

WEST ORANGE HIGH SCHOOL PROGRAM OF STUDIES 2025-2026 SCHOOL YEAR



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WEST ORANGE HIGH SCHOOL MISSION STATEMENT

WOHS, a vital part of a culturally and linguistically diverse community, challenges and encourages students to strive for excellence through rigorous and comprehensive programs, to become active members of their community, and to emerge as lifelong learners. To this end, we are committed to superior classroom instruction, a safe and nurturing environment, and a partnership with family and community.

WEST ORANGE HIGH SCHOOL

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Dear Mountaineer Families:

College and career readiness is paramount in planning for student learning goals. The annual Program of Studies is designed to assist students, with the guidance of their families, in selecting courses which would most appropriately prepare them for their individual futures. This educational guide offers learners the opportunity to investigate our rich and comprehensive curricular offerings, which are continually informed by data that drives instruction in our courses.

Information concerning required and elective courses, promotion and graduation requirements, and other academic programs are included, as well as hyperlinks to various informative resources. We challenge our students to take the most rigorous course of study that best meets their educational and career goals. Planning a student's program is a continuous and challenging four-year process. School counselors are an intricate part of guiding each student and family in creating an educational map.

West Orange High School affords each student numerous opportunities to design their own comprehensive and personalized student learning plan. Currently, we offer a number of special programs, which are: AVID, The Health Services Career Academy (partnered with Rutgers), The Institute for Mathematics, Science, Technology and Engineering: A STEM Academy, The Institute for Civic Empowerment, The Institute for the Humanities, and the Air Force Jr. ROTC. Additionally, so that students have the opportunity to enter college with course credit, we have collaborated with Hudson Community Colleges, Rutgers University, Rider University, and Fairleigh Dickinson University to establish dual credit programs. We are proud of the progress we have made and are excited and enthused by our plans to enhance academic advancement.

Please feel free to contact me or our School Counseling Department should you need assistance related to your child's educational endeavors at West Orange High School.

Sincerely,

A handwritten signature in black ink, appearing to read "Kgm", written over a horizontal line.

Kimberly Mancarella
Assistant Principal

AFFIRMATIVE ACTION POLICY

It is the policy of the West Orange Board of Education to provide equal educational opportunities to all students regardless of race, color, creed, religion, sex or handicap.

Affirmative Action Officers

District

Eveny de Mendez, Assistant Superintendent
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179 Eagle Rock Avenue
973-669-5400, Extension 20515

School

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WEST ORANGE DISTRICT CURRICULUM PHILOSOPHY

The curricular philosophy of the West Orange schools begins with the belief that it is the essential right of all students to be empowered by and benefit from a curriculum that is standards-based, rigorous, dynamic and relevant. The curriculum is the framework for identifying the essential content and enduring understandings that students are expected to learn in order to demonstrate proficiency of the New Jersey content standards. The curriculum is designed to meet the individual needs of all students through purposeful and authentic assessment, quality instruction, and responsive differentiation that encourages students to think critically, problem solve and connect all content to life beyond the classroom. The instructional community will share ownership, responsibility and accountability for understanding and implementing curriculum. To this end, the curriculum prepares students for college and career readiness, and to become independent and productive citizens of the 21st century and a global society.

To accomplish this, the curriculum will:

- Serve all students
- Be driven by standards-based learning outcomes measured by purposeful, authentic, and varied forms of assessment that will inform instruction;
- Incorporate best practices and current content knowledge that are grounded in scientifically based research;
- Explore big ideas, essential questions, and promote enduring understandings that connect to real life applications;
- Allow for flexibility and encourage experimentation and innovation within an overall structure that maintains rigor and achieves high level standards for all students;
- Promote interdisciplinary approaches and the integration of writing across the curricula;
- Integrate the creative and progressive use of technology to engage and promote 21st century thinking and learning;
- Provide an accessible guide for instruction and planning that includes student centered activities and tasks and promotes teacher as facilitator of the learning process;
- Be anchored in student-centered learning activities that challenge students to problem solve real world scenarios, think critically, and to make sense of and address complex global issues;
- Promote differentiation of instruction at all levels in every content area through a variety of instructional strategies, resources, and scaffolds to meet the unique needs of every learner;
- Promote independent learners;
- Integrate college and career readiness skills to prepare students for postsecondary outcomes;
- Drive professional development needs of the instructional staff; and
- Include specific instructional approaches and strategies for specialized populations and varying learning needs.

We will know we have accomplished this when our students:

- Develop the ability to think critically and globally, applying problem-solving skills, principles of logic, and independent thinking beyond the classroom;
- Develop the ability to use and evaluate knowledge critically and independently across the curricula;
- Are able to apply their knowledge and skills appropriately to any problem situation in all content areas;
- Are able to use their problem solving and critical thinking skills to make sense of and address complex global issues, and solve real world problems through the development of creative and innovative solutions; and
- Demonstrate grade level growth as measured by standards based curricular assessments.

GRADE POINT AVERAGE (GPA)

A Grade Point Average (or GPA) is a measure of your academic achievement and is based on the final grades you earn at the end of each school year. The GPA is cumulative, meaning it changes each year when new final grades are calculated and averaged into it. Your updated GPA is made available to you annually on your Family Connection account. To keep yourself focused and on track academically, it is highly recommended that you set a GPA goal and monitor your progress toward reaching that goal by checking your grade average at the end of each marking period. If you plan to apply to college, you should strive to earn a 3.0 (B average) or higher if possible.

A GPA is calculated in three steps.

1. Calculate the "Quality Points" for each individual course by multiplying the GPA Points for the letter grade earned by the Number of Credits assigned to that course. (*See GPA Points Table and Credit Table below*)
2. Add up all "Quality Points" earned and all "Credits Earned" (or "anticipated credits to be earned" if using Marking Periods grades to obtain an early GPA estimate).
3. Divide the "Total Quality Points" by the "Total Credits Earned".

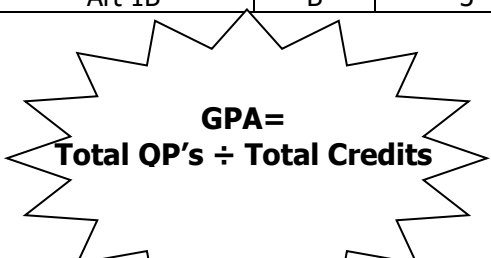
GPA POINTS TABLE

A GPA point is the weight assigned to a letter grade and varies based on level of course.
See the [WOHS Student Handbook](#) for further details.

CREDIT TABLE

Type of Course	Credits
Full Year	5
Full Year with Lab	6
Semester (1/2 year)	2.5

EXAMPLE: HOW TO CALCULATE A GPA

Course Title	Letter Grade	GPA Points/ Weight	Credits Earned / To Be Earned	Calculation	Quality Points
English 9	A-	3.66	5	3.66 x 5	18.3
Honors Algebra 1	A	5	5	5 x 5	25
World History	B	3	5	3 x 5	15
Honors Biology	B+	3.83	6	3.83 x 6	22.98
Phys. Ed. 9	B	3	5	3 x 4	12
Personal Finance	B	3	2.5	3 x 2.5	7.5
Spanish 1	B	3	5	3 x 5	15
Art 1A	C	2	2.5	2 x 2.5	5
Art 1B	B	3	2.5	3 x 2.5	7.5
			TOTAL CREDITS 38.5	-----	TOTAL QP's 128.28
					GPA = 3.33

COLLEGE ENTRANCE REQUIREMENTS

College entrance requirements vary widely. The proper way to determine the admission requirements of a specific college is to check the current catalog of the college. However, the following guidelines may be useful in planning school programs: some colleges require, and many prefer, a minimum of sixteen academic units earned in grades nine through twelve. Normally, students would be expected to have taken: four years of English, two to four years of college-preparatory mathematics, a year or more of laboratory science, two to four years of a world language, and two years of social studies. The high school courses required for college admission depend upon the admission policy of a particular college and the college major desired.

There are exceptions to the above which may be determined by checking the specific college catalog or by corresponding with the college admissions office. A student who is planning a career in science or mathematics should take Biology, Chemistry, Physics, and four years of mathematics. A student who is planning a career in business administration should take academic courses, and, if possible, should elect pertinent courses in the Business Education Department. It is recommended that all candidates for a nursing program, either in a hospital or college program, take Algebra 1, Geometry, Biology, and Chemistry.

SCHOOL COUNSELING

Each secondary school provides counseling services for students and parents. Every attempt is made to retain the assignment of the same school counselor to a student throughout the student's high school career. A school counselor may be consulted on academic, personal, or social problems; on interpretation of test results; and educational and/or vocational plans. School counseling services include individual and group counseling, testing, scheduling, helping to develop academic potential, and preparation of transcripts, including recommendations to colleges and industry as requested. Students are assisted in obtaining part-time and full-time employment, scholarship and loan information, and information about the armed forces. School counselors also schedule group conferences with representatives from colleges and industry.

At the middle school level, in addition to individual conferences concerning educational and vocational plans, group counseling sessions are scheduled to discuss matters of common interest to students. At the high school level, individual and group conferences are held to discuss information concerning vocational opportunities and college or other post-high school plans. Students are encouraged to make appointments with their counselors to discuss any relevant matters. Parents may make appointments by telephoning the school counseling office and asking to speak with their son's/daughter's school counselor.

COURSE AVAILABILITY

It is the policy of the West Orange Board of Education to provide equal educational opportunities regardless of race, color, creed, religion, sex, or handicap. In addition, to provide the broadest program possible to meet the individual needs of students, a wide selection of electives is available in all subject areas. Many of these electives are offered on a semester basis to provide for greater scheduling flexibility. Low enrollments in courses may cause them to be deleted from the program and should this occur, it is advisable to consider alternate selections.

Department sequence guides on the following pages are schemes designed to help you visualize the interrelationship among courses in a particular department. They are presented as an aid in selecting an appropriate sequence of courses.

COURSE SELECTION PROCESS **2025 – 2026**

The course section process for the 2025 – 2026 school year will begin in January 2025. Students are expected to give careful consideration to the courses chosen during the course selection process. When a student makes the decision to withdraw from a course after the start date it may adversely affect graduation requirements and course enrollment. All students will meet with their school counselor to discuss their course requests. Students and parents/guardians should read through the **Program of Studies** before meeting with the school counselor and prepare questions. The **Program of Studies** is available on the West Orange High School website under Academics as well as on Naviance.

During the scheduled meeting the school counselor will:

- Review current courses and teacher recommendations
- Answer any questions the student may have and review graduation requirements and post-secondary plans.
- Provide courses recommended by current teachers
- Recommend courses based on interest
- Provide student with a printout of the courses that were requested
- Encourage students to review the course selections with parents

If a student is unable to attend the scheduled time, the student should plan to meet with the school counselor during lunch, before school or after school.

Students will meet with school counselors to complete course requests for the 2025 - 2026 school year during the timeframe below.

Current grade level	Course Request Submission	<u>Request for Review</u> submitted
11 th grade	January 2 - 17, 2025	January 22, 2025
10 th grade	January 21 - 31, 2025	February 5, 2025
9 th grade	February 3 - 14, 2025	February 19, 2025
8 th grade	February 3 - 14, 2025	February 19, 2025

The scheduling process at WOHS is a very careful and important matter that requires the input of students, teachers, counselors, and parents. When reviewing the course schedule, it is important to note the following regarding schedule changes.

General information:

- As a practice, the school district does not honor requests for teacher changes.
- Schedules are based on the student's grade level. Students are promoted to grade 10 after earning 30 credits by the end of grade 9, to grade 11 after earning 65 credits by the end of grade 10, and to grade 12 after accumulating 100 credits by the end of grade 11.

Students should contact their counselors if one of the following schedule conflicts exists:

- To address a failure that prohibits progress to the next sequential course
- To take into account successful summer school attendance, that allows progress to the next sequential course.
- To correct a data processing error
- To permit seniors to fulfill graduation requirements.

If a schedule change is necessary, please be reminded of the following:

- Students must maintain a minimum of 35 credits.
- All course changes must be addressed prior to the beginning of the school year. Any changes requested after the start of the school year will not be made until the end of Quarter 1.
- Students will remain in the course until the end of Quarter 1 for a full year and Semester 1 course, and until the end of Quarter 3 for a Semester 2 course.
- A WP or WF will appear on the official transcript for any course that is dropped.

School counselors are available during July and August to address schedule changes.

CLASS OF 2026, 2027, 2026 AND 2029

FOUR-YEAR PROGRAM PLANNING SHEET

Complete this plan carefully for all four years. Select courses that most realistically fit your career plans. Keep this program available for future course selection. The planning grid below highlights the minimum graduation requirements mandated by the State of New Jersey. Keep in mind that if your goals change, your selected courses of study can be changed to reflect your new goals. However, the earlier you determine your high school and post-high school plans, the greater opportunity you will have for a more thorough and meaningful preparation for future endeavors.

Graduation Requirements	Grade 9	Grade 10	Grade 11	Grade 12
English Language Arts (20 credits)				
Mathematics (15 credits)				
Science (15 credits)				
Social Studies (15 credits)				
Financial, Economic, Business, and Entrepreneurial Literacy (2.5 credits)				
Health, Safety & Physical Education (for each year in attendance)				
Visual and Performing Arts (5 credits)				
World Languages (5 credits)				
21st Century Life and Careers, or Career-Technical Education (5 Credits)				

GRADE LEVEL PLACEMENT

GRADE 9	0 – 29 CREDITS
GRADE 10	30 – 64 CREDITS
GRADE 11	65 – 99 CREDITS
GRADE 12	100 AND UP

NJ STATE MINIMUM GRADUATION REQUIREMENTS BY CONTENT AREA



New Jersey State Minimum¹ Graduation Requirements by Content Area 120 credits ([N.J.A.C. 6A:8-5.1](#))

Content Area	Credits and additional requirements
English Language Arts	20 credits
Mathematics	15 credits including: <ul style="list-style-type: none"> Algebra I or the content equivalent² Geometry or the content equivalent² Third year of math that builds on the concepts and skills of algebra and geometry and prepares students for college and 21st century careers
Science	15 credits with at least 5 credits in each: <ul style="list-style-type: none"> Laboratory biology/life science or the content equivalent Laboratory/inquiry-based science course (i.e., chemistry, environmental science, or physics) Laboratory/inquiry-based science course
Social Studies	15 credits including: <ul style="list-style-type: none"> 5 credits in world history Integration of civics, economics, geography and global content in all course offerings N.J.S.A. 18A:35-1 and 18A:35-2
Financial, Economic Business, and Entrepreneurial Business Literacy	2.5 credits
Health, Safety, and Physical Education	15 credits over four years including: <ul style="list-style-type: none"> 3 ¾ credits in health, safety, and physical education during each year of enrollment, distributed as 150 minutes per week each year N.J.S.A. 18A:35-5, 18A:35-7 and 18A:35-8
Visual and Performing Arts	5 credits
World Languages	5 credits
Technology	Integrated throughout all courses
21 st Century Life and Careers	5 credits

Note: The chart above was made accessible. The visual chart on the second page of this document has the same information in the chart above, but is not accessible.

¹ School districts may establish course and/or credit requirements which exceed the State minimums.

² “Content equivalent” means courses or activities that include the same or equivalent knowledge and skills as those found in traditionally titled courses which are required for high school graduation and which are aligned with the New Jersey Student Learning Standards.

NJ STATE MINIMUM GRADUATION REQUIREMENTS BY CONTENT AREA

CREDIT HOURS FOR WOHS

In order to qualify for a West Orange High School diploma, a student must have completed the Program of Study appropriate to the student's needs and abilities, in grades 9 through 12, and must have earned the required credits for graduation. **West Orange High School students are required to earn a minimum of 135 credits.** Upon successful completion, five credit hours shall be awarded for each course taken five days a week for an entire academic year; two and one-half credit hours shall be awarded for each course taken five days a week for one-half (one semester) of an academic year.

COMMUNITY SERVICE

Our school district strives to develop within students a sense of social responsibility in addition to a commitment of academic and co-curricular endeavors. We believe students achieve their full potential as active and productive members of society.

Service learning communicates the idea that a well-rounded education is more than achieving within a core curriculum. It is the catalyst that brings learning beyond the classroom walls and enables our students to meet and work with people of all ages, capabilities, and interests, who will enrich their lives. Many colleges, universities, scholarship foundations, employers and organizations recognize the need for community service.

Although not required, the district highly recommends and supports the integration of community service projects at the elementary, middle school and high school levels. The belief is that students should become aware of their community, its people, and the needs of others at an early age.

NEW JERSEY STUDENT LEARNING STANDARDS

New Jersey has high academic standards known as the New Jersey Student Learning Standards (NJSLs). The nine content areas represented by the NJSLs are English Language Arts, Mathematics, Science, Social Studies, Technology, Career Readiness, Life Literacies and Key Skills, Health and Physical Education, Visual and Performing Arts, and World Languages. Using NJSLs, students are given challenging lessons that require them to seek out and acquire knowledge, apply what they have learned, and build upon that information to create new knowledge. The NJSLs help students move away from rote memorization and isolated skills and signal a return to creativity and deeper learning in the classroom. The NJSLs provide personalized, rich content to students in innovative ways; and allow student to both learn and apply what they have learned.

The standards are designed as a staircase of knowledge and skills to help students clearly understand what they need to know and be able to do. Student learning activities build upon what they have already learned and the academic work that will be introduced as they move forward. The NJSLs allow teachers to design many different ways that students can apply their new knowledge and skills. This helps students in all grades see how their schoolwork relates to real life. The NJSLs were designed using the most advanced thinking about preparing all students for success in college and their careers. Upon graduation from high school, your child will be better prepared to compete with other students across the nation and the world.

STUDENT SUPPORT SERVICES

The Student Support Services Department includes child study team, instructional, speech, health and attendance-service personnel. It is responsible for individual testing and consultation required to promote educational achievement and enhance personal functioning, special individualized instruction, preventative health care through the district-wide medical program, emergency first aid, speech therapy, and compliance with school attendance laws.

Members of the department recognize that each student has unique needs. They assist in the provision of healthy, effective learning environments and support students both academically and socially. Associated educational programming responsibilities include special education and home/hospital-bound instruction.

Child study team members assigned to the high school provide services to promote positive student performance. They are available to consult with students, parents, teachers, guidance counselors and administrators in regard to educationally relevant academic and personal problems. The student and/or family may be recommended to community agencies and services for direct consultation. Additional specialists, such as a psychiatrist, neurologist, audiologist, speech consultant, adaptive physical education specialist, etc., may be called upon to assist the basic team when conducting an evaluation.

Psychologist:	Performs a psychological evaluation based upon formal testing, interviews and observations, which will contribute to an understanding of a student's intelligence and personal features in relationship to learning and/or emotional needs. Provides counseling and crisis intervention services.
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Social Worker:	Evaluates personal development and social adjustment as these factors may affect the student's ability to learn and adjust within the school setting. Provides counseling and crisis intervention services.
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Learning Consultant:	Evaluates learning strengths and weaknesses through testing, interviews and observations, and recommends developmental/remedial methods, materials and techniques.
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After the team has evaluated a student, a decision is made regarding the need for special education and recommended placement. Each student's educational progress is subsequently monitored by the team and reviewed annually. The team also reevaluates students tri-annually and coordinates family/staff efforts on their behalf.

West Orange High School
Special Programs

IMS: A STEM Academy

The goal of The Institute of Mathematics and Science is to provide students with immersive learning within science, technology, engineering, and mathematics. Students are provided the opportunity to participate in problem-based learning experiences, with cross-curricular projects and assignments. Field trips and guest speakers give students exposure to college and career opportunities in the growing STEM environment.

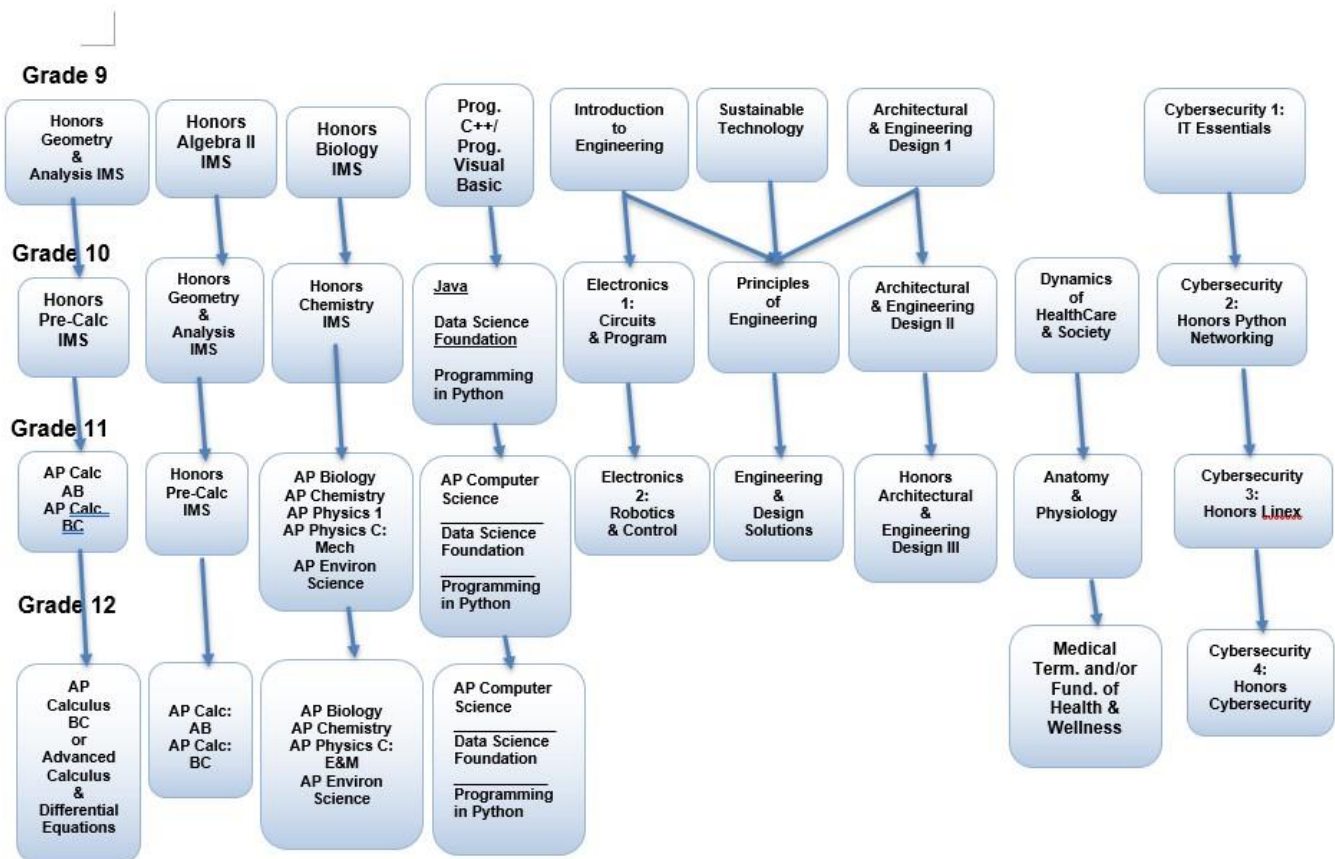
Course Sequence:

Students in the IMS program have a required progression in science and math. Students in Grade 9 enroll within a cohort of IMS students in Honors Biology IMS, Honors Algebra 2 IMS, Honors Geometry & Analysis IMS, and an IMS elective. In Grade 10, students progress into Honors Geometry & Analysis or Honors Pre-Calculus IMS and Honors Chemistry IMS. In successive years, additional options are available in terms of Honors and AP offerings. Please refer to the chart for possible combinations.

Students are also required to enroll in a STEM elective designed to provide practical and experimental application of learning in the core math and science classes. The computer science pathway allows students to develop skills and develop fluency in various programming languages. The engineering pathway gives students the opportunity to learn the elements of engineering and tech design in order to develop and construct new technologies.

Application Process:

Students apply for the program during their 8th grade year. Applications are due by February 3, 2025. Students are evaluated and scored based on the following categories: grades in core subject areas, standardized test results, teacher recommendations and a student writing sample. Students are required to follow the course sequence and requirements as they are listed below and only permitted to exit the program at the end of the school year.



AVID (Advancement Via Individual Determination)

AVID is a program for students in the academic middle as they prepare to navigate college preparation courses. This program actively engages students in meta-cognitive processes of analysis and evaluation of learning through effective methodologies of learning strategies called W-I-C-O-R (Writing, Inquiry, Collaboration, Organization, and Reading). The program prepares students to enroll in rigorous honors and AP courses. The program uses AVID methodologies in the elective courses that are part of the regular school day. AVID students are expected to take part in clubs & activities as well as form study groups with their peers. There is an application and interview process involved with a limited number of students being accepted into the program and parents must be willing to be active participants. Applications are due by February 3, 2025.

Student Selection Criteria (at least one or more of the following):

- In the academic middle
- College and Career focused with support
- Good attendance
- Demonstrates good citizenship in and out of the classroom
- Has the desire and individual determination to work hard and succeed
- Works well with others
- Historically underserved in four-year colleges and universities
- Special circumstances

AVID 9

Full Year – 5 Credits

Offered in Grade 9

Students receive instruction in college-entry skills and participate in tutor-led study groups and motivational activities. The course stresses the importance of higher-order thinking, notebook organization, Cornell Notes, study skills, the writing process, goal setting, critical reading, and study habits. The focus is primarily on developing the knowledge, skills, and attitudes needed to succeed in rigorous high school courses.

AVID 10 Full Year – 5 Credits

Offered in Grade 10

The course continues to stress the importance of succeeding in a rigorous high school or college-level course and continues to provide instruction in college-entry skills and tutor-led study groups. Emphasis is on developing writing skills necessary for success in honors and AP courses, the PSAT, and in college.

AVID 11

Full Year – 5 Credits

Offered in Grade 11

In the junior year, the focus is on readiness for college testing and selection. Students should have been introduced to all of these ideas previously, but now the spotlight is on serious preparation in these areas. In particular, document-gathering for the impending college and financial aid application process must receive much attention here: copies of parents' tax forms for the year preceding the senior year, letters of recommendation, copies of transcripts, lists (resumes) of accomplishments and awards must be scrutinized and gathered for ease of use in the Fall.

Additionally, students will continue to develop the skills acquired in the freshman and sophomore years specifically binder organization, test taking, and tutorials.

AVID 12

Full Year – 5 Credits

Offered in Grade 12

In the senior year, the emphasis is on the first semester. During this time, students must be very focused and must stay on top of deadlines and requirements. The need for calendars and planners to be up-to-date and specific must be especially emphasized at this time. Students will also work on scholarship writing and college level writing assignments. From March on, students generally need lots of time and opportunity to discover and plan for attending college, selecting courses, finding support services on campus, and (perhaps) living on their own.

INSTITUTE FOR THE HUMANITIES (IH)

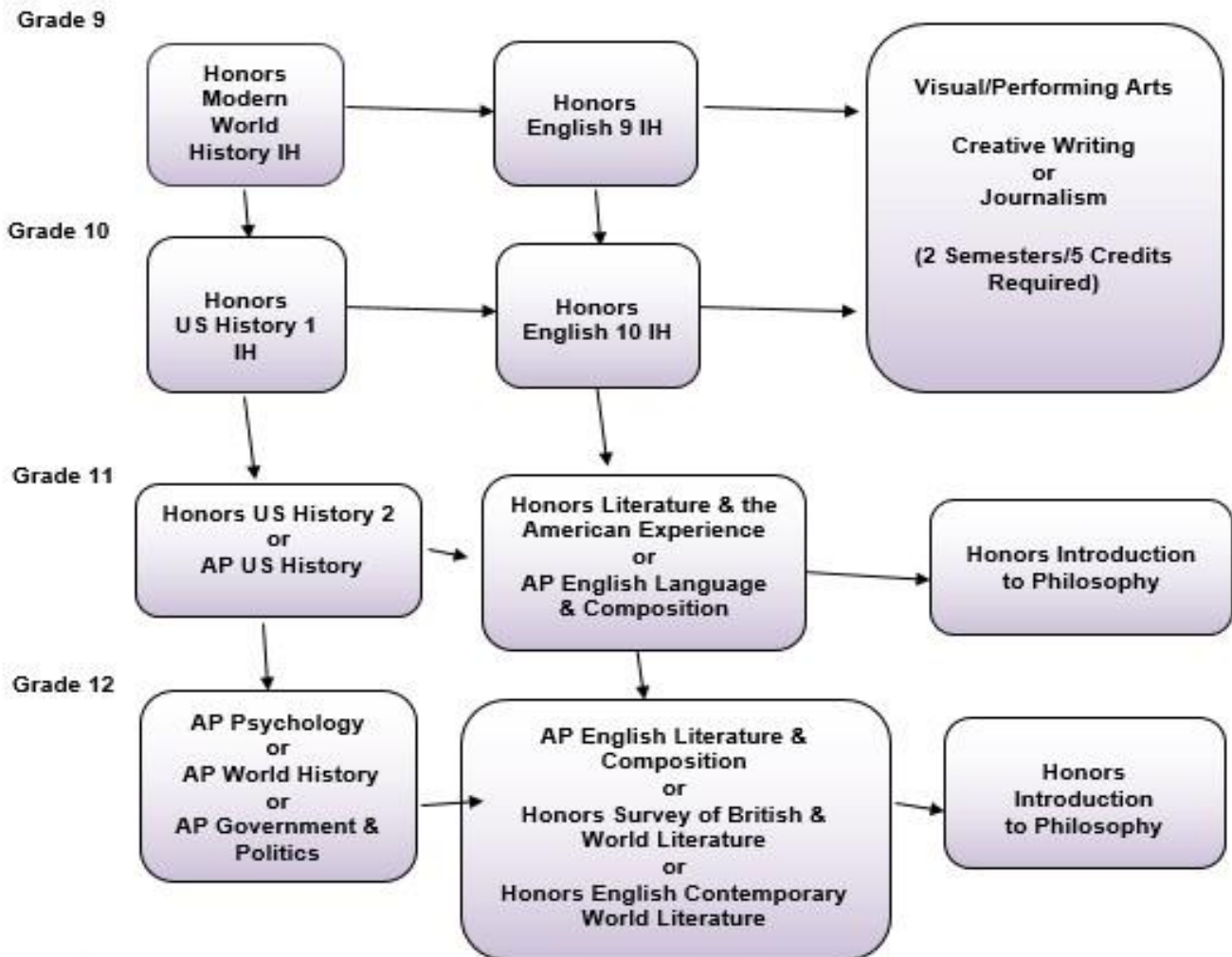
The Institute for the Humanities aims to provide students with immersive learning within the humanities. Students are provided the opportunity to participate in problem-based learning experiences, with cross-curricular projects and assignments within the cohort. Field trips and guest speakers give students exposure to college and career opportunities.

Course Sequence:

Students in the IH program have a required progression in the humanities. Students in Grade 9 enroll within a cohort of IH students in Honors Modern World History IH, Honors English 9 IH, and a Visual/Performing Arts, Creative Writing or Journalism semester elective. In Grade 10, students progress into Honors US History 1 IH, Honors English 10 IH, Visual/Performing Arts, Creative Writing or Journalism. In successive years, please refer to the chart for possible combinations. Ultimately, we aim to have all IH students take at least one AP course in Social Studies and/or Language Arts.

Application Process:

Students apply for the program during their 8th grade year. Applications are due by February 3, 2025. Students are reviewed and scored based on the following criteria: grades in core subject areas, teacher recommendations, and a student writing sample. Students are required to follow the course sequence and requirements as they are listed below and are only permitted to exit the program at the end of the school year.



12.2.24

INSTITUTE FOR CITIZEN EMPOWERMENT
(ICE)

Application Process:

Students apply for admission into the ICE program during their 9th grade year. Applications are due by February 3, 2025. There are both honors and college prep levels available to students.

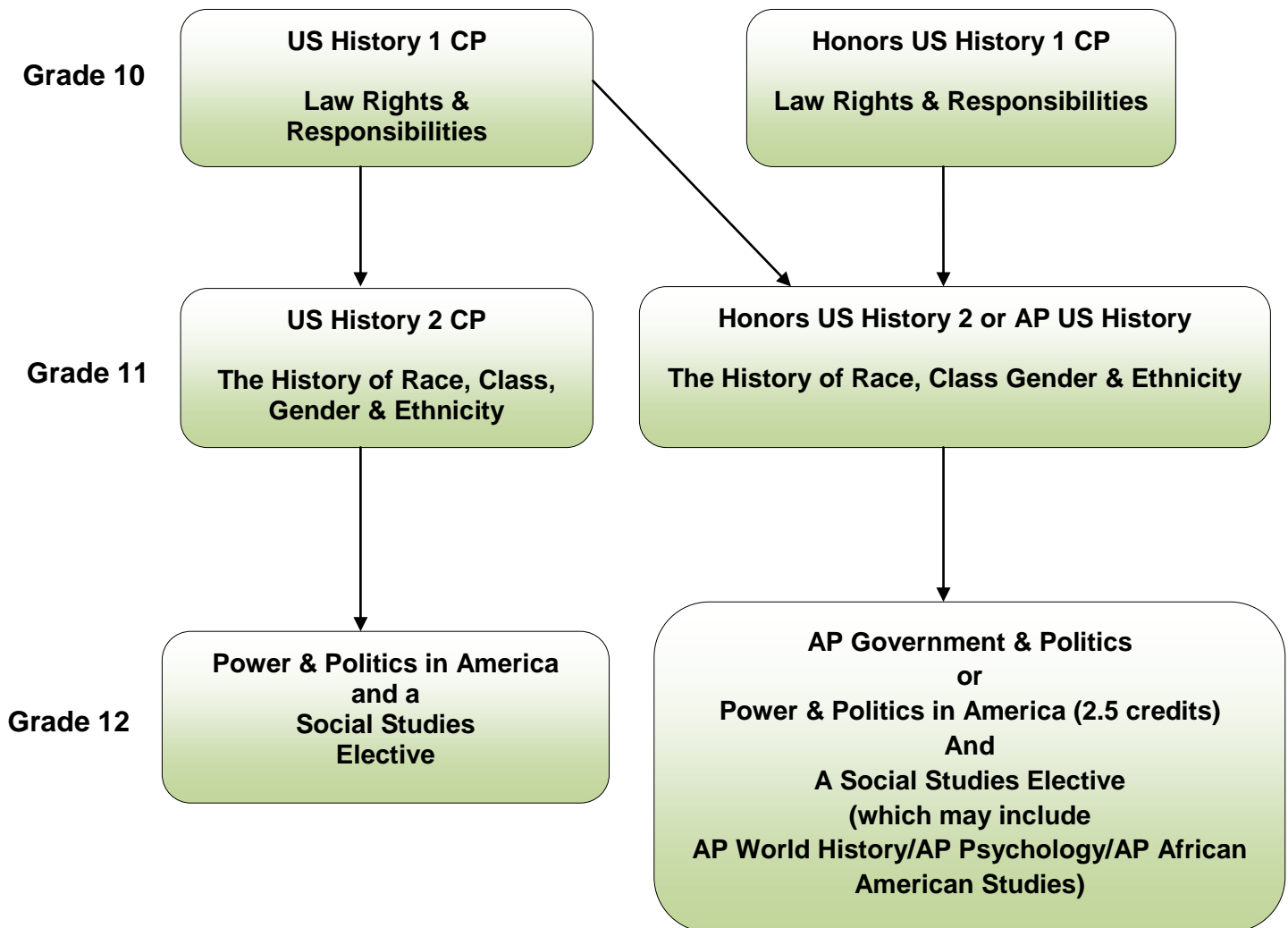
Course Sequence:

This Social Studies based small learning community begins with the student's application in his/her freshman year, and enrollment in the Institute for Citizen Empowerment in the sophomore year. Students will move as a unit from their sophomore year ICE classes into their junior and then senior year ICE classes.

Each year, students in the ICE will take 5 – 10 credits within the small learning community. At the end of three years, students will have taken at least 25 credits within the ICE Small Learning Community. The three-year course sequence is listed below.

Program Highlights:

Students will engage in a number of extra-curricular activities focusing on the roles and responsibilities of an educated and informed citizen. Community service projects, field trips, guest speakers and other action learning projects will be an essential component of the program.



AIR FORCE JUNIOR RESERVE OFFICER TRAINING CORPS

The Air Force Junior Reserve Officer Training Corps (AFJROTC) program is designed for young men and women looking for something different and challenging. The goal of the program is to instill in high school students the values of citizenship, service to their community, personal responsibility, and a sense of accomplishment. This is accomplished through a unique blend of classroom instruction, practical application and co-curricular activities using the United States Air Force model of education. The classroom and practical application portions are mandatory, while co-curricular activities are voluntary. The classroom instruction portion includes Aerospace Science, Leadership Education, and Wellness components. Students then have the opportunity to apply what they learned in the classroom as members of the cadet corps. Here students are organized into functional areas like that of an actual Air Force squadron. They are assigned jobs, tasks and earn cadet rank. Finally, a variety of extra-curricular and co-curricular activities are offered to reinforce and augment classroom concepts.

AFJROTC - Aviation History & Leadership

Full Year - 5 Credits

An aviation history, citizenship and wellness course. The aviation portion focuses on the development of flight throughout the centuries. It starts with ancient civilizations and flight, then progresses through time to future developments in aerospace, with an introduction into cyber technologies. The citizenship portion introduces cadets to history, organization, mission, traditions, goals, and objectives of JROTC for all services. It also introduces key military customs and courtesies, describes how to project a positive attitude, and examines the principles of ethical and moral behavior. It also provides strategies for effective note taking and study skills for academic success. Lessons cover how to be emotionally, mentally, and physically healthy. Avoiding and preventing violence in today's society will also be covered. The wellness portion covers healthy living, physical fitness, and how to make safe, drug-free, and responsible decisions. The final chapter covers how the US Constitution protects our rights and freedoms as American citizens. This course tells the story of why we are so proud of our Air Force heritage — laying the foundation for future Air Force JROTC aerospace science courses.

AFJROTC - Science of Flight & Leadership

Full Year - 5 Credits

A flight science, communication and wellness course. The flight science portion focuses on how airplanes fly, how weather conditions affect flight, and the human body, and flight navigation. The course is designed to complement materials taught in math, physics, and other science-related courses and is aligned with the National Science Education Standards, the Math Standards and Expectations, and ISTE National Educational Technology Standards for Students. The communication portion is a customized course designed to improve communication, enhance awareness of self and others, and provide fundamentals of leadership and followership. The course focuses on the AFJROTC mission to "develop citizens of character dedicated to serving their nation and community." Woven throughout is the underlying theme of developing personal integrity. The course also emphasizes leadership and values such as service and excellence. The wellness portion covers healthy living, physical fitness, and how to make safe, drug-free, and responsible decisions.

AFJROTC – Exploring Space & Leadership

Full Year - 5 Credits

A space science, life skills and wellness course. The space science course provides students with the latest information on exploring space and an introduction to cybersecurity and technology. It begins with early astronomy and the basic interest in the universe from the Greeks through the Renaissance and Enlightenment ages. Students will be provided an in-depth view of the solar system, including Earth, the Sun, the Moon, and planets. The text also discusses the history of space travel and more modern space probes and robotics. Students will examine the effects of space on the human body. The text also investigates the history of rockets, launch vehicles, and the coordinated systems required for a successful launch into space. Finally, the text will offer a cybersecurity chapter that outlines the importance of cybersecurity in space and in daily life. The life skills portion is designed to prepare students for life after high school in the high-tech, globally oriented, and diverse workplace of the 21st -century. Students will learn how to save, invest, and spend money wisely, as well as how to avoid credit traps. In addition, students learn how to select a school that is right for them; how to apply for admission to a vocational or technical school, community college, or college/university; and how to succeed in these learning environments. Information is provided on how to conduct the job search for students who wish to enter the workforce right after high school or after additional education and training. They learn how to prepare a winning résumé, and how to develop effective interviewing skills. The text also provides information

on working for the federal government to include careers in the military, aerospace industry, and public service. Finally, students will consider the most important elements of life skills for all Americans: civic responsibilities, such as volunteering, registering to vote, jury duty, and draft registration. The wellness portion covers healthy living, physical fitness, and how to make safe, drug-free, and responsible decisions.

AFJROTC - Fundamentals of Management & Leadership

Full Year - 5 Credits

This course is only open to students with 3 years of JROTC experience

A management and wellness course. The students in this course will manage the entire cadet corps during their fourth year in the Air Force Junior ROTC program. This hands-on experience affords cadets the opportunity to put theories of previous leadership training into practice. Planning, organizing, coordinating, directing, controlling, and decision-making will be done by cadets. They will put into practice their communication, decision-making, personal-interaction, managerial, and organizational skills. Students also explore ethical dilemmas, case studies, and role play activities based on real life experiences to reinforce leadership and management principles. Students will continue to receive the wellness portion of the curriculum, so that they may lead healthy, active lifestyles beyond program requirements and into their adult lives. This course meets the 21st Century Life and Career Skills credit requirement for graduation. The wellness portion covers healthy living, physical fitness, and how to make safe, drug-free, and responsible decisions.

COLLEGE CONNECTIONS AND DUAL CREDIT PROGRAMS

West Orange High School has established partnerships with many post-secondary institutions in order to offer dual credit opportunities to our students. These partnerships include Fairleigh Dickinson University, Rutgers University, Hudson Community College, Berkeley College and Rider University. The opportunity to earn college credits exists in approved dual enrollment courses. These courses are taught at West Orange High School by our staff.

In our partnership with **Rider University**, students enrolled in Tomorrow's Teacher may earn 3 dual credits by earning a B or better. Tuition fees apply.

Students who are participating in the state approved Career and Technical Education (CTE) Culinary Arts Program have the opportunity to earn up to 9 dual credits through a partnership with **Hudson Community College**. Tuition fees apply.

Our partnership with Berkeley Colleges provides students in our state approved CTE Fashion program the opportunity to earn a total of 6 credits. Tuition fees apply.

West Orange High School's partnership with **Rutgers University's** School of Health Professions is part of our state approved Career and Technical Education (CTE) Health Sciences program. The partnership offers the following college level courses to students at West Orange High School with the potential to earn Rutgers credit if the student maintains a certain grade and passes the Rutgers exam for each course. Students must be admitted to the Rutgers School of Health Professions in order to earn college credit. Admission requires a minimum grade of C or concurrent enrollment in Biology, Chemistry, and a high school Algebra course. Students pay a minimal fee to take the Rutgers exam. To earn college credit, students must earn a qualifying score on the exam as defined by Rutgers. The following courses are in this Health Professions initiative.

- Dynamics of Healthcare in Society
- Fundamentals of Health & Wellness
- Medical Terminology
- Honors Anatomy & Physiology

Students enrolled in the Supply Chain Management Program who complete all three courses will have the opportunity to earn dual credit with **Rutgers University** if they matriculate there.

We have also partnered with **Fairleigh Dickinson University's** Middle College Program. Students enrolled in the courses listed below may earn three college credits through this program by successfully completing the courses with a C or better. Tuition fees apply for the Fairleigh Dickinson Middle College Program.

- Cybersecurity Level 2: Honors Python & Networking
- Cybersecurity Level 4: Honors Cybersecurity
- Honors Python and Networking
- Honors Cyber Security
- Honors College Accounting
- Early Childhood and Family Studies 3
- Honors Virtual Enterprise
- Architectural and Engineering Design 2
- Honors Architectural and Engineering Design 3
- Graphic Design and Communications 2
- Architectural and Engineering Design 2

Students enrolled in one of our state approved Career & Technical Education programs have the opportunity to take the **NOCTI exam** in their area of study. NOCTI exams verify students meet the knowledge and skill set expected by each industry at an entry level. Students who meet the established criteria on exams receive a digital badge and Workforce Competency Credential which can be included on resumes and college applications. In addition, students who score a 70% or better will receive a NOCTI college credential for three college credits in their area of study. Over 1500 colleges nationwide accept the NOCTI certificate.

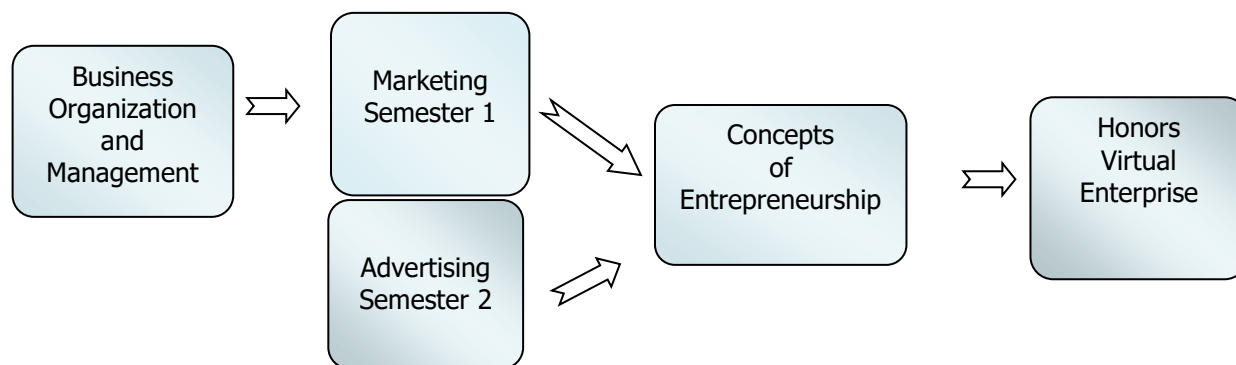
Programs providing the NOCTI exam:

- Architecture
- Fashion
- Culinary Arts
- Early Childhood
- Entrepreneurship
- Fashion
- Finance: Accounting
- Graphic Design

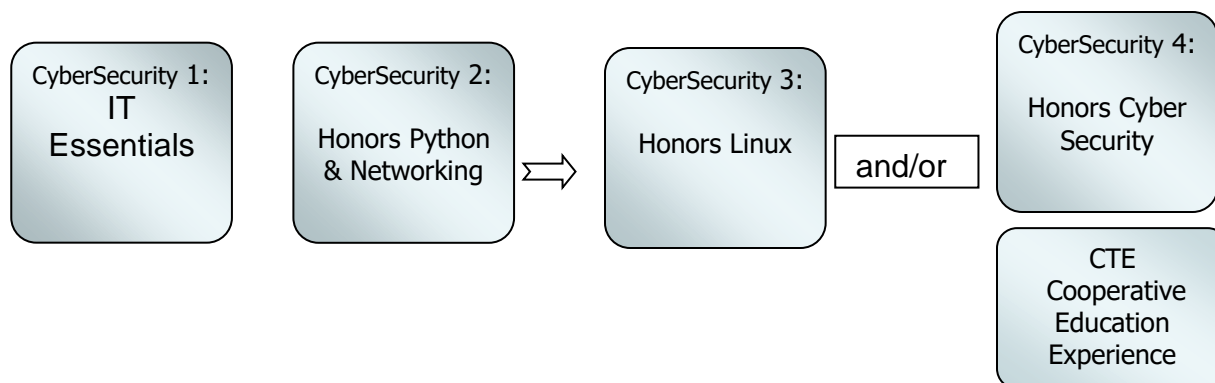
State Approved Career and Technical Education (CTE) Programs

Business Programs:

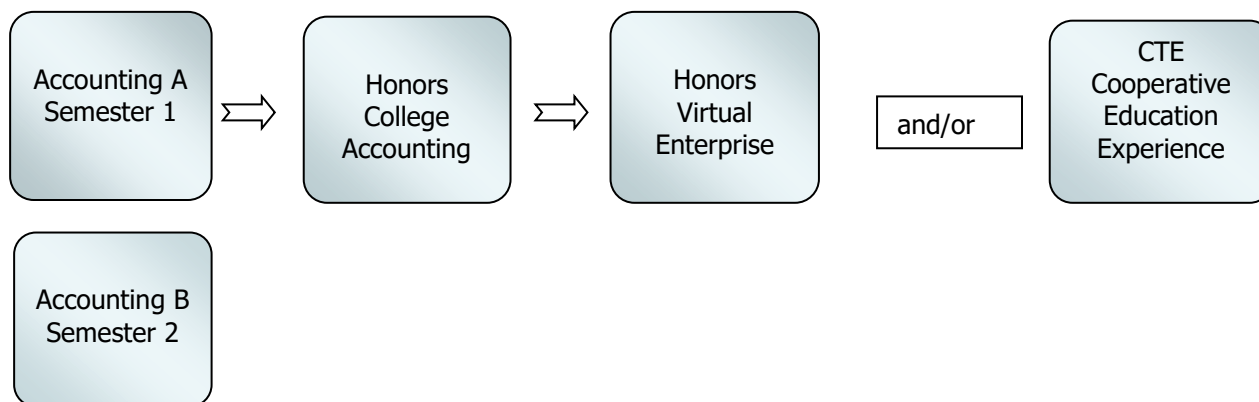
1. Students interested in Entrepreneurship: Entrepreneurship/Entrepreneurial Studies



2. Students interested in Cyber Security & Networking: /Cisco Academy



3. Students interested in Accounting: Accounting Technology/Technical & Bookkeeper.

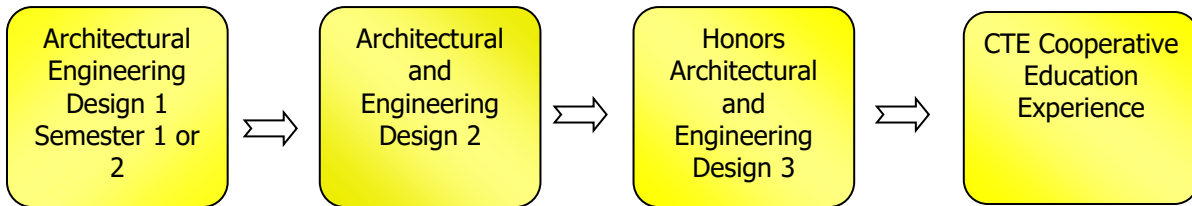


4. Students interested in Supply Chain Management



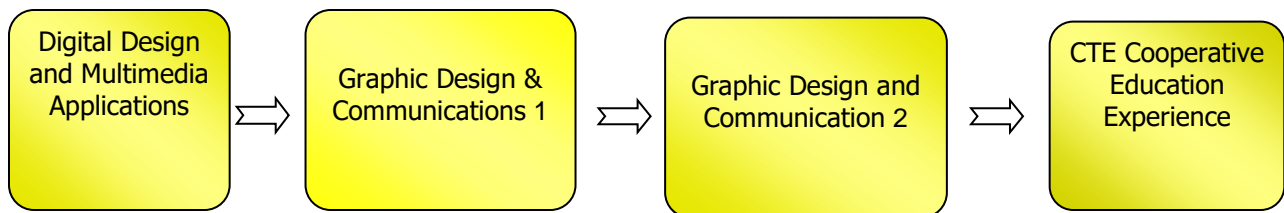
Technology & Engineering Programs:

1. Students interested in Architecture: Architectural Drafting and Architectural CAD/CADD*



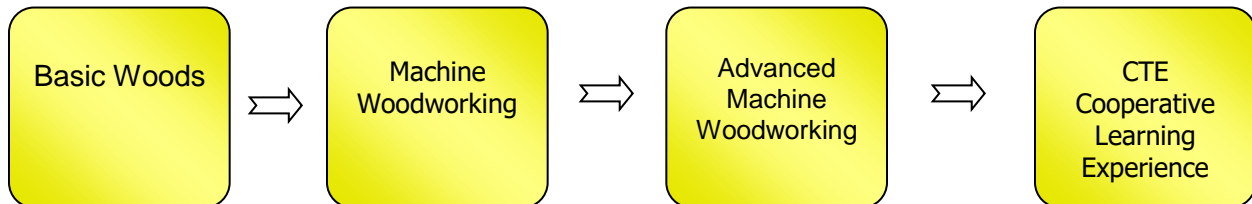
*Students interested in this field are advised to also take Interior Design A and Interior Design B.

2. Students interested in Graphic Design: Printing Management*



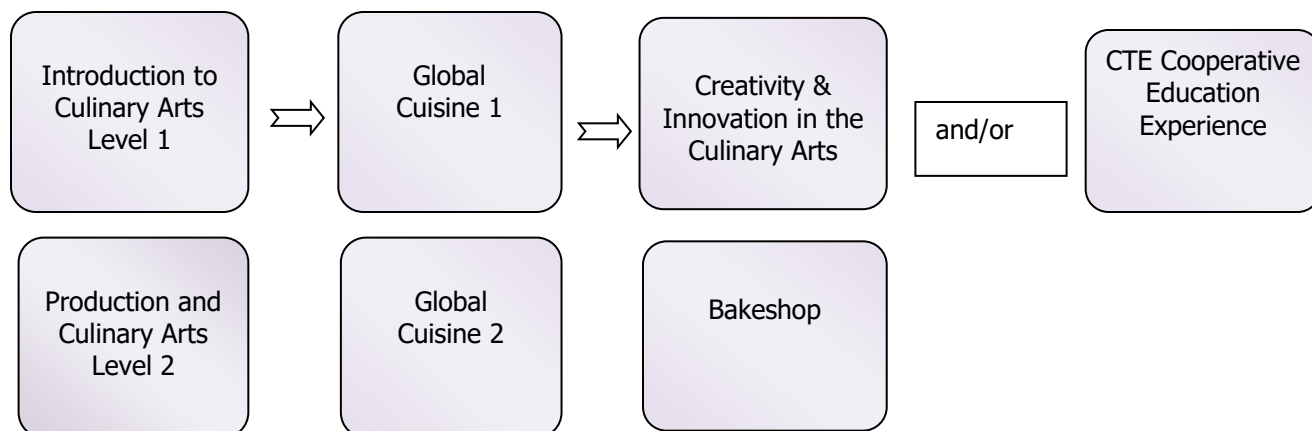
*Students interested in this field are advised to also take Photography.

3. Students interested in Carpentry: Carpentry

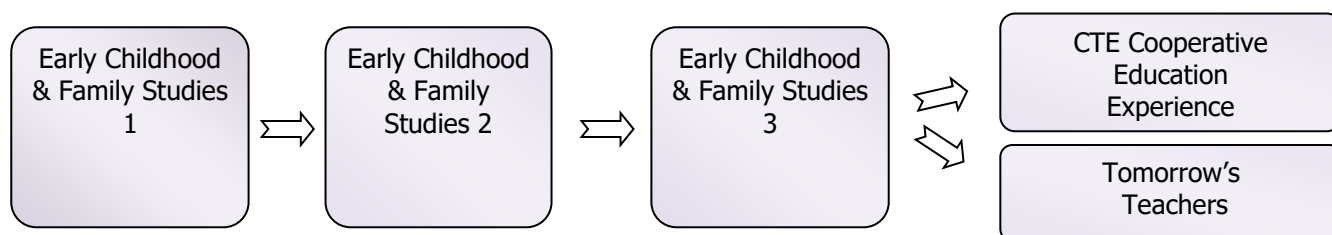


Programs in Family and Consumer Science:

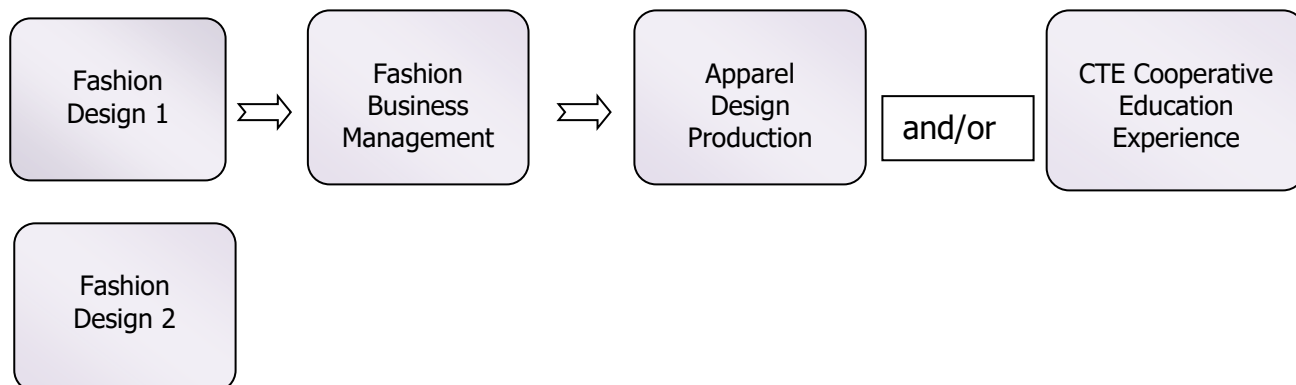
1. Students interested in Culinary Arts: Cooking & Related Culinary Arts



2. Students interested in Early Childhood Development: Child Development

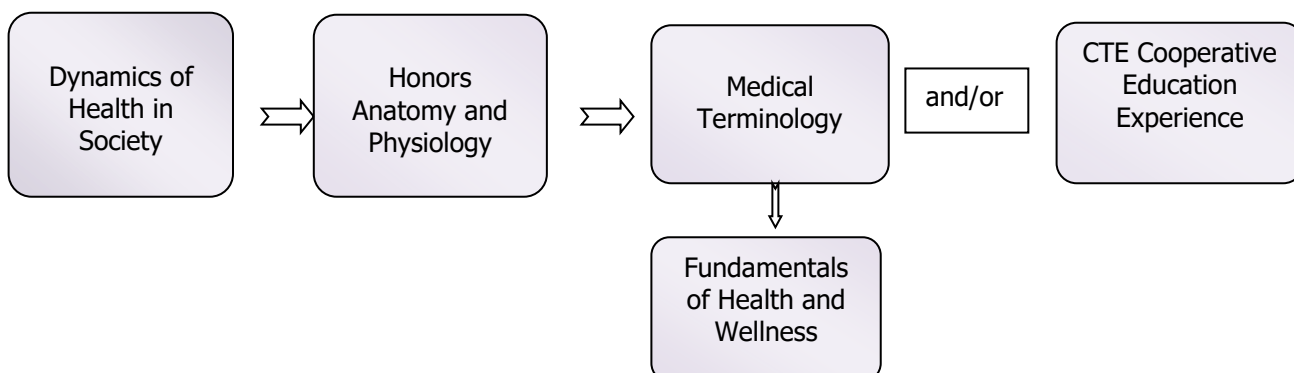


3. Students interested in the Fashion Industry: Fashion Apparel and Design



Programs in Health Science:

1. Students interested in Science: Health Sciences



ADVANCED PLACEMENT PROGRAM

The following criteria for student enrollment in Advanced Placement courses have been established:

1. Completion of prerequisite courses as established by individual departments. (Please see course descriptions for prerequisites.)
2. Maintenance of a B average in previously completed prerequisite course(s) as determined by individual departments.
3. Teacher recommendation for placement in A.P. courses. Students must submit an Advanced Placement of Intent and Application to their school counselor to be enrolled in an Advanced Placement course. The form includes a signature from the student's current teacher, student, and parent.

The following 26 Advanced Placement courses are available at West Orange High School:

A.P. African American Studies	A.P. Music Theory
A.P. Biology	A.P. Psychology
A.P. Calculus AB	A.P. Physics 1-Algebra Based
A.P. Calculus BC	A.P. Physics C: Mechanics
A.P. Chemistry	A.P. Physics C: Electricity & Magnetism
A.P. Chinese Language and Culture	A.P. Spanish Language and Culture
A.P. Computer Science A	A.P. Spanish Literature
A.P. English Language and Composition	A.P. Statistics
A.P. English Literature and Composition	A.P. Drawing
A.P. Environmental Science	A.P. 2D Art & Design
A.P. French Language and Culture	A.P. 3D Art & Design
A.P. United States Government and Politics	A.P. United States History
A.P. Italian Language and Culture	A.P. World History: Modern

Students taking A.P. courses are expected to take the College Board A.P. Examinations in May. A.P. examinations are taken at the high school during regular school hours. The results of the College Board A.P. examinations, which are reported to students in July, are not included in the determination of the final grade for the high school course. Results of the examinations may be used to gain college credit for freshman level courses depending upon the policy of the college of choice. The high school uses the results to evaluate the curriculum and to strengthen the performance of the school using data provided by the College Board.

INDEPENDENT STUDY PROGRAM

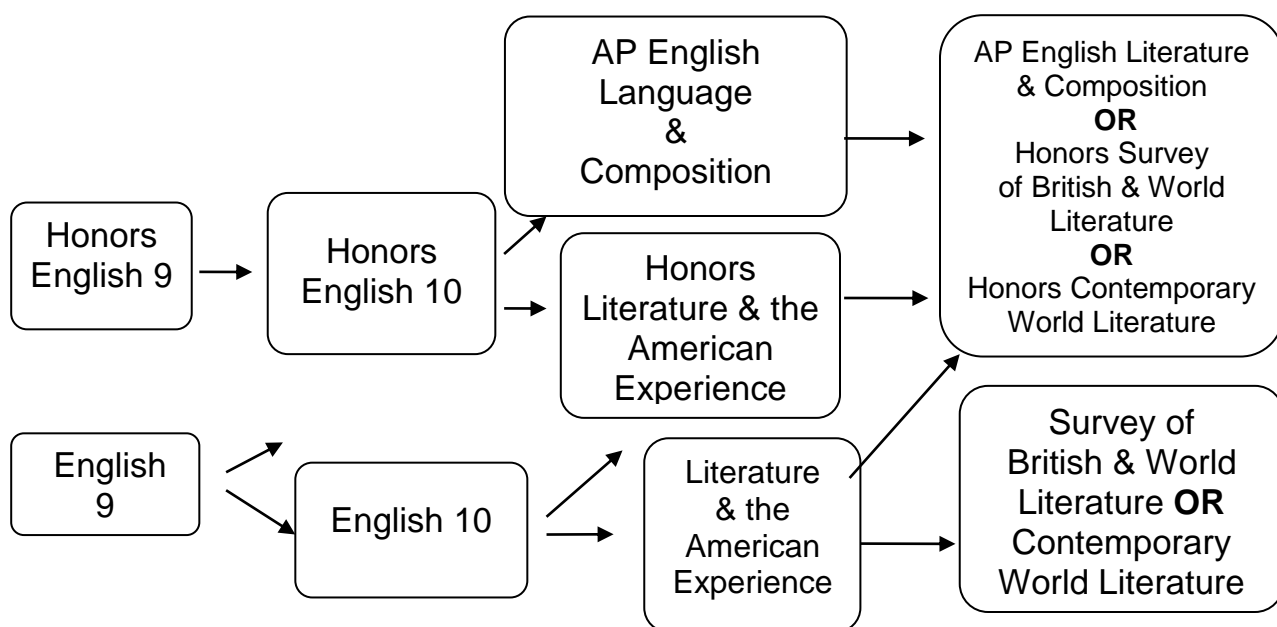
The West Orange Public Schools recognizes significant self-designed learning experiences in the form of Independent Study. A student may receive credit for study which may not be available in the regular school curriculum or extend beyond the curriculum that is offered. Although credit may ultimately be applied to count towards graduation, these experiences are not graded other than pass/fail and will not be calculated into a student's grade point average.

Students must complete an online application which outlines study goals and objectives, supporting activities and methods of evaluation. Decisions concerning the suitability of a proposed project will be related to a student's interests, abilities, and educational goals. Students who wish to apply for this program must enter into agreement with a WOHS faculty sponsor in the form of a contract. A great amount of responsibility falls upon the student in designing the experience under the guidance of their faculty sponsor. In addition to any assessments that are drafted into the application and a presentation to a review board, both the sponsor and the student will complete a written evaluation. A student will receive 2 credits for approximately 80 hours of project activities and 4 credits for approximately 160 hours of project activities. A student may not earn more than a total of four credits in their high school experience. All applications must be approved by June of the preceding school year. The student, the parent, the faculty sponsor, the guidance counselor and the department supervisor must sign the contract agreement as part of the approval process. Completed applications are submitted to the Office of the Assistant Principal of Curriculum and Instruction.

West Orange High School
Course Descriptions

English Language Arts

Course Sequence



Available electives in English Language Arts by grade level include:

Grade 9	Grade 10	Grade 11	Grade 12
Creative Writing Intro to Journalism Literary Study of Rock and Hip Hop Mythology Public Speaking Young Adult Literature & Graphic Novels	Black Authors & Voices Creative Writing Intro to Journalism Literary Study of Rock and Hip Hop Mythology Newspaper 1 Public Speaking Young Adult Literature & Graphic Novels	Black Authors & Voices Broadcast/TV 1 Creative Writing Intro to Journalism Literary Study of Rock and Hip Hop Mythology Newspaper 1 Newspaper 2 Public Speaking Young Adult Literature & Graphic Novels	Black Authors & Voices Broadcast/TV 1 Broadcast/ TV 2 Creative Writing Intro to Journalism Literary Study of Rock and Hip Hop Mythology Newspaper 1 Newspaper 2 Newspaper 3 Public Speaking Yearbook Young Adult Literature & Graphic Novels

The English Language Arts Program at West Orange High School challenges students to achieve excellence in reading, writing, speaking, listening, and viewing by engaging in rigorous and critical study of language and literature for the purpose of becoming lifelong learners and engaged, contributing members of the community. Narrative, expository, and argumentative writing is required at all four levels of the high school program with particular attention to students' intensive appraisal and appreciation of literature and research. Effective, correct, and appropriate use of all phases of language arts is encouraged. There is a steadfast emphasis on close, attentive reading, concept formation, analytical writing, and depth of understanding.

The English Language Arts Program is designed to challenge students at all ability levels. Course offerings include full-year required courses offered at the College Preparatory and Honors levels, with Advanced Placement Language and Composition offered junior year and Advanced Placement Literature and Composition offered senior year. Students are also encouraged to select English elective courses.

All English courses required for graduation align directly with the New Jersey Student Learning Standards (NJSLS) for English Language Arts / Literacy and prepare students for college and career readiness as measured by the state assessments. Summer reading assignments and/or projects are mandatory in all full year required courses.

English 9

Full Year-5 Credits

Offered in Grade 9

Required Course

English 9 is designed to facilitate students' transition from middle school English Language Arts. In this course, students analyze, evaluate and explore the following literary genres and their elements: the short story, nonfiction, the novel, poetry, and drama. Students will examine the elements of each genre, as well as analyze specific literary devices and poetic techniques. Writing assignments in this course include: journal prompts, short constructed responses, persuasive and argumentative writing, fiction writing, essay construction, and research. Students demonstrate proficiency through written analytical responses, group and individual comprehensive projects, and performance-based assessments. This course is credited toward the English requirement for graduation.

Honors English 9

Full Year – 5 Credits

Offered in Grade 9

Required Course

Honors English 9 is designed to challenge accelerated learners to analyze, evaluate and explore rigorous texts within the following literary genres: the short story, nonfiction, the novel, poetry, and drama. Students will examine the elements of each genre, as well as analyze specific literary devices and poetic techniques. Furthermore, students' exploration of these literary genres is framed around abstract concepts such as identity, loss of innocence, coming of age, social alienation, the search for belonging, and the relationship between individuals and their communities. Writing assignments in this course include: journal prompts, short constructed responses, persuasive and argumentative writing, fiction writing, essay construction, and research. Additionally, a particular emphasis is placed on academic writing, including a focus on the mastery of MLA formatting and citations. Students demonstrate proficiency through written analytical responses, group and individual comprehensive projects, and performance-based assessments. This course is credited toward the English requirement for graduation.

English 10

Full Year - 5 Credits

Offered in Grade 10

Required Course

Students in English 10 continue to develop and attain a higher degree of proficiency in English Language Arts. The course is designed to introduce students to the systematic study of literature developing their skills in reading and writing. Throughout the course, students will engage with challenging texts to foster critical thinking skills. Units focus on allegory, tragic hero, literary theory, memoir/storytelling, and the research process. Students will read selected short stories, novels, essays, poems, and plays. Students compose a variety of written expression practicing and honing skills in developing a sound thesis, utilizing textual evidence to support analysis of topic as well as the correct use of grammar and MLA format. PSAT/SAT preparation is embedded into the course. This course is credited toward the English requirement for graduation.

Honors English 10

Full Year – 5 Credits

Offered in Grade 10

Required Course

Students in Honors English 10 continue to develop and attain a higher degree of proficiency in English Language Arts in preparation for Advanced Placement Language and Composition and Honors Literature and the American Experience. The course is designed to provide students a deeper dive into the study of literature with an emphasis on the study of human nature; consequently, students will continue to develop their skills in reading and writing. Throughout the course, students will engage with challenging texts to foster critical thinking skills. The units focus on thematic concepts, such as the duality of human nature, the power of perspective, the pursuit of justice, and the abuse of power. Students will read selected short stories, novels, memoirs, essays, poems, and plays. Students will examine the elements of each genre, as well as analyze specific literary devices. Furthermore, students will also compose a variety of written forms of expression by practicing and honing skills, such as developing an argumentative thesis, using textual evidence to support analysis of a topic, employing correct use of grammar, and implementing MLA format. PSAT/SAT preparation is embedded into the course. This course is credited toward the English requirement for graduation.

English 11 – Literature & the American Experience

Full Year - 5 Credits

Offered in Grade 11

Required Course

This course is designed to examine in detail the American experience through literature, focusing primarily on identity, the American Dream, America's moral compass, and the myriad systems and hierarchies of power that exist in the U.S. Throughout the course, students will engage with challenging fictional and informational texts to foster critical thinking and writing skills. In their study of these texts, students will analyze characterization, figurative language, symbolism, text structure, and author's choice. Writing assignments in this course include: journal prompts, short constructed responses, argumentative writing, and narrative writing, all of which will hone students' skills in composing a sound argumentative thesis and citing and analyzing textual evidence. PSAT/SAT/ACT practice is also embedded into the course. This course is credited toward the English requirement for graduation.

Honors English 11 – Honors Literature & the American Experience

Full Year – 5 Credits

Offered in Grade 11

Required Course

In this rigorous course, advanced students examine the development of American literature. Using a thematic approach, students examine the various movements, their literary style and reflection of the period, and their relevance and impact upon contemporary writers. Students are challenged to further their studies independently and collaboratively. This course is credited toward the English requirement for graduation.

Survey of British and World Literature

Full Year - 5 Credits

Offered in Grade 12

Students may select Survey of British and World Literature **or** Contemporary World Literature to satisfy the five-credit requirement for grade 12 English.

This course engages students in the study of British and world literature for the purpose of exploring the themes, forms, styles, and cultural contexts of noteworthy authors. Readings focus on fiction and nonfiction texts that center around genres, archetypes and literary devices such as memoirs, the many representations of the hero (epic, tragic and modern) and satire. Themes and units studied emphasize narrative writing, and critical reading and writing skills necessary for effective analysis pertaining to literary and informational texts. Students further develop and hone skills in close, critical reading, engage in all stages of the writing process, expand knowledge about literature, language, and perspective. Students will continue to develop their writing skills using a variety of prompts and exercises designed to challenge assumptions, encourage critical thinking, and promote effective writing, both creative and analytical. In particular, regular writing practice will allow students to establish a voice and polish thesis development, essay

organization, and effective use of language conventions with close attention to style and augmentation. This course is credited toward the English requirement for graduation.

Honors English 12 - Survey of British and World Literature

Full Year – 5 Credits

Offered in Grade 12

Students may select Survey of British and World Literature **or** Contemporary World Literature to satisfy the five-credit requirement for grade 12 English.

This course is an accelerated study of British and World literature. Students are required to read a more expansive collection of literature and delve deeper into the critical analysis and interpretation of each text. Informational texts will be paired with each literary selection to provide further exploration of theme(s) and literary period. Analytical and research writing will be practiced throughout the course. This course is credited toward the English requirement for graduation.

English 12 Contemporary World Literature

Full Year – 5 Credits

Offered in Grade 12

Students may select Survey of British and World Literature **or** Contemporary World Literature to satisfy the five-credit requirement for grade 12 English.

The course engages students in the study of contemporary works of fiction and nonfiction for the purpose of exploring the themes, forms, styles, and cultural contexts of noteworthy contemporary authors outside British and American cultural traditions. Readings focus on fictional and nonfiction narratives originating in regions such as Africa, India, Asia, Latin America and Continental Europe. Students further develop and hone skills in close, critical reading, engage in all stages of the writing process, expand knowledge about literature and language, develop global perspective, and manage the task of developing an extensive and independent research project. Students will continue to develop their writing skills using a variety of prompts and exercises designed to challenge assumptions, encourage critical thinking, and promote effective writing, both creative and analytical. In particular, intensive writing practice will allow students to establish a voice and polish thesis development, essay organization, and effective use of language conventions with close attention to style and augmentation. This course is credited toward the English requirement for graduation.

Honors English 12 Contemporary World Literature

Full Year – 5 Credits

Offered in Grade 12

Students may select Survey of British and World Literature **or** Contemporary World Literature to satisfy the five-credit requirement for grade 12 English.

This course is an accelerated course of contemporary world literature that engages students in the study of contemporary works of fiction and nonfiction for the purpose of exploring the themes, forms, styles, and cultural contexts of noteworthy contemporary authors outside British cultural traditions. Students are required to read a more expansive collection of literature and delve deeper into the critical analysis and interpretation of each text. Readings focus on fictional and nonfiction narratives originating in regions such as Africa, India, Asia, Latin America and Continental Europe. Students further develop and hone skills in close, critical reading, engage in all stages of the writing process, expand knowledge about literature and language and develop global perspectives. Students will continue to develop their writing skills using a variety of prompts and exercises designed to challenge assumptions, encourage critical thinking, and promote effective writing, both creative and analytical. In particular, intensive writing practice will allow students to establish a voice and polish thesis development, essay organization, and effective use of language conventions with close attention to style, augmentation and synthesis. This course is credited toward the English requirement for graduation.

Advanced Placement English Language and Composition

Full Year - 5 Credits

Offered in Grade 11

This course develops student awareness of language and enhances skills in critical reading, listening, viewing, speaking and writing. In an effort to prepare students for the College Board Advanced Placement Examination in English Language and Composition, the course emphasizes the analysis of discursive prose in a wide variety of rhetorical contexts and the writing of expository essays for a variety of purposes, including to synthesize source materials, to

develop arguments, and to determine the effectiveness of rhetorical strategies. Students engage in all stages of the writing process with ongoing collaboration between the teacher and class members. The units of the course are meant to connect social themes with challenging texts in order to foster deep thinking and facilitate informed citizenship. Students are expected to take the Advanced Placement exam in May. This course is credited toward the English requirement for graduation.

Advanced Placement English Literature and Composition

Full Year - 5 Credits

Offered in Grade 12

Advanced Placement English Literature and Composition is a college-level literature course where students engage with varied texts across genres that connect texts to self and the world, while examining how writers use language to create meaning and reflect many perspectives. Students are expected to take the Advanced Placement exam in May. This course is credited toward the English requirement for graduation.

English Language Arts Department Electives

Creative Writing

Semester - 2.5 Credits

Offered in Grades 9, 10, 11, 12

Creative writing is a one-semester course which encourages the exploration and development of the writer's craft. Students examine various modes of expression as models for their own writing and broaden their writing experiences as well as refine the discipline the creative writing requires. This course is not credited toward the English requirement for graduation.

Literary Study of Rock and Hip Hop

Semester - 2.5 Credits

Offered in Grade 9, 10, 11, 12

This course engages students in the analysis of artistic textual mediums such as song lyrics, music videos, and documentaries. Through these various forms of text, students will study the influences (Jazz, The Blues, Folk) of modern Rock-and-Roll and Hip-Hop and trace the evolution through the decades. Focus will be on artists such as Elvis and Little Richard, The Beatles and Bob Dylan, Run DMC and Public Enemy. Students will analyze text mediums to determine themes and cultural contexts within verse and song lyrics in comparison with both historical and contemporary literature. Analytical skills will be refined through extensive reading of informational text and written response to text. This course is not credited toward the English requirement for graduation.

Mythology

Semester - 2.5 Credits

Offered in Grade 9, 10, 11, 12

Myths reveal the human condition and reflect human nature with its needs, desires, hopes, and fears. This course is designed for the student who is eager to explore the major myths from around the world in a manner that preserves their appeal as fine literature. Students study the principal plot, characterization, style, and cultural values and also read and analyze selected materials to broaden their knowledge, understanding, and appreciation of other cultures. This course is not credited toward the English requirement for graduation.

Public Speaking

Semester - 2.5 Credits

Offered in Grades 9, 10, 11, 12

This course is designed to help students gain the confidence needed when speaking before a group. The program begins with an emphasis on developing better interpersonal skills and continues with the delivery of an informative, introductory, persuasive, and sales speech. This course is recommended for students with an interest in journalism and public speaking. This course is not credited toward the English requirement for graduation.

Black Authors & Voices

Semester - 2.5 credits

Offered in Grades 10, 11, 12

This class will examine the development of the Black and African American literary works through the consideration of history, literary genres, and cultural forms. Students will study a range of texts, including fiction, poetry, drama, autobiography, and nonfiction, from the earliest published works by Black and African Americans to the present. This course is not credited towards the English requirement for graduation.

Young Adult Literature & Graphic Novels

Semester - 2.5 credits

Offered in Grades 9-12

This course is designed to provide our students the opportunity to explore young adult literature, a genre most commonly written for adolescents. In this course, students will read and discuss Young Adult literature via a book club structure. Text selections will include diverse authors and characters as well as books awarded the [Michael L. Printz Award for Excellence in Young Adult Literature](#), [Newbery Medal](#) and [Eisner Award](#). In the same manner students examine literature in their required English courses: they will expand abilities to think critically, trace relevant themes, and offer analytical assessment of the texts. This course is not credited towards the English requirement for graduation.

Journalism Program

Introduction to Journalism

Full year- 5 credits

Offered in grades 9, 10, 11, 12

This full year course engages students in the study of print, radio and broadcast journalism. Students enrolled in this course will be introduced to the fundamentals of the craft with emphasis placed on story development and the role of the media in society. Students develop skills in close, critical reading and explore many facets of journalistic storytelling, from writing news, feature and opinion pieces, to podcasting, photojournalism and broadcast TV. This course is a prerequisite for the advanced journalism courses – Newspaper and Broadcast TV. This course is not credited toward the English requirement for graduation. This course meets the 21st Century Life and Career Skills credit requirement for graduation.

Newspaper 1

Full Year - 5 Credits Offered in Grades 10, 11, 12

Prerequisite: Introduction to Journalism

This course is designed to offer the opportunity for students to refine their skills relative to the production of the school newspaper, [The Pioneer](#). The fundamentals of journalism are reinforced and students advance to higher-level skills in newspaper writing and production. Students also receive instruction in online publishing. Students enrolled in this course are first year staff of the school newspaper and produce each issue of the paper utilizing relevant computer software. The school and community as sources of news are explored and ethical and legal questions concerning the student press are examined. This course is not credited toward the English requirement for graduation.

Newspaper 2

Full Year - 5 Credits

Offered in Grades 11, 12

Prerequisite: Newspaper 1

This course is designed to offer the advanced journalism student continued opportunity to produce a student newspaper. Students continue to receive instruction in online publishing. Students enrolled in this course are second year staff and editors of [The Pioneer](#) and produce each issue of the newspaper utilizing computer software and ethical and legal questions concerning the student press are examined. This course is not credited toward the English requirement for graduation. Newspaper 3 Full Year - 5 Credits Offered in Grade 12 Prerequisite: Newspaper 2 This course is a continuation of the course of study outlined in Newspaper 2. Students enrolled in this course are third year newspaper staff and have the opportunity to be Editors-in-Chief of the school newspaper, The Pioneer. This course is not credited toward the English requirement for graduation.

Newspaper 3

Full Year - 5 Credits

Offered in Grade 12

Prerequisite: Newspaper 2

This course is a continuation of the course of study outlined in Newspaper 2. Students enrolled in this course are third year newspaper staff and have the opportunity to be Editors-in-Chief of the school newspaper, [The Pioneer](#). This course is not credited toward the English requirement for graduation.

Broadcast/TV 1

Full Year - 5 Credits

Offered in Grades 11, 12

Prerequisite: Introduction to Journalism

This course is designed to offer an introduction to television production skills and techniques, as well as provide a framework for developing critical television viewing skills. Through a variety of activities and experiences, students gain competencies in storyboarding, camera operation, video recording, graphic design, audio and editing. The proficiencies gained through this course provide students with insight into career opportunities in television production and provide a foundation for entrance into production courses in a post high school setting. Check out the TV studio, editing room and some action shots [HERE](#) and short video [HERE](#). This course is not credited toward the English requirement for graduation. This course meets the 21st Century Life and Career Skills credit requirement for graduation.

Broadcast/TV 2

Full Year - 5 Credits

Offered in Grades 12

Prerequisite: Broadcast/TV 1

This course is a continuation of the course of study outlined in Broadcast/ TV 1. At the end of this course, students are given a nationally recognized NOCTI assessment to certify they have a foundation in basic broadcasting and television production. Based on their score, students may be eligible to earn three college credits. Check out the TV studio, editing room and some action shots [HERE](#) and short video [HERE](#). This course is not credited toward the English requirement for graduation. This course meets the 21st Century Life and Career Skills credit requirement for graduation.

Yearbook

Full Year - 5 Credits

Offered in Grade 12

Prerequisite: Students interested in taking Yearbook must apply. Applications are due in January of grade 11 and assess teacher recommendations, practical skills, and work ethic.

This course is designed for the student who is eager to be involved in all phases of the planning and production of a yearbook. Students receive instruction in the development of all aspects of this school publication including meeting deadlines, brainstorming the concept, developing theme, and layout for the selections. Relevant terminology, strategies and procedures are explored, identified, and utilized such as captions, lead, interview, photography, and editing. Students learn to prepare the different sections of the yearbook which include academics, sports, business, senior, and student life. Finally, students plan for distribution of the yearbook. This course is not credited toward the English requirement for graduation.

English as a Second Language

The English as a Second Language (ESL) program is designed to meet the needs of students whose dominant language is not English and whose proficiency in English is limited. The purpose of the program is to:

- develop linguistic and academic skills necessary to succeed in an English-speaking school system.
- understand the American culture while maintaining pride in their linguistic and cultural heritages.
- maintain and develop a sense of self-worth and confidence in their ability to become part of society at large.

Students are placed in courses which correspond to their level of English language proficiency and grade. A culminating course is offered to seniors to prepare them for high school graduation. Exit from the ESL program is based on multiple criteria, which include results on the ACCESS for Multilingual Learners assessment, and PARCC, teacher recommendation and classroom performance.

ESL 1

Full Year – 10 Credits

Offered in Grades 9, 10, 11, 12

This is a two-period course designed for students with little to no English language proficiency. The main goal is to provide the students with experiences that will lead them to functional and social competency and prepare them for content area classes. Basic grammatical structures and vocabulary are mastered through the study of thematic units in the content areas. While exploring these units, students are encouraged to compare and contrast American perspectives with their native cultures. Listening, speaking, reading, writing skills are developed holistically and are emphasized equally to ensure the student's future academic success. Test taking and study skills are also incorporated at the appropriate level. This course is credited toward the English requirement for graduation.

ESL Study Skills

Full Year – 5 Credits

Required for students in their first year at West Orange High School who are enrolled in ESL1 or ESL2

Offered in Grades 9, 10, 11, 12

The ESL Study Skills course is designed to offer students instruction in skills necessary to succeed in an American high school and beyond. In this differentiated course, students new to the American school system and who are not proficient in English learn skills and strategies ranging from the learning the basics of English language vocabulary and grammar to test taking, note taking, following a high school schedule, and other behaviors necessary for academic success leading to graduation. Multilingual Learners also learn how to navigate and understand West Orange High School's resources such as Naviance, the Parent Portal, communicate with their guidance counselor, and utilize the library and media center. The ESL Study Skills course also contains units that teach students how to understand their GPA, number of credits, attendance guidelines, required courses, and how final grades are determined.

ESL 2

Full Year – 10 Credits

Offered in Grades 9, 10, 11, 12

Students who demonstrate proficiencies beyond the beginner level are placed in ESL 2. ESL 2 is a lower intermediate level course, consisting of a double-period. Here the students make the transition from social competency to academic competency. The students begin to develop higher-level grammatical and lexical skills through the study of fiction, non-fiction and current events. Students examine contemporary themes in the content areas and literature through cross-cultural perspectives. Test taking and study skills are always incorporated at the appropriate level. This course is credited toward the English requirement for graduation.

ESL 3, 4, 5 Contemporary Themes

Full Year – 5 Credits

Offered in Grades 9, 10, 11, 12

Students who meet the proficiencies for the lower intermediate level are placed in upper intermediate/advanced level courses, where students are grouped mostly by grade. Here students approach academic competency permitting them to become more independent in meeting content area requirements. The students master more linguistically complex structures and vocabulary through the study of non-fiction and current events. The focus of these courses is to examine contemporary themes in the content areas through cross-cultural perspectives. There is an equal emphasis on listening, speaking, reading, writing and viewing. Test taking and study skills are incorporated along with a growing emphasis on research skills. This is a required companion course with ESL 3, 4, 5 Literature as per the high intensity ESL program requirement mandated by the State. This course is not credited toward the English requirement for graduation.

ESL 3, 4, 5 Literature

Full Year – 5 Credits

Offered in Grades 9, 10, 11, 12

These courses, while adapted to Multilingual Learners parallel the mainstream English literature program. Students explore multicultural literature and discuss how people from different cultures respond to universal themes. Students are encouraged to read independently, research topics and present research papers. This course is credited toward the English requirement for graduation.

Multilingual Learners

Content area courses specifically designed for Multilingual Learners are offered in social studies, mathematics, and science. These courses are credited toward the content area's graduation requirement. Teachers utilize mainstream curriculum with modified materials and instructional strategies to deliver appropriate instruction.

MATHEMATICS:

Mathematics

Full Year - 5 Credits

Offered in Grades 9, 10, 11

This course is offered to beginner and intermediate Multilingual Learners, and satisfies the first-year mathematics requirement. The curriculum is designed to prepare students to enter Algebra 1 or Algebra 1. This course is taught by a mathematics teacher using ESL methodology and techniques to facilitate skill acquisition and application. This course is not credited toward the Mathematics requirement for graduation.

Geometry & Analysis

Full Year – 5 Credits

Offered in Grades 9, 10, 11, 12

This course is offered to beginner and intermediate Multilingual Learners, and satisfies a mathematics requirement. The course is taught by a mathematics teacher using ESL methodology and techniques to facilitate skill acquisition and application. For a more detailed description, refer to the course description in the mathematics section. The course is credited toward the Mathematics requirement for graduation.

Algebra I

Full year – 5 Credits

Offered in Grades 9, 10, 11, 12

This course is offered to beginner and intermediate Multilingual Learners, and satisfies a mathematics requirement. The course is taught by a mathematics teacher using ESL methodology and techniques to facilitate skill acquisition and application. For a more detailed description, refer to the course description in the mathematics section. This course is credited toward the Mathematics requirement for graduation.

Algebra II

Full year – 5 Credits

Offered in Grades 10, 11, 12

This course is offered to beginner and intermediate Multilingual Learners, and satisfies a mathematics requirement. The course is taught by a mathematics teacher using ESL methodology and techniques to facilitate skill acquisition and application. For a more detailed description, refer to the course description in the mathematics section. This course is credited toward the Mathematics requirement for graduation.

SCIENCE:

Earth Science

Full Year – 5 Credits

Offered to Multilingual Learners based on their English Language proficiency level

This course is offered to English Proficiency level 1 and 2 Multilingual Learners in their first or second year as needed to meet the graduation requirement. This course is taught by a science teacher using Sheltered Instruction Observation Protocols (SIOP) methodology and techniques to facilitate the acquisition of the course proficiencies. For a more detailed description, refer to the course description in the science section. This course is credited toward the Science requirement for graduation.

Biology

Full Year - 6 credits

Offered to Multilingual Learners based on their English Language proficiency level

This course is offered to English Proficiency level 2 and 3 Multilingual Learners in their second or third year as needed to meet the graduation requirement. This course is taught by a biology teacher using Sheltered Instruction Observation Protocols (SIOP) methodology and techniques to facilitate the acquisition of the course proficiencies. For a more detailed description, refer to the course description in the science section. This course is credited toward the Science requirement for graduation.

Chemistry

Full Year - 6 credits

Offered to Multilingual Learners based on their English Language proficiency level

This course is offered to English Proficiency level 3, 4 and 5 Multilingual Learners in their third or fourth year as needed to meet the graduation requirement. This course is taught by a chemistry teacher using Sheltered Instruction Observation Protocols (SIOP) methodology and techniques to facilitate the acquisition of the course proficiencies. For a more detailed description, refer to the course description in the science section. This course is credited toward the Science requirement for graduation.

Physics

Full Year – 6 credits

Offered to Multilingual Learners based on their English Language proficiency level

This course is offered to advanced Multilingual Learners. This course is taught by a physics teacher using Sheltered Instruction Observation Protocols (SIOP) methodology and techniques to facilitate the acquisition of the course proficiencies. For a more detailed description, refer to the course description in the science section. This course is credited toward the Science requirement for graduation.

SOCIAL STUDIES:**Modern World History**

Full Year - 5 Credits

Offered in Grades 9, 10, 11, 12

This course is offered to beginning Multilingual Learners and satisfies the world history requirement for graduation. This course is taught by a social studies teacher using ESL methodology and techniques to facilitate the acquisition of the course proficiencies. For a more detailed description, refer to the course description in the social studies section. This course is credited toward the Social Studies requirement for graduation.

United States History I

Full Year - 5 Credits

Offered in Grades 9, 10, 11, 12

This course is offered to lower intermediate and upper intermediate Multilingual Learners satisfies the U.S. History 1 requirement for graduation. This course is taught by a social studies teacher using ESL methodology and techniques to facilitate the acquisition of the course proficiencies. For a more detailed description, refer to the course description in the social studies section. This course is credited toward the Social Studies requirement for graduation.

United States History II

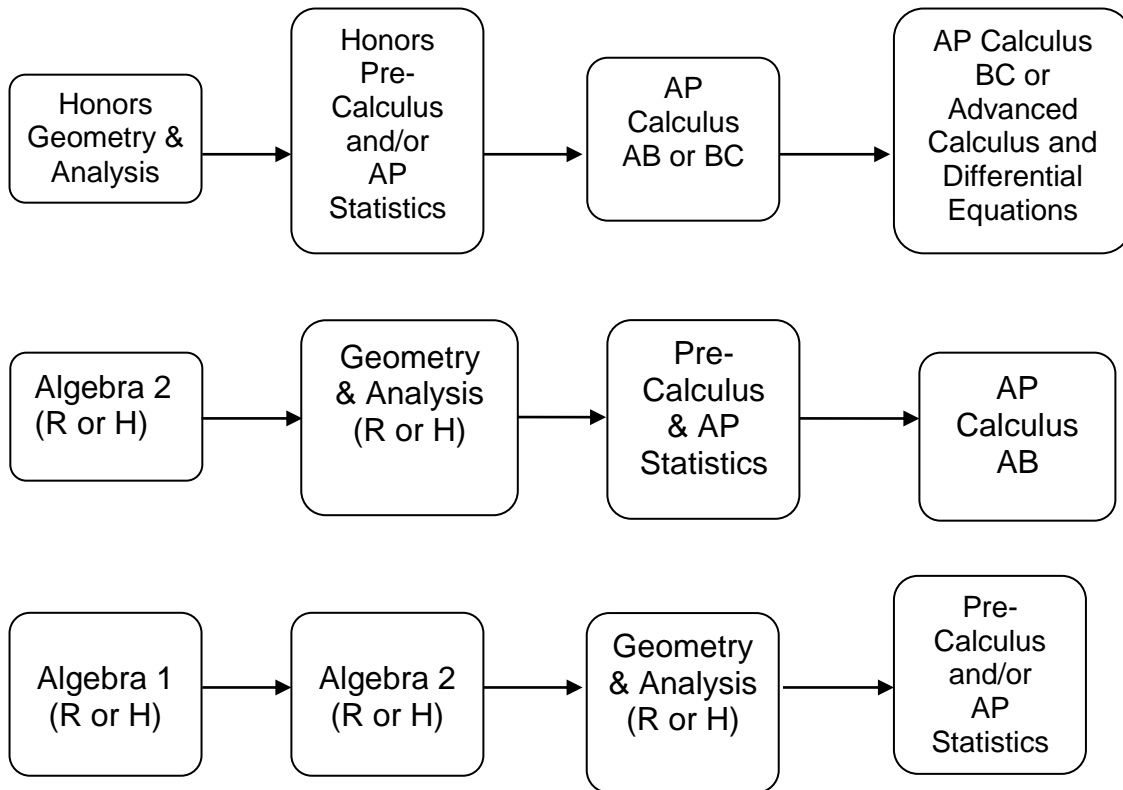
Full Year - 5 Credits

Offered in Grades 10, 11, 12

This course is offered to upper intermediate and advanced Multilingual Learners and satisfies the U.S. History II requirement for graduation. This course is taught by a social studies teacher using ESL methodology and techniques to facilitate the acquisition of the course proficiencies. For a more detailed description, refer to the course description in the social studies section. This course is credited toward the Social Studies requirement for graduation.

Mathematics

Course Sequence



Available electives in Mathematics by Grade Level include:

Grade 9	Grade 10	Grade 11	Grade 12
Programming in Visual Basic Programming in C++	Programming in Visual Basic Programming in C++ Java AP Statistics Programming in Python Data Science Foundations	Programming in Visual Basic Programming in C++ Java AP Computer Science A AP Statistics College Math Statistics Calculus Programming in Python Data Science Foundations	Programming in Visual Basic Programming in C++ Java AP Computer Science A AP Statistics College Math Statistics Calculus Programming in Python Data Science Foundations

Learning mathematics is a process that requires active student involvement. Mathematics is best learned through activities that allow students to explore and understand the mathematics on their own. Activities such as simulating sine waves through a graphing calculator or folding conic sections on wax paper give students an opportunity to create the math for themselves; which provides them with a more concrete understanding of the concepts.

The NCTM Standards emphasize the idea of mathematics as a thought process, not just a body of knowledge. Mathematical communication, problem solving, reasoning, connections, and representation go beyond the math content itself. To teach for understanding, teachers must provide learning opportunities that allow inquiry and student involvement.

Our goal at West Orange High School is to prepare students in mathematics to meet the demands of a changing global economy. According to the New Jersey Student Learning Standards (NJSLS), the mathematically proficient students must possess the following:

1. Make sense of problem and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attain to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

The mathematics program at West Orange High School employs differentiated and cooperative learning strategies to help reinforce the mathematical learning in each course and review key skills and concepts. All math courses include preparation for State Testing and PSAT/SAT.

You Decide Your WOHS Math Placement/Advancement By Meeting Department Requirements		
Current Course	Placement	Requirement
Honors	Honors	75 average Teacher recommendation
Honors	CP	Less than 75 average Teacher recommendation
Honors	AP	80 Average Teacher recommendation
CP	Honors	93 average Teacher recommendation, and 80 or better on Algebra I Comprehensive Test
CP	AP Statistics	90 average Teacher recommendation
CP	CP	Passing grade in all prerequisite courses

Algebra 1

Full Year - 5 Credits

Offered in Grade 9

Modeling and problem solving are the heart of the curriculum at the Algebra I level. Mathematical modeling consists of recognizing and clarifying mathematical structures that are embedded in other contexts, formulating a problem in mathematical terms, using mathematical strategies to reach a solution and interpreting the solution in the context of the original problem. Students must be able to solve practical problems, representing and analyzing the situation using symbols, graphs, tables or diagrams. They must effectively distinguish relevant from irrelevant information, identify missing information, acquire needed information and decide whether an exact or approximate answer is called for, with attention paid to the appropriate level of precision. After solving a problem and interpreting the solution in terms of the context of the problem, they must check the reasonableness of the results and devise independent ways of verifying the results. Topics include: Operations on Numbers and Expressions, Linear Relationships, Non-Linear Relationships, Data, Statistics, and Probability. Graphing calculators are used extensively throughout the course. This course meets the Mathematics credit requirement for graduation.

Honors Algebra 1

Full Year - 5 Credits

Offered in Grade 9

Prerequisite: Teacher recommendation and approval by the Supervisor of Mathematics

This rigorous course emphasizes the skills, concepts and applications of Algebra I. Topics include: Operations on Numbers and Expressions, Linear Relationships, Non-Linear Relationships, Data Statistics, and Probability. Graphing calculators are used extensively throughout the course. This fast-paced course teaches topics in greater depth and with a focus on applications and connections. This course meets the Mathematics credit requirement for graduation.

Algebra 2

Full Year - 5 Credits

Offered in Grade 9, 10, 11

Prerequisites: Algebra 1

This course provides a more advanced study of algebra. A major objective is the classification of types of equations and the development of proficiency in solving and applying equations. Topics include structure of number systems, polynomials and factoring, rational expressions, inequalities, relations, functions and graphing, exponents, radicals, quadratics, complex numbers and logarithms. Additional topics may include sequences and series, matrices and determinants, permutations and combinations, and binomial expansion. Graphing calculators are used extensively to enhance concepts and applications. This course meets the Mathematics credit requirement for graduation.

Honors Algebra 2

Full Year - 5 Credits

Offered in Grades 9, 10, 11

Prerequisite: Honors Algebra 1. Teacher recommendation or approval by the Supervisor of Mathematics

This rigorous, fast-paced course provides a more advanced study of second-year algebra. Concepts and skills are emphasized so that students can make connections and apply the mathematics being learned. Topics include the structure of number systems, equations and inequalities, polynomials and rational expressions, relations, functions and graphing; data analysis (line of regression and correlation), exponents and radicals, quadratics, complex numbers, matrices and determinants, logarithms, and sequences and series. Additional topics may include binomial expansion, permutations and combinations. Graphing calculators are used extensively to enhance concepts and applications. In this Honors course, topics are studied in greater depth with an emphasis on connections and applications. This course meets the Mathematics credit requirement for graduation.

Geometry & Analysis

Full Year - 5 Credits

Offered in Grade 9, 10, 11

Prerequisite: Algebra 2

This is a standard geometry course with emphasis on concepts, reasoning, and numerical applications using algebraic skills. Spatial sense is a key goal of the course. Major topics include congruency, similarity, polygons, parallel lines, area, the Pythagorean Theorem, circles, and transformations. Coordinate geometry, constructions, and solid geometry are integrated throughout the course. The course is designed to demonstrate the application and significance of geometry. Manipulatives and The Geometers' Sketchpad are used to enhance student understanding and learning. This course meets the Mathematics credit requirement for graduation.

Honors Geometry & Analysis

Full Year - 5 Credits

Offered in Grades 9, 10, 11

Prerequisite: Algebra 2 or Honors Algebra 2

Teacher recommendation or approval by the Supervisor of Mathematics

This rigorous, fast-paced, geometry course emphasizes concepts, reasoning, connections and applications. Spatial sense is a key goal of the course. Major topics include congruency, similarity, polygons, parallel lines, special quadrilaterals, area, the Pythagorean Theorem, circles and transformations. Coordinate geometry, constructions and three-dimensional geometry are integrated throughout the course. Students gain experience in presenting convincing arguments: two-column proofs, coordinate geometry proofs or paragraph proofs. Manipulatives and The Geometers' Sketchpad are used to enhance student understanding and learning. Topics are taught in greater depth and with a focus on applications. This course meets the Mathematics credit requirement for graduation.

Pre-Calculus

Full Year - 5 Credits

Offered in Grades 10, 11, 12

Prerequisites: Algebra 2 and Geometry

This course integrates the ideas of functions and trigonometry along with the statistics and data analysis necessary to function successfully in the worlds of today and tomorrow. Topics include data collection, line of best fit, statistical graphs, special functions (power, exponential, logarithmic, and trigonometric), transformation of functions, trigonometric equations and identities, probability, sequences, and series, and conic sections. The Pre-Calculus course makes extensive use of graphing calculators and computer software in order to enhance the understanding and application of the course content. This course meets the Mathematics credit requirement for graduation.

Honors Pre-Calculus

Full Year - 5 Credits

Offered in Grade 10, 11

Prerequisites: Honors Algebra 2 and Honors Geometry.

Teacher recommendation or approval by the Supervisor of Mathematics

This course provides a comprehensive study of trigonometry, analytic geometry, and elementary functions. Topics in trigonometry include functions, trigonometry of right and oblique triangles, graphing, inverse functions, equations and identities. The focus in analytic geometry will be polynomial functions and rational functions. Also covered are exponential, logarithmic and parametric functions, advanced algebra topics, probability, and sequence and series, and conic sections. Pre-calculus mathematics extends and applies skills and concepts from algebra and geometry. Graphing calculators will be used extensively. This rigorous course is designed for the student interested in further study in mathematics, science or engineering. This course meets the Mathematics credit requirement for graduation.

College Math

Full Year- 5 Credits

Offered in Grades 11 and 12

Prerequisites: Geometry and Analysis

This course is designed to offer non-physical science students a practical approach that connects mathematics to the world around them. This course will better prepare students to be successful in a higher-level algebra based high school and college math courses. The course will re-emphasize and ensure understanding of the basic concepts of algebra, geometry, principles of personal financial management, and the elementary principles of gathering, analyzing, and representing data. This course meets the Mathematics credit requirement for graduation.

Statistics

Full Year- 5 Credits

Offered in Grades 11 and 12

Prerequisites: Geometry and Analysis

This is an introductory level course in Statistics which will provide opportunities for learners to practice the principles of data analysis and problem-solving skills and prepares them for AP and/or college level courses in statistics. The course will focus on topics in data analysis and representations, relationships between variables and model data with graphs and scatterplots, elementary rules of randomness and probability, and the Normal Distribution Model. This course meets the Mathematics credit requirement for graduation.

Calculus

Full Year- 5 Credits

Offered in Grades 11-12

Prerequisites: Precalculus

The course will provide opportunities for learners to practice the principles of modeling and problem-solving skills and prepare them for advanced studies in the area of calculus and applied mathematics. It will develop understanding of: modeling and problem-solving skills using calculus, the derivative at a given point on the graph of a curve as the slope of the tangent line at that point, the integral of a given function over given boundaries as the area under the curve within the boundaries, the elementary theorems of calculus to find derivatives and evaluate integrals of linear, exponential, rational, and trigonometric functions. A wide range of TI-89 graphing calculator activities will be utilized throughout the course to model and solve real life applications using the principles of calculus. This course meets the Mathematics credit requirement for graduation.

Programming in Visual Basic

Semester - 2.5 Credits

Offered in Grades 9, 10, 11, 12

Prerequisite: Algebra 1

Programming in Visual Basic, offers the student an opportunity to create programs in this computer language. In addition to learning Visual Basic syntax, the student will also discover what happens when their programs are executed. Understanding how computers work will help the student write better programs not only in Visual Basic, but in many other computer languages as well. Projects from a broad field are examined. Problem solving strategies are employed in writing programs for these projects. This course is not credited towards the Mathematics requirements for graduation. This course is credited towards the 21st century credit requirement for graduation.

Programming in C++

Semester - 2.5 Credits

Offered in Grades 9, 10, 11 and 12

Prerequisite: Programming in Visual Basic

This course is an introduction to the C++ language and will use the C++ syntax to write beginning to advanced programs. C++ is an object-oriented language. Students will build and work with these objects. The internal structure of these objects is often built by using structured programming techniques; the techniques taught in BASIC and Pascal.

The concepts of reusability, adaptability and reliability in writing C++ code will be emphasized throughout the entire course. As time permits, the student will use these features to support abstract data types, inheritance and polymorphism and apply them to the process of data abstraction and class design.

Programming in C++ will start the student on the challenging and rewarding path of object-oriented computer programming. This course is not credited towards the Mathematics requirement for graduation. This course is credited towards the 21st century credit requirement for graduation.

Data Science Foundations

Full Year - 5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Algebra 2 with a 75% or higher.

The course is designed to expose students to the fast-growing field of data analytics. Students will be completing projects that are both tangible, and applicable outside of school. Students will provide students an opportunity to use various programming platforms to address questions relevant to their world. This will foster not only their appreciation for programming, but their capacity to design, analyze, and inquire about phenomena outside of a scholastic setting. This course is not credited towards the Mathematics requirement for graduation. This course is credited towards the 21st century credit requirement for graduation.

Java

Full Year – 5 Credits

Offered in Grades 10, 11 and 12

Prerequisite: Programming in Visual Basic, Programming in C++

Programming in Java offers students the opportunity to create Object Oriented programs using a video game design approach program. Students will learn how to perform error analysis and integrate applets into websites. Understanding how computers work will help students to better understand how to write programs. Problem solving as well as using analytical and logical thinking skills are employed in writing programs for these various game applications. This course is not credited towards the Mathematics requirement for graduation. This course is credited towards the 21st century credit requirement for graduation.

Programming in Python

Full Year - 5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Programming in Visual Basic and/or Programming in C++

The course is designed to expose students to a coding platform where projects are both tangible, and applicable outside of school. With python, students can see their results immediately and show them at home. This will foster not only their appreciation for programming, but their capacity to design. This course is not credited towards the Mathematics requirement for graduation. This course is credited towards the 21st century credit requirement for graduation.

Advanced Placement Computer Science A

Full Year – 6 Credits

Offered in Grades 11, 12

Prerequisite: Java, Algebra 2

Advanced Placement Computer Science A is an advanced computer programming course that offers an object-oriented approach to writing well-designed software packages using the programming language known as Java. Using higher level thinking skills gained by complex algorithms, case studies, and error analysis, students will solve problems that arise in everyday context. This course is not credited towards the Mathematics requirement for graduation. This course is credited towards the 21st century credit requirement for graduation.

Advanced Placement Statistics

Full Year - 6 Credits

Offered in Grades 10, 11, 12

Prerequisite: Honors Geometry and Analysis. Teacher recommendation or approval by the Supervisor of Mathematics

This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring data; Planning a study; Anticipating patterns; and Statistical inference. The TI-83 PLUS Graphing Calculator will be used extensively in this course. In colleges and universities, at least one statistics course is typically required for majors such as engineering, psychology, sociology, health science, business and a great many others. AP Statistics is an excellent option for students successfully completing Algebra 2. Mathematically able students are encouraged to take both AP Statistics and AP Calculus. All students taking AP Statistics are expected to take the College Board Advanced Placement Examination in May. This course is credited toward the Mathematics credit requirement for graduation.

Advanced Placement Calculus AB

Full Year - 6 Credits

Offered in Grade 11, 12

Prerequisite: Honors Algebra 2, Honors Geometry, and Honors Pre-calculus.

Teacher recommendation or approval by the Supervisor of Mathematics

Advanced Placement Calculus has two primary goals. The first is to prepare students for success on the AP Calculus AB or BC Exam which requires a comprehensive study of first year differential and integral calculus of one variable. The second is to prepare students to excel in future college courses and applications of mathematics. In addition to these primary goals, the course also requires that students use the TI – 89 calculators to solve problems, experiment, interpret results, and support conclusions. Students use a multi-representational approach to problem solving and the course emphasizes the connections among these representations. Topics include Functions, Graphs, and Limits; Derivatives; and Integrals as delineated in the Calculus AB or BC Topic Outline in the *AP Calculus Course Description*. All students taking A.P. Calculus are expected to take their respective College Board Advanced Placement Examination in May. This course is credited toward the Mathematics credit requirement for graduation.

Advanced Placement Calculus BC

Full Year - 6 Credits

Offered in Grade 11, 12

Prerequisite: Honors Algebra 2, Honors Geometry, and Honors Pre-calculus.

Teacher recommendation or approval by the Supervisor of Mathematics

Calculus BC focuses on developing the students' understanding of the concepts of Calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to Calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations also are stressed. Calculus BC is an extension of Calculus AB rather than an enhancement and common topics require a similar depth of understanding. Broad concepts and widely applicable methods are emphasized. The focus of the courses is neither manipulation nor memorization of an extensive taxonomy of functions, curves, theorems, or problem types. Thus, although facility with manipulation and computational competence are important outcomes, they are not the core of these courses. Technology should be used regularly by students and teachers to reinforce the relationships among the multiple representations of functions, to confirm written work, to implement experimentation, and to assist in interpreting results. Through the use of the unifying themes of derivatives, integrals, limits, approximation, and applications and modeling, the course becomes a cohesive whole rather than a collection of unrelated topics. This course is credited toward the Mathematics credit requirement for graduation.

Advanced Calculus and Differential Equations

Full Year - 6 Credits (Honors level)

Offered in Grade 12

Prerequisite: AP Calculus BC

Advanced Calculus and Differential Equations builds on the fundamentals of calculus and focuses on advanced differentiation and integration techniques and their wide range of applications. The first part of the course will cover topics related to Vector-Valued Functions and Motion in Space, Partial Derivatives, Multiple Integrals, and Integrals and Vector fields. The second part of the course will introduce Differential Equations and covers topics related to Separation of Variables, First Order Differential Equations, and Homogeneous Differential Equations. The course will provide opportunities for learners to practice the principles of advanced calculus and differential equations in modeling and solving dynamic phenomena related to physics, mathematics, and engineering and prepare them for advanced studies in the area of applied mathematics and all related STEM fields. This course will also provide opportunities for students to compete for admission in elite schools and programs of studies.

Visual and Performing Arts

Art

The West Orange Art Program offers a variety of visual and aesthetic art courses designed for high school students who wish to study art for personal enrichment, as well as for students considering an art-related career.

All students must complete a one-semester foundation course in studio art (Art 1A or Three-Dimensional Design 1), before proceeding to advanced studies. After the first semester, students may select specialized studio courses from two sequences, Art or Three-Dimensional Design. All visual arts courses stress the development of perceptual skills, drawing and composition.

Within the Art Sequence, students are offered a choice of ten courses in Studio Art. Studio Art includes advanced drawing, design, painting, graphics and sculpture (Art 1A, 1B, 2A, 2B, 3, 4). Juniors and seniors, with permission, may enroll in Advanced Placement Studio Art to produce portfolios designed to earn up to six advanced placement college credits.

The Three-Dimensional Design Sequence includes four one-semester courses offering progressive studies in ceramics, fiber, jewelry, printmaking and sculpture (Three-Dimensional Design 1, 2, 3, 4, 5).

Art 1A – Drawing & Painting

Semester - 2.5 Credits

Offered in Grades 9, 10, 11, 12

Art 1A is a prerequisite for most other art courses, providing a studio art foundation which is essential for all art studies. It is designed for students who wish to use art for personal enjoyment, as well as for students who plan to proceed to advanced art classes. Art 1A gives students a basic working knowledge of art elements, techniques, mediums, and principles of design. Students will explore the impact of line, tone, color, space and form in two dimensions: drawing, design, and painting. This course is required for students who wish to take advanced art and craft courses. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

Art 1B – Drawing Concepts

Semester - 2.5 Credits

Offered in Grades 9, 10, 11, 12

Prerequisite: Art 1A

This course emphasizes visual exploration of two-and three-dimensional design elements using a critical thinking approach. Art history content provides knowledge of style development, concepts and social motivation. This course is recommended for students wishing to broaden their understanding of the visual world, as well as for students interested in art as a career. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

Art 2A – Drawing & Mixed Media

Semester - 2.5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Art 1B

This is an intermediate course that focuses on the enhancement of basic skills and concepts introduced at the Art 1 level. It provides students with an opportunity to develop techniques and skills in composition and use of art mediums. Students will examine the contributions of selected artists. As they analyze techniques and styles, and through field trip experiences, they will further develop their critical thinking and problem-solving abilities. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

Art 2B – Painting & Printmaking

Semester - 2.5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Art 2A

This course, like Art 2A, is based on a problem-solving approach. Two-and three-dimensional design problems are further explored through drawing, painting, graphics, sculpture, and field trip experiences. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

Art 3 – Portfolio Development

Full Year - 5 Credits

Offered in Grades 11, 12

Prerequisite: Art 2B

This advanced studio art course offers each student the opportunity to develop more involved design concepts and execute them in a variety of art mediums. Students are encouraged to expand their creative ideas by utilizing materials best suited to each individual expressive statement; opportunities for choice of media and design problems are an integral part of the course. Advanced design problems will concentrate on two-dimensional works in drawing and painting. This course meets the Visual and Performing Arts credit requirement for graduation.

Art 4 – Adv. Drawing Portfolio

Full Year - 5 Credits

Offered in Grade 12

Prerequisite: Art 3; Permission of Instructor

Co-requisite for Advanced Placement: Art 4 or Art 4 - 3D

Art 4 is a studio course that is aligned with the requirements of Advanced Placement Studio Art. This course is intended for mature, highly motivated and focused students who are committed to developing an advanced portfolio. Activities are designed to satisfy specific standards and requirements of both the quality section and the breadth section of the A.P. Portfolio. Students enrolled will be required to complete a total of twenty four art portfolio pieces. Through individually structured contracts approved by the instructor, each student will demonstrate mastery of a variety of media and explore advanced design problems through drawing, painting, printmaking or sculpture. Students, who are currently taking AP Studio Art, must designate whether they are pursuing 2D or 3D portfolios for this course. This course meets the Visual and Performing Arts credit requirement for graduation.

Honors Art 4 – Honors Adv. Drawing Portfolio

Full Year - 5 Credits

Offered in Grade 12

Prerequisite: Art 3; Permission of instructor

This course is a continuation of Art 3, expanding upon concepts and directions in contemporary styles and media, with emphasis on advanced design problems. Activities are explored to increase students' ability in drawing and problem solving. Portfolio preparation is an integral part of the course. Students enrolled will be required to complete a total of twelve art portfolio pieces. Visits to museums and galleries in New York City and the Metropolitan area give the student a broader frame of reference. Advanced design problems will be explored through drawing, painting, printmaking, and sculpture. This course meets the Visual and Performing Arts credit requirement for graduation.

Three-Dimensional Design 1-Ceramics and Sculpture

Semester - 2.5 Credits

Offered in Grades 9, 10, 11, 12

This course is a foundation course suitable for the beginning art student. Activities are designed to develop artistic and perceptual awareness and appreciation, and to increase these skills through first-hand experience in clay and fiber. Each studio experience is based on the elements of design and their historical significance. This is the first course in the four-course sequence, and may be taken simultaneously with Art 1A. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

Three-Dimensional Design 2-Ceramics and Sculpture

Semester - 2.5 Credits

Offered in Grades 9, 10, 11, 12

Prerequisite: Three-Dimensional Design 1-Ceramics and Sculpture

In this course, students are provided with opportunities to develop further both design concepts and advanced techniques essential in creating sculptural forms. Advanced work in design will be given in three major areas: clay, sculpture, and fiber. Each studio experience is based on the elements and principles of design and resources such as slides, films, books, the Internet and field trips to art exhibitions will be used. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

Three-Dimensional Design 3-Ceramics and Sculpture

Semester - 2.5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Three-Dimensional Design 2-Ceramics and Sculpture

This advanced course offers students individual, progressive opportunities to experiment in a variety of mediums. Students will develop in greater depth both their design concepts and sculpture techniques. Design problems will encompass major areas of ceramics, fiber, bookmaking, and mosaic art. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

Three-Dimensional Design 4-Ceramics and Sculpture

Semester - 2.5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Three-Dimensional Design 3-Ceramics and Sculpture

Advanced three-dimensional design students will choose among ceramics, fibers, printmaking, and mosaic, and execute a major project in two of them. Students may elect to pursue a particular interest in a technique or medium. They are encouraged to explore the limits of creative expression in 3-D design, visit exhibitions, and prepare a portfolio for college admission. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

Three-Dimensional Design 5-Ceramics and Sculpture

Full Year - 5 Credits

Offered in Grades 11, 12

Prerequisite: Three-Dimensional Design 4-Ceramics and Sculpture

Three-Dimensional Design 5-Ceramics and Sculpture offers advanced study to students who have shown ability and interest in the Three-Dimensional Design sequence. This full year course will provide a bridge for those students pursuing advanced studies in the AP Studio Art class and provide adequate preparation for students to register for the 3-D Design Portfolio. The nature of this full year course will allow ample time to develop ideas, explore history and cultural practices and create in depth projects. This course meets the Visual and Performing Arts credit requirement for graduation.

Urban Arts and Communication

Half year – 2 1/2 Credits

Elective: Offered in grades 10, 11, 12

This course investigates the meaning of urban art and communication from the perspective of the public viewer. The course is a hands-on studio course that will focus on street and graffiti art as a form of communication, and how these specific art forms are used in urban and rural settings to create awareness for social issues, hope for the future and to beautify environments. Students will examine political and social street art and learn how the art form is being used by big companies for advertising campaigns to promote their brands. Students will work collaboratively to develop, propose, and execute a final public mural of art for the school or community at the end of the semester. The course will also include visits to museums and guest speakers/artists. This course meets the Visual and Performing Arts credit for graduation.

Advanced Placement Art & Design Courses

Advanced Placement Drawing

Advanced Placement 2-D Art & Design

Advanced Placement 3-D Art & Design

Full Year - 5 Credits/Course

Offered in Grade 12

Prerequisite: Permission of instructor along with submission of qualifying portfolio

This advanced art course is intended for highly motivated students who are seriously interested in pursuing visual arts studies and wish to qualify for three or six college credits through the Advanced Placement Program of the College Board. Students may elect to pursue a one-year course of study in **AP Drawing**, and/or a one-year course of study in **AP Two-Dimensional Art & Design** and/or a one-year course of study in **AP Three-Dimensional Art & Design**. Portfolio preparation is integral to the course, requiring that students work outside the classroom as well as in the class. Students are expected to visit museums and galleries without the teacher as a guide; a sketchbook or journal is also a requirement. Students in these courses are expected to prepare a portfolio of 15 art pieces for submission to the College Board Advanced Placement Examination Program in May. This course meets the Visual and Performing Arts credit requirement for graduation.

Music: Instrumental and Vocal

The West Orange music program offers a wide variety of musical experiences designed to meet the needs of all students. In addition to credit-bearing courses in vocal music, music literature, instrumental music and music theory, high school students may elect to participate in a number of co-curricular music activities, such as Marching Band, Winter Color Guard, Jubilee Choir, and Jazz Band I and II. The annual school musical production offers special opportunities for vocalists; "Pit Orchestra" offers the same for instrumentalists. As student interests expand, the music department seeks to meet their needs with appropriate clubs and activities.

Performing music courses include band and orchestral studies for student instrumentalists (who must have studied an instrument previously), and a variety of choral music classes for beginning singers to advanced soloists. In addition, the high school offers Music Theory and Advanced Placement Music Theory for music students wishing to qualify for college credits through the Advanced Placement Testing Program of the College Board. "Music in Our World" is a high-interest, hands-on course that provides musical understanding for personal pleasure. Honors (weighted) courses are available to advanced students seeking enhanced recital experiences.

BAND STUDIES

Students must either own or rent their own instruments in order to participate in Band Studies. Band Studies include four separate courses for students who play wind and percussion instruments: **Ninth Grade Band, Concert Band, Symphonic Winds, and Honors Wind Ensemble.** Repertoire is balanced between the contemporary and the traditional. Emphasis is placed on development of individual as well as ensemble playing skills. All students, at their own option, may enroll in co-curricular performing groups: Marching Band, Jazz Band, Pit Orchestra, Indoor Percussion Ensemble and Chamber Ensembles. Individual course descriptions follow:

Ninth Grade Band

Full Year – 5 Credits

Offered in Grade 9

Prerequisite: Prior instrumental study; 8th Grade Band

Ninth Grade Band is designed to give students the opportunity to perform standard band literature, practice self-discipline, enhance intellectual abilities, and develop their musical skills. Basic musical aspects, such as rhythm, technique and note reading, are emphasized through an exploration of works from different cultures and periods, from the baroque era through contemporary styles. They will develop self-awareness and learn how to self-evaluate through the higher-level warm-ups and grade appropriate literature along with weekly small group lessons. This course meets the Visual and Performing Arts credit requirement for graduation.

Concert Band

Full Year – 5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Ninth Grade Band and Placement Audition

The Concert Band is an instrumental ensemble that emphasizes performance of challenging literature written for band, or transcriptions from orchestral works. Repertoire includes selections at Level 2-3 (NJMEA standard) in contemporary and traditional compositions. Students will further develop their musicianship through interpretation, trained hearing and response. Musicality, technique, phrasing, and the ability to analyze form are major areas to be stressed. They will develop self-awareness and learn how to self-evaluate through the higher-level warm-ups and grade appropriate literature along with weekly small group lessons. This course meets the Visual and Performing Arts credit requirement for graduation.

Symphonic Winds

Full Year-5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Ninth Grade Band and Placement Audition

The activities of The Symphonic Winds are designed to satisfy specific standards and requirements of higher performance criteria for a high school band. Repertoire includes selections at level 3-4 (NJMEA standard) in contemporary and traditional compositions. Students will be challenged to play music of greater difficulty resulting in a higher level of proficiency in the following concrete areas: rhythm, pitch, articulation, dynamics, phrasing, and intonation, through use of the warm-up book, and the band literature. Students will learn to play more maturely in abstract areas such as personal creativity, expression and technical proficiency. They will develop self-awareness and learn how to self-evaluate through the higher-level warm-ups and grade appropriate literature along with weekly small group lessons. This course meets the Visual and Performing Arts credit requirement for graduation.

Honors Wind Ensemble

Full Year: 5 Credits

Elective: Offered in Grades 10, 11, 12

Prerequisite: Placement Audition

Honors Wind Ensemble is a weighted course designed to challenge outstanding instrumental musicians to expand their musical knowledge and performing abilities beyond the class repertoire. Literature for this class will include selections at level 4-5 (NJMEA standard). Chamber groups will be created from the student population of the class. These ensembles will meet during the scheduled class time on a rotating basis. These small chamber ensembles will focus on chamber music along with small ensemble skills and will be guided by the high school music teaching staff. Students in the Wind Ensemble will be held accountable for a higher level of musicianship through more individualized performance. Additionally, students will be performing chamber ensemble music in various quartets and quintets. This course meets the Visual and Performing Arts credit requirement for graduation.

ORCHESTRAL STUDIES

Students must either own or rent their own instruments in order to participate in Orchestral Studies. Orchestral Studies comprise three separate courses offered to students who play stringed instruments: **Orchestra, Chamber Ensemble and Honors Chamber Ensemble**. Repertoire includes both contemporary and traditional works. Emphasis is placed on development of individual as well as ensemble playing skills. Students who play wind or percussion instruments may combine four credits of orchestral studies with a band class for one credit. Individual orchestral studies course descriptions follow:

Ninth Grade Orchestra

Full Year: 5 Credits

Offered in Grades 9

Prerequisite: Prior String Study; 8th Grade Orchestra

The Ninth Grade orchestra is designed to give ninth grade students the opportunity to perform standard orchestra literature, practice self-discipline, enhance intellectual abilities, and develop their music skills. Students will learn to play more maturely in the following concrete areas: rhythm, pitch, articulation, dynamics, phrasing, intonation and through use of a warm-up book to establish a "warm-up" routine. Students will learn to perform in abstract areas such as personal creativity and expression. They will develop self-awareness and learn how to self-evaluate through the warm-ups and the orchestra repertoire. Specific attention will be given to bowing, intonation, vibrato, music expression and technique. This course meets the Visual and Performing Arts credit requirement for graduation.

String Orchestra

Full Year – 5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Ninth Grade Orchestra

Orchestra is a performing musical organization for students who play violin, viola, cello and string bass. Repertoire, which includes both contemporary and traditional music, is a Level 3-4 (NJMEA standards). Students are encouraged to exercise self-discipline through practice, and to develop their musical skills in sight-reading, performance techniques, interpretations, and aesthetic understanding. They will develop self-awareness and learn how to self-evaluate through the warm-ups and the orchestra repertoire. This course meets the Visual and Performing Arts credit requirement for graduation.

Chamber Orchestra

Full Year – 5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Placement Audition

The Chamber Orchestra is a select performing musical organization for string students who wish to develop higher-level technical skills and advanced ensemble-playing skills. Repertoire includes musical selections at Level 4 or higher (NJMEA standard) in a variety of contemporary and traditional styles. They will develop self-awareness and learn how to self-evaluate through the warm-ups and the orchestra repertoire, along with weekly small group lessons. This course meets the Visual and Performing Arts credit requirement for graduation.

Honors Chamber Orchestra

Full Year – 5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Placement Audition

Honors Chamber Orchestra is a weighted course designed to challenge outstanding Chamber Orchestra musicians to expand their musical knowledge and performing abilities beyond the class repertoire, to include selections at level 5-6 (NJMEA standard). The small chamber ensembles will focus on chamber music and small ensemble skills. Some of the additional advantages of the honors program include holding you accountable to a higher level of musicianship. Additionally, you will be exposed to performing the repertoire of chamber music at the various community functions. This course meets the Visual and Performing Arts credit requirement for graduation.

VOCAL MUSIC**Ninth Grade Choir****Full Year - 5 Credits****Elective Offered in Grades 9**

This select choir is designed for incoming Freshman voices designed for singers who wish to progress in their vocal production abilities. Freshman students for who 9th Grade Choir does not fit in their schedule can opt for Concert Choir instead. Students will become familiar with the great musical literature composed exclusively for the Choral Repertoire, perform in the annual Winter and Spring Concerts, and will be eligible for membership in Concert and/or Chamber Choir as well as musical drama productions. This course meets the Visual and Performing Arts credit requirement for graduation.

Concert Choir

Full Year - 5 Credits

Elective, Offered in Grades 10, 11, 12

Prerequisite: Choir for Treble/Voices-Choir for Tenor Bass Voices

Concert Choir is open to experienced vocal musicians who wish to continue performance of advanced choral works which make up the repertoire for this group. Sight-singing skills are taught and reinforced. Concert Choir performs annual, winter and spring Concerts, and at a variety of other special events. This course meets the Visual and Performing Arts credit requirement for graduation. Concert Choir is considered a prerequisite for Honors Chamber

Choir. Students in grade 9 whose schedule could not be adjusted for the Ninth Grade Choir may also participate in the Concert Choir.

Honors Chamber Choir

Full Year - 5 Credits

Offered in Grades 10, 11, 12

Prerequisite: Placement Audition

Honors Chamber Choir is a weighted course designed to challenge more experienced choir musicians to expand their musical knowledge and performing abilities beyond the classroom repertoire, to include selections at level 5-6 (NJMEA standard). As part of the daily rehearsals, your teacher will guide you through the process of becoming competent music score readers and professional group and solo performers. Some of the additional advantages of the honors program include holding you accountable to a higher level of musicianship. Additionally, you will be exposed to performing the repertoire of chamber and other historical choir music. This course meets the Visual and Performing Arts credit requirement for graduation.

GENERAL MUSIC STUDIES

Piano Lab

Half Year – 2.5 Credits

Elective, Offered in Grades 9, 10, 11, 12

Piano lab is a semester course developed to give students an opportunity to study music through piano performance. Students with no formal training in music are eligible to take the course. The course will focus on developing basic technical facility on the keyboard instrument along with studies in the fundamentals of music performance and music theory. Students will be guided to learn how to interpret rhythms, to develop their ability to sight read music, and develop an understanding of basic accompanying skills. Throughout the course students will develop a higher level of technical facility on the instrument, and apply their knowledge of the piano/keyboard as a tool for composition/arranging and the development of ear-training and music theory skills. In addition, students will explore how the keyboard is used in music production. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

Music Theory

Full Year - 5 Credits

Elective, Offered in Grades 11, 12

Prerequisite: Piano Lab or high school performing ensemble

This is a course in theory leading into harmony. It includes the study of Western music and its commonly used terminology. It includes the study of music notation, as well as fundamental musical elements such as meter, intervals, keys, scales, and basic chords. During this course, you will also learn sight-singing or ear training, which is a way to develop your musicianship. This is a technical course for the serious music student, who is expected to possess a working knowledge of the piano keyboard, and have the ability to sing or play an instrument. This course meets the Visual and Performing Arts credit requirement for graduation.

Advanced Placement Music Theory

Full Year - 5 Credits

Elective, Offered in Grades 11-12

Prerequisite: Music Theory / Permission of the Instructor

Refer to page 26 of this booklet for specific criteria for enrollment in Advanced Placement courses.

This advanced music theory is intended for highly motivated students who are seriously interested in the study of music theory and composition, and wish to qualify for three college credits through the Advanced Placement Program of the College Board. The course includes college-level material dealing with formal structural analysis, original composition, and music notation. Strong emphasis is placed on listening skills, melodic perception, harmonic functions, and recognition of compositional techniques. Students are expected to perform a considerable amount of work independently, both in and outside of class. Piano keyboard skills are essential and computer skills are a plus. Students must be enrolled in a performing arts class in conjunction with this course. Students must have taken Music Theory before being considered for this class. This course meets the Visual and Performing Arts credit requirement for graduation.

Theatre Arts

Theatre Arts

Full Year - 5 Credits

Offered in Grades 9, 10, 11, 12

Elective

Theatre Arts is an introductory level acting course. It is grounded in the exploration, rehearsing and performing of the Monologue Audition as well as studying and engaging with the Elements of Theatre. Students will learn and practice a variety of Acting Techniques including Method Acting and Physical Theatre Training that will improve their auditioning skills. Students will be introduced to Directing, Stage Managing and Technical Theatre in a variety of small group performances. Students will study and practice a Beginner Level Improvisation, where they will focus on Offers and Accepts as well as Who, What and Where in simple scenes. They will learn the vocabulary of the theatre, character development, and scene analysis. Students will learn and apply the basics of playwriting through the vehicle of monologue writing. Students will also learn how to write a theatrical review. In the spring semester, students will study Acting for Camera and the essentials of short filmmaking. This course meets the Visual and Performing Arts credit requirement for graduation.

Master Scene Study and Performance:

Full Year – 5 Credits

Offered in grades 10, 11, 12

Elective and Multiple Year Course

Prerequisite: Theatre Arts or Teacher Recommendation/Audition.

Students will prepare and perform various monologues and scenes from a repertoire of contemporary and classical plays. Students will prepare to meet the auditioning demands of the entertainment industry and college BFA Theatre programs, by adding new selections to their auditioning portfolio, including: contemporary comedic, contemporary dramatic, classical comedic, classical dramatic and 16 bars of a musical theatre piece.

In a Master Scene Study course, students rehearse, stage, and perform scenes for the critique of the class and instructor, who will rely on a regular system of giving feedback. Scene Study deepens a students' understanding of the craft of acting. Students will be encouraged to make strong choices and immerse themselves in the Scene Study work without self-criticism or judgment. Students will be cast in scenes from various periods of theatre history, such as: Greek, Roman, Medieval, Commedia dell'arte, Elizabethan, Neoclassical, Realism and Modern. Students will be involved in group interpretation, scene interpretation, and preparing scenes for the STANJ festival. Students will be encouraged to audition for the Fall Play and the Spring Musical. Upon completion of Theatre Arts or by teacher recommendation, students may take Master Scene Study and Performance for multiple years. This course meets the Visual and Performing Arts credit requirement for graduation.

Honors Advanced Theatre

Full Year – 5 Credits

Offered in grades 11, 12

Elective and Multiple Year Course

Prerequisite: Master Scene Study and Performance, and Teacher Recommendation/Audition

Advanced Theatre is for students who have excelled in a lead or supporting role in either the fall play or the spring musical and who want to further explore the craft of acting in a creative, competitive and professional environment. Students who have excelled as performers and leaders in Master Scene Study and Performance, may also audition. Advanced Theatre is intended for the serious Theatre student who plans to pursue Theatre or Film in college or in the entertainment industry. It is a class for team players, leaders and positive thinkers.

Students will audition and be cast in a play that will compete at the NJ Thespian Festival in January. In the spring semester, students will learn the elements of acting in short films as they prepare to compete in the Ten Day Film Challenge. Students will prepare a 15-20-minute Shakespearean scene to compete at the Shakespeare festival in May. Students will maintain a portfolio of contrasting monologues as they prepare to audition for various BFA Theatre programs. This course meets the Visual and Performing Arts credit requirement for graduation. Upon completion of Master Scene Study and Performance, or by teacher recommendation, students may take Advanced Theatre for multiple years.

Dance

Elements of Dance

Full Year – 5 Credits

Offered in grades 9, 10, 11, 12

Elements of Dance is the foundational course of the WOHS Dance Program. Students of all levels and genres of experience are welcome to take this class and engage in dance beyond just learning steps. Each quarter students will study a new form of dance, as well as complete a Project Based Assessment in collaboration with their classmates. Students will learn about the four elements of dance (Body, Space, Effort, and Relationship) and be expected to create their own choreography that communicates their ideas. Over the course of the year students will gain an understanding on how to move safely, research about choreographers in the field, learn about the history of specific dance forms, and explore different cultural dances and their origins. Performing on stage is NOT part of this course.

This course qualifies students to earn points for the National Honor Society for Dance Arts.

This course also meets the Visual and Performing Arts Credit requirement for Graduation.

Dance Performance Skills

Full Year – 5 Credits

Offered in grades 10, 11, 12

Elective and Multiple Year Course

Prerequisite: Elements of Dance or Teacher Recommendation/Audition

Dance Performance Skills is the intermediate course in the WOHS Dance Program. Students move up from Elements of Dance to put their skills to the test by participating in the annual WOHS Dance Concert at the start of each new year. Performing in the Concert is a requirement for this level.

In the course, students can expect to be constantly creating choreography with their classmates that will be utilized for the concert. Students will be revisiting the different genres of dance they learned last year and build further on their knowledge with more advanced skills and vocabulary. Students will gain an understanding about Stage Production and the work that is involved in not only putting together a dance to perform, but also the stage elements that are necessary to bring the performance to life. Students may need to take Dance Performance Skills twice in order to gain the necessary technical and choreographic skills needed before moving into the Advanced Dance Class.

This course qualifies students to earn points for the National Honor Society for Dance Arts.

This course also meets the Visual and Performing Arts Credit requirement for Graduation.

Honors Advanced Dance

Full Year – 5 Credits

Elective: Offered in grades 11, 12

Prerequisite: Dance Performance Skills and Teacher Recommendation/Audition

In preparation to pursue dance in college and beyond, Advanced Dance students will develop a comprehensive portfolio. The portfolio will include the creation of original choreographic compositions, a performance resume, an artist statement, a dance photo, a dance lesson plan, and a health and wellness plan; all of which can be used for college auditions. All work will be presented in a culminating presentation that will be part of the annual dance concert.

Students will focus on challenging and expanding their current aesthetic viewpoint in dance. Through examining how their own experience has impacted what they value about dance. Students will be tasked to view dance in non-traditional forms and settings. Students will begin aligning themselves with artists and dance companies who they personally enjoy. Advanced Dance students will also be tasked to present new choreography each that express a particular point of view at the annual dance concert. Upon completion of Dance Performance Skills or by teacher recommendation, students may take Advanced Dance for multiple years and will receive honors credit. This course meets the Visual and Performing Arts credit requirement for graduation.

Physical and Health Education

Physical and Health Education at West Orange High School is an integral part of the total educational process which contributes to the development of the individual through the natural medium of physical activity-human movement. The program is a carefully planned sequence of learning experiences designed to fulfill the growth, development, and behavioral needs of all students. State law in each grade 9-12 requires classes in physical education/health. Students who are medically excused from Physical Education will complete specific grade level assignments that are based upon the period of time they are medically excused from participating in Physical Education. Medically excused students participate in an online classroom in order to fulfill the graduation credit requirements in Physical Education and Health.

Physical Education/Health 9

Full Year – 5 credits

Required - Grade 9

The primary goal of this comprehensive course is to help the student develop the fundamentals of all team sports, fitness activities and Project Adventure 1. The program is conducted in a structured manner and serves as a building block for a carefully planned sequence of learning experiences. These experiences are designed to fulfill the growth, development and behavioral needs of all students. One marking period of this course is designed to develop skills in problem solving, character development, interpersonal relationships, family management issues and wellness. Social health problems facing adolescents today (family abuse, sexually transmitted diseases, teen pregnancy, male and female reproductive systems and substance abuse) are some of the issues to be studied. This course meets the Health, Safety and Physical Education credit requirement for graduation.

Physical Education/Health 10

Full Year – 5 credits

Required - Grade 10

The primary goal of this comprehensive course is to help the student develop the fundamentals of all team and individual sports, fitness activities and Project Adventure 2. The program is conducted in a structured manner and serves as a building block for a carefully planned sequence of learning experiences. These experiences are designed to fulfill the growth, development and behavioral needs of all students. One marking period of this course includes Driver's Education. Driver Education Theory is a comprehensive, safety focused program that provides the student with the materials he/she will need in order to safely operate a motor vehicle. Emphasis is placed on responsibility and overall decision-making skills that apply to rules and regulations on the road. The driver education program consists of ten weeks of classroom theory culminating with the State Motor Vehicle examination. This course meets the Health, Safety and Physical Education credit requirement for graduation.

Physical Education/Health 11

Full Year – 5 credits

Required - Grade 11

The primary goal of this comprehensive course is to help the student develop the fundamentals of selected team and lifetime individual sports and lifetime fitness activities. The program is conducted in a structured manner and serves as a building block for a carefully planned sequence of learning experiences. These experiences are designed to fulfill the growth, development and behavioral needs of all students. One marking period of this course is designed to integrate sexuality education into the academic curriculum and present it from a psychological, anthropological, ethical as well as biological perspective. Insight from all these disciplines is incorporated for adolescents to understand their own sexuality and begin to develop sexual autonomy and responsibility. Emphasis is also placed on acquiring knowledge on alcohol, tobacco, opioids, and other drugs to make choices that support a healthy lifestyle. This course meets the Health, Safety and Physical Education credit requirement for graduation.

Physical Education/Health 12

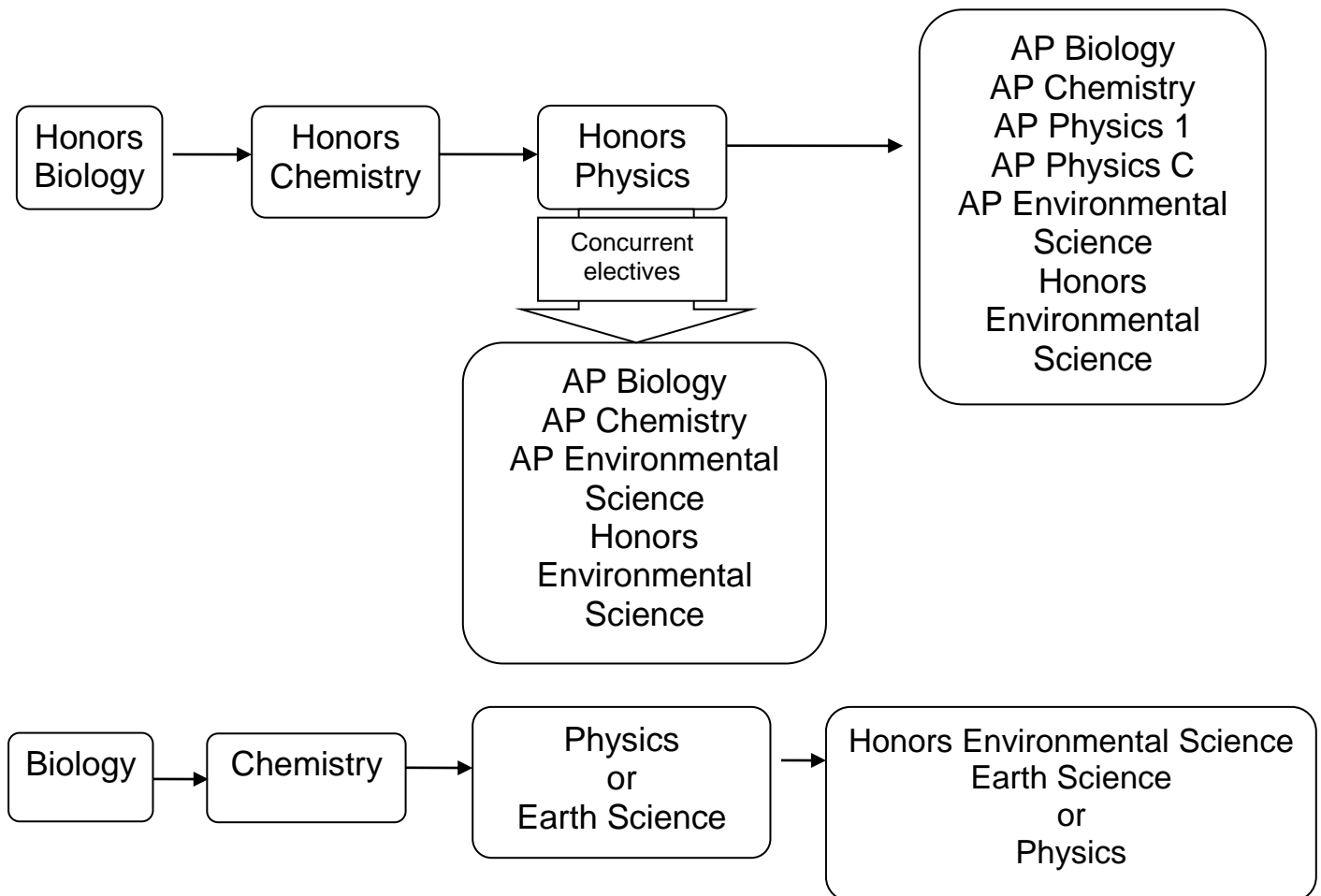
Full Year – 5 credits

Required - Grade 12

The primary goal of this comprehensive course is to help the student develop the fundamentals of all team and individual sports and fitness activities. The program is conducted in a structured manner and serves as a building block for a carefully planned sequence of learning experiences. These experiences are designed to fulfill the growth, development and behavioral needs of all students. Major emphasis is placed on acquiring an appreciation of, and a respect for, physical conditioning, and a sense of well-being. One marking period of this course is designed to teach the lifesaving skills of CPR and First Aid in which seniors can acquire Red Cross CPR Certification. This course meets the Health, Safety and Physical Education credit requirement for graduation.

Science

Course Sequence



Available electives in Science by Grade Level include:

Grade 9	Grade 10	Grade 11	Grade 12
Animal Behavior Voyage into Space	Dynamics of Health Care in Society Animal Behavior Voyage into Space	Dynamics of Health Care in Society Honors Anatomy & Physiology Forensic Science Fundamentals Health & Wellness Medical Terminology	Dynamics of Health Care in Society Honors Anatomy & Physiology Forensic Science Fundamentals Health & Wellness Medical Terminology

The mission of the Science Department is to produce students who can succeed in a global information economy fueled by advances and innovation in science, engineering, and technology, and laboratory application. Courses of study are aligned to the Next Generation Science Standards (NGSS). NGSS emphasizes scientific and engineering practices and crosscutting themes across the disciplines of life science, physical science, earth and space science, and engineering. Science instruction is driven by real world connections and uses an inquiry-based approach to foster curiosity and creativity.

Students will earn at least 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.

Biology

Full Year - 6 Credits

Offered in Grade 9

The Biology course is designed as a systems approach to the basic concepts of biology for college bound students. Common patterns of organization of all living things will be studied. Critical thinking skills will be stressed as students study the characteristics of living things, simple organisms, plants, animals, heredity and ecology. The course explores the world of living things and includes an extended lab in a rotating drop schedule. The curriculum is aligned with the test specifications for a state required end of course test. This course meets the Science credit requirement for graduation.

Honors Biology

Full Year - 6 Credits

Offered in Grade 9

Prerequisite: Recommendation of the 8th Grade Science Teacher and Approval of the Science Supervisor

The Honors Biology course will involve higher-level critical thinking skills, complex problem solving as well as a rigorous and sophisticated approach to the understanding and comprehension of the major concepts in biology. This course explores the world of living things at all levels of complexity. An extended lab, in a rotating drop schedule, supports the many diversified topics studied. Special projects as well as experimental and literary research are course requirements. The curriculum is aligned with the test specifications for a state required end of course test. This course meets the Science credit requirement for graduation.

Chemistry

Full Year - 6 Credits

Offered in Grade 10

Prerequisites: Honors Biology or Biology, Algebra 1

This course includes topics dealing with the nature of matter and energy, physical and chemical changes, atomic structure, elements, compounds and molecules. A "unit" plan for instruction and study of these topics helps develop student mastery. Math proficiency is required for problem solving. An extended lab in a rotating drop schedule offers a "hands-on" approach to the course topics. Students are encouraged to explore areas of experimental and research projects. This course meets the Science credit requirement for graduation.

Honors Chemistry

Full Year - 6 Credits

Offered in Grade 10, 11

Prerequisite: Honors Biology and Teacher Recommendation

Co-requisite: Honors Algebra 2

This fast-paced course is designed to encompass topics in depth that deal with the nature of matter and the nature of all aspects of chemical changes. Careful measurements, mathematical calculations and problem-solving skills are emphasized. An extended lab in a rotating drop schedule stresses lab skills and techniques. Literary and/or experimental student research is an essential component of this demanding course. This course meets the Science credit requirement for graduation.

Physics

Full Year - 6 Credits

Offered in Grades 11, 12

Prerequisites: Biology, Chemistry

Co-requisite: Algebra 2

This course approaches the study of physics from both an applied and conceptual point of view. Lectures and presentations cover traditional topics of physics from the areas of motion, work, power and energy, wave phenomenon and electricity. Whenever possible, historical and philosophical connections will be made to the topic at hand. An extended lab in a rotating drop schedule supports and enhances the topics studied. This course meets the Science credit requirement for graduation.

Honors Physics

Full Year – 6 credits

Offered in Grades 11, 12

Prerequisites: Honors Biology, Honors Chemistry, Honors Pre-Calculus

Co-requisite: Honors Pre-Calculus or Honors Geometry and Analysis

This course challenges the science-oriented student. Some of the topics in this rigorous study are mechanics, light, magnetism, electricity and wave motion. Current developments in the field are investigated and demonstrated. In lab periods, students discover and correlate evidence for the theories discussed. Strong mathematical proficiency is required for calculations of the physical phenomena studied. This course meets the Science credit requirements for graduation.

Honors Environmental Science

Full Year - 6 credits

Offered in Grades 11, 12

Prerequisites: Honors Biology, Honors Chemistry and Teacher Recommendation

This Honors level course is an interdisciplinary science. As such, it combines ideas and information from the natural sciences (biology, earth science, physical science) and social sciences such as economics, politics and ethics to present a modern view of how nature works and how humans interact with nature. The course uses basic scientific laws, principles, and concepts to understand environmental and resource problems and to consider and develop possible solutions to these problems.

Topics include Ecosystems; Air; Water and Soil Resources; Pollution and Recycling; Population; Land Use and Endangered Species. An extended lab in a rotating drop schedule is provided for exploration, enrichment and problem solving in topics developed in the course. This course meets the Science credit requirement for graduation.

Earth Science

Full Year - 5 Credits

Offered in Grades 11, 12

Prerequisite: Biology, Chemistry

The geology component focuses on the concept of an ever-changing earth. It concentrates on historical geology, structural geology, plate tectonics, paleontology, sedimentology, stratigraphy, mapping and the erosional processes that shape the earth's surface.

The astronomy component focuses on the nature and origin of the universe, our solar system, stars, planets, galaxies, and other interstellar objects. Topics such as the moon, the sun, information obtained through space probes and the history of space exploration are discussed. This course also focuses on stellar phenomena including black holes, pulsars, quasars, comets, and dark matter.

Meteorology examines the causes of atmospheric changes. Topics include: structure and composition of the atmosphere, wind, precipitation and humidity, severe storms and weather forecasting. Lab experiences include the analysis of weather data and monitoring of local weather conditions.

Oceanography explores the physical, chemical, biological and ecological nature of the world's oceans. The impact of civilization on the oceans is discussed. Careers in oceanography and exploration are discussed. This course meets the Science credit requirement for graduation.

Voyage into Space

Semester – 2.5 Credits

Offered in Grades 9, 10, 11, 12

The focus of the course is exploration of the vast expanse of space and how technology and engineering play a role in both the history and future of the industry and humans understanding of the potential possibilities. The course will examine the history of space exploration and the space race. Students will learn about the origins of the universe and distant stars, galaxies, and incorporate the origins of our solar system and planets. Students will learn about past, present, and future missions to planets in our solar system, as well as other systems in our galaxy. Students will evaluate and develop various technologies pertaining to space engineering and exploration. This course is designed for those students interested in potential careers in aerospace engineering, spacecraft engineering, astrophysics, rocket science, STEM Education, and computer programming. This course does not meet the Science credit requirement for graduation.

Forensic Science

Semester-2.5 credits

Offered in Grades 11, 12

Prerequisites: Biology, Chemistry

This course examines the application of a broad spectrum of sciences and technologies in order to investigate events that take place after the fact and to establish what occurred based on collected evidence. Students learn the science of ballistics, DNA banding, chemical signatures, post mortem biology and other techniques typically used to solve crimes. The course looks at actual case studies in law enforcement and problem solves from the data available using technologies in the biological, chemical and physical world. This course does not meet the Science credit requirement for graduation.

Animal Behavior

Semester – 2.5 Credits

Offered in Grades 9, 10, 11, 12

The focus of the course is the adaptive value of behavior and the way that it differs across species. The course will cover basic zoology of the Animal Kingdom, instinctive behavior, learned behavior, cognition and social behavior. Experimental organisms referenced in class will include marine invertebrates, insects, amphibians, birds and mammals. Students will analyze behavioral data and consider ethics when designing investigations. Animal Behavior will reinforce the NGSS life science concepts learned in biology. Students will be challenged to analyze data, create models, use evidence to support claims, and predict animal behavior. This course is an elective designed for those students interested in potential careers in veterinary medicine, animal training, psychology, conservation and wildlife management. This course does not meet the Science credit requirement for graduation.

Dynamics of Health Care in Society

Full Year – 5 Credits

Offered in Grade 10, 11, 12

Prerequisites: Biology, Chemistry and Teacher Recommendation

This course provides an orientation to health care services and their delivery. It presents an interdisciplinary perspective, focusing on process skills such as critical thinking, ethical reasoning, effective communication and ways to continue independent learning throughout life. The course shows how all health care providers acquire professional competence in dealing with the issues and problems they face as well as the role they play as informed consumers. Students enrolled in this course have the opportunity to earn college credit through Rutgers by applying to the program in the fall and successfully passing the Rutgers exam. There is a fee for the exam. This course does not meet the Science credit requirement for graduation, but does meet the 21st Century Life and Careers requirement for graduation.

Medical Terminology

Semester - 2.5 Credits

Offered in Grades 11, 12

Medical Terminology is the study of words that pertain to body systems, anatomy, physiology, medical processes and procedures and a variety of diseases. It provides specialized language for the health care team, enabling health care workers to communicate in an accurate, articulate and concise manner. This course is designed to give the students a comprehensive knowledge of word construction, definition and use of terms related to all areas of medical science. The course includes but is not limited to terms related to anatomy of the human body, functions of health and disease, and the use of language in processing medical/dental records and claim forms. Students enrolled in this course have the opportunity to earn college credit through Rutgers by successfully passing the Rutgers exam, as long as they have successfully passed the Dynamics of Health Care in Society (previously or concurrently). This course does not meet the Science credit requirement for graduation. This course meets the 21st Century Life and Career Skills credit requirement for graduation.

Fundamentals of Health and Wellness

Semester - 2.5 Credits

Offered in Grades 11, 12

This course provides a comprehensive overview of health and wellness. The impact of lifestyle choices on all aspects of personal health are discussed including physical, mental, emotional, social, and environmental. The course will explore topics related to nutrition, physical fitness, stress management, disease prevention, substance abuse, and healthy relationships. The information and skills necessary for making informed and healthful decisions to promote wellness will be discussed with an emphasis on self-responsibility. Students enrolled in this course have the opportunity to earn college credit through Rutgers by successfully passing the Rutgers exam, as long as they have successfully passed the Dynamics of Health Care in Society (previously or concurrently). This course does not meet the Science credit requirement for graduation. This course meets the 21st Century Life and Career Skills credit requirement for graduation.

Honors Anatomy and Physiology 1

Full Year – 6 Credits

Offered in Grade 11, 12

Prerequisites: Biology, Chemistry and Teacher Recommendation

Anatomy and Physiology is the study of the structure and function of the human body. This course follows a sequential development of the major body systems in an organized and structured curriculum. The course is designed to give the students a selective overview of human anatomical structure and an analysis of human physiological principles. An extended lab in a rotating drop schedule will include slide work, dissection of various animals and studies of the human skeleton. The course will also use computer simulated dissection. Students enrolled in this course have the opportunity to earn college credit through Rutgers by successfully passing the Rutgers exam, as long as they have successfully passed the Dynamics of Health Care in Society Rutgers exam (previously or concurrently). This course meets the Science credit requirement for graduation. This course meets the 21st Century Life and Career Skills credit requirement for graduation.

Advanced Placement Biology

Full Year - 10 Credits

Offered in Grades 11, 12

Prerequisites: Honors Biology, Honors Chemistry and Teacher Recommendation

Pre/Co-requisite: Honors Physics

This course is taught on the college level and is designed for students with a special interest in a rigorous biology course. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. The topics covered are molecules and cells, genetics and evolution and organisms and populations. Laboratory exercises stress the importance of student's ability to understand problems, develop and implement a plan, manipulate data, draw conclusions, think analytically and develop hypothesis. In the mandatory labs, students are challenged by these aspects in the context of some of the more important concepts in biology such as genetics, metabolism, physiology, evolution, and ecology. It is expected that students enrolled in the course will take the Advanced Placement examination. This course meets the Science credit requirement for graduation.

Advanced Placement Chemistry

Full Year - 10 Credits

Offered in Grades 11, 12

Prerequisites: Honors Biology, Honors Chemistry and Teacher Recommendation

Pre/Co-requisites: Honors Physics; Honors Pre-Calculus

This course follows the advanced placement syllabus in chemistry and is designed primarily for students planning a career in the sciences (e.g. engineering, medical, technical in physical or chemical science). The course concentrates on major concepts in chemistry, such as equilibria, chemical analysis, reaction rates. Lab activities are designed to enhance the content area studies and to promote further experiments, studies, or independent projects. Students practice the mastery of laboratory science skills and knowledge acquisition. It is expected that students enrolled in the course will take the Advanced Placement examination. This course meets the Science credit requirement for graduation.

Advanced Placement Environmental Science

Full Year - 10 credits

Offered in Grades 11, 12

Prerequisites: Honors Biology, Honors Chemistry

Pre/Co-requisite: Honors Physics

This course is designed to be the equivalent of a one-year introductory college course. The course follows the outline and guidelines for laboratory and field activities as developed by the College Board Advanced Placement Program. The course is challenging and interdisciplinary. It combines ideas and information from the biological, earth, and physical sciences in examining the social and economic pressures which affect the world we live in. The course examines the natural world and the human impact upon it. It is expected that students enrolled in the course will take the Advanced Placement examination. This course meets the Science credit requirement for graduation.

AP Physics 1: Algebra-Based

Full Year – 6 credits

Offered in Grades 11, 12

Prerequisites: Honors Biology, Honors Chemistry, and Honors Chemistry teacher and Science supervisor recommendation

Pre-requisite: Honors Geometry and Analysis

Co-requisites: One of the following

- AP Calculus AB
- AP Calculus BC
- Honors Pre-Calculus

This algebra-based course provides the opportunity to participate in the equivalent of a first semester college course in physics and earn Advanced Placement college credit. Students will develop deep understanding of the content and focus on applying their knowledge through inquiry-based labs. Throughout the course there is a strong emphasis on students constructing their own knowledge through the process of observation, pattern recognition, prediction, and testing. Students will study Newtonian mechanics (including rotational dynamics and angular momentum), work, energy, and power, mechanical waves and sound, and an introduction to electrical circuits. Instruction in electricity and magnetism will occur post AP exam. This course is recommended for students interested in the biological sciences, medicine, business, or liberal arts. Students are expected to take the AP Physics 1: Algebra-Based Examination administered by College Board. This course meets the Science credit requirement for graduation.

Advanced Placement Physics C: Mechanics and Electricity and Magnetism

Full Year – 10 Credits

Offered in Grade 12

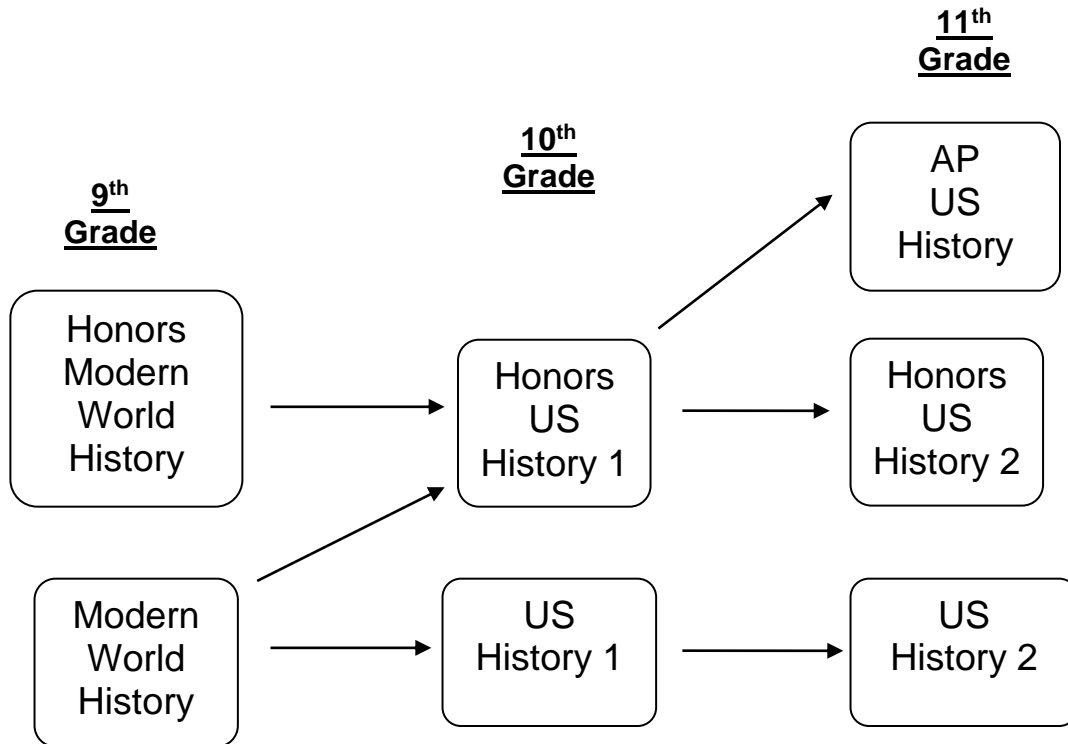
Prerequisites: Honors Biology, Honors Chemistry, Honors Physics and Teacher Recommendation

Co-requisite: Advanced Placement Calculus

This is a college level course designed for students planning to major in the physical sciences or engineering. Strong emphasis is placed on solving a variety of challenging problems. There is emphasis on analytical reasoning and higher-level mathematical skills. In addition, the laboratory work encourages the development of important skills such as detailed observation, accurate recording, experimental design, manual manipulation, data interpretation, statistical analysis, and operation of technical equipment. It is expected that students enrolled in the course will take the Advanced Placement examinations. This course meets the Science credit requirements for graduation.

Social Studies

Course Sequence



Available electives in Social Studies by grade level include:

Grade 9	Grade 10	Grade 11	Grade 12
The Law: Rights and Responsibilities	The Law: Rights and Responsibilities	The Individual in Society History of Race, Class, Gender and Ethnicity Money, Markets and the Economy Modern America Through the Media Power and Politics in America AP Psychology	The Individual in Society History of Race, Class, Gender and Ethnicity Money, Markets and the Economy Modern America Through the Media Power and Politics in America AP Government & Politics AP Psychology AP World History: Modern Honors Introduction to Philosophy AP African American Studies

The curriculum in social studies is designed to provide a coordinated and well-articulated K-12 program. At the senior high school, a well-balanced program has been designed to provide students with a varied and exciting experience in the study of the social sciences. The World History, United States History 1 and United States History 2 courses are required for all students. In addition, there are opportunities in grades 9 through 12 for selecting courses from among a variety of electives. Courses have been designed to promote an awareness of the historical, political, social and economic development of human achievement, beliefs, cultures and experiences so that students can become informed and concerned citizens. The social studies courses required to meet state graduation standards include the state mandated core course proficiencies. In addition, the Social Studies Department at West Orange High School offers opportunities for students to become part of two special programs.

Modern World History

Full Year - 5 Credits

Offered in Grade 9

Course Required for Graduation – Grade 9

The purpose of this course is to present the study of a body of information as well as a process through which an understanding of human experience is developed. The course begins with a study of the Age of Revolutions and concludes with an analysis of Modern World History in each of the following areas: Africa, Latin America, Asia, Europe and Russia, and the Middle East. The course has three major goals: to help students gain insights into the relationships among people, ideas, and events as they learn and use significant facts of World History; to help students sharpen Social Studies skills; and to help students develop an appreciation of history and its study. The course culminates in an examination and analysis of the contemporary world, stressing the need for a new system of world relationships. Multilingual Learners sections of World History are offered. This course meets the Social Studies credit requirement for graduation.

Honors Modern World History

Full Year - 5 Credits

Offered in Grade 9

Prerequisite: Teacher Recommendation

This is an honors level course in World History that meets the state requirement for one year of World History. The honors level course helps students to gain insights into the relationships among people, ideas and events as they study significant events in World History. The course begins with a study of the Age of Revolutions and concludes with an analysis of Modern World History in each of the following areas: Africa, Latin America, Asia, Europe and Russia and the Middle East. This course is devised to improve student skills in reading and evaluating primary source documents, writing evaluative research papers, and developing an appreciation of history and its study. This course meets the Social Studies credit requirement for graduation.

United States History 1

Full Year - 5 Credits

Offered in Grade 10

Course Required for Graduation – Grade 10

Prerequisite: Modern World History

United States History 1 is a full year course. It is the first half of the two-year sequential program of United States History. The course begins with a study of Colonial America and concludes with the Industrial Revolution and the development of our national goals at the onset of the 20th century. Students will investigate the decisions which were made and policies established during early history of the United States. A LEP section of the United States History 1, for students with limited English proficiency, is offered. This course meets the Social Studies credit requirement for graduation.

Honors United States History 1

Full Year - 5 Credits

Offered in Grade 10

Prerequisite: Modern World History

The honors program is rigorous. Placement within the program is dependent upon the students past performance and teacher recommendation. This is the first year of a two-year sequential course taken in the sophomore and junior years. Honors I is a prerequisite for Advanced Placement U.S. History to be taken in the Junior Year.

This course provides a brief overview of European discovery of the Americas, colonization, and the American Revolution. Students will be led through an in-depth investigation of the development of the U.S. Constitution in the late 18th century through the emergence of modern America. This course is designed to improve student skills in reading and evaluating primary source documents, and writing evaluative research papers. This course meets the Social Studies credit requirement for graduation.

United States History 2

Full Year - 5 Credits

Offered in Grade 11

Course Required for Graduation – Grade 11

Prerequisite: United States History 1

This course is the second year of the United States History program that builds upon the concepts and information discussed in United States History 1. The course begins with the study of United States society at the turn of the 20th century and continues through the investigation of our contemporary society. The various economic, social, political, environmental, and global issues that our nation has faced over the past 100 years will be analyzed and evaluated. A LEP section of the United States History 2, for students with limited English proficiency, is offered. This course meets the Social Studies credit requirement for graduation.

Honors United States History 2

Full Year - 5 Credits

Offered in Grade 11

Prerequisite: Honors United States History 1

This is the second year of a two-year sequential course sequence. The honors program is rigorous. Placement within the program is dependent upon the student's past performance and teacher recommendation.

This course covers the emergence of the U.S. as a world power at the beginning of the 20th century, and continues through the development of contemporary America. This course continues to enhance students' ability to read and write critically, evaluate primary source documents and write evaluative research papers. This course meets the Social Studies credit requirement for graduation.

Social Studies Department Electives

The Law: Rights and Responsibilities

Full Year – 5 credits

Offered in Grades 9, 10

This full year course focuses on the complexities of the American Legal System and the role of the citizen in that system. Emphasis is placed on the relationship of civil and constitutional law to the lives of the citizenry. The historical development of the American legal system is explored and the role of precedent and landmark Supreme Court decisions are studied. After completing a general overview of the concept of law and authority, students will be encouraged to analyze case studies and research judicial interpretations within the areas of constitutional, civil and criminal law. A unit of study concerning the Corrections System completes the course of study. This course is not credited toward the social studies requirement for graduation.

The Individual in Society

Full Year - 5 Credits

Offered in Grades 11, 12

This course will enhance students' knowledge in the area of sociology, social psychology and human behavior. The course will help students appreciate that the self is a product of genetics, biology and the environment. The course will also investigate the individual as part of a group and group behavior. Topics to be covered include human behavior, human development, identity and the self, adolescent development, socialization, and social institutions. This course is not credited toward the social studies requirement for graduation.

The History of Race, Class, Gender, and Ethnicity

Full Year - 5 Credits

Offered in Grades 11, 12

This course seeks to explain the meaning of race, class, gender, and ethnicity in American history. The course will also help students gain a better understanding of the role of diverse groups throughout American history. This course not only teaches students to value the contributions of a multiplicity of groups, but aims to teach students an understanding of complex social relationships - how the United States political, economic and social systems have treated various groups throughout history and how these groups have in turn, influenced these systems. Most importantly, this course will teach students to understand a history and society that is not presently nor has it ever been homogeneous. Students who take this course will develop an understanding and appreciation of American cultural pluralism. This course is not credited toward the social studies requirement for graduation.

Money, Markets, and the Economy

Semester - 2.5 Credits

Offered in Grades 11, 12

This course is designed to help students develop the knowledge and understanding of economics necessary to analyze any economic system in the world and to further understand how basic economic concepts affect decisions made by consumers, producers and governments in a rapidly changing world. The course concentrates on three major topics; the making of economic decisions, macroeconomics, and contemporary economic problems of the world. This course is not credited toward the social studies requirement for graduation. This class fulfills the Financial Literacy requirement for high school graduation.

Modern America through the Media

Semester - 2.5 Credits

Offered in Grades 11, 12

This course offers students the opportunity to examine the development of the uniquely American character through various media, including Hollywood and independent film, popular music, television and comic books. The course explores American history beginning with the 1890's and early 20th century and ending with the most recent 21st century advances in American media culture. Emphasis is placed upon how media forms have both impacted and reflected the development of the American society. This course is not credited toward the social studies requirement for graduation.

Honors Introduction to Philosophy

Full Year - 5 Credits

Offered in Grade 12

Prerequisite: Teacher Recommendation

Students examine the writings of selected philosophers and analyze their ideas of, and applications to, certain political structures. Relationships are drawn between the philosophies of people such as Socrates, Plato, and Descartes and the emergence of modern ideas and institutions. This course is not credited toward the social studies requirement for graduation.

Power and Politics in America

Semester - 2.5 Credits

Offered in Grades 11, 12

This course focuses on political behavior in contemporary American society, with particular reference to the organization and function of local, state and federal government. This course is designed to provide a thorough understanding of current political trends, how the economy and culture of a nation affects politics, the importance of the leadership of a nation and citizenship participation that will continue throughout students' lives. This course is not credited toward the social studies requirement for graduation.

The Advanced Placement Program in Social Studies

The Advanced Placement in Social Studies is designed to provide students with the skills and knowledge necessary to deal analytically and critically with the study of Social Science. The program prepares students for intermediate and advanced college courses. Students should learn to assess social science materials--their relevance to a given interpretive problem, their reliability, and their importance--and to weigh the evidence and interpretations presented in social science scholarship. The Advanced Placement program develops the skills necessary to arrive at conclusions on the basis of informed judgments and the skills needed to present reasons and evidence clearly and persuasively in essay format.

Advanced Placement United States History

Full Year - 5 Credits

Offered in Grade 11

Prerequisites: Honors United History 1 (Advanced Placement United States History may be taken to replace Honors United States History 2).

Advanced Placement United States History is a full year course. It meets the New Jersey State Graduation requirements for Social Studies. It is the second year of a two year program of study designed to afford students the opportunity to critically assess and evaluate aspects of American History. The course of study prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. The course of study begins with the Gilded Age and the emergence of the United States as a world power at the end of the nineteenth century and continues through the development of contemporary America. The course also reviews the colonial period through Reconstruction to aid students who take the Advanced Placement United States History Examination administered by the Educational Testing Service. Students are expected to take the Advanced Placement Examination in May. This course meets the Social Studies credit requirement for graduation.

Advanced Placement Government and Politics

Full Year - 5 Credits

Offered in grade 12

Prerequisite: Student will have completed an Honors and/or A.P. level United States History course.

This course is designed to give students an analytical perspective on government and politics in the United States. It will prepare students for intermediate and advanced college courses in political science and government by making demands on them equivalent to those made by a full year introductory college course. The course will include an in-depth evaluation of the United States Constitution, political parties, political behavior, the Presidency, federal bureaucracy, Congress, the judicial system, and civil rights and civil liberties. Students are expected to take the Advanced Placement Examination in May. This course is not credited toward the social studies requirement for graduation.

Advanced Placement Psychology

Full Year – 5 Credits

Offered in Grades 11, 12

Prerequisite: Students will have completed an Honors and/or A.P. level social studies course.

Advanced Placement Psychology is a one-year course. The purpose of the AP Psychology is to introduce the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and methods psychologists use in their science and practice. Students are expected to take the Advanced Placement Examination in May. This course is not credited toward the social studies requirement for graduation.

Advanced Placement World History: Modern

Full Year - 5 credits

Offered in Grade 12

Prerequisite: Advanced Placement United States History OR United States History II Honors.

Advanced Placement World History is a full year course. The course of study prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Through a non-Western Focus, the course of study begins with the significant events, peoples, developments and processes from 1200 C.E. and continues this study to the modern day. Using six themes designated by the College Board, students explore world history in order to make connections between times, peoples and places. Students are expected to take the Advanced Placement Examination in May. This course meets the Social Studies credit requirement for graduation.

Advanced Placement African American Studies

Full Year - 5 Credits

Offered in Grade 12

Prerequisite: United States History 1 and United States History 2. Students enrolled in AP US History or Honors US History 2 must have an 80% course average and a teacher recommendation. Students enrolled in CP US History 2 must have a 90% course average and a teacher recommendation.

AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with authentic and varied sources. Students explore key topics that extend from early African kingdoms to the ongoing challenges and achievements of the contemporary movement. Given the interdisciplinary character of African American studies, students in the course will develop skills across multiple fields, with an emphasis on developing historical, literary, visual, and data analysis skills. The course foregrounds a study of the diversity of Black communities in the United States within the broader context of Africa and the African Diaspora. Students are expected to take the Advanced Placement Examination in May. The course does not meet the Social Studies credit requirement for graduation.

Special Services

The Department of Special Education at West Orange High School is committed to providing all students, regardless of ability level, an appropriate and meaningful secondary education.

Students are offered a continuum of placement options, ranging from accommodations/modifications to the general education program, in-class-support instruction, resource replacement, departmentalized and self-contained programs in special education.

All programs offered through the department are highly individualized and delivered in a manner consistent with the Individualized Educational Program (IEP) developed for each student. The instruction provided in Special Education programs is aligned with the New Jersey Student Learning Standards (NJSLS), and with the approved general education curriculum.

English 9

Full Year – 5 Credits
Offered in Grade 9

This Course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

West Orange recognizes that English 9 represents a transition for students exiting the middle school. The rigors of senior high school language objectives are tempered by consideration of the social, emotional, and cultural experience that each student brings to high school. Each student will read selected short stories, novels, essays, poems and plays; will compose a variety of written expressions that consider their unique attributes; and will benefit from the infusion of grammar, speech-writing, viewing, listening and reading skills. Students will demonstrate culminating proficiencies by completion of a research project and departmental midterm and final examinations. Additionally, each student will be encouraged to expand his/her personal reading through summer reading assignments. Pupils will practice standardized test-taking skills with weekly objective evaluations. This course meets the English credit requirement for graduation.

English 10

Full-Year – 5 Credits
Offered in Grade 10

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

Students in English 10 classes will continue to develop and attain a higher degree of proficiency in the language arts program of studies. The course is designed to introduce students to the systematic study of literature by genre and to develop their skills in reading, writing, listening, viewing and speaking. Students will read selected short stories, novels, essays, poems, and plays; will compose a variety of written expression; will study grammar, usage and mechanics; and will practice verbal skills in relation to composition and literature. Students will demonstrate proficiency in research skills by completing a research project. The students will enhance and practice PARCC and PSAT/SAT test-taking skills. Weekly evaluations will be required. This course is offered at two levels; one at the college preparatory level and the other at the remedial level. This course meets the English credit requirement for graduation.

American Literature

Full Year – 5 Credits
Offered in Grade 11

This course provides appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

This course is designed to examine in detail the development of American literature from its beginnings to the present. Major recurrent themes and, where appropriate, the relationship between literature and social and political history, are considered. An anthology is utilized for studying literary chronology, but primarily the course includes examination of works by such writers as: Jonathan Edwards, Anne Bradstreet, Benjamin Franklin, Emily Dickinson, Edgar Allan Poe, Mark Twain, James Baldwin, Alice Walker, F. Scott Fitzgerald, Ernest Hemingway, Arthur Miller, Eugene O'Neill and Langston Hughes. Throughout the course, emphasis is also placed on fostering mature comprehension in reading by considering the ways in which literary form and linguistic style work with "pure content" to convey meaning and feeling; and by studying various composition techniques. Practice experiences in the strands of viewing, listening and

writing are conducted to enhance students' critical thinking skills in those areas. Students will practice PARCC and PSAT/SAT test-taking skills. Weekly evaluations will be completed. This course is offered at two levels; one at the college preparatory level and the other at the remedial level. This course meets the English credit requirement for graduation.

British and World Literature

Full Year – 5 Credits

Offered in Grade 12

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

The first semester of this course emphasizes the development of English literature in the Anglo-Saxon, Middle English, Elizabethan, and seventeenth century periods. Beowulf receives primary attention in the Anglo-Saxon period, the works of Chaucer in the Middle English, Shakespeare in the Elizabethan, and Milton in the Seventeenth Century. The second semester of this course emphasizes the development of English literature from the eighteenth century through the twentieth. The eighteenth century includes writers such as Pope, Swift, Johnson and Boswell; the Romantic period, such writers as Wordsworth, Coleridge and Keats; the Victorian period, such writers as Tennyson, Browning, Conrad and Dickens; and the twentieth century, such writers as Yeats, Eliot and Joyce. Students study representative selections with concentrated attention on critical reading and interpretation and analytical writing, listening, speaking and viewing based on the literature. This course meets the English credit requirement for graduation.

Reading Workshop

Full Year – 5 Credits

Offered in Grades 9, 10, 11, 12

The objective of the course is for students to develop instructional skills and strategies to become competent readers. Students are provided explicit and systematic instruction in phonics and phonemic awareness, fluency, and vocabulary development. The understanding of meaning is central to all reading instruction. As such, particular emphasis will be placed on the development of comprehension skills. Additionally, the course will expose students to the language-arts literacy concepts needed to prepare for statewide assessment (PARCC), college entrance exams (SAT), and other educational/vocational assessments. This course does not meet the English credit requirement for graduation.

Math 9, 10, 11, 12

Full Year – 5 Credits

Offered in Grades 9, 10, 11 or 12

This course will follow a curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

This course sequence offers continued and intensive coverage and review of basic arithmetic applications and problem-solving strategies. Content areas include numerical operations, patterns and functions, measurement, geometry, graphs, data analysis, and concepts of pre-algebra. Participation in this course provides continual preparation for the High School Proficiency Assessment. This course will follow a curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives. This course meets the Mathematics credit requirement for graduation.

English 9, 10, 11, 12

Full Year – 5 Credits

Offered in Grades 9, 10, 11 or 12

This course will follow a curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

Students in English classes will expand their knowledge and application of language arts and literacy objectives. Each student will read or participate in reading activities related to selected short stories, novels, essays, poems and plays. Reading selections will be individualized and based upon student's level of functioning. Focus will be on vocabulary development, reading fluency, and functional vocabulary. Written expression will include enhancement of language mechanics, such as grammar, spelling, and usage, with emphasis on student IEP goals and objectives. Assessment is

ongoing based upon class work, teacher observation, tests and quizzes. Each student will complete a final class project. This course meets the English credit requirement for graduation.

Algebra 1

Full Year – 5 credits

Offered in Grade 9

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

Modeling and problem solving are the heart of the curriculum at the Algebra I level. Mathematical modeling consists of recognizing and clarifying mathematical structures that are embedded in other contexts, formulating a problem in mathematical terms, using mathematical strategies to reach a solution and interpreting the solution in the context of the original problem. Students must be able to solve practical problems, representing and analyzing the situation using symbols, graphs, tables or diagrams. They must effectively distinguish relevant from irrelevant information, identify missing information, acquire needed information and decide whether an exact or approximate answer is called for, with attention paid to the appropriate level of precision. After solving a problem and interpreting the solution in terms of the context of the problem, they must check the reasonableness of the results and devise independent ways of verifying the results. Topics include: Operations on Numbers and Expressions, Linear Relationships, Non-Linear Relationships, Data, Statistics, and Probability. Graphing calculators are used extensively throughout the course. This course will follow a curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives. This course meets the Mathematics credit requirement for graduation.

Algebra 2

Full Year – 5 credits

Offered in Grade 10

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

This course provides a more advanced study of algebra. A major objective is the classification of types of equations and the development of proficiency in solving and applying equations. Topics include structure of number systems, polynomials and factoring, rational expressions, inequalities, relations, functions and graphing, exponents, radicals, quadratics, complex numbers and logarithms. Additional topics may include sequences and series, matrices and determinants, permutations and combinations, and binomial expansion. Graphing calculators are used extensively to enhance concepts and applications. This course will follow a curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives. This course meets the Mathematics credit requirement for graduation.

Geometry & Analysis

Full Year – 5 credits

Offered in Grade 11

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

This is a standard geometry course with emphasis on concepts, reasoning, and numerical applications using algebraic skills. Spatial sense is a key goal of the course. Major topics include congruency, similarity, polygons, parallel lines, area, the Pythagorean Theorem, circles, and transformations. Coordinate geometry, constructions, and solid geometry are integrated throughout the course. The course is designed to demonstrate the application and significance of geometry. Manipulatives and The Geometers' Sketchpad are used to enhance student understanding and learning. This course will follow a curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives. This course meets the Mathematics credit requirement for graduation.

College Math

Full Year- 5 Credits

Offered in Grades 11 and 12

Prerequisites: Geometry and Analysis

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

This course is designed to offer non-physical science students a practical approach that connects mathematics to the world around them. This course will better prepare students to be successful in a higher level algebra based high school and college math courses. The course will re-emphasize and ensure understanding of the basic concepts of algebra, geometry, principles of personal financial management, and the elementary principles of gathering, analyzing, and representing data. This course meets the Mathematics credit requirement for graduation.

Science

Full Year – 5 Credits

Offered in Grade 9-12

This course will follow a curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

Instructional modules of this course include health & wellness, nutrition, first aid & safety, hygiene, and a general study of biological systems. Emphasis is placed upon how we interact with space and environmental systems. This course meets the Science credit requirement for graduation.

Biology

Full Year – 5 Credits

Offered in Grade 9

This course will follow the general education curriculum with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

The Biology course is designed as a systems approach to the basic concepts of biology for college bound students. Common patterns of organization of all living things will be studied. Critical thinking skills will be stressed as students study the characteristics of living things, simple organisms, plants, animals, heredity and ecology. The course explores the world of living things and includes an extended lab in a rotating drop schedule. The curriculum is aligned with the test specifications for a state required end of course test. This course meets the Science credit requirement for graduation.

Chemistry

Full Year – 5 Credits

Offered in Grade 10

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

This course includes topics dealing with the nature of matter and energy, physical and chemical changes, atomic structure, elements, compounds and molecules. A "unit" plan for instruction and study of these topics helps develop student mastery. Math proficiency is required for problem solving. An extended lab in a rotating drop schedule offers a "hands-on" approach to the course topics. Students are encouraged to explore areas of experimental and research projects. This course meets the Science credit requirement for graduation.

Earth Science

Full Year – 5 Credits

Offered in Grades 10, 11

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

The geology component focuses on the concept of an ever-changing earth. It concentrates on historical geology, structural geology, plate tectonics, paleontology, sedimentology, stratigraphy, mapping and the erosional processes that shape the earth's surface.

The astronomy component focuses on the nature and origin of the universe, our solar system, stars, planets, galaxies, and other interstellar objects. Topics such as the moon, the sun, information obtained through space probes and the history of space exploration are discussed. This course also focuses on stellar phenomena including black holes, pulsars, quasars, comets, and dark matter.

Meteorology examines the causes of atmospheric changes. Topics include: structure and composition of the atmosphere, wind, precipitation and humidity, severe storms and weather forecasting. Lab experiences include the analysis of weather data and monitoring of local weather conditions.

Oceanography explores the physical, chemical, biological and ecological nature of the world's oceans. The impact of civilization on the oceans is discussed. Careers in oceanography and exploration are discussed. This course meets the Science credit requirement for graduation.

Physics

Full Year – 5 Credits

Offered in Grades 11, 12

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

This course approaches the study of physics from both an applied and conceptual point of view. Lectures and presentations cover traditional topics of physics from the areas of motion, work, power and energy, wave phenomenon and electricity. Whenever possible, historical and philosophical connections will be made to the topic at hand. An extended lab in a rotating drop schedule supports and enhances the topics studied. This course meets the Science credit requirement for graduation.

Modern World History

Full Year – 5 Credits

Offered in Grade 9

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

The purpose of this course is to present the study of a body of information as well as a process through which an understanding of human experience is developed. The course begins with a study of the Age of Revolutions and concludes with an analysis of Modern World History in each of the following areas: Africa, Latin America, Asia, Europe and Russia, and the Middle East. The course has three major goals: to help students gain insights into the relationships among people, ideas, and events as they learn and use significant facts of World History; to help students sharpen Social Studies skills; and to help students develop an appreciation of history and its study. The course culminates in an examination and analysis of the contemporary world, stressing the need for a new system of world relationships. LEP (Limited English Proficiency) sections of World History are offered. This course meets the Social Studies credit requirement for graduation.

United States History 1

Full Year – 5 Credits

Offered in Grades 10, 11

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

United States History 1 is a full year course. It is the first half of the two-year sequential program of United States History. The course begins with a study of Colonial America and concludes with the Industrial Revolution and the development of our national goals at the onset of the 20th century. Students will investigate the decisions which were

made and policies established during the first one hundred years of the history of the United States. A LEP section of the United States History 1, for students with limited English proficiency, is offered. This course meets the Social Studies credit requirement for graduation.

United States History 2

Full Year – 5 Credits

Offered in Grades 11, 12

This course will follow the general education curriculum, with appropriate modifications to pace, complexity, and assessment, as determined by the student's needs and IEP goals and objectives.

This course is the second year of the United States History program that builds upon the concepts and information discussed in United States History 1. The course begins with the study of United States Industrialization at the turn of the 20th century and continues through the investigation of our contemporary society. The various economic, social, political, environmental, and global issues that our nation has faced over the past 100 years will be analyzed and evaluated. A LEP section of the United States History 2, for students with limited English proficiency, is offered. This course meets the Social Studies credit requirement for graduation.

Concepts of Technology and Engineering A

Semester – 2.5 Credits

Elective: Offered in grades 9, 10, 11, 12

Prerequisite: None

Concepts of Technology and Engineering A fosters student understanding of STEM with a focus on the core areas of technology and engineering. Through differentiated instruction strategies students are taught topics such as the design process, simple machines, photography, flight and 3D prototyping. These main concepts are taught with individualized adaptations to fulfill the needs of varying student abilities. Instruction will be provided in an authentic environment that promotes peer socialization, teamwork, and cooperation through hands on learning within the scope of real-world scenarios. Projects include: designing and building a structure, creating a GLOG of an invention, roller coasters, flight, and designing an object to be printed in 3D through Tinkercad.

Concepts of Technology and Engineering B

Semester – 2.5 Credits

Elective: Offered in grades 9, 10, 11, 12

Prerequisite: Concepts of Technology and Engineering A

Concepts of Technology and Engineering B will build upon the student understanding of content taught in the Concepts of Technology and Engineering A course by presenting a deep level of student understanding of STEM content with the continuing focus on the core areas of technology and engineering. Through differentiated instruction strategies students are taught topics such as forms of energy, simple electrical circuits, basics of woodworking, and career skills. These main concepts are taught with individualized adaptations to fulfill the needs of varying student abilities. Instruction will be provided in an authentic environment that promotes peer socialization, teamwork, and cooperation through hands on learning within the scope of real-world scenarios. Projects include: circuits, designing and building a wooden storage container, and LEDs. This course must be taken within one year of completion of the Concepts of Technology and Engineering A course.

General Music

Half Year – 2.5 Credits

Elective, Offered in Grades 9, 10, 11, 12

Prerequisite: None

General Music is a semester course developed to give students an opportunity to study basic fundamentals of music through piano performance. Students with no formal training in music will be exposed to the many benefits music provides. The course will focus on developing basic technical facility on the keyboard instrument along with studies in the fundamentals of music performance and music theory. Because of the independent nature of the piano lab, this music class promotes independent learning where students can progress at their own pace. This course will provide students an opportunity to aesthetically experience music while they are allowed to independently learn music fundamentals and explore music performance.

Some examples of the benefits music has to offer include: development of brain areas involved in language and reasoning, creating causal links between music and spatial intelligence, enhancement of teamwork skills and discipline

and providing a means of self-expression. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

General Art

Semester – 2.5 Credits

Offered in Grades 9, 10, 11, 12

General Art is a single semester course whose goal is to foster a general appreciation of art and aesthetics. Students will explore basic studio art and will examine the impact of line, tone, color, space, texture, and form through a variety of artistic mediums. Instruction will be provided in an authentic environment that promotes peer socialization, teamwork, and cooperation. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

Art and Creativity

Full Year – 5 credits

Offered in Grades 9, 10, 11, 12

Art & Creativity uses creative play and structured art activities to strengthen and develop imagination. Students will build sensory awareness, communication, and fine motor skills, while exploring the elements of art to communicate their ideas through art. A unit of this course will be dedicated to the fundamentals of photography which includes a special photography display. Students will develop and market a t-shirt design for an annual school fundraising event. This course is credited toward the Visual and Performing Arts credit requirement for graduation.

Life Skills

Semester – 2.5 Credits

Offered in Grades 9, 10, 11, 12

Life Skills is a single semester course whose goal of the course is for students to demonstrate the ability to prepare convenience foods and basic recipes with confidence and success. Selected topics include: safety and sanitation, reading, comprehension and preparation of a recipe, measuring various ingredients, knowledge of basic kitchen equipment, meal planning, hygiene and table setting.

Study Skills

Full Year – 5 Credits

Offered in Grades 9, 10, 11, 12

The objective of the course is to provide instruction and guided practice in the areas of note taking, organization, test taking, listening, research, and writing skills. Study skills are best taught in context of the academic classes in which students are enrolled. Therefore, the materials used will reflect actual texts and coursework assigned across the content areas. Students enrolled in Study Skills will explore different learning strategies and gain an understanding of their own learning style and preference in order to capitalize on strengths.

Career Awareness

Semester – 2.5 Credits

Offered in Grades 9, 10, 11, 12

The objective of the course is the development of work-related values, attitudes, and competencies fundamental to success in the world of work. Instruction is designed to promote self-awareness, self-advocacy and understanding these concepts and their relevance to the world at work.

Students will develop an information base relevant to career clusters and will be introduced to the process of career decision-making. Students will also develop basic food service preparation and clerical skills by creating products for sale (bake sale, card sale).

Career Exploration

Semester – 2.5 Credits

Offered in Grade 10, 11, 12

The objective of the course is to enhance the development of work-related values, attitudes, and competencies that are fundamental to success in the world of work. Instruction is focused on the knowledge, training, and specific skills needed to secure and maintain employment. This class is designed as a business, where students develop products for sale. Students develop merchandising sales and product development skills. Students will expand knowledge relevant to specific career opportunities and will gain a better understanding of how to make career choices.

Pre-Vocational Workshop/Work Internship Network

Full Year – 5 Credits Per Period

Offered in Grades 11, 12

Pre-Vocational Workshop is a full-year course offered to all students who received a formal recommendation from their Case Manager and/or school counselor. The course is designed to teach work-related values, attitudes, and competencies fundamental to success in the world of work. The program combines informational content with exploratory experiences. Through a community based structured learning experience, students will demonstrate knowledge of their individual values, interest, and aptitudes for future employment decisions, and will receive opportunities to develop vocationally relevant skills in authentic work environments. This structured learning experience may be taken each year for credit.

18-21 Transition Program

Full Year Program– 5 Credits Per Period

Offered in Grade: 12+

This transition program is offered to students who have met all state and West Orange High School graduation requirements. The program is designed to teach work-related values, attitudes, and competencies fundamental to success in the world of work. This program also focuses on daily living skills, navigation of community and time and money management. The program combines informational content with exploratory experiences. Students will demonstrate knowledge of their individual values, interest, and aptitudes for future employment decisions, and will receive multiple opportunities to develop vocationally relevant skills in authentic work environments. Through structured learning experiences students will also be connected to agencies relevant to individual needs, such as Access Link, Division of Developmental Disabilities (DDD), Division of Vocational Rehabilitation (DVR), and Social Security.

Career Education

The Career Education Department offers a wide range of dynamic, high-quality programs across various career pathways, including Business, Culinary Arts, Fashion, Entrepreneurship, Finance, Supply Chain Management, Cybersecurity, Education and Graphic Design, among others. Our Program equip students with the latest software, tools and industry-standard equipment to prepare them for both college and career success.

Many of our courses are a part of a state-approved Career and Technical Education (CTE) Program of Study, allowing students to earn dual credit and industry-recognized certifications. The chart below outlines the scope and sequence of our course offerings, followed by detailed descriptions of each program.

Course Offerings by Grade

Grade	Business Education	Family and Consumer Science
9 th	Microsoft Office Cybersecurity 1: IT Essentials Digital Design & Multimedia Applications Accounting 1A Accounting 1B Personal Finance The World of Wall Street Business Organization and Management Supply Chain Management Supply Chain Management 2 Career Education A Career Education B	Fashion Design 1 Fashion Design 2 Fashion Business Management Introduction to Culinary Arts Level 1 Production and Culinary Arts Level 2 Interior Design A Interior Design B Early Childhood and Family Study I
10 th	Microsoft Office Digital Design & Multimedia Applications Accounting 1A Accounting 1B Honors College Accounting Cybersecurity 1: IT Essentials Cybersecurity 2: Honors Python Networking Cybersecurity 3: Honors Linux Cybersecurity 4: Honors Cyber Security Personal Finance The World of Wall Street Business Law Marketing Advertising Business Organization and Management Concepts of Entrepreneurship Supply Chain Management Supply Chain Management 2 Supply Chain Management 3 Career Education A Career Education B	Fashion Design 1 Fashion Design 2 Fashion Business Management Apparel Design Production Interior Design A Interior Design B Introduction to Culinary Arts Level 1 Production and Culinary Arts Level 2 Global Cuisine 1 Global Cuisine 2 Early Childhood and Family Study I Early Childhood and Family Study II
11 th	Microsoft Office Digital Design & Multimedia Applications Accounting 1A Accounting 1B Honors College Accounting Cybersecurity 1: IT Essentials Cybersecurity 2: Honors Python Networking Cybersecurity 3: Honors Linux Cybersecurity 4: Honors Cyber Security Honors Cyber Security Personal Finance The World of Wall Street Business Law Marketing Advertising Marketing & Advertising Applications Business Organization and Management Concepts of Entrepreneurship Supply Chain Management Supply Chain Management 2 Supply Chain Management 3	Fashion Design 1 Fashion Design 2 Fashion Business Management Apparel Design Production Interior Design A Interior Design B Introduction to Culinary Arts Level 1 Production and Culinary Arts Level 2 Global Cuisine 1 Global Cuisine 2 Creativity & Innovation in the Culinary Arts Bakeshop Early Childhood and Family Study I Early Childhood and Family Study II Early Childhood and Family Study III Tomorrow's Teacher

	Honors Virtual Enterprise Career Education A Career Education B	
12th	Microsoft Office Digital Design & Multimedia Applications Accounting 1A Accounting 1B Honors College Accounting Cybersecurity 1: IT Essentials Cybersecurity 2: Honors Python Networking Cybersecurity 3: Honors Linux Cybersecurity 4: Honors Cyber Security Honors Cyber Security Personal Finance The World of Wall Street Business Law Marketing Advertising Marketing & Advertising Applications Business Organization and Management Concepts of Entrepreneurship Honors Virtual Enterprise Supply Chain Management Supply Chain Management 2 Supply Chain Management 3 Career Education A Career Education B CTE Cooperative Education	Fashion Design 1 Fashion Design 2 Fashion Business Management Apparel Design Production Introduction to Culinary Arts Level 1 Production and Culinary Arts Level 2 Interior Design A Interior Design B Global Cuisine 1 Global Cuisine 2 Creativity & Innovation in the Culinary Arts Bakeshop Early Childhood and Family Study I Early Childhood and Family Study II Early Childhood and Family Study III Tomorrow's Teacher

Business Education

The Business Education Department provides students with 21st century skills needed to be successful in a global marketplace. All of our courses prepare students by providing project-based learning experiences in which we infuse the use of industry-standard software applications in state-of-the-art facilities. Most of our courses are part of a sequence of courses recognized by the state as approved Career and Technical Education programs. As such, West Orange High School works closely with university and business partners to ensure our students are receiving the most current information for their particular field of interest. In addition, several of our programs offer dual-credit opportunities. Several courses provide students the opportunity to take industry recognized certification exams which ensure the high-quality of our courses. Students taking any of our Business Education courses will be prepared for success in future endeavors.

Personal Finance

Semester – 2.5 Credits

Offered in Grades: 9, 10, 11, 12

Students today face an increasing number of financial choices as a result of the global economy in which we live. This course focuses on the financial-life aspects of the student's roles as citizens, family members, consumers, and active daily participants in the business world. This course is designed to assist students in recognizing their financial responsibilities today and those they will encounter in the future. Topics will include budgeting, banking, consumer credit, stocks, bonds, mutual funds, and money management strategies. Financial simulations and investment challenges are examples of activities designed for this course. This class fulfills the Financial Literacy requirement for high school graduation. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

The World of Wall Street

Semester - 2.5 Credits

Prerequisite: Personal Finance

Offered in Grades: 9, 10, 11, 12

More and more students are leaning towards advanced degrees involving business and for many this means working on or at least dealing with Wall Street. The goal of this course is to demystify Wall Street and give students a fundamental understanding of this most powerful center of our business world while learning sound financial strategies for preparing for a financially secure future. Students will learn all aspects of Wall Street including its history as well as information about stock markets around the world, risk management, portfolio performance evaluation and how financial news impacts stock performance and the economy. Students will be enrolled in the Stock Market Game which is a live simulation of an investment portfolio. Students compete with other classes within the state of New Jersey to see who ranks the highest in the return of investment. This allows students to put into practice what they are learning without any financial risk. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

State Approved CTE program in Finance

Accounting 1 A

Semester - 2.5 Credits

Offered in Grades: 9, 10, 11, 12

Did you know that accounting is one of the only Business majors in college that prepares students for jobs in all business areas? This introductory course into the world of accounting provides a solid foundation for students in understanding basic accounting concepts. Students will learn how to complete both manual and computerized accounting applications. The course covers the accounting cycle for a service business organized as a proprietorship, cash transactions, basic accounting concepts, and financial reporting; emphasis on analyzing and recording transactions and interpreting financial statements. Career opportunities for accounting students are discussed and explored in areas such as: Forensic Accounting, Showbiz Accounting, International Accounting, Environment Accounting, and others.

The New Jersey Society of CPA's (NJSCPA) visits the accounting students each school year to provide information on scholarships, career paths and opportunities. Students taking this course should also register for Accounting 1B. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Accounting 1 B

Semester – 2.5 Credits

Prerequisite: Accounting 1A

Offered in Grades: 9, 10, 11, 12

Now that the basics have been explored, it is time to build on the foundation provided in Accounting 1A. Through the use of software applications, students will continue to develop their skills in a variety of areas. The course covers the accounting cycle for a merchandising business organized as a corporation, purchases and cash payments, payroll, inventory control, depreciable assets, accounting for partnerships, corporations and uncollectible accounts. Students also develop an understanding of cash flows and analysis of financial statements, as well as competencies in managing personal affairs. Knowledge of these areas is essential for anyone considering majoring in any Business or Finance programs in college. It is recommended that students continue on to Honors College Accounting after successfully completing this course. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Honors College Accounting

Full Year – 5.0 Credits

Prerequisite: Accounting 1 A & 1 B

Offered in Grades: 10, 11, 12

College Accounting is the final course offered in the sequence of accounting courses for students serious about pursuing Accounting or other Business majors. As the title suggests, this completer course continues with the study of financial accounting and introduces managerial accounting. The course covers the analysis and interpretation of financial statements, the treatment of tangible and intangible assets, an in-depth study of corporate accounting and an overview of cost systems. Analysis of actual corporate records and investigation of stocks and bonds as investments are also explored. Students will complete projects using various computer packages. Careers in the accounting field are explored. Students are given a nationally recognized NOCTI assessment in Accounting Basics to certify they have a strong foundation in basic accounting at the end of the course. Students may earn 3 credits through Fairleigh Dickinson's Middle College Program by successfully completing this course with a C or better. Tuition fees apply for the Fairleigh Dickinson Middle College Program. Students should take Honors Virtual Enterprise upon completing this course. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

State Approved CTE Entrepreneurship Program

Business Organization and Management

Full Year-5 Credits

Offered in Grades: 9, 10, 11, 12

Students will learn how the business world operates and is managed by enrolling in this project-based class. Students will put into practice 21st century skills needed to be successful in a global market-place such as critical thinking skills, creativity, communication, and collaboration. Students will work independently as well as in teams to hone their soft skills on a variety of projects and assignments covering topics such as; business structures, management and leaderships styles, personnel management and development, payroll, interviewing and basic marketing just to name a few. Students will also have the opportunity to explore careers and post high school options while learning how to plan for their future. If you are interested in the business world this course is for you! This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Concepts of Entrepreneurship

Full Year-5 Credits

Offered in Grades: 10, 11, 12

Recommended Prerequisite: Business Organization and Management

If you dream about starting your own business, joining a family business, majoring in business or entrepreneurship in college or working for an entrepreneurial firm anywhere in the world in the future, this course was designed for you. In a project-based environment, students examine how to solve problems facing business owners such as negative press for bad products, when to expand the business based on market research and how economic factors impact small business growth. Students also explore when to upgrade systems needed to run businesses, how to create products cost effectively and ethically, as well as logistics of a product cycle. In addition, entrepreneurship cases are explored and students participate in a business venture startup game. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Marketing

Semester - 2.5 Credits

Offered in Grades: 10, 11, 12

This course will emphasize the study of marketing concepts and factors that affect the consumer market. Students will become familiar with targeted marketing through market segmentation and evaluate the importance of the visual impact of advertising through brand and trademark images. The key concepts of consumer behavior, decision-making processes and the marketing-mix of goods and services will be highlighted. Additionally, the process of developing products, goods and services for marketing will be analyzed. The students will also become knowledgeable about careers and opportunities for further study in marketing. Students taking Marketing should continue their studies by registering for Advertising semester 2. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Advertising

Semester - 2.5 Credits

Offered in Grades: 10, 11, 12

The industry of advertising has changed dramatically over the last several years with the use of technology. Companies now depend on a variety of venues to advertise their products with successful results. Students learn the most effective means used by industry to advertise products through project-based learning. Based in a computer lab, students infuse a variety of technology tools into the creation of print-ads, podcasts, business cards, direct mailers, magazine ads, brochures, and other means of advertising. The impact of Social media on the advertising world will be examined. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Marketing and Advertising Applications

Semester - 2.5 Credits

Prerequisite: Marketing, Advertising

Offered in Grades: 11, 12

In this third level of Marketing and Advertising, students apply their knowledge to particular facets of the business world such as Sports Marketing, Entertainment Marketing, and Recreation Marketing. The use of sports and entertainment in the marketing of products will be examined as well as how trends impact consumer buying habits. Students analyze how companies move from an offline environment to an online environment. Web sites, security and payment systems business models and ethics are all topics considered for each specific market. Fashion and Retail marketing impact trends across all markets and will be included in this dynamic course. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Honors Virtual Enterprise

Full Year - 5.0 Credits

Prerequisite –Completion of Select CTE courses or Supervisor approval

Offered in Grades: 11, 12

Virtual Enterprise is the capstone course for students seeking a Business career. This course blends all of the skills students have learned in their business courses into a virtual company students create together. The in-school entrepreneurship program and global business simulation transforms students into business executives as they create and manage their virtual business. Once created, students experience all of the stages of managing their business from product development, production and distribution, to marketing, sales, human resources, finance, and accounting. Students conduct market research, develop business plans and annual reports, pay wages and taxes, and maintain 401(k) plans as part of the virtual experience. When they enter the classroom, they are entering into a real-world simulation experience which will provide them with a competitive edge as they develop 21st century skills in entrepreneurship, global awareness, problem solving, communication, financial literacy, and technology. Students participate in local competitions with other virtual businesses and if successful complete in a national competition with virtual businesses from around the world. Students are given a nationally recognized NOCTI assessment in Entrepreneurship to certify they have a strong foundation at the end of the course. Students may earn 3 college credits through Fairleigh Dickinson's Middle College Program by successfully completing this course with a C or better. Tuition fees apply for the Fairleigh Dickinson Middle College Program. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation. This class fulfills the Financial Literacy requirement for high school graduation.

State Approved CTE Program in Supply Chain Management

Supply Chain Management

Semester: 2.5 Credits

Offered in Grades: 9, 10, 11, 12

Did you know that job opportunities for supply chain professionals are projected to grow by 30% by 2030? In fact, supply chain management is one of the fastest-growing career fields today. Ever wondered what Supply Chain Management is all about? A supply chain covers everything that happens to a product or service—from its initial concept all the way to the point of sale. It involves managing the flow of goods, information, and finances as a product moves from creation to delivery. This is the first course in a three-part Supply Chain Management program at West Orange High School, offered through the Career and Technical Education (CTE) program. In Course 1, students will be introduced to the core principles of Supply Chain Management through hands-on, Project-Based Learning activities. These projects will cover the four key areas of the Supply Chain Operations Reference (SCOR) model: Plan, Source, Make, and Deliver. Throughout the course, students will explore exciting career and college opportunities in this rapidly growing field. Successful completion of the course counts toward the 21st Century Life Careers/Career and Technical Education credit requirement for high school graduation.

Supply Chain Management 2

Semester: 2.5 Credits

Offered in Grades: 9, 10, 11, 12

Prerequisite: Supply Chain Management

This is the second course in the three-part Supply Chain Management program offered through West Orange High School's Career and Technical Education (CTE) program. Building on the foundational knowledge from Course 1, students will deepen their understanding of Supply Chain Management through Project-Based Learning assignments. Course 2 focuses on key topics such as Material Planning, Insourcing versus Outsourcing, Lean Manufacturing, and Distribution. Students will also explore various career opportunities in the field.

To qualify for the dual-credit opportunity with Rutgers University, students are encouraged to take Supply Chain Management Course 3.

This course counts toward the 21st Century Life Careers/Career and Technical Education credit requirement for high school graduation.

Supply Chain Management 3

Semester: 2.5 Credits

Offered in Grades: 10, 11, 12

Prerequisite: Supply Chain Management 2

This is the third and final course in the Supply Chain Management CTE program at West Orange High School. Aligned with Rutgers Supply Chain Management program, the curriculum is Project Based and prepares students for this career college pathway. This course covers Production and Capacity Planning, Ethical Sourcing and Sustainability, Service Supply Chain, and Logistics Service Provider Agreement. At the end of the course, students are eligible for dual-credit through Rutgers University and are ready to continue their career pathway in Supply Chain Management. This course is credited towards the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Business Law

Semester - 2.5 Credits

Offered in Grades: 10, 11, 12

This course teaches the student that law is an instrument of social control, which affects everyone, and that business is the medium through which most of the necessities of life are provided to everyone. These two comprehensive and profound fields of interest are ambitiously combined to present both personal and career applications of Business Law. Subject areas to be presented include: crimes and torts, the court system, contracts, negotiable instruments, conditional sales agreements, consumer protection, and insurance and employer-employee relations. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Microsoft Office

Full Year - 5.0 Credits

Offered in Grades: 9, 10, 11, 12

Students anticipating majoring in any Business area in college will benefit greatly from taking Microsoft Office 2010. This full year course provides students with advanced skills in the four components of Microsoft Office: Word, Access, Excel, and Power Point which will help them succeed in both college and the workplace. In our state of the art computer labs, students will explore advanced features of each application which will result in the ability to create professional-looking documents and presentations as well as the knowledge needed to use reporting tools, make use of database design and management tools, create spreadsheets with embedded charts and graphs, as well as to create advanced Power Point presentations. Use of the internet as a research tool will be incorporated into all four components. College-bound students will begin their studies with the tools necessary to expertly complete their assignments. In addition, students take the Microsoft Specialist certification exam for select office programs. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Digital Design & Multimedia Applications

Full Year – 5 Credits

Offered in Grades: 9, 10, 11, 12

Industry-standard software products are used by students to create high-impact professional desktop publishing designs, photos, and illustrations in this project-based course. Adobe InDesign, Illustrator, and Photoshop, as well as various online software packages, will provide the foundation from which students develop professional documents. Students taking this course will leave with advanced skills useful in either college or the workplace. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

CTE State Approved Program Cisco CyberSecurity

CyberSecurity 1: Information Technology Essentials

Full Year - 5.0 Credits

Co-requisite - Algebra I

Offered in Grades: 9, 10, 11, 12

This is the first course in the Cisco Cybersecurity Program of Study for students at WOHS. The skills taught in IT Essentials are essential in building a strong foundation in technical concepts that will support learning cybersecurity skills.

PC Hardware and Software: This portion of the course teaches the students the functionality of the internal hardware components and software components of desktop computers, laptops, and printers. Students also learn suggested best practices in maintenance and safety issues. Through hands-on labs, students learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems.

Network Operating Systems: This portion of the course teaches the students how to configure network operating systems, which include Linux and Windows. Students will learn several installation procedures, which include clean installations, upgrades, and Dual-Boot installations. Security issues, back up procedures and remote access methods are also covered. This course helps students prepare for CompTIA's A+ certification. Select students will be given the opportunity to sit for the CompTIA A+ certification exam. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation

CyberSecurity 2: Honors Python and Networking

Full Year - 5.0 Credits

Recommended - CyberSecurity 1: Information Technology Essentials

Offered in Grades: 10, 11, 12

This is the second course in the Cisco Cybersecurity Program of Study for students at WOHS. Python and networking skills are both essential in the success of a Cybersecurity program.

Python Programming: This portion of the course teaches the students Python syntax, semantics, runtime environment, and general computer programming concepts. The Python course also includes real-life programming tasks.

Networking: This portion of the course teaches the students how to build and configure a network. The students learn how to implement and configure network devices, network media, and protocols that are necessary to build networks. The Networking course also includes the use of application layer services to accomplish real-world tasks, such as creating a network for a business environment. Students may earn 3 college credits through Fairleigh Dickinson's Middle College Program by successfully completing this course with a C or better. Tuition fees apply for the Fairleigh Dickinson Middle College Program. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

CyberSecurity 3: Honors Linux

Full Year - 5.0 Credits

Recommended - CyberSecurity 1: Information Technology Essentials & CyberSecurity 2: Honors Python and Networking

Offered in Grades: 10, 11, 12

This is the third course in the Cisco Cybersecurity Program of Study for students at WOHS. Learning to use both the GUI interface and command line in Linux builds skills that are required to learn how to detect hackers that attempt to access a networked environment. These skills are required to succeed in the last course in the Cisco Cybersecurity Program.

The Linux course content covers the use of open source applications, hardware, processes, programs and the components of the Linux Operating System. The Linux course content also includes implementation of system security, users/groups and file permissions for public and private directories. The material covered in Linux prepares learners for the Linux Essentials Professional Development Certificate (Exam 010-160), which is a professional credential. This course is credited towards the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

CyberSecurity 4: Honors Cyber Security

Full Year: 5.0 credits

Recommended - CyberSecurity 1: Information Technology Essentials

Prerequisites - CyberSecurity 2: Honors Python and Networking and CyberSecurity 3: Honors Linux

Offered in Grades 10, 11, 12

This is the fourth course in the Cisco Cybersecurity Program of Study for students at WOHS. The cybersecurity skills taught in this course prepare students with the essential skills to pursue higher education in the field of cybersecurity. There are cybersecurity attacks daily around the world and in this course you will learn how to detect and protect networks from outside threats. Students will learn how to use the Windows operating system, Linux operating system, and virtual machines to analyze cybersecurity threats. Students will also learn how to analyze and classify various types of cybersecurity attacks and use SQL queries to search and analyze network intrusion data. Students develop skills to use network monitoring tools to identify attacks against network services. Students will study how cryptography is used to secure data. Students will be able to synthesize cybersecurity concepts by detecting and analyzing network intrusion data, identifying compromised devices and network vulnerabilities, and securing the network environment. Students will be prepared to take the Cisco CCNA Cyber Ops Certification exams (210-250 SECFND and 210-255 SECOPS), which are industry certifications recognized by major corporations. Students may earn 3 credits through Fairleigh Dickinson's Middle College Program by successfully completing this course with a C or better. Tuition fees apply for the Fairleigh Dickinson Middle College Program. This course is credited towards the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

These courses include a Cooperative Education experience for Seniors:

Career Education A

Semester- 2.5 Credits

Offered in Grades: 9, 10, 11, 12*

*Structured Learning Experience for Senior Students: Up to an additional 7.5 credits

Prerequisite: Application process for seniors seeking a Structured Learning Experience to include: Interview and review of transcripts

How can you determine which career is right for you? This course will prepare you for your future through the further development of your personalized student learning plan to help you reach your career goals. You will learn how to evaluate career opportunities and interpret how changing economic and societal needs influence employment trends and your future education. Career exploration, resume building, job applications, and interview skills are just a few of the areas covered in this amazing course.

If you are a senior who has met his or her graduation requirements, you have the option of participating in a paid, structured learning experience for which you will receive up to an additional 7.5 credits for this course while gaining valuable work ethics and career skills. Seniors opting to work should also sign up for Career Education A SLE. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Career Education B

Semester -2.5 Credits

Offered in Grades: 9, 10, 11, 12*

*Structured Learning Experience for Senior Students: Up to an additional 7.5 credits

Prerequisite: Application process for seniors seeking a Structured Learning Experience to include: Interview and review of transcripts

In the second part of the Career Education, you will develop job readiness skills for the particular career you choose to pursue. Group projects will help you develop the 21st century skills needed in the workplace such as creativity, collaboration, communication, and critical thinking. You will have the opportunity to participate in a variety of activities related to career readiness including volunteering, job-shadowing, internships, and community service.

If you are a senior who has met his or her graduation requirements, have the option of participating in a paid structured learning experience for which you will receive up to an additional 7.5 credits for this course while gaining

valuable work ethics and skills in career. Seniors opting to work should also sign up for Career Education B SLE. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Career and Technical Education Cooperative Education

Full Year -15 Credits

Prerequisite: Two courses completed in an approved CTE program, application, interview

Offered in Grade: 12

Students enrolled in one of our 10 state approved Career and Technical Education program may participate in a work-place Structured Learning Experience which formally integrates classroom theory with practical experience at a work site in their chosen program. This option is open to seniors who have completed a majority of courses in their CTE program. Students interested in this program should consult their guidance counselors. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Family & Consumer Science

Family and Consumer Science offers students a variety of state approved Career and Technical Education (CTE) programs in Fashion, Culinary Arts and Early Childhood development to prepare students for success in college and careers. Students in our Early Childhood program get real-world experience by working with preschool aged children in preschools as part of the West Orange Preschool expansion initiative. Students in our level three course may also earn college credits from the Fairleigh Dickinson Middle College program. Our state approved CTE Fashion program prepares students for a career in one of the many areas of the Fashion Industry. Dual enrollment is available through our partnership with Berkeley College. Culinary Arts students may participate in our American Culinary Federation (ACF) pre-apprenticeship program while earning industry certifications. Culinary students may also earn up to nine college credits from Hudson Community College at a special rate, by completing select courses and by meeting established criteria. Students in our capstone courses can earn industry credentials and take the NOCTI exam in their field of study.

CTE State Approved Program in Fashion:

Fashion Design 1

Semester - 2.5 Credits

Offered in Grades: 9, 10, 11, 12

This introductory course focuses on learning basic clothing construction skills and techniques. Students work with pre-made patterns, make basic modifications, and will be able to customize their creations. Students learn about color principles, color schemes and fashion trends. Consumer needs are included in the study of fashion and textile products and how they impact clothing choices. Careers in the Fashion industry will be explored. Students are trained in the safety protocol in a lab environment. The course is individualized to allow students to advance at their own rate to the next level of expertise. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Fashion Design 2

Semester - 2.5 Credits

Prerequisite: Fashion Design 1

Offered in Grades: 9, 10, 11, 12

This course focuses on perfecting and advancing basic clothing construction skills and techniques learned in Fashion Design 1. Skill packets are offered that provide students with the opportunity to advance their sewing skills, use advanced techniques and customize their projects. Fabrics and their care, the production of clothing in the fashion industry, and trends in the industry will be explored. Students will understand how the production of clothing in the industry provides a variety of career opportunities. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Fashion Business Management

Full Year - 5 Credits

Offered in Grades: 9, 10, 11, 12

Fashion Business Management is the second level of the Fashion program for students at West Orange High School. In this full year course, all aspects of Fashion Business Management are explored through an in-depth study of the dynamics of fashion with a focus on how products move from the design state to the retail market. Students will gain an understanding of how textiles are developed and fabric is selected for product development. Students will take on the role of merchandisers and buyers through hands-on projects and understand the importance of marketing in the retail industry. Careers in all areas of Fashion Merchandising will be explored as students participate in career related activities throughout the course of study. Guest speakers and field experiences will be an integral part of the curriculum. The construction of clothing or other sewing activities are not part of this course. Students may earn 3 credits through our partnership with Berkeley College Program by successfully completing this course with a C or better. Tuition fees apply for the Berkeley College Program. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Apparel Design Production

Full Year: 5 credits

Prerequisite: Fashion Design 1 & 2

Offered in Grades: 10, 11, 12

This year-long course is designed for students with a love for fashion, as well as, those who are interested in enhancing their skills and college admission portfolios for a career in the fashion industry. Through skill-building exercises, creative experimentation and research-based projects in fashion drawing and garment construction, students develop a personal vision and explore the role of fashion in society. Fashion careers, the history of fashion, as well as fashion terms, garment styles, and popular apparel fabrics are explored. You will create Trend boards, use Adobe Photoshop for designers, and even learn about costume design. Students explore 3D technology in the world of fashion and use our 3D printers in several projects. Students take the NOCTI exam in Apparel and Textiles. Students may earn 3 credits through our partnership with Berkeley College Program by successfully completing this course with a C or better. Tuition fees apply for the Berkeley College Program. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Interior Design A

Semester - 2.5 Credits

Offered in Grades: 9, 10, 11, 12

Interior Design A is project oriented with concentration placed on the study of design elements and principles, color schemes, floor plans, lighting, furniture styles and architecture. Using a problem-solving approach, it endeavors to help students analyze their housing needs and develop solutions to design problems. Students taking this course will learn to maximize space in their living environments now and in years to come. Careers in the industry are explored. Students should continue their studies with Interior Design B semester 2. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Interior Design B

Semester - 2.5 Credits

Prerequisite: Interior Design A

Offered in Grades 9, 10, 11, 12

Interior Design B is a continuation of Interior Design A. The course focuses on architectural styles, kitchen design, new technological advances in design materials, and environmental concerns. A highlight of the course will be a "design challenge" where students will incorporate all of the interior design principles they have acquired. This course will provide students with the information to make intelligent choices in the housing market and will offer possible career exploration opportunities. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

CTE State Approved Program: Culinary Arts

Introduction to Culinary Arts Level 1

Semester - 2.5 Credits

Offered in Grades: 9, 10, 11, 12

This is the first level of culinary arts at WOHS which provides students with an introduction to culinary arts principles required to be successful in a kitchen. Students will learn about safety and sanitation in the kitchen, engage in multiple recipes, and put to use fundamental culinary arts skills. Students will learn a variety of cooking techniques/methods used. Students will learn the proper skills and concepts required to create a dish from scratch. Students will understand how to read a recipe and then execute it correctly using the proper equipment, measuring, and cooking techniques. In addition, students will learn about the various careers available to them in the hospitality industry. It is recommended that students take Production and Culinary Arts Level 2, second semester. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Production and Culinary Arts Level 2

Semester - 2.5 Credits

Prerequisite: Introduction to Culinary Arts Level 1

Offered in Grades: 9, 10, 11, 12

This is the second course students interested in the culinary arts should take at WOHS. This course focuses on production skills and techniques within the kitchen environment. Topics include Breakfast Foods, Hot and Cold Sandwiches, Vegetables and Fruits, and Basic Principles of Cooking and Food Science. A variety of kitchen tools and equipment are used to prepare delicious recipes allowing students to advance their skill-set. Guest chefs and speakers shed light on the various career pathways students may explore for future careers within the hospitality industry. This course prepares students for Global Cuisine 1 and Global Cuisine 2. Students may earn two (2) college credits through Hudson Community College by successfully completing this course with a "C" or better. Tuition fees apply. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Global Cuisine 1

Semester - 2.5 Credits

Prerequisite: Introduction to Culinary Arts Level 1 and Production and Culinary Arts Level 2

Offered in Grades: 10, 11, 12

This level three food course, takes students on a culinary journey around the world allowing them to develop an understanding and appreciation of different cultures while exploring "new tastes." Students learn customs, geography, and cuisine about each country they virtually travel to culminating in the preparation of a variety of recipes from each. Journey to such places as France, Germany, Latin America, India and several Mediterranean Countries while developing unique preparation techniques and skills required to create a variety of recipes from around the world. Students should sign up for Global Cuisine 2 for semester 2. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Global Cuisine 2

Semester - 2.5 Credits

Prerequisite: Global Cuisine 1

Offered in Grades: 10, 11, 12

Continue your journey to Europe, North America, Asia, and Middle Eastern countries while preparing traditional recipes from each. Investigate the role geography, culture, and traditions play in the development of the cuisine from each region. Cooking techniques including the use of specialty equipment needed to prepare the recipes will be implemented. Students will develop refined knife-skills, menu-planning/food preparation skills, and an appreciation of food from around the globe. Students may earn two (2) college credits through Hudson Community College by successfully completing this course with a "C" or better. Tuition fees apply. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Creativity and Innovation in the Culinary Arts

Semester - 2.5 Credits

Prerequisites:

Introduction to Culinary Arts Level 1, Production and Culinary Arts Level 2, Global Cuisine 1/Global Cuisine 2

Offered in Grades: 11, 12

If you are interested in the culinary arts, then this class is for you. Students will fine tune their culinary skills in the kitchen as well as all areas in a restaurant. Prepare specialty dishes which stimulate the palate, sharpen your meat fabrication techniques, experiment with plating of food, food photography, and front of the house service. Not only will students leave the class with high level culinary skills, they will have the opportunity to take the Serv Safe Food Handler industry certification exam as well as the NOCTI exam in their area which may result in 3 college credits. Students may earn three (3) college credits through Hudson Community College by successfully completing this course with a "C" or better. Tuition fees apply. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Bakeshop

Semester - 2.5 Credits

Prerequisite: Global Cuisine1/Global Cuisine 2 and/or Creativity and Innovation in the Culinary Arts

Offered in Grades: 11, 12

Have you dreamed of making the perfect Chocolate Chip Cookie or Chocolate Souffle? How about building and designing a themed cake or petit fours? Bake fresh foccacia, chocolate white chocolate chunk, cupcakes, and a plethora of delicious desserts. Future culinary chefs will learn how to make pretzels, cream puffs, biscotti while developing multiple skills such as piping, proofing, decorating for beautifully designed treats. In addition, we will explore the world of savory treats including different types of artisanal breads. The science behind successful baked goods will be explored and implemented as well as specific baking techniques. This class is meant for students who have taken several culinary arts classes at WOHS and are considering pursuing a career in the culinary arts with a focus on baking and pastry. Students may earn two (2) college credits through Hudson Community College by successfully completing this course with a "C" or better. Tuition fees apply. This course is credited toward the 21st Century Life Career Technical Education credit requirement for graduation.

CTE State Approved Program: Early Childhood Education**Early Childhood and Family Study I**

Full Year - 5 Credits

Offered in Grades: 9, 10, 11, 12

Prerequisite for 9th graders: application process

Early Childhood and Family Studies I is the introductory course for students interested in Early Childhood Education, pediatrics, social work and other related fields. Sample units of study include: creating a bulletin board to use with the preschool class; the creative play areas of coloring, tempera, finger-paint, paste and collage, modeling, water and sand table, music and movement, unit blocks, and dramatic play; food and nutritious snacks; child abuse; creating and using a recipe chart; a literature experience using a variety of puppet alternatives. An additional requirement is a weekend baby simulation experience where students exhibit positive parenting techniques using a simulation doll. Students will visit and interact with preschool children at local community preschools. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Early Childhood and Family Studies II

Full Year - 5 Credits

Prerequisite: Early Childhood and Family Studies I (previously Childhood Development I)

Offered in Grades: 10, 11, 12

The second level of Early Childhood and Family Studies enables students to continue visiting and interacting with preschoolers at local community preschools. Preschool activities will center on a variety of curriculum web themes. Sample units of study for high school students are careers, children's clothing, dealing with emotions, children in crisis, and examining preschool philosophies. Creative projects include: designing a child's outfit given safety guidelines, making, writing, and illustrating a children's book, creating a math lesson with props, a children's game and a media experience. Field trips are planned at this level. After successful completion of both years of Early Childhood and Family Studies, students are prepared for entry level jobs in Early Childhood Centers. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Early Childhood and Family Studies III

Full Year - 5 Credits

Prerequisite: Early Childhood and Family Studies I and Early Childhood and Family Studies II

Offered in Grade: 11, 12

The third level of Early Childhood and Family Studies is designed for students who are pursuing a career in education or a related field of study in which working with young children is a requirement. This course will include experiences with all areas of the curricula, the study of child development principles and theorists, information about inclusion of children with special needs, and the development of cultural awareness and social competency among preschoolers. Students will develop an understanding of the physical space requirements of running an Early Childhood program as well as the equipment required. In addition, students will have the opportunity to visit a local preschool program. Upon completion of Early Childhood and Family Studies III, all students will have the opportunity to take the NOCTI national exam on essential skills in Early Childhood Care and Education. Students may earn 3 college credits through Fairleigh Dickinson's Middle College Program by successfully completing this course with a C or better. Tuition fees apply for the Fairleigh Dickinson Middle College Program. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Tomorrow's Teacher

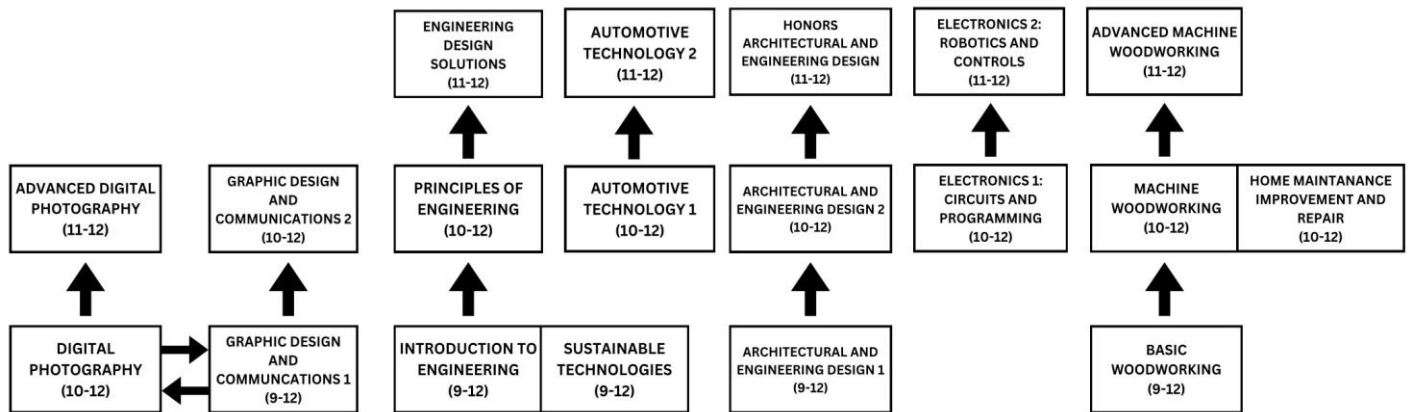
Full Year-5 Credits

Offered in Grades 11, 12

Prerequisite: Application process to include: Teacher Recommendation, writing sample, interview, and review of academic standing.

Tomorrow's Teacher is an elective course which is designed for students who are interested in a career in teaching and would like an in-depth overview to the field of education. Tomorrow's Teachers includes three themes: Experiencing the Learner, Experiencing the Profession; and Experiencing the Classroom. Students are exposed to many topics including but not limited to: teaching strategies, the teaching profession, educational materials, and classroom management. Students are provided with firsthand experiences working with elementary students in our district. Students will leave the course with a strong foundation for their future studies in education. In addition, students may receive college credits from Rider University after successfully completing the course. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Technology And Engineering



The Technology and Engineering Department offers a variety of courses that challenge students to solve real world problems. Students apply our original “DECIDER” (describe, explore, compile, initiate, evaluate, and refine) design process to arrive at solutions and engineer project prototypes. Students study the evolution of inventions and innovations, evaluate the impact technologies have on society, analyze emerging technologies and prototype their own innovations. Performance based technology learning activities throughout all our courses give students the opportunity to study technology and engineering content through hands-on experiences.

The Technology and Engineering Department comprehensive curriculum includes programs such as Graphic Communications, Engineering, Electronics, Automotive Technology, Woodworking Technology and Architectural and Engineering Design.

Our state-of-the-art classrooms, shops, and labs feature:

- Boss Laser Machine for laser cutting and engraving utilized throughout all of our programs
- Vinyl Printer Cutter, Adobe Photoshop and Illustrator in the Graphic Communications classroom
- Wheel alignment diagnostic and tire rotation machines in the Mountaineer Auto Shop
- AutoCAD software, VR equipment, 3D scanner and state of the art 3D Printing Lab in the Architectural and Engineering Design Studio
- Rhino, Onshape and VCarve software for 3D modeling and prototyping
- CNC router for computer-aided manufacturing in the Mountaineer Woodshop
- VEX robotics system, Roomba robots and Quadcopter Drones in Electronics
- 360 Cameras in Digital Photography

West Orange is the birthplace of Thomas Edison and the cradle of modern innovation. At West Orange High School, there’s no better place to explore, design, create, and build. Our forward-thinking educators deliver dynamic instruction that blends hands-on craftsmanship with cutting-edge technology, ensuring students are equipped with the skills and knowledge to thrive in a rapidly evolving global landscape.

Technology & Engineering Course Offerings by Grade

Courses in our Technology & Engineering Department provide students with the most current technology and equipment available. Graphic Communications, Electronics, Photo Shop, and our automotive facility allow students to experience project-based learning which prepares them for college and career training. Our Cooperative Education program continues to successfully place students in employment positions which build resumes and leads to future career growth potential.

Grade	Technology & Engineering
9 th	Introduction to Engineering Sustainable Technologies Architectural and Engineering Design 1 Basic Woodworking Graphics Design and Communications 1 Home Maintenance, Improvement & Repair
10 th	Introduction to Engineering Principles of Engineering Sustainable Technologies Architectural and Engineering Design 1 Architectural and Engineering Design 2 Basic Woodworking Machine Woodworking Home Maintenance, Improvement & Repair Graphics Design and Communications 1 Graphics Design and Communications 2 Electricity 1: Circuits and Programming Digital Photography
11 th	Introduction to Engineering Principles of Engineering Engineering & Design Solutions Sustainable Technologies Architectural and Engineering Design 1 Architectural and Engineering Design 2 Honors Architectural Engineering Design Basic Woodworking Machine Woodworking Advanced Machine Woodworking Graphic Design and Communications 1 Graphic Design and Communications 2 Digital Photography Advanced Digital Photography Automotive Technology 1 Automotive Technology 2 Electricity 1: Circuits and Programming Electronics 2: Robotics and Controls Home Maintenance, Improvement & Repair
12 th	Sustainable Technologies Architectural and Engineering Design 1 Architectural and Engineering Design 2 Honors Architectural Engineering Design Basic Woodworking Machine Woodworking Advanced Machine Woodworking Introduction to Engineering Principles of Engineering Engineering & Design Solutions Graphic Design and Communications 1 Graphic Design and Communications 2 Digital Photography Advanced Digital Photography Automotive Technology 1 Automotive Technology 2 Electricity 1: Circuits and Programming Electronics 2: Robotics and Controls Home Maintenance, Improvement & Repair

Introduction to Engineering

Semester – 2.5 Credits

Prerequisite: None

Offered in Grades 9, 10, 11

Engineering is problem-solving so are you ready to come up with solutions to challenges that require you to design and build projects to solve real-world problems? In this course, students will develop interdisciplinary knowledge and skills in science, technology, engineering and math (STEM) through design-oriented project-based learning, critical thinking, and problem-solving. With a focus on Engineering, students will learn about our original “DECIDER” design process and use it to problem-solve and design hands-on projects such as model structures, animal prosthetics, and solar powered inventions. Students will also have the opportunity to explore CAD modeling using Onshape which will introduce them to the foundations of rapid prototyping. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Sustainable Technologies

Semester – 2.5 Credits

Grades 9, 10, 11, 12

The importance of sustainability is greater than ever and studying the role technology plays in conserving and enhancing our resource base to improve our lives is vital. This semester course introduces students to the beliefs, philosophies, and scientific principles that support a more sustainable world. Students learn about the various technologies dealing with sustainability to secure the future of the natural resources of our world. Students design and build projects that provide sustainable solutions to real-world problems that will serve to improve our natural world for future generations. Students design and fabricate project prototypes that serve to make our world more sustainable such as the oil spill project and the wind turbine project. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Principles of Engineering

Full Year – 5 Credits

Prerequisite: Introduction to Engineering or Sustainable Technologies

Offered in Grades: 10, 11, 12

There are so many different Engineering fields to choose from so why not learn about and experience the major disciplines to see which one you want to pursue? This course introduces students to the principles of various Engineering fields (civil, mechanical, electrical, materials, and aerospace) and how they connect to a sustainable future. Students apply those principles by engineering projects that solve real-world problems with solutions that exhibit sustainability while learning the various employability skills that are necessary for future engineers. Students apply our original “DECIDER” design process to solve real-world problems through design solutions. Problem-based projects include remote control boats (which are tested at the Degnan Pond), Lego pneumatic inventions, designing and constructing your own RC plane, car crash safety vehicles, and more. Throughout the course, students develop an “engineering portfolio” detailing the progress of all their projects that can be used to demonstrate their work to potential colleges and universities. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Engineering and Design Solutions

Full Year – 5 Credits

Prerequisites- Principles of Engineering

Offered in Grades: 11, 12

Welcome to the capstone course of our engineering where all your knowledge and skills will be challenged through authentic learning experiences and competitions. This course expands upon student understanding of engineering fundamentals previously learned in Principles of Engineering. The course emphasizes the creation of engineering design solutions to 21st Century Problems. Students will comprehend how the collection and interpretation of data contributes to the material and design decisions of a product. The majority of this course is dedicated to students identifying a societal problem then developing and proposing solutions to that problem by applying the “DECIDER” engineering design process. They will learn about the entire product development process along with how to patent their invention ideas. Invention ideas are prototyped using fabrication technologies like 3d printers and laser engraving/cutting to machine parts. Students will have the opportunity to enter their invention ideas into the annual STEAM Tank

competition where winners receive money to patent their invention ideas. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Architectural & Engineering Design 1

Semester – 2.5 Credits

Prerequisite: None

Offered in Grades: 9,10,11,12

Design is all around us and it is the first step to producing anything from the shoes we wear to the homes we live in. Communicating ideas through drawings plays a vital role in the design industry. This is a foundational course for the Architecture and Engineering Design Program. The fundamentals of drafting are introduced and applied through freehand sketching, mechanical drawings, and 3D design. Students will gain knowledge on the basics of drafting by learning about abstract visualization through multi-view drawings of physical objects and 3D digital software. Students will also examine the necessity of a variety of technical drawings to accurately represent the “designed environment” which surrounds them. Students are introduced to the art of hand-drafting, CAD modeling software and 3D Printers (LulzBot, Ultimaker & MakerBot). Students will also use the design process to solve authentic problems and project their solutions in drawings and digital format.

Architectural & Engineering Design 2

Full year–5 Credits

Prerequisite: Architectural & Engineering Design 1

Offered in Grades: 10, 11, 12

Design is purposeful and always evolving. Following AED 1, students will further articulate their design choices and strengthen their CAD (computer-aided drafting) skills software commonly used in the fields of Architecture and Engineering. Students use the latest AutoCAD and Rhino software to produce a variety of architectural drawings and 3D prototypes. Through prototyping, students will become familiar with the functions of our state-of-the-art 3D printers. One such project is where students design and 3D print their own cell phone case!

Honors Architectural & Engineering Design

Full year–5 Credits

Prerequisite: Architectural & Engineering Design 2

Offered in Grades: 11, 12

Welcome to the WOHS Design Studio. Honors Architectural and Engineering Design is the capstone course in the Architecture and Engineering Design program where students apply their technical drawing and design skills through authentic real-world design challenges. With projects ranging from landscape architecture to industrial design, students master AutoCAD and 3D prototyping software to deepen their knowledge of using 3D printing as a design and modeling tool. While developing professional skills like preparing for a client meeting, oral speaking, time management and presenting to an audience. Projects include: designing their own architectural studio, tiny house, furniture, skyscraper, and designing their very own dream house! Our Architectural and Engineering Studio contains cutting-edge technologies such as a professional multi-functional plotter, industry-leading 2D and 3D software, and four dynamic 3D printers.

Graphic Design and Communications 1

Full Year - 5 Credits

Offered in Grades: 9, 10, 11, 12

In today's digital world we are surrounded by digital graphics. In this course, students will be introduced to the visual power of Graphic Design and Communications. Through hands-on experiences in logo design, digital prepress preparation, vinyl cutting, digital image manipulation, and digital image capture, all through an introduction to Adobe Photoshop, Adobe Illustrator, Adobe InDesign, and Adobe Premiere computer software. Using state-of-the-art equipment, we create projects including calendars, stickers, vinyl heat transfer T-shirts and hoodies, business sets, advertisements, and memo pads. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Graphic Design and Communications 2

Full Year - 5 Credits

Prerequisite: Graphic Communications 1

Offered in Grades: 10, 11, 12

Graphic Design and Communications 2 allows students to gain expert skills in portfolio design, presentation, signage, logo design, web design, and animation, through in-depth use of Adobe Photoshop, Adobe Illustrator, Adobe InDesign, and Adobe Premiere computer software students design and create professional projects utilizing state of the art equipment. Students create projects including digital realism, advanced digital image manipulation, multi-color vinyl heat transfer T-shirts and hoodies, business branding, and large format printing. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Digital Photography

Semester - 2.5 Credits

Prerequisite: None

Offered in Grades: 10, 11, 12

Photography is all around us - telling stories, sharing emotions, and capturing a memory. Students will learn technical components of DSLR cameras including aperture, shutter speed, and lighting. Learning to take well-composed photographs serves as the basis for more advanced techniques both in taking and editing photographs. Students will create projects using Adobe Photoshop to both enhance photographs while keeping their original overall look as well as editing using filters and various image adjustments. Major projects include: close-up photography, portrait and landscape photography, and AI photography. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Advanced Digital Photography

Semester - 2.5 Credits

Prerequisite: Digital Photography

Offered in Grades: 11, 12

Beautiful photographs serve to optimize the communication of ideas, emotions, and purpose. Students will learn advanced digital photography techniques such as exposure, lighting and lenses in order to produce the most successful images. Whether it's using macro lenses or using a variety of zoom lenses with our DSLR cameras, they will be advancing their techniques when composing photographs to create and tell stories. Advanced lighting techniques will add an element that in conjunction with advanced tools within Adobe Photoshop for editing, creating composite photos, or retouching photos, will create enhanced photographs. Projects will be maintained in a portfolio for the duration of the course. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Automotive Technology 1

Full Year - 5 Credits

Offered in Grades: 10, 11, 12

Learning about fundamental maintenance skills can save you thousands of dollars or even lead to many lucrative careers associated within the automotive industry. Students will gain foundational knowledge and skills for entering careers in automotive service and repair. Through direct instruction, hands-on activities, simulation-based learning, and live learning experiences students will learn shop safety and procedures, automotive industry careers, automotive hand, and power tools, tires and wheels, engine fundamentals, preventive maintenance, electrical fundamentals, tires, gaskets, and sealants. Students will be able to complete a full oil change with fluid and filter service, utilize the vehicle lift safely, rotate and balance tires, and diagnose and change brake pads. This course meets the 21st Century Life/Career Technical Education credit requirement for graduation.

Automotive Technology 2

Full Year - 5 Credits

Offered in Grades 11, 12

Prerequisite: Automotive Technology 1

Ready to take your automotive knowledge and skills to the next level? Automotive Technology 2 builds upon the content mastered in Automotive Technology 1 with deeper and more advanced study of the automotive industry.

Through direct instruction, hands-on activities, simulation-based learning, and live learning experiences students will learn about engine repair, transmissions, drivetrain and axles, front end, suspension, brakes, electrical systems, heating, and air conditioning, computer diagnostics, wheel alignment systems, and engine performance. Students will be able to complete a full oil change with fluid and filter service, utilize the vehicle lift safely, rotate and balance tires, full wheel alignment, front end and suspension repair, and full brake service. Through our partnership with the International Association of Machinists (IAM) Apprenticeship Program 12th graders enrolled in this course have the opportunity to gain admission into an apprenticeship program (after graduation) which provides paid on-the-job training and classroom instruction leading to Automotive Service Excellence (A.S.E.) certification. This course meets the 21st Century Life/Career Technical Education credit requirement for graduation.

Basic Woodworking

Semester - 2.5 Credits

Offered in Grades: 9, 10, 11, 12

Wood is an amazing renewable resource and is the primary building material used around the world. During this course this sustainable resource will be used to provide the opportunity for students to design and create useful objects using both hand and machine woodworking tools. This single-semester course introduces students to problem-solving design methods using wood as the primary material. Safety, wood science, hand carving, joinery, and basic machine knowledge found in this course provide a foundation for more advanced levels of technical woodworking. This course focuses on developing students' understanding of how to create without the need for thousands of dollars of expensive tools and equipment so they can hopefully continue to foster their skills at home after the course is over. Students will have the opportunity to apply their knowledge of woodworking through the design and construction of wooden spoons, clothes rack, clock, and a jewelry or keepsake box. This course is credited toward the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Home Maintenance, Improvement, and Repair

Semester 2.5 Credits

Offered in Grades: 9, 10, 11, and 12

Everyone lives in some form of home and having the skills to maintain and repair common problems that arise can save you thousands of dollars and also possibly lead to a lucrative career path. This course will provide students with a variety of building trade skills applied in the area of home maintenance, improvement, and repair. Through a hands-on project-based approach, students will learn about building trades such as construction, plumbing, electrical, HVAC, and masonry. Students will become more self-sufficient in maintaining, improving, and repairing their own homes as well as equip them with a strong foundation for a variety of careers in the skilled trades. This course is credited towards the 21st Century Life Careers/Career Technical Education credit for graduation.

Machine Woodworking

Full Year - 5 Credits

Prerequisite: Basic Woodworking

Offered in Grades: 10, 11, 12

Want to utilize advanced machinery and produce higher-end woodworking projects? Machine woodworking builds upon the skills that students learned in Basic Woodworking by teaching the proper and safe use of all the machinery that can be found in a cabinet shop. Students will gain experience using traditional machinery such as the band saw, table saw, drill press, lathe, jointer, edge sander, and planer as well as advanced Computer aided manufacturing tools such as a CNC Router and Laser engraver. This blend of old and new technology will prepare students for a future career in not only woodworking but manufacturing as well. Students who complete this course will be on track to get a job right out of high school at the EAS carpenters union training program. Students will combine hand, machine, and computer processes to develop and create original designs for wooden toys, cutting boards, and larger pieces of furniture such as stools, tables, and cabinets. Students will be exposed to problem-solving techniques, wood science, and machining to tolerances. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Advanced Machine Woodworking

Full Year - 5 Credits

Prerequisite: Machine Woodworking

Offered in Grades: 11, 12

Advanced Machine Woodworking is the culminating course in the woodworking sequence. This course focuses on design and craftsmanship in order to hone students' woodworking skills and prepare them for careers in the woodworking field. Students will combine their knowledge of traditional hand and machine woodworking equipment and processes and add in Computer-Aided Design as well as Computer-Aided Manufacturing through the use of a CNC Laser Cutter. Advanced machine woodworking will focus on preparing students to move their designs and skills into an ever-growing and more technologically centered industry. During this course, students will design and construct chairs, a community project to be selected by the class, and a signature furniture piece to be designed and created by each student to showcase their craftsmanship and design skills. Students will create their designs to be focused on sustainability and real-world production. Students who complete this course will be interviewed to get a job right out of high school at the EAS carpenters union training program. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Electronics 1: Circuits and Programming

Full Year – 5 Credits

Prerequisite: None

Offered in Grades: 10, 11, 12

Electronics are all around us and have played a huge role in the Digital and Information Age we are currently in. This course covers the introductory concepts of electricity, solder fundamentals, circuits, and programming. Students will learn how to calculate mathematical formulas such as Ohm's law, resistor color codes, and series/parallel circuit voltage drops. Students will learn how to read circuits by recognizing schematic symbols and using proper formulas to decipher proper component placement and how to program robots and microcontrollers to perform various functions. Student projects completed during this full-year course include: alarm circuits, magnetic levitation vehicles, Sumo Bots, building and programming Lego Mindstorms, and Battlebots. The laboratory work provides students with opportunities for technical experiences helpful in determining vocational interest in engineering, science or technical careers. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

Electronics 2: Robotics and Control

Full Year – 5 Credits

Prerequisite: Electronics 1

Offered in Grades: 11, 12

Electronics 2 increases the rigor of content learned in Electronics 1 where now students will learn how to use electronics to control systems and systems such as robots, drones, and advanced circuitry. This course starts with a review of the major principles of electricity, circuits, and programming learned in the prerequisite Basic Electronics 1: Circuits and Programming course. Students will learn about the study of the flow of electrons in active devices, such as transistors, semiconductors, diodes, or integrated circuits. Mathematical formulas such as Ohm's law, capacitance, resistor color code, and series/parallel equations are presented throughout the course. Students will complete hands-on activities and projects such as burglar alarms, electronic communication experiments, Rube Goldberg machines, Lego Mindstorm Robotics, and fabricating and programming quadcopter drones. This course meets the 21st Century Life Careers/Career Technical Education credit requirement for graduation.

World Languages

The goal of the world language program is to provide all students with the opportunity to learn a second language. Teachers use the target language (Chinese, French, Italian or Spanish) to model and teach communication in the language at all levels. Initially, we strive to develop the students' ability to use their chosen language in real life everyday situations. As students develop increased proficiency in the second language, they are able to use their acquired communication skills to gain new knowledge and deeper cultural understanding. A sustained sequence of study in the language is essential in order to develop proficiency beyond the survival skills of a tourist. Greater understanding, empathy and esteem for the people who speak the language are also attained over an extended period of time.

Recognizing the necessity of prolonged study to develop second language facility and meaningful cultural insights, the New Jersey State Department of Education has included World Languages as a core curriculum area of study. The core curriculum content standards for World Languages revolve around two key areas: communication and culture. The state standards mandate that upon graduation from New Jersey schools all students will be able to communicate at a basic literacy level in at least one language other than English and demonstrate an understanding of the interrelationship between language and culture for at least one world language in addition to English.

The State of New Jersey requires students to earn five credits in World Languages or student demonstration of proficiency. To develop proficiency, students should consider taking a world language each of their years in high school.

When students take level one Chinese, French, Italian, or Spanish in the 8th grade, a five-year sequence is available. Advanced Placement language and literature courses are the culminating Spanish options. For Chinese, French and Italian, Advanced placement language courses are the culminating options. Chinese 4, French 4, Italian 4, and Spanish 4 are available for students who do not wish to pursue the Honors sequence. Honors Beginning Heritage Spanish, Honors Intermediate Heritage Spanish, and Honors Pre-Advanced Heritage Spanish are courses available for students who are heritage learners.

The World Language curriculum is enhanced with enjoyable and rewarding opportunities for all students. Club activities and field trips permit interested students to experience language and culture beyond the classroom. The World Language Honor Societies recognize the high achievement of upper-level students and offer leadership roles in language activities.

On January 19, 2016, New Jersey became the 15th state to implement a legislated statewide [Seal of Bi-literacy](#). By achieving the Seal of Bi-literacy, students demonstrate that they are able to speak, read, listen and write in two or more languages at a high level of proficiency. Graduates who meet the criteria will be eligible for the Seal of Bi-literacy. Participation in this program recognizes and promotes second language instruction, prepares students with 21st century skills and provides students with a method of identifying themselves to employers as bi-literate. Students who qualify are awarded certificates signed by the Governor and receive recognition of the award on their transcripts.

CHINESE

Chinese 1

Full Year – 5 credits

Chinese 1 is opened to all students and is designed to use the communicative approach to teach Mandarin, the standard language of China. The course focuses on the acquisition of comprehension and speaking skills necessary for practical and effective communication at the novice level. As students progress in speaking, written Chinese will be introduced. The Pinyin system and tones will be introduced and exercised. Students learn to read and express themselves in simplified character writing. The understanding and appreciation of the Chinese people and their culture form an integral component of this course. This course meets the World Language credit requirement for graduation.

Chinese 2

Full Year – 5 credits

Prerequisite: Chinese 1

(In lieu of prerequisite course, placement in Chinese 2 may be determined by departmental examination and teacher/supervisor recommendation).

Chinese 2 continues to expand novice proficiency in all skill areas. Increased emphasis on the pinyin system, radicals, character writing, vocabulary and grammar enhances the students' ability to communicate in a greater range. Simplified characters will be introduced to supplement the traditional characters. Language study is further enriched with cross-cultural activities. Technology, e.g., Internet research and computer applications are an integral part of the program. This course meets the World Language credit requirement for graduation.

Honors Chinese 2

Full Year – 5 credits

Prerequisite: Chinese 1, Teacher and Supervisor Recommendations.

(In lieu of prerequisite course, placement in Honors Chinese 2 may be determined by departmental examination and teacher/supervisor recommendations).

Honors Chinese 2 is a rigorous course, which continues to expand novice proficiency in all skill areas. Increased emphasis is placed on contextual acquisition of vocabulary, verbs, grammatical patterns and simplified characters. Student proficiencies are advanced through authentic materials, technology, folktales and literature. At the conclusion of this Honors course, students will be able to communicate in a greater discourse and range in Chinese. Language study is further enriched with cross-cultural activities. Internet research and use of computer applications are an integral part of the program. This course meets the World Language credit requirement for graduation.

Chinese 3

Full Year – 5 Credits

Prerequisite: Chinese 2

(In lieu of prerequisite course, placement in Chinese 3 may be determined by departmental examination and teacher/supervisor recommendation.)

Providing a communicative approach, Chinese 3 uses varied cultural elements, e.g., songs, magazine articles, electronically produced material, works of art, folktales and films as centerpieces in our thematic units of instruction. Language skills and cultural information are taught within learning situations that are authentic and real world based. Grammar and vocabulary contribute to language learning within a meaningful context. Greater use of simplified characters is emphasized, while minimizing the use of pinyin. Assessments include cooperative projects and research as well as written tests, oral interviews, compositions and presentations. Like classroom activities, they are performance-based. Resources and materials include the available technology that enhances language acquisition and cultural knowledge. Students will be expected to transition to intermediate proficiency by the end of the course. This course meets the World Language credit requirement for graduation.

Honors Chinese 3

Full Year – 5 Credits

Prerequisite: Chinese 2

(In lieu of prerequisite course, placement in Chinese 3 may be determined by departmental examination and teacher/supervisor recommendation.)

Providing a communicative approach, Chinese 3 uses varied cultural elements, e.g., songs, magazine articles, electronically produced material, works of art, folktales and films as centerpieces in our thematic units of instruction.

Language skills and cultural information are taught within learning situations that are authentic and real world based. Increased proficiency in vocabulary and grammar acquisition contributes to language learning at the Honors level. Greater use of simplified characters is emphasized, while minimizing the use of pinyin. Assessments include cooperative projects and research as well as written tests, oral interviews, compositions and presentations. Like classroom activities, they are performance-based. Resources and materials include the available technology that enhances language acquisition and cultural knowledge. Students will be expected to transition to intermediate proficiency by the end of the course. This course meets the World Language credit requirement for graduation.

Chinese 4

Full Year – 5 Credits

Prerequisite: Chinese 3

(In lieu of prerequisite course, placement in Chinese 4 may be determined by departmental examination and teacher/supervisor recommendation)

The focus on this course is building and advancing intermediate proficiency in Chinese through varied media. The context for communicative skills shifts from everyday situations to broader topics. Tonal pronunciation, grammar and character writing are refined. Oral and written skills are further developed through student-centered activities presented in thematic units. Songs, magazine articles, electronically produced material, works of art, folklore, artifacts and film are the centerpieces of the thematic units and assist students in synthesizing the Chinese culture. The various cultural elements serve as the basis for discussion, research, writing tasks, projects and presentations. This course meets the World Language credit requirement for graduation.

Honors Chinese 4

Full Year – 5 Credits

Prerequisite: Chinese 3 and Teacher Recommendation

(In lieu of prerequisite course, placement in Chinese 4 may be determined by departmental examination and teacher/supervisor recommendation)

Honors Chinese 4 is a rigorous course that advances student proficiencies through the use of authentic literary contexts and greater character recognition and writing. Students will read selected literature and other print materials, including electronically produced text, as the basis for discussion and writing assignments. The context for the use of communicative skills shifts from everyday situations to broader topics. Students participate in speaking and writing activities designed to increase proficiency in Chinese. Simplified character writing will be thoroughly addressed. Honors Chinese 4 prepares the students for Advanced Placement level study. Films, music and art are additional sources to assist students in synthesizing the cultural products, practices and perspectives associated with the Chinese language and culture. This course meets the World Language credit requirement for graduation.

Advanced Placement Chinese Language and Culture

Full Year – 5 credits

Prerequisite: Honors Chinese 4 or Chinese 4 and teacher/supervisor recommendation.

(In lieu of prerequisite course, placement in Advanced Placement Chinese may be determined by departmental examination and teacher/supervisor recommendation).

The AP Chinese Language and Culture course is a demanding course that is designed to be comparable to fourth semester college/university courses in Mandarin Chinese. Course work provides students with opportunities to perform Intermediate to Advanced-level tasks, and students are expected to achieve proficiencies throughout, and sometimes beyond, the Intermediate range, as described in the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines. The course is performance-based, and therefore stresses advanced speaking, listening, reading and writing skills. Students need to have established a good working knowledge of linguistic structures and character writing prior to entering the course. AP Chinese is designed to prepare students for the Advanced Placement Chinese exam given in May of each year. Extensive practice in speaking and listening in Chinese is offered. Students will write expository passages on a regular basis. Reading material is taken from a wide variety of sources. This course meets the World Language credit requirement for graduation.

FRENCH

French 1

Full Year – 5 credits

French 1 is open to all students. Emphasizing the development of speaking and listening skills, French is in regular use in the classroom. The course stresses the development of a functional vocabulary while developing comprehensibility in the use of words and idioms. The basic elements of reading and writing are also taught. Up-to-date, authentic materials giving insight into the daily lives of French-speaking teenagers stimulate student interest. Students gain an understanding of the influence of French culture in the world through the use of technology. This course meets the World Language credit requirement for graduation.

French 2

Full Year – 5 credits

Prerequisite: French 1

(In lieu of prerequisite course, placement in French 2 may be determined by departmental examination and teacher/supervisor recommendation).

French 2 continues to expand novice proficiency in all skill areas. Increased emphasis on verbs and grammar enhances the students' ability to communicate in a greater range. Language study is further enriched with cross-cultural activities. Technology, e.g., Internet research and use of computer applications are an integral part of the program. This course meets the World Language credit requirement for graduation.

Honors French 2

Full Year – 5 credits

Prerequisite: French 1, Teacher and Supervisor Recommendations.

(In lieu of prerequisite course, placement in Honors French 2 may be determined by departmental examination and teacher/supervisor recommendations).

Honors French 2 is a rigorous course, which continues to expand novice proficiency in all skill areas. Increased emphasis is placed on contextual acquisition of vocabulary, verbs and grammatical patterns. Student proficiencies are advanced through authentic materials, technology, folktales and literature. At the conclusion of this Honors course, students will be able to communicate in a greater discourse and range in French. Language study is further enriched with cross-cultural activities. Internet research and use of computer applications are an integral part of the program. This course meets the World Language credit requirement for graduation.

French 3

Full Year – 5 credits

Prerequisite: French 2

(In lieu of prerequisite course, placement in French 3 may be determined by departmental examination and teacher/supervisor recommendation).

Providing a communicative approach, French 3 uses varied cultural elements, e.g., songs, magazine articles, electronically produced material, works of art, folktales and films as centerpieces for six thematic units. Language skills and cultural information are taught within learning situations that are authentic and real world based. Grammar and vocabulary contribute to language learning within a meaningful context. Assessments include cooperative projects and research as well as written tests, oral interviews, compositions and presentations. Like classroom activities, they are performance-based. Resources and materials include the available technology that enhances language acquisition and cultural knowledge. Students will be expected to transition to intermediate proficiency by the end of the course. This course meets the World Language credit requirement for graduation.

Honors French 3

Full Year – 5 credits

Prerequisite: French 2 and Teacher Recommendation

(In lieu of prerequisite course, placement in Honors French 3 may be determined by departmental examination and teacher/supervisor recommendation).

Providing a communicative approach, Honors French 3 uses varied cultural elements, e.g., songs, magazine articles, electronically produced material, works of art, folktales and films as centerpieces for the same six thematic units as French 3. Language skills and cultural information are taught within learning situations that are authentic and real world based. Grammar and vocabulary contribute to language learning within a meaningful context. Assessments include cooperative projects and research as well as written tests, oral interviews, compositions and presentations. Like classroom activities, they are performance-based. Resources and materials include the available technology that enhances language acquisition and cultural knowledge. Students will be expected to advance to intermediate proficiency by the end of the course. This course meets the World Language credit requirement for graduation.

French 4

Full Year – 5 credits

Prerequisite: French 3 or Honors French 3

(In lieu of prerequisite course, placement in French 4 may be determined by departmental examination and teacher/supervisor recommendation).

The focus on this course is building and advancing intermediate proficiency in French through varied media. The context for communicative skills shifts from everyday situations to broader topics. Grammar skills are refined. Oral and written skills are further developed through student-centered activities presented in thematic units. Songs, magazine articles, electronically produced material, works of art, folklore, artifacts and film are the centerpieces for the thematic units. The various cultural elements serve as the basis for discussion, research, writing tasks, projects and presentations. This course meets the World Language credit requirement for graduation.

Honors French 4

Full Year – 5 credits

Prerequisite: French 3 or Honors French 3 and Teacher recommendation

(In lieu of prerequisite course, placement in Honors French 4 may be determined by departmental examination and teacher/supervisor recommendation).

The context for the use of communicative skills shifts from everyday situations to broader topics. Students participate in speaking and writing activities designed to increase proficiency in French. Grammar and verbs will be thoroughly addressed. Honors French 4 prepares the students for Advanced Placement level study. Students will read selected literature and other print materials, including electronically produced text, as the basis for discussion and writing assignments. Films, music and art are additional sources for examining Francophone contributions to culture and civilization. This course meets the World Language credit requirement for graduation.

Advanced Placement French Language

Full Year – 5 credits

Prerequisite: French 4 or Honors French 4 and Teacher Recommendation.

(In lieu of prerequisite course, placement in Advanced Placement French Language may be determined by departmental examination and teacher/supervisor recommendation).

Students taking this course are expected to take the Advanced Placement Examination in May.

AP French Language is a demanding course that is equivalent to a third level college course in advanced French conversation and composition. The course is performance-based, and therefore stresses advanced speaking, listening, reading and writing skills. Students need to have established a good working knowledge of linguistic structures, i.e., grammar and verbs, prior to entering the course. AP French Language is designed to prepare students for the Advanced Placement Language Exam given in May of each year. Extensive practice in speaking and listening to both informal and formal French is offered. Students will write expository passages on a regular basis. Reading material is taken from a wide range of literary and journalistic sources. This course meets the World Language credit requirement for graduation.

ITALIAN

Italian 1

Full Year – 5 credits

Italian 1 is open to all students. Emphasizing the skills of speaking and listening, the Italian 1 course introduces students to the use of the language as a communicative tool. Students begin to develop the ability to communicate about themselves and others, to express the fundamentals of daily life and to interact with others. They will be introduced to cultural experiences that develop and encourage a better understanding of their own language and culture. They will gain insight into the daily lives of Italian speaking teenagers as well as develop an understanding of the influence of the Italian culture throughout the world. The students will begin to develop an idiomatic vocabulary. Precision in the use of words and grammatical structures is introduced. The course is enhanced through the use of technology, e.g., Internet research and computer applications. This course meets the World Language credit requirement for graduation.

Italian 2

Full Year – 5 credits

Prerequisite: Italian 1

(In lieu of prerequisite course, placement in Italian 2 may be determined by departmental examination and teacher/supervisor recommendation).

Italian 2 continues to expand novice proficiency in all skill areas. Increased emphasis on verbs and grammar enhances the students' ability to communicate in a greater range. Language study is further enriched with cross-cultural activities. Technology, e.g., Internet research and computer applications are an integral part of the program. This course meets the World Language credit requirement for graduation.

Honors Italian 2

Full Year – 5 credits

Prerequisite: Italian 1, Teacher and Supervisor Recommendations.

(In lieu of prerequisite course, placement in Honors Italian 2 may be determined by departmental examination and teacher/supervisor recommendations).

Honors Italian 2 is a rigorous course, which continues to expand novice proficiency in all skill areas. Increased emphasis is placed on contextual acquisition of vocabulary, verbs and grammatical patterns. Student proficiencies are advanced through authentic materials, technology, folktales and literature. At the conclusion of this Honors course, students will be able to communicate in a greater discourse and range in Italian. Language study is further enriched with cross-cultural activities. Internet research and use of computer applications are an integral part of the program. This course meets the World Language credit requirement for graduation.

Italian 3

Full Year – 5 credits

Prerequisite: Italian 2

(In lieu of prerequisite course, placement in Italian 3 may be determined by departmental examination and teacher/supervisor recommendation).

Providing a communicative approach, Italian 3 uses varied cultural elements, e.g., songs, magazine articles, electronically produced material, works of art, folktales and films as centerpieces for six thematic units. Language skills and cultural information are taught within learning situations that are authentic and real world based. Grammar and vocabulary contribute to language learning within a meaningful context. Assessments include cooperative projects and research as well as written tests, oral interviews, compositions and presentations. Like classroom activities, they are performance-based. Resources and materials include the available technology that enhances language acquisition and cultural knowledge. Students will be expected to begin the transition to intermediate proficiency by the end of the course. This course meets the World Language credit requirement for graduation.

Honors Italian 3

Full Year – 5 credits

Prerequisite: Italian 2 and Teacher Recommendation

(In lieu of prerequisite course, placement in Honors Italian 3 may be determined by departmental examination and teacher/supervisor recommendation).

Providing a communicative approach, Honors Italian 3 uses varied cultural elements, e.g., songs, magazine articles, electronically produced material, works of art, folktales and films as centerpieces for the same six thematic units as Italian 3. Language skills and cultural information are taught within learning situations that are authentic and real world based. Grammar and vocabulary contribute to language learning within a meaningful context. Assessments include cooperative projects and research as well as written tests, oral interviews, compositions and presentations. Like classroom activities, they are performance-based. Resources and materials include the available technology that enhances language acquisition and cultural knowledge. Students will be expected to advance to intermediate proficiency by the end of the course. This course meets the World Language credit requirement for graduation.

Italian 4

Full Year – 5 credits

Prerequisite: Italian 3 or Honors Italian 3

(In lieu of prerequisite course, placement in Italian 4 may be determined by departmental examination and teacher/supervisor recommendation).

The focus on this course is building and advancing to intermediate proficiency in Italian through varied media. The context for communicative skills shifts from everyday situations to broader topics. Grammar skills are refined. Oral and written skills are further developed through student-centered activities presented in thematic units. Songs, magazine articles, electronically produced material, works of art, folklore, artifacts and film are the centerpieces for the thematic units. The various cultural elements serve as the basis for discussion, writing assignments, research and projects. This course meets the World Language credit requirement for graduation.

Honors Italian 4

Full Year – 5 credits

Prerequisite: Italian 3 or Honors Italian 3 and teacher recommendation

(In lieu of prerequisite course, placement in Honors Italian 4 may be determined by departmental examination and teacher/supervisor recommendation).

The context for communicative skills shifts from everyday situations to broader topics. Students participate in more demanding speaking and writing activities specifically designed to increase proficiency in Italian. Students will read selected literature and other print materials, including electronically produced text, as the basis for discussion and writing assignments. Films, music and art are additional sources for examining Italian contributions to culture and civilization. Honors Italian 4 prepares students for advanced level study. This course meets the World Language credit requirement for graduation.

Advanced Placement Italian Language & Culture

Full Year – 5 credits

Pre-requisite: Level 4 Italian and Teacher Recommendation (in lieu of prerequisite course, placement in AP Italian Language and Culture may be determined by departmental exam and teacher/supervisor recommendation).

Students taking this course are expected to take the Advanced Placement Examination in May.

The AP Italian Language and Culture course is designed to be comparable to fourth semester college/university courses. The aim of the course is to further develop students' language skills within the three modes of communication: interpretive, interpersonal and presentational. Italian culture is interwoven throughout the course, including the study of geography, contemporary life, the arts and sciences, social customs and traditions, and contributions of Italians and Italian Americans to the world. AP Italian Language and Culture prepares specifically for the AP exam, which will assess students equally in speaking, reading, writing, listening and culture. The study of grammar will be an important component of the course. Interpretive listening and reading tasks will be based on authentic texts, e.g., magazine articles, films, literature, television and recordings. AP Italian Language and Culture targets pre-advanced proficiency in speaking and writing. This course meets the World Language credit requirement for graduation.

SPANISH

Honors Beginning Heritage Spanish

Full Year – 5 Credits

Course placement is determined by a departmental exam and oral interview in Spanish.

Beginning Heritage Spanish is designed for heritage learners who are fairly proficient speakers of Spanish. The objectives of the course are to develop students' literacy skills, expand communication skills and widen the students' base of cultural knowledge by studying the students' own cultural heritage. Students will learn to use Spanish beyond familiar contexts by reading authentic literary selections and writing for academic purposes. The thematic-based curriculum will also explore topics and concepts that are of interest to adolescents, e.g. cultural traditions and relationships. Beginning Heritage Spanish prepares students for Intermediate Heritage Spanish. This course meets the World Language credit requirement for graduation.

Honors Intermediate Heritage Spanish

Full Year – 5 credits

Course placement is determined by a departmental exam and oral interview in Spanish.

Intermediate Heritage Spanish is designed for heritage learners who are proficient speakers and readers of Spanish. The objectives of the course are to further develop students' literacy skills, broaden communication to include extended dialogue and widen students' base of cultural knowledge by studying the students' own cultural heritage. As in Beginning Heritage Spanish, students will learn to use Spanish beyond familiar contexts by reading authentic literary selections written by Spanish authors and writing for academic purposes. The thematic-based curriculum will also explore topics and concepts that are of interest to adolescents, e.g. music and personal issues. Materials and assignments at this level will be more rigorous and higher levels of proficiency will be expected. Intermediate Heritage Spanish prepares students for Pre-Advance Heritage Spanish. This course meets the World Language credit requirement for graduation.

Honors Pre-Advanced Heritage Spanish

Full Year – 5 Credits

Course placement is determined by a departmental exam and oral interview in Spanish.

Pre-Advanced Heritage Spanish is designed for students who demonstrate a high level of proficiency in speaking, reading, and writing Spanish. The objectives of the course are to use students' literacy skills as a tool for learning and refine communication skills to include academic conversations. Complete literary works, featuring Spanish authors, will be read and discussed. The writing focus will emphasize citing textual evidence when writing a persuasive essay. The thematic-based curriculum will explore both timeless and cultural topics including issues such as "coming of age" and immigration. Pre-advanced Heritage Spanish prepares students for AP Spanish Language. This course meets the World Language credit requirement for graduation.

Spanish 1

Full Year – 5 credits

Spanish 1 is open to all students. Emphasizing the development of speaking and listening skills, Spanish is in regular use in the classroom. The course stresses the building of a functional vocabulary while working towards precision in the use of words and idioms. The basic elements of reading and writing are also taught. Up-to-date, authentic materials give insight into the daily lives of Hispanic teenagers and stimulate student interest. Students gain an understanding of the influence of Hispanic culture in the world through the use of technology, e.g. Internet research and computer applications. This course meets the World Language credit requirement for graduation.

Spanish 1A and 1B

Two years – 10 credits

Placement determined by supervisor, teachers and counselor

Course content is equivalent to the content of Spanish 1; therefore, the successful completion of 1A and 1B is equivalent to one year of the Schools-within-A-School World Language requirement.

Spanish 1A and 1B are combined in a two-year sequence that provides the opportunity for students to meet the objectives of Spanish 1 over a longer period of time. Hands-on activities and extended practice of the language goals promote the development of communicative proficiency in Spanish. Culture is addressed by exploring and discussing Hispanic teenagers' lives in various countries. This course meets the World Language credit requirement for graduation.

Spanish 2

Full Year – 5 credits

Prerequisite: Spanish 1

(In lieu of prerequisite course, placement in Spanish 2 may be determined by departmental examination and teacher/supervisor recommendation).

Spanish 2 continues to expand novice proficiency in all skill areas. Increased emphasis on verbs and grammar enhance the students' ability to communicate in a greater range. Language study is further enriched with cross-cultural activities. Technology, e.g., Internet research and computer applications are an integral part of the course. This course meets the World Language credit requirement for graduation.

Honors Spanish 2

Full Year – 5 credits

Prerequisite: Spanish 1, Teacher and Supervisor Recommendations.

(In lieu of prerequisite course, placement in Honors Spanish 2 may be determined by departmental examination and teacher/supervisor recommendations).

Honors Spanish 2 is a rigorous course, which continues to expand novice proficiency in all skill areas. Increased emphasis is placed on contextual acquisition of vocabulary, verbs and grammatical patterns. Student proficiencies are advanced through authentic materials, technology, folktales and literature. At the conclusion of this Honors course, students will be able to communicate in a greater discourse and range in Spanish. Language study is further enriched with cross-cultural activities. Internet research and use of computer applications are an integral part of the program. This course meets the World Language credit requirement for graduation.

Spanish 3

Full Year – 5 credits

Prerequisite: Spanish 2

(In lieu of prerequisite course, placement in Spanish 3 may be determined by departmental examination and teacher/supervisor recommendation).

Providing a communicative approach, Spanish 3 uses varied cultural elements, e.g., songs, magazine articles, electronically produced material, works of art, folktales and films as centerpieces for six thematic units. Language skills and cultural information are taught within learning situations that are authentic and real world based. Grammar and vocabulary contribute to language learning within a meaningful context. Assessments include cooperative projects and research as well as written tests, oral interviews, compositions and presentations. Like classroom activities, they are performance-based. Resources and materials include the available technology that enhances language acquisition and cultural knowledge. Students will be expected to transition to intermediate proficiency by the end of the course. This course meets the World Language credit requirement for graduation.

Honors Spanish 3

Full Year – 5 credits

Prerequisite: Spanish 2 and Teacher Recommendation

(In lieu of prerequisite course, placement in Honors Spanish 3 may be determined by departmental examination and teacher/supervisor recommendation).

Providing a communicative approach, Honors Spanish 3 uses varied cultural elements, e.g., songs, magazine articles, electronically produced material, works of art, folktales and films as centerpieces for the same six thematic units as Spanish 3. Language skills and cultural information are taught within learning situations that are authentic and real world based. Grammar and vocabulary contribute to language learning within a meaningful context. Assessments include cooperative projects and research as well as written tests, oral interviews, compositions and presentations. Like classroom activities, they are performance-based. Resources and materials include the available technology that enhances language acquisition and cultural knowledge. Students will be expected to advance to intermediate proficiency by the end of the course. This course meets the World Language credit requirement for graduation.

Spanish 4

Full Year – 5 credits

Prerequisite: Spanish 3

(In lieu of prerequisite course, placement in Spanish 4 may be determined by departmental examination and teacher/supervisor recommendation).

The focus on this new course is building and advancing to intermediate proficiency in Spanish through varied media. The context for communicative skills shifts from everyday situations to broader topics. Grammar skills are refined. Oral and written skills are further developed through student-centered activities presented in thematic units. Songs, magazine articles, electronically produced materials, works of art, folklore, artifacts and film are the centerpieces for the thematic units. The various cultural elements serve as the basis for discussion, research, writing tasks, projects and presentations. This course meets the World Language credit requirement for graduation.

Honors Spanish 4

Full Year – 5 credits

Prerequisite: Spanish 3 or Honors Spanish 3 and teacher recommendation

(In lieu of prerequisite course, placement in Honors Spanish 4 may be determined by departmental examination and teacher/supervisor recommendation).

Honors Spanish 4 is a challenging course based upon an interdisciplinary, collaborative approach to language mastery. Honors Spanish 4 may be the culminating experience in Spanish for some students; for others the course synthesizes previous study in Spanish in order to prepare for Advanced Placement Spanish courses. Students may work cooperatively or independently to research topics from diverse areas of the curriculum. The objective of the course is to advance the development of proficiency in Spanish while acquiring new knowledge and cultural appreciation. This course meets the World Language credit requirement for graduation.

Advanced Placement Spanish Language

Full Year – 5 credits

Prerequisite: Honors Spanish 4 or Pre-Advanced Heritage Spanish or Spanish 4 and teacher/supervisor recommendation.

(In lieu of prerequisite course, placement in Advanced Placement Spanish Language may be determined by departmental examination and teacher/supervisor recommendation).

Students taking this course are expected to take the Advanced Placement Examination in May.

AP Spanish Language is a demanding course that is equivalent to a third level college course in advanced Spanish conversation and composition. The course is performance-based, and therefore stresses advanced speaking, listening, reading and writing skills. Students need to have established a good working knowledge of linguistic structures, i.e., grammar and verbs, prior to entering the course. AP Spanish Language is designed to prepare students for the Advanced Placement Spanish Language Exam given in May of each year. Extensive practice in speaking and listening to both informal and formal Spanish is offered. Students will write expository passages on a regular basis. Reading material is taken from a wide variety of sources. This course meets the World Language credit requirement for graduation.

Advanced Placement Spanish Literature

Full Year – 5 credits

Prerequisite: Advanced Placement Spanish Language and teacher recommendation.

(In lieu of prerequisite course, placement in Advanced Placement Spanish Literature may be determined by departmental examination and teacher/supervisor recommendation).

Students taking this course are expected to take the Advanced Placement Examination in May.

The AP Spanish Literature course is equivalent to a third level college survey of Hispanic literature. The course prepares students for the Advanced Placement examination in Spanish literature. AP Spanish literature concentrates on the development of the skills necessary to analyze Hispanic literary texts. Students' reading and writing skills are further developed as they read and discuss representative works of Hispanic literature. Speaking and writing skills are honed as students formulate and express critical opinions and judgments. Additionally, the study of literature instills a greater appreciation for the uniqueness of Hispanic culture. This course meets the World Language credit requirement for graduation.

WEST ORANGE HIGH SCHOOL – COURSE OFFERINGS

Graduation Credit Key:

ELA	English Language Arts
VPA	Visual and Performing Arts
M	Mathematics
PEH	Physical Education and Health
S	Science
SS	Social Studies
FL	Financial Literacy
21	21 st Century Life and Careers, or Career-Technical Education
WL	World Language
#	Counts towards 135 credit graduation requirement minimum

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
ESL/BILINGUAL						
ESL 1	10	ELA	X	X	X	X
ESL 2	10	ELA	X	X	X	X
ESL Study Skills	5	#	X	X	X	X
ESL 3 Contemporary Themes	5	#	X	X	X	X
ESL 3 Literature	5	ELA	X	X	X	X
ESL 4 Contemporary Themes	5	#	X	X	X	X
ESL 4 Literature	5	ELA	X	X	X	X
ESL 5 Contemporary Themes	5	#	X	X	X	X
ESL 5 Literature	5	ELA	X	X	X	X

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
VISUAL AND PERFORMING ARTS						
Art						
Art 1A - Drawing & Painting	2.5	VPA	X	X	X	X
Art 1B - Drawing Concepts	2.5	VPA	X	X	X	X
Art 2A - Drawing & Mixed Media	2.5	VPA		X	X	X
Art 2B – Painting & Printmaking	2.5	VPA		X	X	X
Art 3 - Portfolio Development	5	VPA			X	X
Art 4 – Adv. Drawing Portfolio	5	VPA				X
Honors Art 4 – Honors Adv. Drawing Portfolio	5	VPA				X
Three-Dimensional Design 1-Ceramics and Sculpture	2.5	VPA	X	X	X	X
Three-Dimensional Design 2-Ceramics and Sculpture	2.5	VPA	X	X	X	X
Three-Dimensional Design 3-Ceramics and Sculpture	2.5	VPA		X	X	X
Three-Dimensional Design 4-Ceramics and Sculpture	2.5	VPA		X	X	X
Three-Dimensional Design 5-Ceramics and Sculpture	2.5	VPA			X	X
Advanced Placement Art & Design: 2D Art & Design or 3D Art & Design or Drawing	5	VPA				X
Urban Art & Communication	2.5	VPA		X	X	X
General Music Studies						
Piano Lab	2.5	VPA	X	X	X	X
Music Theory	5	VPA		X	X	X
Advanced Placement Music Theory	5	VPA			X	X

Band Studies						
Ninth Grade Band	5	VPA	X			
Concert Band	5	VPA		X	X	X
Symphonic Winds	5	VPA		X	X	X
Honors Wind Ensemble	5	VPA		X	X	X
Orchestral Studies						
Ninth Graded Orchestra	5	VPA	X			
String Orchestra	5	VPA		X	X	X
Chamber Orchestra	5	VPA		X	X	X
Honors Chamber Orchestra	5	VPA		X	X	X
Vocal Music						
Ninth Grade Choir	5	VPA	X			
Concert Choir	5	VPA		X	X	X
Honors Chamber Choir	5	VPA		X	X	X
Theatre Arts						
Theatre Arts	5	VPA	X	X	X	X
Master Scene Study and Performance	5	VPA		X	X	X
Honors Advanced Theatre	5	VPA			X	X
Dance						
Elements of Dance	5	VPA	X	X	X	X
Dance Performance Skills	5	VPA		X	X	X
Honors Advanced Dance	5	VPA			X	X

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
ENGLISH LANGUAGE ARTS						
English 9	5	ELA	X			
Honors English 9	5	ELA	X			
English 10	5	ELA		X		
Honors English 10	5	ELA		X		
English 11, Literature & the American Experience	5	ELA			X	
Honors English 11, Honors Literature & the American Experience	5	ELA			X	
English 12, Survey of British Literature	5	ELA				X
Honors English 12, Survey of British Literature	5	ELA				X
English 12, Contemporary World Literature	5	ELA				X
Honors English 12, Contemporary World Literature	5	ELA				X
Creative Writing	2.5	#	X	X	X	X
Literary Study of Rock and Hip Hop	2.5	#	X	X	X	X
Mythology	2.5	#	X	X	X	X
Public Speaking	2.5	#	X	X	X	
Black Authors & Voices	2.5	#		X	X	X
Young Adult Literature & Graphic Novels	2.5	#	X	X	X	X
Introduction to Journalism	5	21	X	X	X	X
Newspaper 1	5	#		X	X	X
Newspaper 2	5	#			X	X
Newspaper 3	5	#				X
Broadcast (TV 1)	5	21			X	X
Broadcast (TV 2)	5	21				X
Yearbook	5	#				X
Advanced Placement English Literature	5	ELA				X

Advanced Placement English Language & Composition	5	ELA			X	

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
MULTILINGUAL LEARNERS						
Mathematics	5	#	X	X	X	
Geometry & Analysis	5	M	X	X	X	X
Algebra I	5	M	X	X	X	X
Algebra II	5	M		X	X	X
Earth Science	5	S		X	X	X
Biology	6	S	X			
Chemistry	6	S		X		
Physics	6	S			X	X
Modern World History	5	SS	X	X	X	X
United States History I	5	SS	X	X	X	X
United States History II	5	SS		X	X	X

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
MATHEMATICS						
Algebra 1	5	M	X			
Honors Algebra 1	5	M	X			
Algebra 2	5	M	X	X		
Honors Algebra 2	5	M	X	X		
Geometry and Analysis	5	M	X	X	X	
Honors Geometry and Analysis	5	M	X	X	X	
Pre-Calculus	5	M		X	X	X
Honors Pre-Calculus	5	M		X	X	
College Math	5	M			X	X
Statistics	5	M			X	X
Calculus	5	M			X	X
Programming in Visual Basic	2.5	21	X	X	X	X
Programming in C++	2.5	21	X	X	X	X
Data Science Foundations	5	21		X	X	X
Java	5	21		X	X	X
Programming in Python	5	2		X	X	X
Advanced Placement Computer Science A	6	21			X	X
Advanced Placement Statistics	6	M		X	X	X
Advanced Placement Calculus AB	6	M			X	X
Advanced Placement Calculus BC	6	M			X	X
Advanced Calculus and Differential Equations	6	#				X

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
PHYSICAL EDUCATION/HEALTH						
Physical Education/Health 9	5	PEH	X			
Physical Education/Health 10	5	PEH		X		
Physical Education/Health 11	5	PEH			X	
Physical Education/Health 12	5	PEH				X

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
AIR FORCE JUNIOR ROTC						
Aviation History & Leadership	5	21	X	X	X	X
Science of Flight & Leadership	5	21	X	X	X	X
Exploring Space & Leadership	5	21	X	X	X	X
Principles of Management & Leadership	5	21				X

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
SCIENCE						
Biology	6	S	X			
Honors Biology	6	S	X			
Chemistry	6	S		X		
Honors Chemistry	6	S		X	X	
Physics	6	S			X	X
Honors Physics	6	S			X	X
Honors Environmental Science	6	S			X	X
Earth Science	5	S			X	X
Voyage into Space	2.5	#	X	X	X	X
Forensic Science	2.5	#			X	X
Animal Behavior	2.5	#	X	X	X	X
Dynamics of Health Care in Society	5	21		X	X	X
Honors Anatomy and Physiology 1	6	21/S			X	X
Fundamentals of Health & Wellness	2.5	21			X	X
Medical Terminology	2.5	21			X	X
Advanced Placement Biology	10	S			X	X
Advanced Placement Chemistry	10	S			X	X
Advanced Placement Environmental Science	10	S			X	X
Advanced Placement Physics 1 – Algebra Based	6	S			X	X
Advanced Placement Physics C: Mechanics & Electricity & Magnetism	10	S				X

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
SOCIAL STUDIES						
Modern World History	5	SS	X			
Honors Modern World History	5	SS	X			
United States History 1	5	SS		X		
Honors United States History 1	5	SS		X		
United States History 2	5	SS			X	
Honors United States History 2	5	SS			X	
The Law: Rights and Responsibilities	5	#	X	X		
The Individual in Society	5	#			X	X
History of Race, Class, Gender, and Ethnicity	5	#			X	X
Money, Markets and the Economy	2.5	FL			X	X
Modern America Through the Media	2.5	#			X	X
Honors Introduction to Philosophy	5	#				X
Power and Politics in America	2.5	#			X	X
Advanced Placement United States History	5	SS			X	
Advanced Placement Government and Politics	5	#				X
Advanced Placement Psychology	5	#			X	X
Advanced Placement World History	5	SS				X
Advanced Placement African American Studies	5	#				X

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
SPECIAL EDUCATION						
Reading Workshop	5	#	X	X	X	X
English 9	5	E	X			
English 10	5	E		X		
American Literature	5	E			X	
British Literature	5	E				X
Math 9, 10, 11, 12	5	M	X	X	X	X
English 9, 10, 11, 12	5	E	X	X	X	X
Algebra 1	5	M	X			
Algebra 2	5	M		X		
Geometry & Analysis	5	M			X	
College Math	5	M			X	X
Science	5	S	X	X	X	X
Biology	5-6	S	X			
Chemistry	5-6	S		X		
Earth Science	5	S		X	X	
Physics	5	S			X	X
Modern World History	5	SS	X			
United States History 1	5	SS		X	X	
United States History 2	5	SS			X	X
General Music	2.5	VPA	X	X	X	X
General Art	2.5	VPA	X	X	X	X
Art & Creativity	5	VPA	X	X	X	X
Life Skills	2.5	#	X	X	X	X
Study Skills	5	#	X	X	X	X
Career Awareness	2.5	#	X	X	X	X
Career Exploration	2.5	#	X	X	X	X
Work Internship Network	15	#		X	X	X
Concepts of Technology and Engineering A	2.5	#	X	X	X	X
Concepts of Technology and Engineering B	2.5	#	X	X	X	X

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
CAREER EDUCATION						
Business Education						
Microsoft Office	5	21	X	X	X	X
Digital Design & Multimedia Applications	5	21	X	X	X	X
Accounting 1A	2.5	21	X	X	X	X
Accounting 1B	2.5	21	X	X	X	X
Honors College Accounting	5	21		X	X	X
Personal Finance	2.5	21 / FL	X	X	X	X
The World of Wall Street	2.5	21	X	X	X	X
Cybersecurity 1: Information Technology Essentials	5	21	X	X	X	X
Cybersecurity 2: Honors Python Networking	5	21		X	X	X
Cybersecurity 3: Honors Linux	5	21		X	X	X
Cybersecurity 4: Honors Cyber Security	5	21		X	X	X
Business Organization and Management	5	21	X	X	X	X
Concepts of Entrepreneurship	5	21		X	X	X
Honors Virtual Enterprise	5.0	21 / FL			X	X
Business Law	2.5	21		X	X	X
Advertising	2.5	21		X	X	X
Supply Chain Management	2.5	21	X	X	X	X
Supply Chain Management 2	2.5	21	X	X	X	X
Supply Chain Management 3	2.5	21		X	X	X
		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
Marketing	2.5	21		X	X	X
Marketing and Advertising Applications	2.5	21			X	X
Career Education A	2.5	21	X	X	X	X
Career Education A - SLE	7.5	#				X
Career Education B	2.5	21	X	X	X	X
Career Education B – SLE	7.5	#				X
CTE Cooperative Education	15	#				X
Family & Consumer Science						
Fashion Design 1	2.5	21	X	X	X	X
Fashion Design 2	2.5	21	X	X	X	X
Fashion Business Management	5	21	X	X	X	X
Apparel Design Production	5	21		X	X	X
Introduction to Culinary Arts Level 1	2.5	21	X	X	X	X
Production and Culinary Arts Level 2	2.5	21	X	X	X	X
Global Cuisine 1	2.5	21		X	X	X
Global Cuisine 2	2.5	21		X	X	X
Creativity and Innovation in the Culinary Arts	2.5	21			X	X
Bakeshop	2.5	21			X	X
Interior Design A	2.5	21	X	X	X	X
Interior Design B	2.5	21	X	X	X	X
Early Childhood & Family Study I	5	21	X	X	X	X
Early Childhood & Family Study II	5	21		X	X	X
Early Childhood & Family Study III	5	21			X	X
Tomorrow's Teacher	5	21			X	X

		GRADUATION		OFFERED IN GRADES		
COURSES	CREDITS	CREDIT	9	10	11	12
Technology and Engineering						
Introduction to Engineering	2.5	21	X	X	X	
Sustainable Technologies	2.5	21	X	X	X	X
Principles of Engineering	5	21		X	X	X
Engineering & Design Solutions	5	21			X	X
Architectural and Engineering Design 1	2.5	21	X	X	X	X
Architectural and Engineering Design 2	5	21		X	X	X
Honors Architectural and Engineering Design 3	5	21		X	X	X
Graphic Design & Communications 1	5	21	X	X	X	X
Graphic Design & Communications 2	5	21		X	X	X
Digital Photography	2.5	21		X	X	X
Advanced Digital Photography	2.5	21			X	X
Automotive Technology 1	5	21			X	X
Automotive Technology 2	5	21				X
Basic Woodworking	2.5	21	X	X	X	X
Home Maintenance, Improvement & Repair	2.5	21	X	X	X	X
Machine Woodworking	5	21		X	X	X
Advanced Machine Woodworking	5	21			X	X
Electronics 1: Circuits and Programming	5	21		X	X	X
Electronics 2: Robotics and Controls	5	21			X	X

		GRADUATION	OFFERED IN GRADES			
COURSES	CREDITS	CREDIT	9	10	11	12
WORLD LANGUAGES						
Chinese						
Chinese 1	5	WL	X	X	X	X
Chinese 2	5	WL	X	X	X	X
Honors Chinese 2	5	WL	X	X	X	X
Chinese 3	5	WL		X	X	X
Honors Chinese 3	5	WL		X	X	X
Chinese 4	5	WL		X	X	X
Honors Chinese 4	5	WL		X	X	X
Advanced Placement Chinese Language & Culture	5	WL			X	X
French						
French 1	5	WL	X	X	X	X
French 2	5	WL	X	X	X	X
Honors French 2	5	WL	X	X	X	X
French 3	5	WL	X	X	X	X
Honors French 3	5	WL	X	X	X	X
French 4	5	WL		X	X	X
Honors French 4	5	WL		X	X	X
Advanced Placement French Language	5	WL			X	X
Italian						
Italian 1	5	WL	X	X	X	X
Italian 2	5	WL	X	X	X	X
Honors Italian 2	5	WL	X	X	X	X
Italian 3	5	WL	X	X	X	X
Honors Italian 3	5	WL	X	X	X	X
Italian 4	5	WL		X	X	X
Honors Italian 4	5	WL			X	X
Advanced Placement Italian Language & Culture	5	WL				X
Spanish						
Honors Beginning Heritage Spanish	5	WL	X			
Honors Intermediate Heritage Spanish	5	WL	X			
Honors Pre-Advanced Heritage Spanish	5	WL	X	X	X	
Spanish 1	5	WL	X	X	X	X
Spanish 1A	5	WL	X	X	X	
Spanish 1B	5	WL		X	X	X
Spanish 2	5	WL	X	X	X	X
Honors Spanish 2	5	WL	X	X	X	X
Spanish 3	5	WL	X	X	X	X
Honors Spanish 3	5	WL	X	X	X	X
Spanish 4	5	WL		X	X	X
Honors Spanish 4	5	WL		X	X	X
Advanced Placement Spanish Language	5	WL		X	X	X
Advanced Placement Spanish Literature	5	WL		X	X	X