, working in cooperative teams, and creative thinking and problem solving. These skills prepare students for the workplaces of the 21<sup>st</sup> Century.

Warren Tech Computer Programming Career Major provides students with the skills needed to pursue a post-secondary education in the discipline. Students in this program produce live projects and have the opportunity to work with a variety of programs and equipment.

# Cosmetology

## Required Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Cosmetology I	Cosmetology II	Cosmetology III	Cosmetology IV
5 Credits	10 Credits	15 Credits	15 Credits
49 Min. per Day	92 Min. per Day	140 Min. per Day	140 Min. per Day

## Program Description

The Cosmetology Career Major is a four-year program designed to prepare students for a career in the cosmetology and barbering fields. The state licensing program is preparing students for the New Jersey State Board of Cosmetology and Hairstyling exam. The program introduces students to skills that can be used in a variety of careers including barber, beautician, hairstylists, manicurists, and skin care specialists. The program provides students with guided, hands-on clinical training through the operation of a salon which is open to the public. In addition to this practical training, students are taught all required academic material for licensure, including color theory, hygiene and sterilization, and cosmetology related chemistry.

Students take the written and practical components of the state licensing exam at the end of their senior year. Upon passing these exams, students obtain licensure in the State of New Jersey to begin a career in the field.

Many students enrolled in the Cosmetology Career Major continue their education in college. Some pursue degrees in fashion or related fields and use their education in cosmetology as a foundation for those programs. Others use their cosmetology license to begin working in rewarding careers while pursuing a college education in other areas.

The Cosmetology Career Major prepares students for employment immediately upon licensure. The program also prepares students for future entrepreneurial opportunities in operating a salon or barber shop. Students in the program operate a full service clinical salon on campus and learn the important soft skills that are needed to be successful in service industries including customer service, teamwork, and cooperative problem solving.

# Culinary Arts

## Required Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Culinary Arts I	Culinary Arts II	Culinary Arts III	Culinary Arts IV
5 Credits	10 Credits	15 Credits	15 Credits
49 Min. per Day	92 Min. per Day	140 Min. per Day	140 Min. per Day

## Program Description

The Culinary Arts Career Major is a comprehensive four-year program that prepares students for college hospitality programs as well as various positions in the food service industries. In this program students learn and practice management techniques, food production, food purchasing, safety, nutrition and sanitation. Students gain hands on experience in restaurants facilities operations through running an in-house restaurant that is open to the public several days a week. In this restaurant, student complete all of the tasks required in running a restaurant, providing valuable experience in preparation for future careers.

Students in this program host regular catered events and programs, all while preparing for careers in the field of culinary arts. This program also features an agreement with Warren County Community College that enables students to continue their education at Warren County Community College, where they can earn an Associate Degree in Applied Sciences in Food & Beverage Management. Students also receive their ServSafe certification while at Warren Tech.

Students enrolled in Culinary Arts classes at Warren Tech may choose to continue their education in college culinary programs, other students may choose to enter the workforce directly upon graduation, where they develop in-demand culinary skills in customer service, baking & pastry, and food preparation. Additionally, students in the program obtain a ServSafe certification. Students in this program are assisted with job placement opportunities to include Warren Tech's Structure Learning Experience (SLE) that allows students to obtain employment during the school day while still earning high school credit.

# **Electrical Applications**

## **Required Course Sequence**

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
Electrical Applications I 5 Credits 49 Min. per Day	Electrical Applications II 10 Credits 92 Min. per Day	Electrical Applications III 15 Credits 140 Min. per Day	Electrical Applications IV 15 Credits 140 Min. per Day

## **Program Description**

The Electrical Applications Career Major at Warren Tech prepares students for in demand careers as residential, commercial, or industrial electricians. The program also prepares students with a strong foundation of knowledge should they choose to continue their studies in an electrical engineering college program.

This four year course of study introduces direct current theory, alternating current theory, and Ohm's law. These principles provide students with a thorough understanding of how electricity works. Students are also able to apply this information in a variety of practical applications. Students draw, build, and troubleshoot real circuits under the direct supervision of the instructor. Students gain hands-on experience completing electrical installation and repair in real world settings.

Students explore the ever changing environment of residential, commercial, and industrial, and electrical applications. Students are prepared for current careers as they are introduced to modern technology such as home automation technology.

Through collaboration with the local electrical union, students completing this program may qualify to enter into the IBEW Local #102. Graduates from Warren Tech's Electrical Applications program will have an advantage in applying for a New Jersey electrical contracting licenses

Although many students in this program choose to continue their education at a two or four-year college or university, students in the Electrical Applications Career Major are prepared to pursue jobs upon graduating from Warren Tech. Students develop in demand commercial, industrial, and residential wiring skills that help them obtain employment with union and independent contractors or in the home improvement and construction supplies retail industry. Students in this program are assisted with job placement opportunities to include Warren Tech's Structure Learning Experience (SLE) that allows students to obtain employment while still a student.

## Electronics Technology

### Required Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
No current enrollment	No current enrollment	Electronics Technology III 15 Credits 140 Min. per Day	Electronics Technology IV 15 Credits 140 Min. per Day

### Program Description

Warren County Technical School's Electronics Technology Career Major is a comprehensive program covering electronic theory. The program starts with basic electrical circuits and progresses through complex circuit analysis. The theory learned is applied to advanced programming of microcontroller circuits.

Students who complete this program will have the ability to either seamlessly integrate into the work environment or go onto institutions of higher learning. Much of the information taught in the program is taught at the college level, preparing students for post-secondary education. Students pass industry certification exams such as A+ for computers or CEA for electronic technicians.

The program starts with an introduction to skills needed for many careers in electronics. Students are trained to utilize common test instruments while learning about circuit construction. Student's progress to advanced electronic theory, including the basics of semiconductors and power supplies, transistor theory, and amplifier circuits.

Students' progress to Digital concepts. This theory forms the basis for students to learn computer/network troubleshooting and maintenance. Students are also introduced to robotic concepts, computer microcontrollers and their programming. Students are challenged to write software which controls various robotic devices. In the final year of the program students pick one or more specialized topics to study. These topics include: project design and management, A+ computer repair and maintenance, or technology for green renewable energy. Throughout this school year, students take one of many industry-accepted, certification exams in computers, electronics, or energy. Students in this program design and build real life projects using advanced electronic theory as well as modern technology and equipment.

# **Engineering**

## **Required Course Sequence**

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
Engineering I 5 Credits 49 Min. per Day	Engineering II 10 Credits, 92 Min. per Day	Engineering III 15 Credits, 140 Min. per Day	Engineering IV 15 Credits, 140 Min. per Day

## **Program Description**

The Warren Tech Engineering Career Major provides students with the skills needed to pursue a post-secondary education in Engineering, Design, Manufacturing and/or Architecture. The use of two dimensional and three dimensional Computer Aided Drafting and Design (CADD) software (AutoCAD, Inventor and Revit) is an essential tool applied within this program. The program also provides architecture practices involved in the design and layout of residential floor plans, elevations and site plans according to the National CAD Standard (NCS).

Students in the program develop the technological literacy and problem solving skills that are invaluable in their first year post-secondary education. The program offers experiences in FIRST Tech Challenge (FTC) in which students design, build, program, and operate robots. Students develop STEM skills and practice engineering principles while realizing the value of hard work, innovation, fund raising, design and marketing. The teams also do community outreach for which they can win awards.

Students in the engineering program learn to solve problems. Students in this program have the opportunity to be creative and independent thinkers as well as collaborators on teams. In these student led projects, students are able to apply the academic concepts that they are learning to hands-on applications.

In the Engineering program students are introduced to safe operation of various manufacturing tools and equipment (drill press, milling machine, lathe and rapid prototype machine). They are also introduced to numerous software programs that are used regularly in the industry.

Students in the Engineering program prepare for admission into post-secondary engineering and architecture programs. Students have the opportunity to earn college credit from the New Jersey Institute of Technology (NJIT) while a student at Warren Tech. Students who complete the program have a good foundation of knowledge entering college.

# Graphic Arts

## Required Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
No current enrollment	Graphic Arts II 10 Credits 92 Min. per Day	Graphic Arts III 15 Credits 140 Min. per Day	Graphic Arts IV 15 Credits 140 Min. per Day

## Program Description

In Graphic Arts students develop skills in developing, designing, and producing a wide variety of products. Students explore technologies of design, printing, publishing, and packaging processes that are required for graphic arts, commercial advertising, and marketing industries. The four-year program of study encompasses all graphic processes from origination of the idea to the production, finishing, and distribution of the finished products.

The program involves the creation of multi-dimensional products and electronic transmissions. It integrates technologies of pre-press, digitizing, interactive multimedia, digital imaging, and desktop publishing. All of the printing methods, such as offset lithography, letterpress, screen printing, engraving, foil stamping, thermography, heat-transfer, embossing, laser printing, vinyl cutting, and other electronic imaging and reproduction methods are learned in this program. Post-press operations, which include folding, cutting, fastening, personalizing, and product distribution are stressed throughout the program.

Students work extensively with computerized design programs, preparing them for current careers in printing, design, and advertising careers. Finally, students work on live projects for real customers and develop skills in customer service, sales, and marketing. These hands-on projects allow students to apply everything that they have learned to real life situations similar to what they will find in industry.

Students in the Graphic Arts Career Major may choose to continue their education at two or four year colleges studying Advertising or many types of design and production programs. In addition, students finish the programs with skills that make them marketable to employers in the field immediately upon graduation.



# **Health Science**

## **Required Course Sequence**

<b>9<sup>th</sup> Grade</b>	<b>10<sup>th</sup> Grade</b>	<b>11<sup>th</sup> Grade</b>	<b>12<sup>th</sup> Grade</b>
Health Science I	Health Science II	Health Science III	Health Science IV
5 Credits	10 Credits	15 Credits	15 Credits
49 Min. per Day	92 Min. per Day	140 Min. per Day	140 Min. per Day

## **Program Description**

Warren County Technical School's Health Science Career Academy introduces students to the expansive career paths available in health care. The core curriculum emphasizes science, the human and organizational side of health care, and clinical experience. The program is designed to prepare students to enter the health care work force and/or further their education that facilitates their higher educational experience. Warren County Technical School partners with Rutgers University to offer successful students the opportunity to earn college credits at no charge.

Students start with an introduction to health sciences career possibilities and an overview of anatomy and physiology. Students also gain exposure to professionals and real life experiences in the field through required shadowing opportunities. Students in the program study medical ethics, medical terminology, medical math, anatomy & physiology, chemistry, and psychology as they prepare for post-secondary opportunities. Dynamics of Health in Society, Medical Mathematics, Medical Terminology, Anatomy & Physiology I and II are thoroughly taught with incentive undergraduate credits through Rutgers University - The School of health Related Professions.

Students enrolled in the Warren Tech Health Sciences Shop will receive a rigorous curriculum outlined by Rutgers University that prepares them with the necessary foundation to launch their future health care endeavors. Students will have the potential of earning a total of 17 undergraduate credits through Rutgers University along with 6 dual-enrollment credits through Warren County Community College (WCCC) that might be transferrable to a lot of health related programs. Students will explore a variety of career paths within the Health Science field and prepare for future professional plans.

Students enrolled in the Health Sciences program at Warren Tech will be prepared for college programs in the health science field. Health Sciences students also have the option of continuing their education at two year schools such as WCCC, where they can pursue an Associate's Degree and licensing as a Registered Nurse or Medical Assistant. Students also have the opportunity to continue their education at Warren Tech's Adult Education Post-Secondary School with automatic enrollment where they can complete their degree as a Licensed Practical Nurse (LPN). Many students follow the path of completing the LPN degree first so they can enter the workforce sooner and then transition into the more advanced nursing degrees.

# Law and Public Safety

## Required Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Health Science I 5 Credits 49 Min. per Day	Health Science II 10 Credits 92 Min. per Day	Health Science III 15 Credits 140 Min. per Day	Health Science IV 15 Credits 140 Min. per Day

## Program Description

The Law & Public Safety and Program at Warren Tech prepares students to pursue a variety of careers in the public safety industry. Students in the program go on to college, pursue careers as police officers, emergency service personnel, Wildlife, Fish Game Officers, Armed Forces and more.

Students learn about basic first aid, crime scene processing, CPR, report writing, forensics, crime scene investigation, evidence gathering technique, the legal system, the court system, specialized first aid/AED including extrication, fire extinguisher use, traffic control, and power line incidents. Students in this program will complete summonses and criminal complaints along with completing the required investigative reports. Interviewing and interrogation skills will also be developed. Students participate in the simulation exercises offered by associated local officers and agents of these offices are brought in for ancillary instruction.

Certifications such as First Responder, CPR/AED, ICS 100 & 700, and HAZ-MAT can be obtained. The Warren Tech Law & Public Safety Career Major prepares students for a variety of paths upon completion of the program. Students are prepared for college, law enforcement, military, and emergency responder careers.

Students enrolled in the Law & Public Safety Academy classes at Warren Tech are prepared for college. Many students pursue college degrees in law enforcement, criminal justice, and corrections programs. Students who pursue an Associate's Degree at WCCC are able to earn up to 12 college credits while at Warren Tech. Law & Public Safety students are also prepared for military careers. Students will participate in activities with local military recruiters and be introduced to careers in the armed forces. Some students in this program focus on becoming employed in the field upon graduation from Warren Tech. These students may earn emergency responder certifications and network with local law enforcement agencies to become exposed to a variety of careers in public safety.

# Welding

## Required Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Welding I 5 Credits 49 Min. per Day	Welding II 10 Credits, 92 Min. per Day	Welding III 15 Credits, 140 Min. per Day	Welding IV 15 Credits 140 Min. per Day

## Program Description

The Welding program at Warren Tech teaches skills, values, and work ethic essential to future welders, fabricators, machinists, and engineers. Our diversified curriculum starts by emphasizing fundamentals such as safe working practices, math, measurement, and the use of hand and power tools. Students advance to learn Oxy-Fuel cutting, plasma cutting, air carbon arc gouging, forging, metallurgy and heat-treating.

Project work forms an important part of our training and varies in scope from small repairs to large complex projects that require significant evaluation, design and fabrication. These opportunities allow our students to learn time and resource management, customer relations, production and process control. In some instances, the students have formed a business that has incorporated marketing and other business functions to provide a product for profit. Layered with the classes and projects is training in making and reading drawings, the use of machine tools (metal lathe and vertical mill), and weld inspection techniques.

Business fundamentals are developed through practice in quoting and tracking performance on real jobs, research into the history of technology, and many field trips to a variety of manufacturing businesses and work sites. Students in the Welding program are prepared to pursue jobs upon graduating from Warren Tech. Students develop in demand skills that can help them obtain employment with union and independent contractors. Students in this program are assisted with job placement opportunities to include Warren Tech's Structure Learning Experience (SLE) that allows students to obtain employment while still a student.



## Virtual High School (VHS) \*

Courses designated by VHS are Virtual High School Course options. Warren County Technical School offers several AP courses and electives via the online platform, Edgenuity.

Edgenuity's award-winning courses combine rigorous content with direct-instruction videos from expert, on-screen teachers with interactive learning tools and resources to engage and motivate students.

Each class is staffed with a certified Warren Tech teacher who can assist students in navigating the platform and troubleshooting platform concerns. Edgenuity provides technological assistance directly to students in real-time and Edgenuity instructors can answer specific academic questions.

**\*Virtual High School (VHS) course descriptions can be found at the end of the Course of Study**



## Course Descriptions – Special Education

The special education programs are structured to address the goals and objectives in each student's Individualized Education Plan (IEP), and are designed to provide students with disabilities a number of options in order to complete the necessary requirements to obtain a high school diploma.

Within the high school setting, the continuum of options offered to students with disabilities includes general education classes, resource programs and special class programs. In most cases, the courses provide a structure that parallels the regular high school program, but is flexible enough to accommodate the instructional needs of the students' Individualized Education Plan. All special education curricula address the New Jersey Student Learning Standards. The classes are designed to facilitate skill development while supporting transition to adult-life in the least restrictive environment. All special education program placements are determined through the IEP team process.



## Course Descriptions – English

*As required by the State of New Jersey, all students are required to successfully complete 20 credits in English in order to graduate from high school.*

### The English Recommended Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
English 9 Honors English 9	English 10 Honors English 10	English 11 Honors English 11 AP English Literature & Composition VHS	English 12 Honors English 12 AP English Language & Composition VHS

*Honors courses follow a similar curriculum to the general level courses. However, students in honors courses should expect more independent work, a higher level synthesis and analysis of course material, a large number of extension activities, and opportunities for enhancement and enrichment of the curriculum. In addition, modified version of these courses are offered for students with individualized learning needs.*

### English 9

**5 Credits**

English 9 is the first of four English courses required for graduation at Warren County Technical School as dictated by the State of New Jersey. Students in English 9 will build upon middle school English Language Arts skills through comprehensive study utilizing a variety of genres including: mythology, short stories, novels, informational texts, drama, essays, oration, and memoir. During student’s literature exploration special emphasis will be placed on the development of critical reading strategies and vocabulary building. As this course is driven by the demands of the New Jersey Student Learning Standards, the inclusion of several content rich non-fiction pieces will be studied as well. Additionally, students will be asked to complete assignments and assessments developed to promote the skills of incorporating evidence from text, in both literary and informational pieces. Students can expect to enjoy regular practice with complex text and academic language. Writing about the texts they read is an important developmental skill for our students at Warren County Technical School. Ninth-grade students will complete a variety of in-class and independent writing assignments throughout the course including narrative, explanatory, summary, and persuasive essay. Writing assignments are designed to enhance the concepts and skills taught through lecture, discussion, and reading activities. Timed-writing assignments, open ended questions, journaling, and multi-paragraph

essays will all be featured in the class. Students will practice their research skills to produce evidence that enhances the thesis of their essays. Finally, students are expected to present their ideas orally, both formally in speeches or presentations, and informally in class discussions. Opportunities for speaking and listening activities will be afforded frequently for the duration of the course

## **English 10**

**5 Credits**

Warren County Technical School's English 10 course is the second of four English courses required for graduation at Warren County Technical School as dictated by the State of New Jersey. Students in English 10 classes will build upon English Language Arts skills through the comprehensive study of various literary genres including: poetry, short story, historical documents, novels, nonfiction texts, and drama. During students' literature exploration special emphasis will be placed on the development of critical reading strategies and vocabulary building. As this course is driven by the demands of the New Jersey Student Learning Standards, the inclusion of several content rich non-fiction pieces will be studied as well. Additionally, students will be asked to complete assignments and assessments developed to promote the skills of incorporating evidence from text, in both literary and informational pieces. Students can expect to enjoy regular practice with complex text and academic language. Writing about the texts they read is an important developmental skill for our students at Warren County Technical School. Tenth grade students will complete a variety of in-class and independent writing assignments throughout the course including narrative, explanatory, summary, and persuasive essays. Writing assignments are designed to enhance the concepts and skills taught through lecture, discussion, and reading activities. Timed-writing assignments, open ended questions, journaling, multi-paragraph essays, and a research paper will be featured in the class. Students will practice their research skills to produce evidence that enhances the thesis of their writing. Finally, students are expected to present their ideas orally, both formally in speeches or presentations, and informally in class discussions. Opportunities for speaking and listening activities will be afforded frequently for the duration of the course.

## **English 11**

**5 Credits**

Warren County Technical School's English 11 course is the third of four English courses required for graduation at Warren County Technical School as dictated by the State of New Jersey. Students in English 11 classes will continue to build upon their English Language Arts skills through the comprehensive study of various literary genres including: poetry, short story, historical documents, novels, nonfiction texts, and drama of the twentieth century. During students' literature exploration special emphasis will be placed on the development of critical reading strategies and vocabulary building. As this course is driven by the demands of the New Jersey Student Learning Standards, the inclusion of several content rich non-fiction pieces will accompany the literature presented throughout the course. Additionally, students will be asked to complete assignments and assessments developed to promote the skills of incorporating evidence from text, in both literary and informational pieces. Students can expect to enjoy regular practice with complex text and academic language. Writing in various contexts is an important developmental skill for our students at Warren County Technical School. Eleventh

grade students will complete a variety of in-class and independent writing assignments throughout the course including narrative, explanatory, procedural, summary, research writing, and persuasive essays. Writing assignments are designed to enhance the concepts and skills taught through lecture, discussion, and reading activities. Timed-writing assignments, open ended questions, journaling, multi-paragraph essays, and prepared statements will be featured in the class. Students will practice their research skills to produce evidence that enhances the thesis of their writing, cited properly in MLA format. Finally, students are expected to present their ideas orally, both formally in speeches or presentations, and informally in class discussions. Opportunities for speaking and listening activities will be afforded frequently for the duration of the course.

## **English 12**

**5 Credits**

Warren County Technical School's English 12 course is the final English class required for graduation at Warren County Technical School and the State of New Jersey. Students in English 12 classes will continue to build upon their English Language Arts skills through the comprehensive study of various literary genres including: poetry, short story, novels, nonfiction texts, essays, and drama of European Literature. During the course special emphasis will be placed on the scaffolding and development of proper research writing skills including: note taking, expository/argument writing, proper citation of evidence, and editing. Mastery of research writing will culminate with each student crafting his or her senior research paper during the third marking period. As this course is driven by the demands of the New Jersey Student Learning Standards, the inclusion of several content rich non-fiction pieces will accompany the literature presented throughout the course. Additionally, students will be asked to complete assignments and assessments developed to promote the skills of citing evidence, recognizing key detail, understanding nuance and author's purpose, and finding main ideas of a text, in both literary and informational pieces. Students will routinely be asked to learn and use new grade twelve vocabulary appropriately. Students will promote the acquisition of new vocabulary through regular practice with complex text and academic language. In addition to their senior papers, students will be tasked with several writing activities, as effective written communication is an essential skill for the futures of Warren County Technical School students. Writing assignments in the early portion of the course will aim to improve student's career and educational writing skills including: resumes, cover letters, thank you notes, formal requests, and college essays. Finally, students are expected to present their ideas orally, formally during presentations, and informally in class discussions. Opportunities for speaking and listening activities will be afforded frequently for the duration of the course.





## Course Descriptions – History

*As required by the State of New Jersey, all students are required to successfully complete 15 credits in History in order to graduate from high school. Students are also required to take the 2.5 credit Personal Financial Literacy Course.*

### The History Recommended Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
World History World History Honors	United States History I United States History I Honors	United States History II AP United States History (VHS)	(Optional) Elective Course (VHS)

*Honors courses follow a similar curriculum to the general level courses. However, students in honors courses should expect more independent work, a higher level synthesis and analysis of course material, a large number of extension activities, and opportunities for enhancement and enrichment of the curriculum. In addition, modified version of these courses are offered for students with individualized learning needs.*

### World History

**5 Credits**

World History is a full year course designed for ninth grade students and is required for graduation at Warren County Technical School as one of the three required social studies courses in the State of New Jersey. The course begins with the examination of the major world religions, as they are a recurring theme during the course and frequently central to the events of today. Following the World Religions Unit, the remainder of World History will provide opportunities for students to acquire a greater understanding of Western Civilization including key eras such as the Renaissance, Age of Exploration, and Enlightenment; which have direct correlations to the founding of our nation. Additionally, students will become familiar with events occurring in several non-Western cultures from Asia, Africa, and South America during the same eras of study. Socio-cultural, governmental, economic, and technological changes will be highlighted throughout the course. The course is aligned with the 2014 New Jersey Student Learning Standards for Social Studies as well as the New Jersey Student Learning Standards for Reading, Writing, Speaking and Listening in Social Studies. During the course teachers will use the content of World History to create opportunities to develop literacy, writing, research, technology, critical thinking, and public speaking skills. Furthermore, teachers will endeavor to connect course material to students' prior knowledge and current events when appropriate.

### United States History I

**5 Credits**

United States History I is a full year course designed for tenth grade students and is required for graduation at Warren County Technical School. United States History I will provide opportunities for students to acquire a greater understanding of the origins and maturation of

our nation. In addition, students will explore the social, economic, territorial, governmental, and political growth of the United States. The course is aligned with the 2014 New Jersey Student Learning Standards for Social Studies as well as the New Jersey Student Learning Standards for Reading, Writing, Speaking and Listening in Social Studies. Students will cover American History from the Colonial Period, circa 1607, through Progressivism culminating in the early 1900s. Throughout the course instructors will reinforce recurrent themes such as: the treatment of women and minority groups, social change, government structure and civic participation. Teachers will use the content of American History to help reinforce literacy, writing, research, technology, critical thinking, and public speaking skills. Furthermore, teachers will endeavor to connect course material to students' prior knowledge and current events when appropriate.

### **United States History II**

**5 Credits**

United States History II is a full year course designed for eleventh grade students and required for graduation at Warren County Technical School. United States History II examines American History from 1914 to 1980. Beginning with a unit on World War I and culminating with the Civil Rights and Social Change Unit. Emphasis will be placed upon the various social, political, economic, and geographic forces which have shaped our nation's growth during the twentieth century and how historical events have shaped the America we live in today. The course is aligned with the 2014 New Jersey Student Learning Standards as well as the New Jersey Student Learning Standards for Reading, Writing, Speaking and Listening in Social Studies. Throughout the course instructors will reinforce recurrent themes such as: the treatment of women and minority groups, economic and foreign policy decisions, social change, government's changing roles and function. Teachers will use the content of American History to help reinforce literacy, writing, research, technology, critical thinking, and public speaking skills. Furthermore, teachers will endeavor to connect course material to students' prior knowledge and current events when appropriate.

### **Introduction to Business/Personal Finance**

**5 Credits**

Introduction to Business/Personal Finance is an introduction to money management strategies with a focus on Savings, Banking, Payment Types, Interest Rates, Credit Cards, Credit Scores, Financing Higher Education, Renting Versus Owning, Taxes and Insurance, Consumer Fraud, and Investing. This course introduces skills and strategies that promote personal and financial responsibility in today's economy. Global lessons learned through the financial crisis of the early 21st century and the countless examples of personal finance misfortunes that ensued, have led to an increased awareness of the importance of personal finance and business education. The class also provides an introductory study of business, focusing on historical beginnings, types of business ownership, problems of production, transportation, promotion, research, marketing, and their inter-relationships. Principles of organization and management, as well as the function of modern business are also examined.



## Course Descriptions – Mathematics

*As required by the State of New Jersey, all students are required to successfully complete 15 credits in Math in order to graduate from high school. Students are required to complete Algebra I, Geometry, and a third course that builds on the concepts and Skills of Algebra I and Geometry*

### The Mathematics Recommended Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Algebra I Geometry* Geometry Honors*	Geometry Geometry Honors Algebra II* Algebra II Honors*	Algebra II Intermediate Algebra Pre-Calculus* Pre-Calculus Honors*	(Optional) Pre-Calculus Pre-Calculus Honors AP Calculus* (VHS) Financial Math (VHS)

\*Students must have successfully completed Algebra I in 8<sup>th</sup> Grade and taken the PARCC assessment to enroll in Geometry during Grade Nine, Algebra II in Grade Ten, and Pre-Calculus in Grade Eleven.

*Honors courses follow a similar curriculum to the general level courses. However, students in honors courses should expect more independent work, a higher level synthesis and analysis of course material, a large number of extension activities, and opportunities for enhancement and enrichment of the curriculum. In addition, modified version of these courses are offered for students with individualized learning needs.*

### Algebra I

**5 Credits**

The Algebra I course is designed to be taken by nearly all freshman level students at Warren County Technical School as one of the three high school math courses required for graduation in the state of New Jersey. The course is aligned with the New Jersey Student Learning Standards for Mathematics and closely mirrors the New Jersey Model Curriculum for Algebra I. The content presented in Algebra I is designed to build upon and deepen understandings of mathematics concepts introduced on the Middle School level. The course features General Education and Honors sections as well as the Intensive Section, which features a double period of instruction allowing struggling math students extra preparation, attention, and time for reinforcement lessons to address gaps in their math training. The Algebra I course is divided into five Units: Relationships between Quantities and Reasoning with Equations, Linear Relationships, Expressions and Equations Functions and Modeling, and Descriptive Statistics. Each Unit will feature chapter assessments and culminate with a department wide unit exam with questions aligned in style and content with those found on the PARCC Algebra I assessment. This is intended to better prepare our students for PARCC Testing and provide appropriate data for remediation, instructional improvements, and test preparation. Additionally, teachers are encouraged to incorporate technology into their

instruction, practice, and assessment to ease any anxiety toward computer based standardized tests. The scope and sequence of the course is aligned with the New Jersey Model Curriculum. In Unit 1 instruction will set the stage for work with expressions and equations through understanding quantities and the relationships between them. The work in Unit 2 will build on middle school mathematics concepts for linear and exponential relationships. Success in Unit 2 will lay the groundwork for later units where the students will extend this knowledge to quadratic and exponential functions. The standards included in Unit 3 blend the conceptual understandings of expressions and equations with procedural fluency and problem solving. The students will not encounter solutions of quadratic equations that are complex. The standards presented in Unit 4 involve functions and extending the concepts of integer exponents to concepts of rational exponents. The understandings will be applied to other types of equations in future courses. Unit 5 will build on previous work with descriptive statistics. Linear models will be used to assess how a model fits data.

### **Geometry**

**5 Credits**

Geometry is the second course in the high school mathematics sequence and one of the three required years of mathematics coursework for graduation in the state of New Jersey. The course is aligned with the New Jersey Student Learning Standards for Mathematics and is designed to afford the opportunity for Warren County Technical School students to formalize and extend on their middle grades geometric experiences. Students in the Geometry course will explore and solve problems related to two and three dimensional figures including polygons, circles, spheres, and polyhedrons. Additionally, students will detail their logical thinking in problem solving through various forms of proofing their geometric equations. Students will explore how geometric concepts relate to the world around them and how they are applied in various professions and real world activities. Students will incorporate technology into their learning and assessments in preparation for online testing and employment in the 21st Century.

### **Algebra II**

**5 Credits**

The Warren County Technical School's Algebra II course centers on the application and further development of the fundamentals skills built in Algebra I. Algebra II can serve as one of the three high school level mathematics courses required for graduation at Warren County Technical School and in the state of New Jersey. In the course concepts learned in Algebra I such as linear, quadratic and exponential functions are reinforced and extended to new concepts of polynomial, rational, and radical functions. Algebra II challenges each student to use problem solving and critical thinking skills in each course unit. The curriculum is structured to build from the Algebra I curriculum while using aligned course materials enabling seamless instruction of all algebraic concepts by Warren County Technical School's mathematics department. The curriculum is crafted to demonstrate logical structure of mathematics and through graphing components students are able to model real world applications of several course concepts. Additionally, the course is essential for those students who intend to seek educational opportunities at a two or four-year college or university and includes several topics essential for those who wish to pursue further study of high level mathematics.

**Intermediate Algebra****5 Credits**

Intermediate Algebra is intended for students who have taken Algebra I and Geometry and are not yet ready for Algebra II. The content provides a solid foundation of concepts and skills to serve as an appropriate bridge course to Algebra II. This course provides students with tools to represent and solve real-life problems in a variety of ways. Intermediate Algebra will build on algebra and geometry skills as well as explore/apply the concepts of problem solving, number systems, and statistics. The course meets the New Jersey Graduation requirement for a third year of mathematics building upon the foundational courses of Algebra I and Geometry.

**Pre-Calculus****5 Credits**

This course is designed to prepare students for a college level Calculus or Algebra Class. The course covers topics in Algebra ranging from polynomial, rational, and exponential functions to conic sections. Trigonometry concepts such as Law of Sines and Cosines will be introduced. Students will then begin analytic geometry and calculus concepts such as limits, derivatives, and integrals. At the completion of this course, students will be prepared to take the AP Calculus A/B course.

**Honors Calculus****5 Credits**

The Honors Calculus course at Warren County Technical School follows a rigorous college-preparatory curriculum. The course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. Before studying calculus, all students should complete the equivalent of four years of secondary mathematics designed for college-bound students: courses which should prepare them with a strong foundation in reasoning with algebraic symbols and working with algebraic structures. Prospective calculus students should take courses in which they study algebra, geometry, trigonometry, analytic geometry, and elementary functions.

**Computer Programming****5 Credits**

The Warren Tech Basic Computer Programming course teaches the fundamentals of computer programming as well as some advanced features of the Python language. Students use what they learn in this course to build simple console-based games. This course is equivalent to a semester-long introductory Python course at the college level. In this course, students learn the fundamental concepts of programming - concepts that can be applied in the study of any programming language. Students also dive into specific features of the Python programming language.



## Course Descriptions – Science

*As required by the State of New Jersey, all students are required to successfully complete 15 credits in Science in order to graduate from high school. Students are required to take Biology and two other laboratory sciences.*

### The Science Recommended Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Environmental Science Environmental Science Honors	Biology Biology Honors	Chemistry Chemistry Honors Earth Science Forensic Science	(Optional) AP Chemistry Physics Honors Forensic Science

*Honors courses follow a similar curriculum to the general level courses. However, students in honors courses should expect more independent work, a higher level synthesis and analysis of course material, a large number of extension activities, and opportunities for enhancement and enrichment of the curriculum. In addition, modified version of these courses are offered for students with individualized learning needs.*

#### **Environmental Science**

**5 Credits**

The Environmental Science course is intended for ninth grade students and will serve as one of the three years of science preparation required for graduation at Warren County Technical School and in the state of New Jersey. This course has been designed with respect to and in compliance with the expectations set forth in the Next Generation Science Standards and New Jersey Student Learning Standards for ELA and Mathematics in Science. The course is intended to provide a detailed examination into the environmental systems of the Earth and how humans and technology impact the environment. Students will examine Earth's Systems, Ecosystems, and Biomes in addition to analyze the relationship of humans with the environment. Topics in Environmental Science will be modeled and examined through a series of laboratory investigations and case studies. Major areas of Environmental Science covered in the course are: ecosystems and biomes, populations, water resource management, atmospheric systems and climate, waste management, non-renewable and renewable energy, and the impact of humans on the environment. This course will provide students at Warren County Technical School with a thorough understanding of the Earth and its systems as well as the short and long term effects caused by humans on these systems. The goal of this course is to not only provide students with an understanding the implications of human actions, as well as, to provide insights as to what can be done to reduce or improve these issues for the future.

**Biology****5 Credits**

The Warren County Technical School Biology course is designed with respect to the expectations set forth by the Warren County Vocational and Technical district, the state adopted Next Generation Science Standards and the End of Course Biology Exam. The rigor, expectations, and demands of the course will vary as teachers adjust the curriculum for the honors, general education, and departmentalized sections. Through the study of biology, students will acquire a clear understandings of key biological concepts and ideas, comprehend the relevance of biology as an integral part of their everyday lives, and promote an interest in life sciences. Topics cover scientific-inquiry, basic chemistry and biochemistry, cell structure and function, energy relationships, genetics and molecular genetics, evolution, and ecology. Congruent with other Warren County Technical School science courses, laboratory activities will play a large role in the study and application of concepts learned during the course. Students will learn to develop positive group dynamics, organizational skills, and deductive reasoning during laboratory activities. Students will be instructed in the course through a variety of methods designed to ultimately prepare them for success on the New Jersey end of course exam.

**Chemistry****5 Credits**

Warren County Technical School's Chemistry class is a laboratory-based course providing a comprehensive foundation in the field of chemistry for students whose future career goals include college attendance. The Chemistry curriculum is fully aligned with the state adopted Next Generation Science Standards. Instruction will promote the understanding of chemical principles, methods for conducting quantitative analysis and the completion of laboratory experiments during scheduled laboratory sessions. A major emphasis will be placed on mathematical modeling and error analysis throughout the course. Topics covered in the course include the periodic table, stoichiometry, gas laws, chemical reactions, solution chemistry, atomic structure, bonding, thermochemistry, kinetics, chemical equilibrium and nuclear chemistry.

**Earth Science****5 Credits**

The Earth and Space Science course is intended for eleventh or twelfth grade students and will serve as one avenue toward the completion of the third year of required science coursework for graduation in the state of New Jersey. This course has been designed with respect to and in compliance with the expectations set forth in the Next Generation Science Standards. Earth and Space Science will provide detailed exploration and understanding of the Earth, its systems, and introduce many space science concepts. The Scientific Method will be used to examine Earth and Space systems and how these systems work in concert to provide a steady equilibrium to Earth's progression. Earth and Space Science units of study include; The History of Earth, Earth Systems, Weather and Climate, and Space Systems. This course will provide the students of Warren County Technical School with a solid understanding of the Earth and our Solar System. An additional goal of the course is examining the implications of human actions, as well as, to provide insights as to what else may be occurring in the universe.

**Honors Physics****5 Credits**

Honors Physics is intended as an in-depth study of the physical laws of nature. Students will investigate motion, vector analysis, Newton's Laws, gravitational force, momentum, work and energy, and rotational motion. Students are exposed to both the theoretical and experimental aspects of each topic, with emphasis on scientific modeling and mathematical problem solving. An understanding of physics will allow the student to relate mathematical models to the physical phenomena observable in the world around them. As a non-calculus based course, honors physics requires only that students enter with a strong background in algebra. The course is applicable to students of grades 11-12 with a strong mathematical background.

**Forensic Science****5 Credits**

Forensics is an eleventh and twelfth grade full year elective course. Forensics utilizes biology, chemistry, physics, and anatomy to retroactively determine the sequence of events during the commission of a crime. In this class, we will master evidence identification and collection, identification of drugs, toxins and poisons in the blood and body tissue, DNA collection, processing and analysis, blood spatter analysis, ballistic analysis, handwriting analysis and fingerprinting techniques and analysis. Biology and chemistry are prerequisites for this class.





## Course Descriptions – Physical Education

*As required by the State of New Jersey, all students are required to successfully complete 15 credits in Physical Education in order to graduate from high school. Those credits must be distributed as 150 minutes per week each year.*

### The Physical Education Recommended Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Physical Education and Health I	Physical Education and Health II	Physical Education and Health III	Physical Education and Health IV

#### Physical Education I - IV

**3.75 Credits per Year**

Warren County Technical School's Physical Education classes are taught in grades nine through twelve and are mandatory as part of the graduation requirements set forth by the State of New Jersey and Warren County Technical School. Physical Education classes are administered for three marking periods each year, while the remaining marking period is reserved for Health Education. Drivers Education replaces Health Education for sophomores. The Physical Education and Health and Drivers Education classes are taught by the dedicated members of the Physical Education Department. Physical Education classes in the first and fourth marking periods will predominately be taught outside when the weather permits and focus on games and activities that are enjoyed outdoors. Meanwhile, classes running in the second and third marking periods will focus on activities that occur inside. Each student is required to change into their gym uniform at the beginning of each class and is encouraged to participate to the best of their ability. Teachers' lessons and activities stress the importance of safety and fair play in order to create an optimal learning environment. Warren County Technical School's Physical Education Department seeks to provide students with educational experiences that enable our students to acquire the knowledge and ability to make healthy life choices, as well as skills to promote lifetime wellness. Additionally, opportunities will be afforded to every student to improve cooperation, leadership, and communication skills and improve one's self image and confidence through each student's unique talents and abilities.

#### Health I

**1.25 Credits**

Instruction in Health 9 will begin with lessons designed on character development and measures to create a more inclusive and bully free environment at Warren County Technical School. Student activities will surround positive character traits and improvement of self-image and self-worth. Students will examine the current school climate in regards to harassment, intimidation, and bullying and brainstorm proactive steps that they employ to improve any issues confronting the student body. Students will recognize the signs of bullying and the responsibility each student plays in curbing these behaviors and how to properly report and address issues when they occur. Next, students will learn about the effects of alcohol, tobacco, and various illegal

drugs. Students will debate current issues including but not limited to: state legalization and medical use of marijuana, the current opioid epidemic, and tobacco and alcohol related death rates in the United States. Students will understand how each substance affects the brain and impairs function and decision making, while discussing additional problems that may face someone dealing with substance or alcohol abuse. Finally, students will review human relationships and sexuality. Freshman health classes will discuss pregnancy and contraceptive methods and the decision to have children. Students will learn about the effects of various sexually transmitted diseases and how they can prevent contracting each disease.

## **Health II**

**1.25 Credits**

Driver Education focuses on a classroom theory program taught during the first marking period of tenth grade. The New Jersey State Drivers Manual serves as one of the textbooks for the course and covers all laws governing driver safety and proper vehicle usage. Course work will cover the driver's roles and responsibilities in New Jersey, traffic markings and signage meanings, the New Jersey graduated license program, WCTS and New Jersey driving rules and penalties for non-adherence, and prepares students for the expectations set forth in the New Jersey written and behind the wheel driver's tests. At the conclusion of the course, students take the written portion of the New Jersey State Driver's Test as the first step toward the earning of a driver's permit.

## **Health III**

**1.25 Credits**

Junior Health class is dedicated to the study of First Aid including learning lifesaving techniques like the Heimlich maneuver, CPR, and use of an AED. Students will open the course by examining the protection afforded to citizens helping those in need as outlined by the Good Samaritan Law and understand the steps New Jersey is taking to combat the opioid overdose epidemic. After this, the students will examine the issues of teen suicide and how to properly identify and help those at risk. Students will understand how to address this issue thoughtfully and effectively. Later in the course, students will learn responsible First Aid for many emergencies including: Bleeding, Head Trauma, Spinal Injury, Respiratory Problems, Choking, Infant Care, Broken Bones, and Joint Injury. Students will develop a public relations initiative to aid in combating a public health issue. Finally, students will understand how to treat some environmental emergencies such as poisoning, allergic reactions, venomous bites, heat stroke, dehydration, and frostbite.

## **Health IV**

**1.25 Credits**

In the final year of health education Senior students will examine disease and nutrition. Senior Health opens with a close analyzation of the risks, prevention, and treatment of common sexually transmitted diseases and HIV/AIDS. After this, students will study common communicable diseases and how to protect themselves and their families from the transmission of several bacterial and viral illnesses. Finally, students will review proper nutrition and the value of lifelong fitness. As young adults, about the leave the protection of their parents, it is important for them to learn healthy eating habits and safe and productive exercise.



## Course Descriptions – Fine Arts

*As required by the State of New Jersey, all students are required to successfully complete 5 credits in Fine Arts in order to graduate from high school.*

### The Fine Arts Recommended Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
	Art I		(Optional) Art II  Art Course Electives (VHS)

#### Art I

**5 Credits**

Warren County Technical School's Art for the Trades I is designed to introduce students to several visual art disciplines with an added focus of commercial application. This full year course is designed with respect to the New Jersey Student Learning Standards for Visual and Performing Arts and fulfills the New Jersey fine arts graduation requirement. The curriculum is divided into four marking period length units including: Drawing, Sculpture, Painting/Color Theory, and Practical Design. Students will make connections to their world by studying the corresponding art history and works of notable artists in each unit. The instructor will endeavor to facilitate an appreciation of visual art and encourage students of various ability to express themselves to the best of their abilities during class activities. Special attention will be given to understanding the methods and creative processes used in historic and modern forms of art. Several projects will be assigned during the course to create original artwork by exploring a variety of materials and developing basic skills. Opportunity for student choice and creativity will be afforded in culminating projects. When applicable interdisciplinary connections will be made in which art students will develop artistic pieces in conjunction with the needs of career shops. By the end of this course, students will understand the fundamentals of art as a way to communicate using visual symbols.

#### Art II

**5 Credits**

Advanced Art is designed for the highly motivated art student. In this course you will continue to develop skills in drawing from observation and painting skills from sketches and photographs. This course will consist of more in-depth study of observational drawing and advanced painting techniques and experimentation. Design and sculpture are also explored more in depth. Projects are centered on themed ideas which encourage students to find their voice as artists. Students will also develop an appreciation for artwork of the past and present through classroom readings and writing assignments, as well as develop an ability to talk about their work and the work of others in classroom critiques.



## Course Descriptions – World Language

*As required by the State of New Jersey, all students are required to successfully complete 5 credits in World Language in order to graduate from high school.*

### The World Language Recommended Course Sequence

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Spanish I			Spanish II*  Spanish III*

*\*Students who desire three years of a foreign language may take Spanish II and/or Spanish III via Virtual High School (VHS) during the 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grade school year or over the summer.*

### Spanish I

**5 Credits**

The Warren County Technical School’s Spanish I course provides students with the fundamental background required to speak, read, write and understand Spanish. A great deal of stress is placed on the development of audio-lingual skills including correct pronunciation, accentuation, and the use of appropriate gesticulation. Basic rules of grammar are taught as they are needed for oral and written expression. There will be a continued emphasis on the development of listening and speaking skills. Students will learn vocabulary in context in each unit of study and learn the conjunction of common verbs. Additional material for development of the reading skills is provided for each student. The course also presents units on culture that are expanded to include geography and customs of the Spanish-speaking cultures.

### Spanish II

**5 Credits**

The Spanish II course at Warren Tech continues to develop fundamental language skills. As in the first level, the second level of Spanish study utilizes various materials that encourage the student to become an active participant in the classroom activities. This course continues to concentrate on the student's understanding and recognition of the grammatical principles of the language, and the student’s ability to develop and utilize these concepts in a variety of topics while increasing exposure to the cultural aspects of the languages.

### Spanish III

**5 Credits**

The Spanish III course provides more in-depth study of the complex grammatical structures of the language and is designed to improve the student’s efficiency in advanced language skills. The third year begins to prepare the student for study on the college or university level. Major

emphasis is placed upon the conversational proficiency of the student. Contemporary literature is introduced and used as the basis for discussion about the intricacies of the respective cultures.



## Course Description – Freshman Seminar

*All Ninth Grade students are required to take the full year Freshman Seminar Class.*

### **Freshman Seminar**

**5 Credits**

The Freshman Seminar Course at Warren County Technical School is a required, full-year course for all incoming ninth grade students. The purpose of the course is to assist students with the transition to high school and to provide them with the skills and tools that they need to be successful. In the course, students will receive instruction on skills for academic success, which include study skills, civics, character education, educational technology, and research strategies. Teachers of Freshman Seminar will work closely with Guidance staff to incorporate the SOAR Social-Emotional Learning Curriculum into the course and assist students with positive mental health strategies to help them succeed. Students in need of remediation and intervention will have specialized programming during Freshman Seminar to meet their academic needs.

# Dual Enrollment and Articulation Agreements



Dual Enrollment is a way to earn college credits for approved high school courses. Dual enrollment is defined as a student receiving high school credit toward a high school diploma and college credit toward an Associate’s Degree, Bachelor’s Degree or occupational credit toward a technical certificate. Students will be taught by a qualified high school instructor during the regular school day, and will be awarded credits for that course from both the high school and the participating college. In order to receive credit for the course, students must receive a C or better in the course. Dual enrollment credits are recorded on Warren County Community College or Centenary transcripts. Students must request official transcripts from Warren County Community College to transfer these credits. Warren County Technical School now has dual enrollment agreements with Warren County Community College.

## Warren County Community College

Warren Tech Course	Equivalent WCCC Course	Credits
Honors Chemistry	CHE 110 Introduction to Chemistry	4
Honors Biology	BIO 145 Principals of Biology	4
Forensic Science	CRJ 107 Forensic Science	4
Honors English 12	ENG 141 English Comp I	3
Introduction to Business	BUS 120 Business Organization and Management	3
Honors Algebra II	MAT 131 College Algebra	3
Pre-Calculus	MAT 131 College Algebra	3
Honors Pre-Calculus	MAT 141 Pre-Calculus	3
Honors Calculus	MAT 201 Calculus I	3
Health Sciences III and IV	MED 177 Medical Terminology MED 176 Intro to Anatomy, Physiology, Pathology	3 3

In addition to these courses, several career major programs have articulation agreements with other institutions of higher learning.

These include:

Career Program	Affiliated Institution of Higher Learning	Number of Credits Possible
Automotive Technology	Warren County Community College	16
Child Development	Warren County Community College	9
Computer Programming	Warren County Community College	6
Culinary Arts	Warren County Community College	3
Electronics Technology	Lincoln Technical Institute	9
Engineering	NJIT	4
Health Science	Rutgers University	17
Law and Public Safety	Warren County Community College	12
Welding	Northampton Community College	12

*Warren Tech is continuing to expand the number of offerings in order to better assist our students in their transition to post-secondary education. As such, this list may not be current.*



## Virtual High School (VHS)

### Course Descriptions

#### **AP Calculus AB**

**5 Credits**

This college-level, yearlong course prepares students for the Advanced Placement (AP) Calculus AB Exam. Major topics of study in this full-year course include a review of pre-calculus, limits, derivatives, definite integrals, mathematical modeling of differential equations, and the applications of these concepts. Emphasis is placed on the use of technology to solve problems and draw conclusions. The course utilizes a multi-representative approach to calculus with concepts and problems expressed numerically, graphically, verbally, and analytically.

#### **AP English Language & Composition**

**5 Credits**

This college-level course prepares students for the AP® English Language and Composition Exam while exploring and analyzing a variety of rhetorical contexts. This is a fast-paced, upper level course designed for highly motivated students. Multiple opportunities are provided to enhance test-taking skills through critical reading, writing, classroom assignments, and discussion activities. AP English Language and Composition practice assessments and essays will be given throughout the course as well. This course provides students an opportunity to increase knowledge concerning prose of many styles and genres, including essays, journalistic writing, political writing, science writing, nature writing, autobiographies/biographies, diaries, speeches, history writing, and critical writing. Throughout the course, there is an intense focus on writing and revising expository, analytical, and argumentative essays to prepare students for a broad range of writing purposes.

#### **AP English Literature & Composition**

**5 Credits**

English Literature and Composition is designed to be a college/ university-level course. This course equips students to critically analyze all forms of literature in order to comment insightfully about an author's or genre's use of style or literary device. Students will also interpret meaning based on form; examine the trademark characteristics of literary genres and periods; and critique literary works through expository, analytical, and argumentative essays. As students consider styles and devices, they will apply them to their creative writing. In addition to exposing students to college-level English course work, this course prepares them for the AP® English Literature and Composition Exam.

#### **AP Environmental Science**

**5 Credits**

Environmental Science is a laboratory- and field-based course designed to provide students with the content and skills needed to understand the various interrelationships in the natural world, to identify and analyze environmental problems, and to propose and examine solutions to these problems. Since this is an online course, the laboratory- and field-based activities will be completed virtually and via experiments that students can easily perform at home with common



materials. The course is intended to be the equivalent of a one-semester, college-level ecology course, which is taught over a full year in high school. The course encompasses human population dynamics, interrelationships in nature, energy flow, resources, environmental quality, human impact on environmental systems, and environmental law.

### **AP Psychology**

**5 Credits**

Psychology will introduce students to the systematic study of the behavior and mental processes of human means and animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major fields within psychology. Students also learn about the methods psychologists use in their science and practice. The major aim of this course is to provide each student with a learning experience equivalent to that obtained in most introductory college psychology courses. In addition, this course has been designed to help students successfully achieve a passing score on the AP® Psychology exam.

### **AP US Government & Politics**

**5 Credits**

This one-semester college-level course is designed to prepare students for the AP United States Government and Politics exam. Students will study the Constitutional underpinnings and structure of the United States government, issues of politics and political parties, and topics in civil rights and public policy, demonstrating their understanding and acquisition of skills through written work, project-based activities, and practice exams.

### **AP US History**

**5 Credits**

This course surveys the history of the United States from the settlement of the New World to modern times and prepares students for the AP® United States History Exam. The course emphasizes themes such as national identity, economic transformation, immigration, politics, international relations, geography, and social and cultural change. Students learn to assess historical materials, weigh the evidence and interpretations presented in historical scholarship, and analyze and express historical understanding in writing.

### **AP World History: Modern**

**5 Credits**

This advanced study of world history explores historical themes common to societies around the world and across time periods, from 1200 to the present day. Emphasis is placed on document analysis, historical thinking skills, reasoning processes, and essay writing. Students will demonstrate their understanding and acquisition of skills through written work, document-based questions, project-based activities, and practice exams.

## **Virtual High School Elective Course Options**

### **Math**

#### **Financial Math**

**5 Credits**

Connecting practical mathematical concepts to personal and business settings, this course offers informative and useful lessons that challenge students to gain a deeper understanding of financial math. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. Offered as a two-semester course for high school students, this course encourages mastery of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions.

### **Concepts in Probability and Statistics**

**5 Credits**

This full-year high school course provides an alternative math credit for students who may not wish to pursue more advanced mathematics courses such as Algebra II and Pre-Calculus. The first half of the course begins with an in-depth study of probability and an exploration of sampling and comparing populations and closes with units on data distributions and data analysis. In the second half of the course, students create and analyze scatter plots and study two-way tables and normal distributions. Finally, students apply probability to topics such as conditional probability, combinations and permutations, and sets.

## **English Language Arts**

### **Expository Reading & Writing**

**5 Credits**

This elective English course is designed to develop critical reading and writing skills while preparing high school students to meet the demands of college-level work. While students will explore some critical reading skills in fiction, poetry, and drama the focus of this course will be on expository and persuasive texts and the analytical reading skills that are necessary for college success. Students will read a range of short but complex texts, including works by Walt Whitman, Abraham Lincoln, Cesar Chavez, Martin Luther King Jr., Langston Hughes, Julia Alvarez, Edna St. Vincent Millay, and Gary Soto.

### **Introduction to Communications & Speech**

**5 Credits**

Beginning with an introduction that builds student understanding of the elements, principles, and characteristics of human communication, this course offers fascinating insight into verbal and nonverbal messages and cultural and gender differences in the areas of listening and responding. High school students enrolled in this one-semester course will be guided through engaging lectures and interactive activities, exploring themes of self-awareness and perception in communication. The course concludes with units on informative and persuasive speeches, and students are given the opportunity to critique and analyze speeches.

## **Social Studies**

### **Modern World History**

**5 Credits**

This yearlong course examines the major events and turning points of world history from the Enlightenment to the present. Edgenuity Course Catalog PAGE 14 Social Studies Courses Students investigate the foundational ideas that shaped the modern world in the Middle East, Africa, Europe, Asia, and the Americas, and then explore the economic, political, and social revolutions that have transformed human history. This rigorous study of modern history examines recurring themes, such as social history, democratic government, and the relationship between history and the arts, allowing students to draw connections between the past and the present, across cultures, and among multiple perspectives. Students use a variety of primary and secondary sources, including legal documents, essays, historical writings, and political cartoons to evaluate the reliability of historical evidence and to draw conclusions about historical events. Students also sharpen their writing skills in shorter tasks and assignments, and practice outlining and drafting skills by writing full informative and argumentative essays.

### **US Government (semester)**

**2.5 Credits**

This semester-long course provides students with a practical understanding of the principles and procedures of government. The course begins by establishing the origins and founding principles of American government. After a rigorous review of the Constitution and its amendments, students investigate the development and extension of civil rights and liberties. Lessons also introduce influential Supreme Court decisions to demonstrate the impact and importance of

constitutional rights. The course builds on this foundation by guiding students through the function of government today and the role of citizens in the civic process and culminates in an examination of public policy and the roles of citizens and organizations in promoting policy changes. Throughout the course, students examine primary and secondary sources, including political cartoons, essays, and judicial opinions. Students also sharpen their writing skills in shorter tasks and assignments and practice outlining and drafting skills by writing full informative and argumentative essays.

### **Economics**

**2.5 or 5 Credits**

Available as either a semester or a full year, this course invites students to broaden their understanding of how economic concepts apply to their everyday lives—including microeconomic and macroeconomic theory and the characteristics of mixed-market economies, the role of government in a free-enterprise system and the global economy, and personal finance strategies. Throughout the course, students apply critical-thinking skills while making practical economic choices. Students also master literacy skills through rigorous reading and writing activities. Students analyze data displays and write routinely and responsively in tasks and assignments that are based on scenarios, texts, activities, and examples. In more extensive, process-based writing lessons, students write full-length essays in informative and argumentative formats.

### **Psychology**

**5 Credits**

This two-semester course introduces high school students to the study of psychology and helps them master fundamental concepts in research, theory, and human behavior. Students analyze human growth, learning, personality, and behavior from the perspective of major theories within psychology, including the biological, psychosocial, and cognitive perspectives. From a psychological point of view, students investigate the nature of being human as they build a comprehensive understanding of traditional psychological concepts and contemporary perspectives in the field. Course components include an introduction to the history, perspectives, and research of psychology; an understanding of topics such as the biological aspects of psychology, learning, and cognitive development; the stages of human development; aspects of personality and intelligence; the classification and treatment of psychological disorders; and psychological aspects of social interactions.

### **Sociology (semester)**

**2.5 Credits**

Providing insight into the human dynamics of our diverse society, this is an engaging, one-semester course that delves into the fundamental concepts of sociology. This interactive course, designed for high school students, covers cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior, both historically and in modern times.

### **Strategies for Academic Success (semester)**

**2.5 Credits**

Offering a comprehensive analysis of different types of motivation, study habits, and learning styles, this one-semester course encourages high school and middle school students to take control of their learning by exploring varying strategies for success. Providing engaging lessons that will help students identify what works best for them individually, this one-semester course covers important study skills, such as strategies for taking high-quality notes, memorization techniques, test-taking strategies, benefits of visual aids, and reading techniques.

## Arts

### **Art History I**

**5 Credits**

Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, this course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions. Students enrolled in this course cover topics including early medieval and Romanesque art; art in the twelfth, thirteenth, and fourteenth centuries; fifteenth-century art in Europe; sixteenth-century art in Italy; the master artists; High Renaissance and baroque art; world art, which includes the art of Asia, Africa, the Americas, and the Pacific cultures; eighteenth- and nineteenth-century art in Europe and the Americas; and modern art in Europe and the Americas.

## Computer Science

### **Introduction to Computer Science**

**5 Credits**

This full-year course is designed for students in grades 9–12. This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can affect the world. Students have creative, hands-on learning opportunities to create computer programs, develop web pages, design mobile apps, write algorithms, and collaborate with peers while building strong foundational knowledge. This course provides a solid foundation for more advanced study as well as practical skills that students can use immediately.

### **Online Learning and Digital Citizenship (semester)**

**2.5 Credits**

This one-semester course provides students with a comprehensive introduction to online learning, including how to work independently, stay safe, and develop effective study habits in virtual learning environments. Featuring direct-instruction videos, interactive tasks, authentic projects, and rigorous assessments, the course prepares students for high school by providing in-depth instruction and practice in important study skills such as time management, effective note-taking, test preparation, and collaborating effectively online. By the end of the course, students will understand what it takes to be successful online learners and responsible digital citizens.