

**CAREER READY ♦ COLLEGE READY**



**VERNON MALONE**

COLLEGE AND CAREER ACADEMY

**[WWW.WCPSS.NET/VERNONMALONECCA](http://WWW.WCPSS.NET/VERNONMALONECCA)**

**2023-2024**  
**Course Description Guide**

Wake County Public School System

# VMCCA Course Listing

This is a listing of the courses projected to be taught in the 2023-2024 school year. Use this listing along with the Course Description Guide and Four-Year Graduation Plan to complete your registration on Power School. Consult with your counselors, teachers, and parents to ensure that you have selected appropriate courses for your individual Pathway and future success.

## English

- (10215X0) English I Honors
- (10225X0) English II Honors
- (10235X0) English III Honors
- (1A007X0) AP English Language and Composition
- (10245X0) English IV Honors
- (1A007X0) AP Literature & Composition

## Math

- (21092X0) Math I
- (21095X0) Math I Honors
- (22095X0) Math II Honors
- (23095X0) Math III Honors
- (24095X0) Math IV Honors
- (2A047X0) AP Pre-Calculus
- (2A007X0) AP Calculus
- (24015X0) Discrete Math for Computer Science Honors

## Science

- (35015X0) Earth Science Honors
- (33205X0) Biology Honors
- (34205X0) Chemistry Honors
- (34012X0) Physical Science
- (3A027X0) AP Environmental Science

## Social Studies

- (43035X0) World History Honors
- (43045X0) The Founding Principles of USA & NC: Civic Literacy Honors)
- (43055X0) American History Honors
- Economics and Personal Finance Honors (EPF)
- (4A077X0) AP US History

## Health and Physical Education

- (60495X0) Healthful Living I Honors
- (60292X0J) Team Sports
- (60292X0A) Weight Training and Conditioning I

## Foreign Language

- (11412X0) Spanish I
- (11422X0) Spanish II
- (11435X0) Spanish III Honors
- (11492X0) Spanish Heritage I
- (11505X0) Spanish Heritage II Honors

## Arts Education

- (54175X0M1) Magnet Art & Design Studio I Honors
- (54185X0M2) Magnet Art & Design Studio II Honors
- (54625X0M3) Magnet Art & Design Studio III Proficient
- (54645X0M4) Magnet Art & Design Studio IV Advanced

## Career and Technical Education

### ***Business, Finance, and Information Technology***

- (0A027X0) AP Computer Science
- (BF102X0) Business Essentials
- (IT302X0) Collision Repair Fundamentals
- (IT312X0) Collision Repair I
- (IT325X0) Collision Repair II – Non-Structural
- (IT335X0) Collision Repair II – Refinishing
- (CS972X0) CTE Internship
- (IC612X0) Drafting I
- (IC625X0) Drafting II-Architectural Honors
- (IC635X0) Drafting III-Architectural Honors
- (ME125X0) Entrepreneurship I Honors
- (ME125X0) Entrepreneurship II Honors
- (BM105X0) Microsoft Word & Power Point Honors
- (BM205X0) Microsoft Excel Honors
- (BP142X0) Python Programming I
- (BP162X0) Python Programming II Honors

## Curriculum Assistance

- (96102X0K) Curriculum Assistance (**SPED Placement ONLY**)

**2023-2024 Freshman (9<sup>th</sup> Grade)  
Course Listing  
Vernon Malone College and Career Academy**

This is a listing of the courses projected to be taught at VMCCA for the 2023-2024 school year. Use this listing along with the Course Description Guide and Four-Year Graduation Plan to complete your registration on Power School. Consult with your counselors, teachers, and parents to ensure that you have selected appropriate courses for your individual Pathway and future success.

*\*All Vernon Malone College and Career Academy graduates will be required to complete two levels of Spanish; may elect to take higher levels of Spanish.*

*Updated: 1/19/23*

**English**

- (10215X0) English I Honors

**Math**

- (21092X0) Math I
- (21095X0) Math I Honors
- (22095X0) Math II Honors
- (23095X0) Math III Honors
- (2A047X0) AP Pre-calculus

**Science**

- (35015X0) Earth Science Honors
- (33205X0) Biology Honors – ***Must have successfully completed Math I***

**Health and Physical Education**

- (60495X0) Healthful Living I Honors

**Career Technical Education**

- (0A027X0) AP Computer Science - ***Must have successfully completed Math I***
- (BF102X0) Business and Essentials-***Required for all VMCCA students***
- (IT302X0) Collision Repair Fundamentals
- (IC612X0) Drafting I
- (BM205X0) Microsoft Excel Honors
- (BM105X0) Microsoft Word & Power Point Honors
- (BM205X0) Microsoft Excel Honors
- (BP142X0) Python Programming I

**Social Studies**

- (43035X0) World History Honors
- (11412X0) Spanish I

**World Language**

- (11412X0) Spanish I
- (11422X0) Spanish II
- (11492X0) Spanish Heritage I
- (11505X0) Spanish Heritage II Honors
- (54175X0M1) Magnet Art & Design Studio I Honors

**Art**

- (54175X0M1) Magnet Art & Design Studio I Honors

Please use this document is to help keep students on track for graduation.



## CREDIT REVIEW

FUTURE-READY CORE				
Student's Legal Name:		Credits Earned: Credits Remaining:		
GPA Weighted: GPA Unweighted:		Class Rank:		
<b>English</b> (4 credits)	<input type="checkbox"/> English I (HN)	<input type="checkbox"/> English II (HN)	<input type="checkbox"/> English III (HN) -OR- <input type="checkbox"/> AP English Language	<input type="checkbox"/> English IV (HN) -OR- <input type="checkbox"/> AP English Literature
<b>Mathematics</b> (4 credits)	<input type="checkbox"/> Math I -OR- <input type="checkbox"/> Math I (HN)	<input type="checkbox"/> Math II (HN)	<input type="checkbox"/> Math III (HN)	<input type="checkbox"/> Math IV (HN) -OR- <input type="checkbox"/> AP Pre-Calculus -OR- <input type="checkbox"/> Discrete Math for Computer Science (HN)
<b>Science</b> (3 credits)	<input type="checkbox"/> Earth/Env. Sci (HN) -OR- <input type="checkbox"/> AP Env. Science	<input type="checkbox"/> Biology (HN)	<input type="checkbox"/> Physical Science -OR- <input type="checkbox"/> Chemistry (HN)	
<b>Social Studies</b> (4 credits)	<input type="checkbox"/> World History (HN)	<input type="checkbox"/> Civic Literacy (HN)	<input type="checkbox"/> American History HN- -OR- AP US History	<input type="checkbox"/> Economics and Personal Finance (EPF) (HN)
<b>Health &amp; PE</b> (1 credit)	<input type="checkbox"/> Health & Physical Education (HN)	<input type="checkbox"/> CPR Requirement		
<b>Electives</b> (6 credits)  *Electives used for the 2 credit combination cannot be used for the 4-credit concentration for NC Scholar	<b>Required</b> 2 elective credits of any combination from the following: • Career & Technical Education -OR- • Arts Education -OR- • Second Language* Credit 1 _____ Credit 2 _____ *2 credits in the same foreign language is required for 4 year college/university admissions		<b>WTCC Program Area/Concentration</b> 1 _____ 2 _____ 3 _____ 4 _____ # of total credits in Program Area _____	
<b>Additional Electives</b>  *A minimum of 22 credits is required to graduate.	Credit 1 _____	Credit 5 _____	Credit 9 _____	
	Credit 2 _____	Credit 6 _____	Credit 10 _____	
	Credit 3 _____	Credit 7 _____	Credit 11 _____	
	Credit 4 _____	Credit 8 _____	Credit 12 _____	
NC SCHOLARS ELIGIBILITY				
<input type="checkbox"/> All NC Graduation Requirements	<input type="checkbox"/> Unweighted GPA of 3.5 or higher	Credit 1 _____		
<input type="checkbox"/> 2 Credits of a foreign language	<input type="checkbox"/> Chemistry	Credit 2 _____		
<input type="checkbox"/> 4 elective credits in a Concentration Area (not the same as the 3 higher level courses)	<input type="checkbox"/> 3 higher level (Honors or AP) courses taken during the JUNIOR and/or SENIOR year	Credit 3 _____		

Last Reviewed: \_\_\_\_\_

Revised: January 2023

VMCCA Motto: Graduating all students on time, college and career ready.

# ART EDUCATION

## **Magnet Art & Design Studio I Honors**

**(54175X0M1) – 1 CREDIT (HN)**

This course guides students in moving beyond the basics and learn to embrace the 4C's- Communication, Collaboration, Critical Thinking Skills, and Creativity- the super skills for the 21st Century. The studio is a learning environment where students work as artists/designers and are consistently engaged in creativity and innovation, research, communication, and collaboration. All essential skills allowing students as artists/designers to create meaningful, original works. Students will develop craft through explorations in a wide variety of art forms, techniques, and materials in increasingly complex ways providing them foundations to take risks, solve creative problems, and be expressive. Creative thinking skills will develop and expand through design themes and project-based learning opportunities. Students as artists/designers will maintain a digital portfolio documenting their creative journey throughout their semester in the Art & Design Studio.

## **Magnet Art & Design Studio II Honors**

**(54185X0M2) – 1 CREDIT (HN)**

**Prerequisite: Magnet Art & Design Studio I Honors, Beginning course**

This intermediate course offers students as artists/designers an in-depth study of formal qualities of art & design while expanding on their creativity and innovation by applying critical thinking skills, research methods, communication tools, and collaborative processes. A series of two- and three-dimensional art & design themes with project-based learning opportunities will provide experiences that allow students as artists/designers to create unique ideas for original works. Students will work together as art curators for a final class art exhibition. Further development of digital portfolio to continue documenting their creative journey in the Art & Design Studio.

## **Magnet Art & Design Studio III Proficient**

**(54635X0M3) – 1 CREDIT (HN)**

**Prerequisite: Magnet Art & Design Studio II Honors, Intermediate course**

This honor level art & design course involves a more in-depth study of an arts discipline as an area of interest or concentrating on an overarching innovative idea to further explore, refine, and express through meaningful, original works. Students as artists/designers will independently curate an exhibition of a unified body of creative works. Further development of digital portfolio to continue documenting their creative journey in the Art & Design Studio.

## **Magnet Art & Design Studio IV Advanced**

**(54645X0M4) – 1 CREDIT (HN)**

**Prerequisite: Magnet Art & Design Studio III Proficient course**

This honor level art & design course will provide the student as an artist/designer an opportunity to continue to explore and expand knowledge of an arts discipline as an area of interest or concentrate on an overarching innovative idea to further explore, refine, and express through meaningful, original works. Students as artists/designers will independently curate an exhibition of a unified body of creative works. Finalize digital portfolio to prepare for college and career reviews.

# CAREER-TECHNICAL

*BUSINESS, FINANCE, AND INFORMATION TECHNOLOGY*

## **AP Computer Science Principles**

**(0A027X0) - 1 CREDIT (AP)**

**Prerequisite: None**

In this course, students will develop computational thinking vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world. It's recommended that a student in the AP Computer Science Principles course should have successfully completed a first-year high school algebra course with a strong foundation on basic linear functions and composition of functions, and problem-solving strategies that require multiple approaches and collaborative efforts. In addition, students should be able to use a Cartesian (x, y) coordinate system to represent points in a plane. It is important that students and their advisers understand that any significant computer science course builds upon a foundation of mathematical and computational reasoning that will be applied throughout the study of the course.

- Work Based Learning Opportunities: Apprenticeship: No Industry Field Trips: No Cooperative Education: No Entrepreneurial: No Internship: No Job Shadowing: No Mentorships: No School Based Enterprises: No Service Learning: No
- Aligned Industry Credential: None

## **Business Essentials**

**(BF102X0) – 1 CREDIT**

**Prerequisite: None**

This course introduces students to topics related to business, finance, management, and marketing to cover business in the global economy, functions of business organization and management, marketing basics, and significance of business financial and risk management. English language arts, social studies, and mathematics are reinforced.

- Work Based Learning Opportunities: Apprenticeship: No Industry Field Trips: No Cooperative Education: No Entrepreneurial: No Internship: No Job Shadowing: Yes Mentorships: Yes School Based Enterprises: Yes Service Learning: Yes
- Aligned Industry Credential: None

## **Collision Repair Fundamentals**

**(IT302X0) – 1 Credit**

This course is designed to introduce students to safety, basic collision repair terminology, system and component identification, knowledge and introductory skills in hand tools, shop equipment, basic servicing, and use of service information. Also career and various job opportunities in the collision repair industry will be covered. English language arts and science are reinforced.

## **Collision Repair I**

**(IT312X0)**

**Prerequisite: Collision Repair Fundamentals**

This course is designed to focus on non-structural repairs to automobiles. Using curriculum materials from the industry recognized I-CAR organization, students will learn about trim and hardware, material identification, steel cosmetic, straightening and plastic repair, moveable glass replacement, and bolted-on parts replacement. English language arts and science are reinforced.

## **Collision Repair II – Non-Structural Honors**

**(IT325X0)**

**Prerequisite: Collision Repair I**

This course is designed to continue the focus on non-structural repairs to automobiles. Using curriculum materials from the industry recognized I-CAR organization, students will learn additional information about trim and hardware, material identification, steel cosmetic straightening and plastic repair, moveable glass replacement, and bolted-on parts replacement. English language arts and science are reinforced.

## **Collision Repair II – Refinishing Honors**

**(IT335X0) – 1 Credit HN**

**Prerequisite: Collision Repair I**

This course is designed to focus on refinishing automobiles. Using curriculum from the industry recognized I-CAR organization, students will learn about repairing and priming vehicles and vehicle parts; use and maintain a spray gun; mix, store, and dispose of hazardous materials; understand the corrosion protection process; sand, buff, and detail a refinished vehicle. English language arts and science are reinforced.

### **CTE Internship**

**(CS972X0) – 1 CREDIT**

**Prerequisite: None**

A CTE Internship allows for additional development of career and technical competencies within a general career field. Internships allow students to observe and participate in daily operations, develop direct contact with job personnel, ask questions about particular careers, and perform certain job tasks. This activity is exploratory and allows the student to get hands-on experience in a number of related activities. The teacher, student, and the business community jointly plan the organization, implementation, and evaluation of an internship, regardless of whether it is an unpaid or paid internship.

### **Drafting I**

**(IC612X0) – 1 CREDIT**

**Prerequisite: None**

This course introduces students to the use of simple and complex graphic tools used to communicate and understand ideas, concepts and trends found in the areas of architecture, manufacturing, engineering, science, and mathematics, sketching and computer assisted design (CAD) skills and techniques. English language arts, mathematics, and science are reinforced.

- Work Based Learning Opportunities: Apprenticeship: Yes Industry Field Trips: Yes Cooperative Education: Yes Entrepreneurial: No Internship: Yes Job Shadowing: Yes Mentorships: No School Based Enterprises: No Service Learning: No
- Aligned Industry Credential: Autodesk Certified User Auto CAD

### **Drafting II – Architectural (Honors)**

**(IC625X0) – 1 CREDIT (HN)**

**Prerequisite: IC61 Drafting I**

This course focuses on the principles, concepts of architectural design, and use of Building Information Modeling (BIM), used in the field of architecture. An emphasis is placed on the use of 3D CAD tools in the design and execution of floor plans, foundation plans, wall sections, and elevation drawings. An understanding of 3D CAD concepts and terms, and the use of 3D CAD software such as REVIT, are essential to this course, and the required method of producing finished drawings. English language arts, mathematics, and science are reinforced.

- Work Based Learning Opportunities: Apprenticeship: Yes Industry Field Trips: Yes Cooperative Education: No Entrepreneurial: No Internship: Yes Job Shadowing: Yes Mentorships: Yes School Based Enterprises: No Service Learning: Yes
- Aligned Industry Credential: Autodesk Certified User Revit

### **Drafting III – Architectural (Honors)**

**(IC635X0) – 1 CREDIT (HN)**

**Prerequisite: IC62 Drafting II- Architectural**

This course introduces students to advanced architectural design concepts, and Building Information Modeling (BIM). Emphasis is placed on the continued use of 3D CAD tools and software such as REVIT, in the design and execution of site and foundation plans, electrical/lighting plans, stair/railing design, bath and kitchen details, multi-level floor systems, site development, renderings and walkthroughs, as well as small commercial building and design. English language arts, mathematics, and science are reinforced.

- Work Based Learning Opportunities: Apprenticeship: Yes Industry Field Trips: Yes Cooperative Education: Yes Entrepreneurial: No Internship: Yes Job Shadowing: Yes Mentorships: Yes School Based Enterprises: Yes Service Learning: Yes
- Aligned Industry Credential: Autodesk Certified User Revit

### **Entrepreneurship I (Honors)**

**(ME115X0) – 1 CREDIT (HN)**

**Recommended for Grades 10-12**

**Prerequisite: None**

In addition to the standard course requirements for Entrepreneurship I, this honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments.

- Work Based Learning Opportunities: Apprenticeship: No Industry Field Trips: Yes Cooperative Education: Yes Entrepreneurial: Yes Internship: Yes Job Shadowing: Yes Mentorships: Yes School Based Enterprises: Yes Service Learning
- Aligned Industry Credential: Venture Entrepreneurial Expedition

### **Entrepreneurship II (Honors)**

**(ME125X0) -1 CREDIT (HN)**

**Prerequisite: ME11 Entrepreneurship I**

In this honors-level course students develop an understanding of pertinent decisions to be made after obtaining financing to open a small business. Students acquire in-depth understanding of business regulations, risks, management, and marketing. Students develop a small-business management handbook. Students that successfully complete this course will earn Honors credit. English language arts and social studies are reinforced.

- Work Based Learning Opportunities: Apprenticeship: No Industry Field Trips: Yes Cooperative Education: Yes Entrepreneurial: Yes Internship: Yes Job Shadowing: Yes Mentorships: Yes School Based Enterprises: Yes Service Learning: Yes
- Aligned Industry Credential: Concepts of Entrepreneurship, Venture Entrepreneurial Expedition, Entrepreneurship and Small Business

- Work Based Learning Opportunities: Apprenticeship: No Industry Field Trips: No Cooperative Education: No Entrepreneurial: No Internship: Yes Job Shadowing: No Mentorships: No School Based Enterprises: No Service Learning: No
- Aligned Industry Credential: None
- Affiliated CTE Student Organization: An association for Marketing Education students (DECA), Future Business Leaders of America (FBLA), National FFA Organization (FFA), Family, Career and Community Leaders of America (FCCLA), Health Occupations Students of America (HOSA), SkillsUSA, and Technology Student Assoc. (TSA)

### **Microsoft Excel (Honors)** **(BM205X0) – 1 CREDIT (HN)**

#### **Prerequisite: None**

Students in Microsoft Imagine Academy benefit from world-class Microsoft curriculum and cutting-edge software tools to tackle real-world challenges in the classroom environment. This class is designed to prepare students for successful completion of the Microsoft Office Specialist Excel Core and Excel Expert exams. Successful candidates for the Microsoft Office Specialist Excel certification exam will have a fundamental understanding of the Excel environment and the ability to complete tasks independently. They will know and demonstrate the correct application of the principle features of Excel. Candidates create and edit a workbook with multiple sheets and use a graphic element to represent data visually. Workbook examples include professional-looking budgets, financial statements, team performance charts, sales invoices, and data-entry logs. Expert-level candidates for the Excel exam have an advanced understanding of the Excel environment and have the ability to guide others to the proper use of the program's features. They create, manage, and distribute professional spreadsheets for a variety of specialized purposes and situations. They customize their Excel environments to meet project needs and to enhance productivity. Expert workbook examples include custom business templates, multiple-axis financial charts, amortization tables, and inventory schedules. Career possibilities may include accountants, financial analysts, data analysts, commercial bankers, and others

- Work Based Learning Opportunities: Apprenticeship: No Industry Field Trips: Yes Cooperative Education: Yes Entrepreneurial: Yes Internship: Yes Job Shadowing: Yes Mentorships: Yes School Based Enterprises: Yes Service Learning: Yes
- Aligned Industry Credential: Microsoft Office Specialist (MOS), Excel, Excel Expert

### **Microsoft Word & Power Point (Honors)** **(BM105X0) – 1 CREDIT (HN)**

#### **Prerequisite: None**

In addition to the standard course requirements for Microsoft Word & PowerPoint, this honors-level course extends the standard course of study to a more challenging level for the student who is highly motivated, able to work independently, and has a history of high academic achievement. Honors credit will be awarded to students that successfully complete an Honors portfolio for the course that consists of college/career-themed projects and assessments. Students will be expected to take the Microsoft Office Specialist (MOS) certification exams for Microsoft Word and Microsoft PowerPoint.

- Work Based Learning Opportunities: Apprenticeship: No Industry Field Trips: Yes Cooperative Education: Yes Entrepreneurial: Yes Internship: Yes Job Shadowing: Yes Mentorships: Yes School Based Enterprises: Yes Service Learning: Yes
- Aligned Industry Credential: Microsoft Office Specialist (MOS) in Word and/or PowerPoint Affiliated CTE Student Organization: Future Business Leaders of America (FBLA)

### **Python Programming I** **(BP142X0) – 1 CREDIT**

#### **Prerequisite: None**

This course is designed to introduce Python as a beginning course (not intended for experienced programmers). The course is designed for students to learn and practice coding in an online environment that requires only a modern web browser and Internet connection. No special software is required to complete this course. The course includes video content, practice labs, and coding projects. Mathematics is reinforced.

- Work-Based Learning Opportunities: Apprenticeship: No Industry Field Trips: Yes Cooperative Education: No Entrepreneurial: Yes Internship: No Job Shadowing: Yes Mentorships: Yes School-Based Enterprises: Yes Service Learning: Yes
- Aligned Industry Credential: None

### **Python Programming II Honors** **(BP16X0) – 1 CREDIT**

#### **Prerequisite: Python Programming I**

- Work-Based Learning Opportunities: Apprenticeship: No Industry Field Trips: Yes Cooperative Education: No Entrepreneurial: Yes Internship: No Job Shadowing: Yes Mentorships: Yes School-Based Enterprises: Yes Service Learning: Yes
- Aligned Industry Credential: None



# ENGLISH

## **English I (Honors)**

### **(10215X0) – 1 CREDIT (HN)**

This honors course is designed to challenge students. It concentrates on developing reading, writing, and critical thinking skills through an intensive survey of literary types and appropriate oral and written responses. The course provides a review of grammar, mechanics, vocabulary, and usage as needed. This college preparatory course focuses on the development of complex thought processes, independence in learning, and creative expression through discussion and frequent writing assignments. Homework is a reinforcement and extension of classroom instruction.

## **English II (Honors)**

### **(10225X0) - 1 CREDIT (HN)**

#### **Prerequisite: English I**

This honors course is designed to challenge students. This course concentrates on developing reading, writing, and critical thinking skills through an intensive study of a variety of selected world literature and appropriate oral and written responses. The course provides a review of grammar, mechanics, vocabulary, and usage as needed. This college preparatory course focuses on the development of complex thought processes, independence in learning, and creative expression through discussion and frequent writing assignments. Homework is a reinforcement and extension of classroom instruction.

## **English III (Honors)**

### **(10235X0) – 1 CREDIT (HN)**

#### **Prerequisite: English II**

This honors course is designed to challenge students. This course concentrates on developing reading, writing, and critical thinking skills through an intensive study of selected American literature and appropriate oral and written responses. The course provides a review of grammar, mechanics, vocabulary, and usage as needed. This college preparatory course focuses on the development of complex thought processes, independence in learning, and creative expression through discussion and frequent writing assignments. Homework is a reinforcement and extension of classroom instruction.

## **Advanced Placement English Language and Composition**

### **(1A007X0) - 1 CREDIT (AP)**

#### **Prerequisite: English II, Honors-level recommended**

This college-level course provides an analytical and historical study of American literature and language as well as other literature in a comprehensive program of reading, writing, and critical thinking. It fulfills the NC graduation requirement for English III. As preparation to take the Advanced Placement Test in Language and Composition, students read, discuss, analyze, and write about challenging works of recognized literary merit to develop honest, concise, and effective use of language and the ability to organize ideas in a clear, coherent, and persuasive way. Independent literary analysis and a total mastery of writing skills are goals of the course. Because this course meets the needs of academically gifted or highly motivated advanced students who hope to bypass introductory courses in composition and literature when they enter college, students in an AP course should expect assignments and instruction paced at the college level. Students enrolled in this course are expected to take The College Board Advanced Placement Test.

## **English IV (Honors)**

### **(10245X0) – 1 CREDIT (HN)**

#### **Prerequisite: English III**

This honors course is designed to challenge the students. This course concentrates on developing reading, writing, and critical thinking skills through an intensive study of selected British literature and appropriate oral and written responses. The course provides a review of grammar, mechanics, vocabulary, and usage as needed. This college preparatory course focuses on the development of complex thought processes, independence in learning, and creative expression through discussion and frequent writing assignments. Homework is a reinforcement and extension of classroom instruction.

## **AP English Literature and Composition**

### **(1A017X0) - 1 CREDIT (AP)**

#### **Prerequisite: English III, honors-level recommended**

This college-level course provides an analytical and historical study of British and world literature in a comprehensive program of reading, writing, and critical thinking. It fulfills the NC graduation requirement for English III. As preparation to take the Advanced Placement Test in Literature and Composition, students read, discuss, analyze, and write about challenging works of recognized literary merit to develop honest, concise, and effective use of language and the ability to organize ideas in a clear, coherent, and persuasive way. Independent literary analysis and a total mastery of writing skills are the goals of the course. Because this course meets the needs of academically gifted or highly motivated advanced students who hope to bypass introductory courses in composition and literature when they enter college, students in an AP course should expect assignments and instruction paced at the college level. Students enrolled in this course are expected to take The College Board Advanced Placement test.

# WORLD LANGUAGE

## Spanish I

**(11412X0) – 1 CREDIT**

This course is an introduction to the study of the target language and its culture and may be taken in middle or high school. Students perform the most basic functions of the language and become familiar with some elements of its culture. The emphasis is placed on the development of the four skills listening, speaking, reading, and writing within a given context extending outside of the classroom setting when possible. The content focuses on the student's lives and experiences, and includes an exposure to everyday customs and lifestyles. Grammar is integrated throughout the course and is selected according to the language conventions (functions). A general introduction to culture (e.g., literature, laws, foods, games), perspectives (e.g., attitudes, values, beliefs), and practices (patterns of social interaction) is integrated throughout the course. Students acquire some insight into how languages and cultures work by comparing the target language and culture(s) to their own. Integration of other disciplines is ongoing throughout the course.

## Spanish II

**(11422X0) – 1 CREDIT**

### **Recommended prerequisite(s): Spanish I**

Students enrolled in this course have successfully completed a Level I course at middle or high school or have placed out Level I due to previous language study and/or established proficiency.

This course provides students with opportunities to continue the development of their listening, speaking, reading, and writing skills. Students participate in short conversational situations by combining and recombining learned elements of the language orally and in writing. They are able to satisfy basic survival needs and interact on issues of everyday life in present time and past time, inside and outside of the classroom setting. They compose related sentences which narrate, describe, compare, and summarize familiar topics from the target culture. Focus is placed on understanding main ideas in simple text.

Students develop a better understanding of the similarities and differences between cultures and languages and they examine the influence of the beliefs and values on the target culture(s). Integration of the other disciplines is ongoing throughout the course.

## Spanish III (Honors)

**(11435X0) - 1 CREDIT (HN)**

### **Recommended prerequisite(s): Spanish II**

Students enrolled in this course have either successfully completed Level I and II course at the middle or high school level or have placed out of Levels II and II due to previous language study and /or established proficiency.

This course provides students with additional opportunities to expand their listening, speaking, reading and writing skills as they create with the language and access various materials (short literacy texts, authentic materials, technical manuals, and other media) in generally familiar topics. Students satisfy limited communication and social interaction demands as well as initiate and maintain face-to-face communication. They identify main idea(s) and some details in discussions, presentations, and written texts within a cultural context; read and interpret authentic materials; narrate and describe in a series of sentences, groups of related sentences, and short cohesive passages in present, past, and future time; and compose messages, announcements, personal notes, and advertisements. Students continue to refine their knowledge and understanding of the target language and culture(s) and their own by examining the interrelationship of other cultures to their own, by demonstrating behaviors appropriate in target cultures, and by applying their knowledge and skills inside and outside of the classroom setting. Integration of other disciplines is ongoing throughout the course.

## Spanish Heritage I

**(11492X0) - 1 CREDIT**

### **Recommended prerequisite(s): Ability to speak and comprehend conversational Spanish**

This course is designed specifically for native or heritage speakers of a language other than English who already have some oral language proficiency. The purpose of this course is to enable students to develop, maintain, and enhance their proficiency in the heritage language by providing them the opportunity to listen, speak, and write in a variety of contexts and for a variety of audiences, including the family, school, and the immediate community. The course will allow students to explore the cultures that use the heritage language, including their own, and it will enable students to gain a better understanding of the nature of their own language as well as other languages to be acquired.

## Spanish Heritage II (Honors)

**(11505X0) - 1 CREDIT (HN)**

Students enrolled in this course have either successfully completed a Heritage Language Level I course at the middle of high school or have placed out of Level I due to previous language study and/or established proficiency.

This course is designed specifically for a native or heritage speakers of a language other than English who already have some oral language proficiency. The purpose of this course is to enable student to further develop, maintain, and enhance their proficiency in the heritage language by providing them the opportunity to listen, speak, read, and write in a variety of contexts and for a variety of audiences, including the family, school, and broader community. The course will allow students to explore the cultures that use the heritage language, including their own, and will enable students to gain a better understanding of the nature of their own language as well as other languages to be acquired.

*Note: This course may be taken in middle or high school. The objectives for Heritage Language Level II, which is the equivalent of a Level III as modern language course, are written at the honors level; therefore, this course is always assigned to category H (1poi)*

# HEALTH & PHYSICAL EDUCATION

## **Healthful Living I (Honors)**

**(60492X0) – 1 CREDIT**

The completion of Healthful Living I meets the North Carolina high school graduation requirement for Healthful Living. The Honors Healthful Living I course presents high-rigor learning opportunities to meet the required high school healthful living essential standards and clarifying objectives approved by the North Carolina State Board of Education and required by the North Carolina Department of Public Instruction. After completing Healthful Living I students are encouraged to pursue other Healthful Living electives. Physical education components go beyond the standard Healthful Living I offering using student-led project coursework which demands higher-level knowledge of Physical Education principles. Health components go beyond the standard Health Education offering by blending neuroscientific principles with behavioral health concepts.

## **Team Sports**

**(60292X0J)- 1 CREDIT**

### **Recommended prerequisite(s) Healthful Living I**

This course is designed to include the development of general personal fitness, and active participation in team sports such as basketball, soccer, flag football, lacrosse, volleyball, and softball. Activities are equally divided within the total weeks of instruction. This course includes the history, rules, and terminology with an emphasis on skill development, officiating, game strategies, and leadership.

## **Weight Training and Conditioning I**

**(60292X0A)- 1 CREDIT**

### **Recommended prerequisite(s) Healthful Living I**

This course is designed for the novice weight-training student. It involves introductory techniques of weight training and cardiovascular conditioning, safety precautions, and injury prevention, and other methods of weight management. The major focuses are general muscle toning and achieving total fitness. The development of a personal fitness program is a part of this course.

# MATH

## **Math I** **(21092X0) – 1 CREDIT**

### **Recommended prerequisite: Mastery of the middle school mathematics curriculum**

The purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. This course deepens and extends understanding of linear relationships, in part by contrasting them with exponential and quadratic phenomena, and in part by applying linear models to data that exhibit a linear trend. In addition to studying bivariate data, students also summarize, represent, and interpret data on a single count or measurement variable. The Geometry standards that appear in this course formalize and extend students' geometric experiences to explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. The Standards for Mathematical Practice apply throughout each course and, together with the content standards, require that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. This course fulfills the North Carolina high school graduation requirement for Common Core Math I. The final exam is the North Carolina End-of-Course Test based on the Common Core Math 1 Standards.

## **Math I (Honors)** **(21095X0) – 1 CREDIT**

### **Recommended prerequisite(s): Mastery of the middle school mathematics curriculum**

The purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. This course deepens and extends understanding of linear relationships, in part by contrasting them with exponential and quadratic phenomena, and in part by applying linear models to data that exhibit a linear trend. In addition to studying bivariate data, students also summarize, represent, and interpret data on a single count or measurement variable. The geometry standards that appear in this course formalize and extend students' geometric experiences to explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. The Standards for Mathematical Practice apply throughout each course and, together with the content standards, require that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. *Honors NC Math 1 explores content at a highly rigorous level to begin students' preparation for advanced math courses. Students are expected to be able to appropriately explain and justify their solution process through both verbal and written formats.* This course fulfills the North Carolina high school graduation requirement for NC Math 1. The final exam is the North Carolina End-of-Course Test based on the NC Math 1 Standards.

## **Math II (Honors)** **(22095X0) - 1 CREDIT (HN)**

### **Recommended prerequisite: Math I**

In Math II, students continue to deepen their study of quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Math I. The concept of quadratics is generalized with the introduction of more sophisticated polynomials. New methods for solving quadratic and exponential equations are developed. The characteristics of more advanced types of functions are investigated (including power, inverse variation, radical, absolute value, piecewise-defined, and simple trigonometric functions). The link between probability and data is explored through conditional probability and counting methods. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Important differences exist between Math II and the historical approach taken in Geometry classes. For example, transformations are explored early in the course and provide the framework for studying geometric concepts such as similarity and congruence. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Honors Math II explores content at a rigorous level to begin students' preparation for advanced math courses. The Standards for Mathematical Practice apply throughout each course and, together with the content standards, require that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. This course fulfills the North Carolina high school graduation requirement for Math II. The final exam is the North Carolina Final Exam for Math II. This honors course is designed to challenge students. This course concentrates on developing reading, writing, and critical thinking skills through an intensive study of a variety of selected world literature and appropriate oral and written responses. The course provides a review of grammar, mechanics, vocabulary, and usage as needed. This college preparatory course focuses on the development of complex thought processes, independence in learning, and creative expression through discussion and frequent writing assignments. Homework is a reinforcement and extension of classroom instruction.

## **Math III (Honors)** **(23095X0) – 1 CREDIT (HN)**

### **Recommended prerequisite: Math II Honors**

This course is designed so that students have the opportunity to pull together and apply the accumulation of mathematics concepts learned previously. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational, and radical functions, including an intense study of families of functions and the relationships therein. They expand their study of right triangle trigonometry to include general triangles and in the study of trigonometric functions to model simple periodic phenomena. Finally, students bring together all of their experience with functions and geometry to create models and solve contextual problems. Appropriate technology and tools, including manipulatives and calculators, will be used regularly for instruction and assessment. The Standard for Mathematical Practice apply throughout each course and, together with the content standards, require that students experience mathematics as a coherent, useful, and logical subject that means use of their ability to make sense of problems situations. This course fulfills the North Carolina high school graduation requirement for Math III. The final exam is the North Carolina Final Exam for Math III.

### **Math IV (Honors)**

**(24095X0) – 1 CREDIT (HN)**

**Recommended prerequisite: Math III Honors**

The primary focus of this course is on functions and statistical thinking, continuing the study of algebra, functions, trigonometry and statistical concepts previously experienced in NC Math 1-3. The course is designed to be a capstone to introductory statistical concepts. Additionally, the course intentionally integrates concepts from algebra and functions to demonstrate the close relationship between algebraic reasoning as applied to the characteristics and behaviors of more complex functions. In many cases, undergraduate students majoring in non-STEM fields will take an entry-level Algebra or Introductory Statistics course. Students will be prepared for college level algebra and statistics or as a bridge to prepare students for Pre-calculus or other advanced math courses. This course is accepted as the fourth math for admission to UNC System institutions.

### **AP Pre-Calculus**

**(2A047X0) – 1 CREDIT (HN)**

**Recommended prerequisite: Math III Honors**

The Pre-Calculus curriculum includes a complete study of trigonometry, as well as advanced algebra topics, analytic geometry, sequences and series, data analysis, vectors, and limits. Applications and modeling are included throughout the course of study. Appropriate technology, from manipulatives to calculators and application software, is used for instruction and assessment. This course is accepted as the fourth math for admission to UNC System institutions.

### **AP Calculus**

**(2A007X0) – 1 CREDIT (AP)**

**Recommend prerequisite: Mastery of the Pre-Calculus Honors curriculum**

The AP Calculus curriculum includes limits, continuity, derivatives with applications, and elementary integration with applications. This is a college-level course. Use of computers and graphing calculators play an important role in this course. For each session of classroom instruction the student is expected to spend, as a minimum, an equal amount of time outside the classroom for review, written assignments, and preparation. It is expected that students enrolled in this course will take the College Board Advanced Placement Exam. This course is accepted as the fourth math for admission to UNC System institutions.

### **Discrete Mathematics for Computer Science (HONORS)**

**(24015X0) - 1 CREDIT**

**Recommended prerequisite(s): Math 4 Honors or Pre-calculus Honors**

The purpose of this course is to introduce discrete structures that are the backbone of computer science. Discrete mathematics is the study of mathematical structures that are countable or otherwise distinct and separable. The mathematics of modern computer science is built almost entirely on discrete mathematics, such as logic, combinatorics, proof, and graph theory. At most universities, an undergraduate-level course in discrete mathematics is required for students who plan to pursue careers as computer programmers, software engineers, data scientists, security analysts and financial analysts. Students will be prepared for college level algebra, statistics, and discrete mathematics courses.

# SCIENCE

## **Astronomy (Honors)**

**(35405X0) - 1 CREDIT (HN)**

**Recommended prerequisite(s): Earth/Environmental Science (Honors)**

The underlying principles of life, earth, and physical science are integrated in this study of the universe. Historical astronomy, the solar system, comets, constellations, extraterrestrial life, and the evolution of stars are the major topics of study. Observational astronomy skills and critical thinking are fostered using laboratory and field activities.

## **Earth/Environmental Science (Honors)**

**(35015X0) – 1 CREDIT (HN)**

This course focuses on inquiry into the functions of the earth's systems. Emphasis is placed on matter, energy, coastal dynamics, environmental awareness, materials availability, and the cycles that circulate energy and material through the earth systems. Laboratory work is a major component of the course.

## **Biology (Honors)**

**(33205X0) - 1 CREDIT (HN)**

Content and principles for biology are taught but in greater depth and magnitude. Students do extensive research, independent study, and laboratory investigations. This course is designed for students who have shown superior achievement and high interest in previous science courses. The final exam is the North Carolina Biology End-of-Course Test.

## **Physical Science**

**(34102X0) - 1 CREDIT**

This course is designed as an entry-level course. The concepts of physics and chemistry are taught using both laboratory approaches and inquiry teaching. Students use their mathematical skills in the applications of science. Science projects and other independent student research provide students with a better understanding of the processes of science.

## **Chemistry (Honors)**

**(34205X0) - 1 CREDIT (HN)**

**Recommended prerequisite(s): Math III Honors or concurrent enrollment in Math III Honors**

The concepts and principles of chemistry are presented in greater depth and at a more rapid pace than in Academic Chemistry. Students perform extensive research, independent study, and laboratory work. Theoretical and mathematical relationships in chemistry are studied.

## **Advanced Placement Environmental Science**

**(3A027X0) - 1 CREDIT (AP)**

**Recommended prerequisites: Successful completion of two years of high school laboratory science**

The AP Environmental Science course is designed to be the equivalent of an introductory college course in environmental science. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. It is expected that students enrolled in this course will take the College Board Advanced Placement Test.

# SOCIAL STUDIES

## **World History (Honors)**

### **(43035X0) – 1 CREDIT (HN)**

This honors course is designed to challenge students. This course will address six periods in the study of world history, with a key focus of study from the mid-15<sup>th</sup> century to the present. Students will study major turning points that shaped the modern world. The desired outcome of this course is that students develop understandings of current world issues and relate them to their historical, political, economic, geographical, and cultural contexts. Students will broaden their historical perspectives as they explore ways societies have dealt with continuity and change, exemplified by concepts such as civilization, revolution, government, economics, war, stability, movement, and technology.

## **Founding Principles of the USA and NC: Civic Literacy (Honors)**

### **43185X0 1 CREDIT (HN)**

Civic Literacy is the study and understanding of citizenship and government. Through the Inquiry-based C3 Framework, this one-semester course provides students with a sound understanding of civic life, politics, and government, including a short history of government's foundation and development in the United States of America. Students learn how power and responsibility are shared and limited by the government, the impact American politics has on world affairs, law in the American constitutional system, and the rights that the American government guarantees its citizens. Students also examine how the world is organized politically and how to be an active participant in the American and global political systems. Students will study the foundations of American democracy and the origins of American government. The roles of political parties, campaigns & elections, public opinion, and the media will be analyzed to determine their effects on the individual and all who call the United States home. \*Note, this is a draft description and subject to change.\*

## **American History (Honors)**

### **(43045X0) – 1 CREDIT (HN)**

This honors course is designed to challenge students. In this course students will examine the historical and intellectual origins of the US from the European exploration and colonial settlement to the Revolutionary and Constitutional eras. Students will learn about the important political and economic factors that contributed to the development of colonial America and the outbreak of the American Revolution, as well as the consequences of the Revolution, including the writing and key ideas of the US Constitution.

This course will guide students as they study the establishment of political parties, America's westward expansion, the growth of sectional conflict, how that sectional conflict led to the Civil War, and the consequences of the Civil War, including Reconstruction.

**-OR-**

## **Advanced Placement United State History**

### **(4A077X0) - 1 CREDIT (AP)**

This course is designed to encourage students to become apprentice historians who are able to use historical facts and evidence in the service of creating deeper conceptual understandings of critical developments in US history. The curriculum of the course centers around four types of historical thinking skills: chronological reasoning, comparison and contextualization, crafting historical arguments from historical evidence, and historical interpretation and synthesis. Students will explore seven themes throughout this course: identity; work, exchange, and technology; peopling; politics and power; America in the world; environment and geography – physical and human; and ideas, beliefs, and culture. Students enrolled in this course are expected to take the College Board Advanced Placement test.

## **Economics and Personal Finance (Honors)**

### **43195X0 1 CREDIT (HN)**

This is a new graduation requirement for the incoming **freshmen class (Class of 2024) in 2020-21**. This full credit course will focus on economics and personal finance, examining basic concepts on economic principles and personal financial literacy components in addition to planning and paying for postsecondary education.