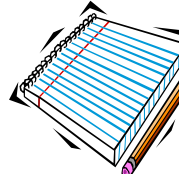


# Norwayne High School



## Scheduling Guide 2025-26

## **PLANNING YOUR SCHEDULE**

Students and parents should use this booklet as a source of information on courses and programs offered at Norwayne High School. The following information is intended to provide basic knowledge, and we encourage you to obtain further details from counselors, teachers and administrators. We wish to assist every student in making his/her high school years a valuable experience. With careful planning, each individual can acquire an education that will lead to further studies, a productive career and a happy, healthy life.

1. Take this booklet home for consultation with your parents or guardians.
2. Review your individual requirement needs for graduation, as well as your specific career goals.
3. Check the entrance requirements of any college, area of service, or job field you may be considering.
4. Consider your abilities, interests, needs and plans for the future as you make your decisions. See your counselor for assistance.
5. Seek advice from your parents, teachers, counselor, and especially from those who are currently engaged in careers in which you are interested.
6. Carefully review your decisions before making any final commitments.
7. Once you have registered for your courses, a schedule change will rarely be made and only with the counselor and/or principal's permission. Schedule changes will not be permitted after the second week of class.

## **RECOMMENDATIONS FOR COLLEGE-PREP STUDENTS**

Math- Algebra I, Geometry, Algebra II, Pre-Calculus- minimum  
Science- Physical, Biology, Chemistry- minimum  
Foreign Language- 2 units  
Fine Arts- 1 unit

Students who plan to attend a two-year technical school with the intent of obtaining an associate's degree may not need the foreign language and fine arts credits. Students and parents should still check the admission criteria for the post-secondary institution they are considering.

## **PROSPECTIVE COLLEGE ATHLETES**

Students who plan to participate in collegiate athletics at a Division I or II school need to register with the NCAA clearinghouse after completion of junior year. To register online go to [www.eligibilitycenter.org](http://www.eligibilitycenter.org) . Also, please note the NCAA initial-eligibility requirements of core courses, test scores and GPA. See your high school guidance counselor for more information.

If you think you may play at a smaller school, register with NAIA at [www.playnaia.org](http://www.playnaia.org)

\*You are able to be registered with both NCAA and NAIA at the same time.

## GRADUATION REQUIREMENTS

English Language Arts	4 units
Math*	4 units
Science*	3 units
History and Government*	3 units
Health	1/2 unit
Physical Education*	1/2 unit
Financial Literacy*	1/2 unit
Electives*	4 1/2 units
<b>Total</b>	<b>20 units</b>

\***Mathematics** units must include one unit of algebra II or the equivalent of algebra II.

\* **Physical education** - School districts may adopt a policy that would exempt students who participate in interscholastic athletics, marching band or cheerleading for two full seasons from the physical education requirement. Students must take another course, which cannot be a physical education course, of at least 60 contact hours.

\* **Science** units must include one unit of physical sciences, one unit of life sciences and one unit of advanced study in one or more of the following sciences: chemistry, physics or other physical science; advanced biology or other life science; astronomy, physical geology or other earth or space science.

\***Social studies** units must include 1/2 unit of World History, 1/2 unit of American History and 1/2 unit of American Government.

\* **Elective credits** must include one or any combination of foreign language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required.

\* **Other state requirements** - All students must receive instruction in economics and financial literacy during grades 9-12 and must complete at least two semesters of fine arts taken any time in grades 7-12. Fine arts is not a requirement for students following a career-technical pathway.

## GRADUATION SEALS

Please the Ohio Department of Education and Workforce site for more details on required graduation seals:

<https://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Ohio%E2%80%99s-Graduation-Requirements/Graduation-Seals>



# OHIO'S GRADUATION REQUIREMENTS

## CLASS OF 2023 AND BEYOND

Ohio's long-term graduation requirements take effect for the class of 2023. For students entering ninth grade on or after **July 1, 2019**, Ohio's new high school graduation requirements provide more flexibility to choose a graduation pathway that builds on a student's strengths and passions – one that ensures students are ready for their next steps after high school. Students in the classes of 2018 through 2022 may also use these requirements as a pathway to graduation.

As a part of this pathway to graduation, students must show that they have completed all three parts of these requirements.

### 1. Credit Requirements:

Students must earn a **minimum total of 20 credits** in specified subjects and take your required tests. Schools can locally require more than 20 credits. Schools are still required to administer all the high school end-of-course assessments. These are: English Language Arts II, Algebra I (or Integrated Math I), Geometry (or Integrated Math II), Biology, American History, and American Government.

### 2. Competency:

Students can demonstrate competency by earning a passing score on Ohio's high school Algebra I (or Integrated Math I) and English language arts II tests. Students who do not pass the test will be offered additional support and must retake the test at least once. If students have not met the competency score on these tests, there are four additional ways to show competency.

Option 1	Option 2	Option 3	Option 4	Option 5
Algebra I and ELA II	Career Readiness	College Credit Plus	Military Enlistment	ACT or SAT

**Option 1.** To demonstrate competency using Ohio's state tests, students must earn a score of 684 or above on both the Algebra I (or Integrated Math I) and English language arts II end-of-course exams.

**Option 2.** To demonstrate competency by Career Readiness, students must demonstrate two career-focused activities, at least one must be a foundational option.

- Foundational options: 1. Cumulative score of proficient on 3 or more WebXams. 2. Earn 12-points of industry credential. 3. Complete a registered pre-apprenticeship, an apprenticeship, or show evidence of acceptance into an approved apprenticeship. 4. State-issued license for a practice in a vocation.
- Supporting options: 1. Work-Based Learning. 2. Earn the workforce readiness score on the Workkeys. 3. Earn the OhioMeansJobs Readiness Seal

**Option 3.** To demonstrate competency through the College Credit Plus Program, students must earn credit in a non-remedial math or English course for the subject area not passed.

**Option 4.** To demonstrate competency through Military Enlistment, students must provide evidence of enlistment in a branch of the armed forces to demonstrate competency.

**Option 5.** To demonstrate competency using the ACT or SAT, students must obtain a remediation-free score in the math and/or English subject area on the ACT or SAT. To demonstrate competency in English, a student must be remediation-free in the subjects of English and reading on the ACT or SAT.

### 3. Readiness:

Students can meet the readiness requirement by earning two diploma seals. In alignment with their graduation plan, students should be choosing seals that align with their goals and interests. These seals give students the chance to demonstrate academic, technical and professional skills and knowledge that align to their passions, interests and their post-high school pathway.

Of the two seals students are required to earn, at least one of the two must be State-Defined. Ohio's 12 diploma seals are:

- OhioMeansJobs Readiness Seal (State-Defined)
- Industry-Recognized Credential Seal (State-Defined)
- College-Ready Seal (State-Defined)
- Military Seal (State-Defined)
- Citizenship Seal (State-Defined)
- Science Seal (State-Defined)
- Honors Diploma Seal (State-Defined)
- Seal of Biliteracy (State-Defined)
- Technology Seal (State-Defined)
- Community Service Seal (Locally-Defined)
- Fine and Performing Arts Seal (Locally-Defined)
- Student Engagement Seal (Locally-Defined)



### Want to learn more?

Contact your school counselor or  
visit [education.ohio.gov/graduation](https://education.ohio.gov/graduation)





## Ohio High School Honors Diplomas

Students must meet **all but one** of the listed criteria to qualify for an Honors Diploma, and any one of the criteria may be the one that is not met. Each of these criteria go beyond the standard course requirements for a diploma, which can be found [here](#). Students may replace any of the **blue** options with a "Student Strength Demonstration."

Requirements	Academic Honors Diploma	International Baccalaureate Honors Diploma	Career Tech Honors Diploma	STEM Honors Diploma	Arts Honors Diploma	Social Science & Civic Engagement Honors Diploma
1.	4th Math must be greater than Algebra 2	4th Math must be greater than Algebra 2	4th Math must be greater than Algebra 2	4th Math must be greater than Algebra 2	4th Math must be greater than Algebra 2	4th Math must be greater than Algebra 2
2.	1 additional unit of Advanced Science <sup>2</sup>	1 additional unit Advanced Science <sup>2</sup>	Proficient pathway score on WebXams <sup>3</sup>	1 additional unit Advanced Science <sup>2</sup>	4 units fine arts	2 additional units Social Studies
3.	1 additional unit of Social Studies	1 additional unit Social Studies	4 units of Career-Tech Courses	2 units of additional STEM Courses as electives	Electives - 2 Units of Fine Arts (may overlap with general 4 units)	Meet the requirements to earn the Citizenship Seal
4.	3 sequential units of one world language, or no less than 2 sequential units of two world languages studied	3 sequential units of one world language, or no less than 2 sequential units of two world languages studied	2 units of one world language	3 sequential units of one world language, or no less than 2 sequential units of two world languages studied	3 sequential units of one world language, or no less than 2 sequential units of two world languages studied	3 sequential units of one world language, or no less than 2 sequential units of two world languages studied
5.	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale
6.	27 ACT/1280 SAT <sup>6</sup>	27 ACT/1280 SAT <sup>6</sup>	27 ACT/1280 SAT <sup>6</sup> / WorkKeys <sup>5</sup>	27 ACT/1280 SAT <sup>6</sup>	27 ACT/1280 SAT <sup>6</sup>	27 ACT/1280 SAT <sup>6</sup>
7.	Earn 2 additional diploma seals, *not including the Honors Diploma Seal	Meet requirements to earn the Seal of Biliteracy	Meet the requirements to earn the Industry-Recognized Credential Seal or Technology Seal	Meet the requirements to earn the Industry-Recognized Credential Seal or Technology Seal	Meet the requirements to earn the Fine Arts Seal	Meet the requirements to earn the Community Service Seal
8.	Meet requirements of one of the Experiential Learning options <sup>4</sup>	Meet requirements of one of the Experiential Learning options <sup>4</sup>	Meet requirements of one of the Experiential Learning options <sup>4</sup>	Meet requirements of one of the Experiential Learning options <sup>4</sup>	Meet requirements of one of the Experiential Learning options <sup>4</sup>	Meet requirements of one of the Experiential Learning options <sup>4</sup>
Substitution	Students may replace one of the blue options with a "Student Strength Demonstration" <sup>1</sup>	Students may replace one of the blue options with a "Student Strength Demonstration" <sup>1</sup>	Students may replace one of the blue options with a "Student Strength Demonstration" <sup>1</sup>	Students may replace one of the blue options with a "Student Strength Demonstration" <sup>1</sup>	Students may replace one of the blue options with a "Student Strength Demonstration" <sup>1</sup>	Students may replace one of the blue options with a "Student Strength Demonstration" <sup>1</sup>

Students may replace **one** of the options in "Blue" (options 4, 5, or 6) with a "Student Strength Demonstration"<sup>1</sup>

## COLLEGE CREDIT PLUS

Governor Kasich signed H.B. 487 into law in June 2014, replacing the Post-Secondary Enrollment Options program and all alternative dual enrollment programs previously governed by state law. Enrollment for CCP is open to students in grades 7-12. Each college will have their own entrance requirements. The CCP program is operational beginning the 2015-16 school year.

Tuition and textbooks are free.

CCP students may attend classes at Norwayne or attend classes on the college/university campus.

Interested students are required to have an **"intent to participate"** form on file in the guidance office by April 1<sup>st</sup>.

### COLLEGE CREDIT PLUS (CCP) GENERAL EDUCATION PATHWAYS

**\*Using college courses offered at Norwayne through North Central State College, this represents a sample pathway towards any general college degree. These courses are guaranteed to transfer under the Ohio Transfer Module (applies to any degree). This is just a sample and there are numerous courses that could apply to this pathway.**

#### 15-CREDIT PATHWAY

Course	Course Title	Semester Credits
ENGL1010	English Composition I	3
ENGL1030	English Composition II	3
HIST1050	Western Civilization I	3
HIST1070	Western Civilization II	3
POLT1010	American Politics and Issues	3
		<hr/> 15 Credits

#### 30-CREDIT PATHWAY

Course	Course Title	Semester Credits
MATH1110	College Algebra	4
MATH1130	Trigonometry	4
CHEM1030	Chemistry	3
ENGL2050	American Literature	3
COMM 1010	Speech	3
		<hr/> 17 Credits

## **SENIOR RECOGNITION**

Graduating seniors are honored with stoles if graduating **Summa Cum Laude** (3.7-4.0 GPA) or **Magna Cum Laude** (3.4- 3.699 GPA)

## **GRADING POLICY AND PROCEDURES**

The school year at Norwayne High School is divided into two semesters. Each semester consists of two nine- week grading periods where student's academic progress is evaluated as follows:

A	95-100	B-	84-85	D+	72-74
A-	92-94	C+	82-83	D	67-71
B+	90-91	C	77-81	D-	65-66
B	86-89	C-	75-76	F	0-64

Semester averages are obtained by combining nine-week averages and the semester exam. Each nine-week grade counts 45%, while the semester exam is 10% of the semester average. Final grades are determined by combining the two semester averages.

## **ATHLETIC ELIGIBILITY**

Academic eligibility is governed by Board of Education policy and the rules of the Ohio High School Athletic Association. The student-athlete in the North Central Local School District should always strive for academic excellence.

A student-athlete enrolled in grades 9-12 must pass subjects each grading period that earn a minimum of five (5) credits per year towards graduation. Those credits must, when combined, be a total grade point average of 1.0 on a four-point (4.0) scale. A first semester ninth- grade student, must have passed 75% of those subjects carried the last grading period of the eighth grade year. Those grades must also combine to a 1.0 grade point average.



# High School Course Planning Sheet

9th Courses	Credits	11th Courses	Credits
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<b>Total Credits</b>	_____	<b>Total Credits</b>	_____

10th Courses	Credits	12th Courses	Credits
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<b>Total Credits</b>	_____	<b>Total Credits</b>	_____

\*Please refer to graduation requirements.

# \*Sample Schedule Request Form\*


Last Name \_\_\_\_\_

First Name \_\_\_\_\_

Next Year's Grade Level \_\_\_\_\_

Course #	Course Title
1001	Agriculture, Food and Nat. Resources
1002	Animal and Plant Science
1003	Livestock Selection and Management
1004	Business Mgmt for Ag. and Enviro Systems
1005	Greenhouse Management
1006	Communications and Leadership
1007	Agriscience Research <b>all year, 1st sem, 2nd sem</b>
1010	Global Economics, Cultures and Foods
1011	Mechanical Principles
1013	Wildlife Management <b>fall</b>
1014	Meat Science and Technology <b>spring</b>
1016	Agriculture Communications <b>fall</b>
1018	Agronomic Systems <b>spring</b>
1119	Financial Literacy I <b>fall or spring</b>
1120	Financial Literacy II <b>spring</b>
1125	ACT Prep <b>fall or spring</b>
1321	English 9
1322	English 10
1323	English 11
1324	English 12
ECOMP	English Comp I&II (CCP) (21Rdg, 18 Eng ACT)
1325	American Literature I (CCP) <b>fall</b>
1326	Speech (CCP) <b>fall or spring</b>
1340	Yearbook
1370	Speech <b>fall</b>
1360	Drama/Theater <b>spring</b>
1401	Art I
1403	Drawing <b>fall</b>
1404	Painting <b>spring</b>
1405	Advanced Art <b>fall</b>
1406	Digital Art <b>spring</b>
CERAM	Ceramics I&II (1420, 1430)
CRAFT	Crafting I&II (1460, 1462)
1442	Jazz Band
1480	Band
1490	Choir
1511	Spanish I
1512	Spanish II
1513	Spanish III
1514	Spanish IV
SPAN	Beginning Spanish I and II (CCP)
circle one:	1 study hall or 2 study halls
	*There are 8 periods in the school day. You may not have more than 2 study halls
	<p>* CCP- indicates College Credit Plus class for both high school and college credit.</p> <p>*You MUST complete a college application in order to receive college credit</p> <p>* Please number electives in order of preference (in case your first choice does not fit in your schedule.)</p>

Course #	Course Title
1611	Boys PE
1612	Girls PE
1621	Boys Health & Wellness <b>fall or spring</b>
1622	Girls Health & Wellness <b>fall or spring</b>
1630	First Aid/CPR <b>fall or spring</b>
WTRN	Weight Training (1617, 1618)
	circle one- all year, 1st sem only, 2nd sem only
WALK	Walking for Fitness <b>fall and/or spring</b>
1801	Woodshop Foundations
1802	Advanced Woodshop
1805	Robotics Electronics Programming
1810	Digital Design
1811	Robotics (Battles)
1812	Robotics (Drones)
1911	Algebra
1921	Geometry
1922	Geometry Enriched
1931	Algebra II
1932	Algebra II Enriched
1941	Advanced Math (Integrated Math)
1942	Pre-Calculus
CALG	College Algebra/Trig (CCP) (22 math ACT)
1945	Prob and Statistics <b>fall or spring</b> (CCP)(22 M ACT)
CALC	Calculus I&II (CCP)
2000	Biology
2001	Physical Science
2002	Integrated Science II
2010	Chemistry
CHEM	Intro to Chem/Chemistry (CCP) (22 math ACT)
BIOL	Biology I/Biology II (CCP)(21 R&M, 18 En ACT)
ANAT	Intro to Anat & Physiology/ A&P (CCP)
2020	Physics
2050	Conservation/Ecology <b>spring</b>
2060	Human Anatomy <b>fall</b>
2030	Astronomy <b>fall</b>
2040	Geology <b>spring</b>
2101	US History
2102	World History
2104	American Gov't/Economics
2105	American Nat. Gov't (CCP) <b>fall or spring</b>
2120	Sociology <b>fall</b>
2130	Psychology <b>spring</b>
2140	Conspiracy Theories <b>spring</b>
2150	Military History and Great Battles <b>fall</b>
HIST	American Culture and History I & II (CCP)
WCIV	Western Civilization I & II (CCP)
	<p style="text-align: center;"><b>QR code for scheduling guide</b></p> <div style="text-align: center;">  </div>

# **COURSE DEFINITION AND FEE SCHEDULE FOR 2025-26**

**\*\*Please keep in mind this is only a guide and is subject to change based on enrollment and staffing. \*\***

## **AGRICULTURE EDUCATION**

**(FFA dues are only paid once no matter how many agriculture courses are taken during the year)**

### **1001 Agriculture, Food and Natural Resources**

**Fee: \$15.00 FFA dues + materials**

**Year 1 credit**

**\*Credits will be broken down as follows: 1/2 elective, 1/2 science**

#### **Grade 9-12**

This is the first course in the Agricultural and Environmental Systems career field. It introduces students to the pathways that are offered in the Agricultural and Environmental Systems career field. As such, learners will obtain fundamental knowledge and skills in food science, natural resource management, animal science & management, plant & horticultural science, power technology and biotechnology. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry. **This course is a pre-requisite to all other Agricultural Education Courses.**

### **1002 Animal and Plant Science**

**Fee: \$15.00 FFA dues + materials**

**Year 1 credit**

**\*Credits will be broken down as follows: 1/2 elective, 1/2 science**

#### **Grade 9-12**

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined. **Prerequisite: Agriculture, Food and Natural Resources.**

### **1003 Livestock Selection, Nutrition and Management**

**Fee: \$15.00 FFA dues + materials**

**Year 1 credit**

Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance. **Prerequisite: Animal and Plant Science. Grades 10-12 only**

### **1004 Business Management for Agricultural and Environmental Systems**

**Fee: \$15.00 FFA dues + materials**

**Year 1 credit**

**\*This is an elective credit, not a science credit toward graduation**

**\*This has the option to be a Capstone class (supervised early release)**

Students will examine elements of business, identify organizational structures and identify and apply management skills. Learners will develop business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Learners will practice customer sales techniques and apply concepts of ethics and professionalism while understanding related business regulations.

**Prerequisite: 11<sup>th</sup> or 12<sup>th</sup> graders only**

### **1005 Greenhouse Management**

**Fee: \$15.00**

**Year 1 credit**

**\*This is an elective credit, not a science credit toward graduation**

Students will learn the operational practices needed for the successful growth of nursery stock and/or greenhouse plants. They will learn essential greenhouse practices including water and fertilizer distribution, lighting, ventilation and temperature control. Students will learn pest and disease identification and control along with bio-security practices. Students will demonstrate knowledge of propagation methods, plant health, nutrition, and growth stimulation. Throughout this course, business and employability skills will be emphasized.

**Prerequisite: Must be 11<sup>th</sup> or 12<sup>th</sup> grade.**

**1006 Communications and Leadership****Fee: \$15.00 FFA dues + materials****Year 1 credit****\*This is an elective credit, not a science credit toward graduation**

Students will analyze attributes and capabilities of those in leadership positions and develop their communication and leadership skills in authentic situations. The course prepares students to apply journalistic, communication and broadcasting principles to the development, production, and transmittal of agricultural and environmental systems information.

**Prerequisite: must be an FFA officer with teacher approval****1007 Agriscience Research****Semester ½ credit**

Apply your class knowledge to the laboratory setting through creating and conducting an agriscience fair project. Students will use this time to set up their project, collaborate with industry professionals, and use the agriscience lab to conduct their research. Additionally, students will have one-on-one help from a teacher to conduct their experiments. Students are required to present their research in the District 1 FFA and Ohio FFA agriscience fairs, which are both outside of the school day. Can take for just the semester or full year.

**Co-requisite: Must be enrolled in a year-long ag. class. 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grade only****1010 Global Economics, Cultures, and Foods****Year 1 credit**

Students will examine economic principles related to culture, food, and environmental practices along with the operation and use of exporting/importing practices and business literacy. Throughout the course, students will become familiar with the causes and consequences of economic growth, globalization, and cultural development. Topics of the course could include: food production, sales & marketing, global cultures, and business literacy & financial management on a global scale.

\*By enrolling in this course, students are agreeing to participate and fundraise for an international trip during the Spring Break of their senior year. **\*Juniors only**

**1011 MECHANICAL PRINCIPLES****Fee: \$15.00 FFA dues + materials****Year 1 credit**

Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identify, diagnose and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills.

**Prerequisite: Agriculture, Food and Natural Resources. Grade 10-12.****1013 Wildlife Management****Semester ½ credit**

This class is meant to stimulate interest and to promote instruction in the areas of fish, nature, and wildlife management, as well as to provide recognition for those who have demonstrated skills and competencies as a result of natural resources instruction.

**Co-requisite: Must be enrolled in a year-long FFA course.****1014 Meat Science and Technology****Semester ½ credit**

Students will apply food chemistry and microbiology to processing, preservation, packaging, storage and marketing of meat products. Students will design and implement a quality assurance program that meets legal compliance and demonstrates knowledge of safe operation and maintenance of equipment and facilities. Students will evaluate carcass composition, assign quality grades, and examine valued- added products. Throughout the course, students will demonstrate customer service and sales techniques while understanding the scope and importance of business and safety regulations. **Co-requisite: Must be enrolled in a year-long FFA course.**

**1016 Agriculture Communications****Semester ½ credit**

Students will explore journalism, marketing, podcasting, public relations, social media, and graphic and web design within the applied context of the agricultural industry. Students will identify current issues affecting the agricultural industry both locally and internationally. Learners will strengthen their writing, communication and design skills.

**Co-requisite: Must be enrolled in a year-long FFA course.**

**1018 Agronomic Systems****Semester 1/2 credit**

Students will apply knowledge and skills required to research, develop, produce and market major agricultural and horticultural crops. Cultural and sustainable production practices will be examined while students apply scientific knowledge of plant development, nutrition and growth regulation. The knowledge and skills needed to manage water, soils, and pests related to agronomic crops will be assessed. Students will employ technological advances, communication, business, and management strategies appropriate for the industry.

**Co-requisite: Must be enrolled in a year-long FFA course.**

**BUSINESS-COMPUTERS**

(Students participating in computer-based classes will be required to complete internet/netbook agreement form to receive credit.)

**1119 FINANCIAL LITERACY I****Semester 1/2 credit**

Ramsey - Foundations in Personal Finance

Financial Literacy I is designed to help students learn and understand how to manage money, build wealth and make good financial decisions. The course will instruct students how to make sound financial decisions to set themselves up for successful financial futures. The unit topics covered in this course will include: Budgeting Basics, Saving Money, Credit and Debt, Financial Services, The Role of Insurance, and Income and Taxes.

**\*\*THIS IS A REQUIRED CLASS FOR STUDENTS GRADUATION IN 2026 AND AFTER\*\***

**1120 FINANCIAL LITERACY II****Semester 1/2 credit**

Ramsey - Foundations in Personal Finance

After learning the fundamentals of personal finance in Financial Literacy I, students can take Financial Literacy II.

Financial Literacy II is designed to help students learn, understand and become aware of important financial decisions and habits that will set them up for a successful financial life after high school. The unit topics covered in this course will include: Consumer Awareness, Career Readiness, College Planning, Housing and Real Estate, Investing and Retirement, and Global Economics. **PREREQUISITE: FINANCIAL LITERACY I**

**1125 ACT TEST PREP****Semester 1/2 credit**

This semester class is designed for 9-12<sup>th</sup> graders to both improve ACT scores for students that have already taken the ACT as well as prepare students that have not taken the ACT.

**ENGLISH****1321 ENGLISH 9****Fee \$30.00****Year****1 credit**

Students will develop and improve writing, speaking, reading and thinking skills. A great amount of emphasis will be given to refining grammar usage and implementing these skills in well-developed paragraphs and multi-paragraph essays. Students will develop analytical and critical thinking skills in reaction to the works of literature and drama studied, and will support opinion in expository writing through the use of inference and primary sources. Effective listening and speaking skills will also be studied.

**1322 ENGLISH 10****Fee \$15.00****Year****1 credit**

Students will develop skill in the use of written and oral language as tools of effective citizenship, self-understanding, and the understanding of other individuals, cultures, and life experiences. Use of analysis/logic in drawing from resource information is emphasized. Students will survey the various genre of literature and learn to define and recognize literary devices. Several novels will be read during the year. Students will explore content, mechanics, style and structure of written communication.

**1323 ENGLISH 11****Fee \$15.00****Year****1 credit**

This course develops skills in all aspects of Language Arts – reading, writing and speaking – through the study of American and other literature. The writing process is emphasized to develop logical and coherent essays. Students will write a variety of essays and responses to literature, as well as produce research work using primary and secondary sources. Emphasis is also placed on the development of critical thinking, reading and analytical skills through discussion of selected writings.



**1324 ENGLISH 12** **Fee \$15.00** **Year** **1 credit**

This class is a survey of major classics in World literature, as well as modern writers, to build a foundation for college-level work. Various genres are studied with emphasis on written analysis and clarification. Students will write a variety of essays and responses to literature, as well as produce research work using primary and secondary sources. Improvement of critical thinking and analytical skills, vocabulary, and oral and written communication are emphasized throughout the course.

**1333 ENGLISH COMPOSITION I (ENGL 1010)** **Semester** **1 credit**

This is a basic course in expository writing and critical reading. Students read a variety of nonfiction works and write summaries, analysis, essays, and a researched argument in response to their reading. Students learn to read actively and accurately and to organize, develop, and revise coherent papers appropriate for a college-educated audience. (3 college semester hours)

**PREREQUISITE: Must meet college entrance req. (ACT- 18 English, 21-Reading)**

**1334 ENGLISH COMPOSTION II (ENGL 1030)** **Semester** **1 credit**

This is a course in argument and research writing. Students read issue-based works and write summaries, responses, and an argument and research paper. Students learn to organize research projects, find and evaluate sources, incorporate ideas and quotations from sources, document their sources in MLA and APA style, analyze and use argumentative strategies and persuasive appeals, and prepare and revise effective, coherent papers. (3 college sem. Hrs)

**PREREQUISITE: English Comp I with C- or better.**

**1325 AMERICAN LITERATURE (ENGL 2050)** **Semester** **1 credit**

American Literature I is a survey course that examines the development of American literature in English from the early colonies through the Civil War. Through the use of selected texts, students will become familiar with key authors and works that represent American literature in English and the multiple voices within it. As a survey course, American Literature I is designed to provide students with a foundational understanding of the historical and cultural conditions that influenced the development and formation of American literature. This course will provide the necessary background for a more in-depth understanding of and appreciation for American literature not covered in the course, and it will prepare students for more advanced study of literature in general (3 semester hours)

**PREREQUISITE: ENGLISH COMP I&II. With C- or better**

**1326 SPEECH (COMM 1010)** **Semester** **1 credit**

This course involves instruction and experience in giving a presentation. Students are taught the principles of speech content and delivery so that they can effectively participate in a variety of practical speaking situations. Presentations will include the informative speech, persuasive speech, visual aid/demonstration speech, impromptu speech, and group presentation.

**PREREQUISITE: MUST MEET COLLEGE ENTRANCE REQUIREMENTS**

## **COMMUNICATIONS**

**1340 YEARBOOK** **Year** **1 credit**

Publications is designed for students with an interest in the areas of layout design, theme development, copy writing and editing, as well as photography and business advertising and sales. Students are required to meet a minimum advertisement sales requirement as part of their grade. (Students participating in computer-based classes will be required to complete internet/netbook agreement form to receive credit.)

**PREREQUISITE: minimum "C" in previous English class, and Teacher recommendation**

**1360 DRAMA/THEATER** **Fee \$11.00** **Semester** **½ credit**

This course is designed for students interested in exploring theater arts and basic acting skills. The various aspects of theater will be surveyed, such as; theater history, setting, lighting, management and design. Students will apply the skills they learn in a one-act presentation at the end of the term. Students interested in enrolling in the course should have a record of mature and responsible group participation.

**1370 SPEECH****Semester 1/2 credit**

The goal of Speech is to survey the various areas of oral communications, such as; expository speaking, oral interpretation, mass media broadcast, acting, group discussion and the interview. Students will investigate "How to present oneself" to the best advantage in a variety of situations applicable to both career and college. Speech is a performance-oriented course, with at least 15 oral presentations given by each student during the semester.

**FINE ARTS****1401 ART I****Fee \$30.00****Year****1 credit**

Art Design I is an introductory course which will enable the student to become visually sensitive to the world in which he/she lives. The course will develop around the basic design principles and elements, which will be the basis of experiences in drawings, paintings, printmaking and sculpture. The student will also be exposed to the work of other artists throughout history and will develop the ability to critically evaluate one's own work as well as the work of others.

**1403 DRAWING****Fee \$25.00****Semester****1/2 credit**

Students will focus on developing fundamental drawing techniques and skills. Students will learn how to apply elements and principles effectively through the use of traditional drawing materials and observation.

**Prerequisite: Art I****1404 PAINTING****Fee \$30.00****Semester****1/2 credit**

Students will explore color theory, composition and design through the use of acrylic and watercolor mediums. Students will practice essential techniques to control elements and principles within painted work.

**Prerequisite: Art I.****1405 ADVANCED ART****Fee \$30.00****Semester****1/2 credit**

Students will further develop their creativity through more independently led projects with a wide variety of materials. Students will learn how to discuss and critique works of art. Students will refine their techniques and explore new approaches to their work through experimentation.

**Prerequisite: Art II/III****1406 DIGITAL ART****Fee \$20.00****Semester****1/2 credit**

Students will be introduced to the fundamentals of drawing with the use of digital tools through various techniques.

**Prerequisite: Art I****1420 CERAMICS I****Fee \$25.00****Semester****1/2 credit**

Students will learn ceramics processes and history and they will work with clay on a regular basis. Students will learn many hand building techniques and create many projects. Students will learn glazing techniques along with other finishes.

**1430 CERAMICS II****Fee \$25.00****Semester****1/2 credit**

Students will learn even more about specific ceramics processes and history and they will work with clay on a regular basis. Students will learn many hand building techniques and create many projects. Students will learn throwing on the wheel and glazing techniques along with other finishes. **Prerequisite: CERAMICS I**

**1460 CRAFTING I****Fee \$25.00****Semester****1/2 credit**

Students will explore elements of design through the use of different craft techniques and methods with a wide variety of materials and inspirations.

**Prerequisite: Art I****1462 CRAFTING II****Fee \$25.00****Semester****1/2 credit**

Students will explore elements of design even deeper and create more elaborate pieces with a wide variety of materials and inspirations.

**Prerequisite: CRAFTING I**

## **MUSIC**

<b>1480 BAND</b>	<b>Fee \$20.00</b>	<b>Year</b>	<b>1 credit</b>
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High School Band is the main performance outlet for instrumental musicians at Norwayne High School. Prerequisite includes at least one-year experience on a woodwind, brass, or percussion instrument. Exceptions can be made to the prerequisite if a conference is scheduled with the band director before schedule finalization. Students have the option of participating in marching band and concert band, or concert band only. Please see the band director for details regarding these options. In addition to a one period per day rehearsal, occasional after school rehearsals are scheduled and required of all members.

<b>1490 CHOIR</b>	<b>Fee \$20.00</b>	<b>Year</b>	<b>1 credit</b>
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No audition is required. The repertoire will cover many types of music literature including classical, contemporary, pop, sacred and secular. Drama and dancing may be used to express the music, when applicable. The choir performs many concerts throughout the year. After school rehearsals may be required.

<b>1442 JAZZ BAND</b>	<b>Fee: TBA</b>	<b>Year</b>	<b>1 credit</b>
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This ensemble is open to students who play any band instrument, drumset, guitar, keyboard or bass. Students will explore jazz styles, improvisation, and ensemble performance while developing advanced musical skills. Styles include swing, Latin, funk, and contemporary jazz.

**Co-requisite: Band**

## **FOREIGN LANGUAGE**

<b>1511 SPANISH I</b>	<b>Year</b>	<b>1 credit</b>
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Spanish I will give the student an introduction to the basic grammatical concepts of the language. This course places an emphasis on basic communication, which includes reading, writing, speaking and listening to the Spanish language. A very general study of the culture and history of Spain, Central America and Latin America will also be integrated into the course.

**PREREQUISITE: "C: avg. in 8<sup>th</sup>/9<sup>th</sup> grade English or teacher recommendation.**

<b>1512 SPANISH II</b>	<b>Year</b>	<b>1 credit</b>
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The Spanish II student will continue the study of grammar in the Spanish language. A strong emphasis will be placed on verb conjugations and developing writing skills. The student will be required to give oral presentations as confident oral communication is the goal of this course. A more in-depth study of the countries of Spain and Latin America will also be included.

**PREREQUISITE: "C" average in Spanish I or teacher recommendation.**

<b>1513 SPANISH III</b>	<b>Year</b>	<b>1 credit</b>
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Spanish III will include a study of advanced grammatical concepts and structures. There will be a great emphasis on developing reading, writing, speaking and listening skills. A study of Hispanic literature will begin. Current events relating to the Hispanic World will be discussed regularly, as well as a study of important historic events and figures.

**Prerequisite: "C" average in Spanish II or teacher recommendation.**

<b>1514 SPANISH IV</b>	<b>Year</b>	<b>1 credit</b>
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The study of advanced grammar will continue in the level four Spanish class. The focus of the course will be reading literature from Spain and Latin America. An in-depth study of Spanish, as well as Hispanic art, history and culture will occur. The objective of Spanish IV is to have each student reach his or her highest possible level of fluency.

**Prerequisite: "C" average in Spanish III or teacher recommendation.**

<b>1515 BEGINNING SPANISH I (SPAN 1010)</b>	<b>Semester</b>	<b>1 credit</b>
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This course develops basic speaking, listening, writing, and reading skills. The goal is for students to achieve a Novice Mid-level of proficiency across all the aforementioned skills. At this level, students will be able to engage in simple interpersonal exchanges. They will also be able to present and understand information about themselves and their immediate surroundings using words, phrases, and

memorized expressions while speaking and listening, reproduce from memory a modest number of words and phrases in context while writing, and identify a number of highly contextualized words and phrases including cognates and borrowed words while reading. Also, students will have an introduction to Hispanic Cultures by examining a variety of topics. This course is not intended for native speakers of Spanish.

**PREREQUISITE: MUST MEET COLLEGE ENTRANCE REQUIREMENTS**

**1516 BEGINNING SPANISH II (SPAN 1020) Semester 1 credit**

SPAN1020 is a continuation of SPAN1010 with more advanced practice in listening, reading, speaking (spoken presentations as well as interpersonal exchanges), and writing with an emphasis on practical Spanish. The course includes an introduction to Hispanic culture on selected topics.

Prerequisite: Two years of high school Spanish or SPAN1010 (C or above). This course is not intended for native speakers of Spanish.

## **HEALTH AND PHYSICAL EDUCATION**

**1611 (boys)/1612(girls) PHYSICAL EDUCATION 9 Year ½ credit**

The 9<sup>th</sup> grade Physical Education class will continue to improve skills, knowledge of rules, and strategies of the team and individual activities that were introduced in elementary and middle school. The students will earn new skills and strategies by participating in new activities. There is a strong emphasis placed on fitness, conditioning, and the importance of lifetime activities and an active lifestyle. Tennis shoes are required. This class fulfills the Physical Education requirement for graduation.

**1621(boys)/1622(girls) HEALTH & FITNESS Year ½ credit**

The fitness portion of this class stresses the importance of finding activities that will interest the students throughout their lifetime. Since the face of Health is changing daily with new advances in medicine, psychology, infectious disease prevention/treatment, and lifestyle disease prevention/treatment, this class gives the students a strong base of knowledge and the ability to access the most current information. Tennis shoes are required. This class fulfills the Health requirement for graduation. **Prerequisite: Physical Education 9.**

**1617 WEIGHT TRAINING Fee: \$15.00 Semester ½ credit**

This course is designed to improve strength, agility and speed while incorporating the information for lifelong fitness such as nutrition. This class will be using Periodization Training to provide constant challenges to the body and muscles. Resistance training will be three days a week, speed/agility/fitness activities will be one day a week and nutrition will be one day. Testing will be done in all aspects such as strength, agility, speed, flexibility and nutrition. **PREREQUISITE: 10<sup>TH</sup>-12<sup>TH</sup> GRADERS ONLY**

**1630 FIRST AID/CPR Fee: \$15.00 Semester ½ credit**

The First Aid/CPR/AED course is to help participants recognize and respond appropriately to cardiac, breathing and first aid emergencies to know to give immediate care to a suddenly injured or ill person until more advanced medical personnel arrive and take over.

**1750 Walking For Fitness Semester ½ credit**

Walking for Fitness is designed to stress the importance of cardiovascular, muscular, and mental fitness development for maintaining a healthy lifestyle daily walking. The course will help students acquire the knowledge, skills, and attitudes necessary for physical fitness through participation in a carefully monitored walking program. Students will also learn about incorporating accessories and technology into their everyday walking.

## **INDUSTRIAL TECHNOLOGY**

**1801 WOODSHOP FOUNDATIONS Fee \$40.00 + cost of materials Year 1 credit**

This course provides a basic background in the area of woods. Limited hand woodworking tools, portable power tools and industrial machines will be used to produce various projects. Prerequisite: 10th- 12th graders. **(9th graders need teacher signature)**

**1802 ADVANCED WOODSHOP      Fee \$40.00+cost of materials      Year 1 credit**

This course is a continuation of Woodshop Foundations. A wood furniture project is designed, constructed and finished, with the use of traditional woodworking tools as well as CNC & Laser Engravers.

**Prerequisite: WOODSHOP FOUNDATIONS**

**1805 ROBOTICS, ELECTRONICS, PROGRAMMING (REP) Fee \$20.00      Year 1 credit**

We will explore using sensors and gadgets to allow the Arduino microcontroller to sense and influence the world around us. Learning Electronics and Programming to build traffic signals, displays, weather stations, robotics, ultrasonic measuring, security systems and autonomous vehicles. Also involved to a lesser degree, the use of 3D printing and laser cutter.

**Prerequisite: Algebra and/or teacher recommendation**

**1810 DIGITAL DESIGN      Fee \$20.00+cost of materials      Year 1 credit**

This course provides a basic background using a CNC (Computer Numerical Controlled) router primarily for machining wood. It includes the study of material preparation using woodworking equipment for the purpose of designing and making plaques, signage etc. Also, the use of a laser engraver will be investigated for engraving various types of materials.

**Prerequisite: Algebra and/or teacher recommendation**

**1811 ROBOTICS (Battles) Fee \$40.00      Year 1 credit**

The class is designed around robotics competitions where students can develop the creativity, engineering, problem solving, and leadership skills they will need in the world of tomorrow. Students will first go through a brief training course on robotics foundations and coding. Students will then begin competing in various competitions for the remainder of the course.

**Prerequisite: Algebra and/or teacher recommendation**

**1812 ROBOTICS (Drones)      Fee \$40.00      Year 1 credit**

This class is designed around two drone types, code drones and racing drones. Students will learn how to fly drones based on code blocks as well as VR headsets. Students will also be expected to create a team and develop a team display, team video, and CAD design their own parts for their drones. Teams will then be able to compete with other pilots and local teams in competitions.

**Prerequisite: Algebra and/or teacher recommendation**

## **MATHEMATICS**

**1911 ALGEBRA I      Year 1 credit**

Algebra I will provide the average math student an opportunity to develop computational skills, problem solving techniques and logical reasoning through the use of algebraic concepts, definitions, properties and terminology.

**1921 GEOMETRY      Fee: \$10.00      Year 1 credit**

Geometry is for students that have taken Algebra I rather than Algebra I Enriched. The content is similar to Geometry Enriched, but the pace is slower and with less emphasis on proofs. **Prerequisite: Algebra I.**

**1922 GEOMETRY ENRICHED      Fee \$10.00      Year 1 credit**

In this course, plane Euclidean geometry is studied in a formal way. Beginning with a number of postulates and definitions, the students will develop, prove and use various theorems concerning this mathematical system. This is where students generally learn to write formal proofs. The properties of lines, angles, polygons and circles are studied, along with the concept of similarity and congruence. An introduction to the basic concepts of coordinate geometry is presented. The formulas for area and volume are developed and used.

**Prerequisite: Algebra I and teacher recommendation**

**1931 ALGEBRA II      Year 1 credit**

Algebra II is the next course in the sequence for students that have taken Algebra I and Geometry. The content is similar to Algebra II Enriched, but the pace is slower. More time is spent on practice and review. **Prerequisite: Algebra I and Geometry.**



**1932 ALGEBRA II ENRICHED****Year 1 credit**

Algebra II Enriched is an extension of Algebra I Enriched. In additions to the new topics introduced, many concepts and skills taught in Algebra I Enriched are reinforced and studied in greater depth. Algebra II is concerned mainly with the real number system, although an introduction to complex numbers is presented. Polynomials, factoring of polynomials and operations on polynomials are thoroughly studied. Systems of relations and functions and their solutions are studied. Finally, the basic concepts of Trigonometry are presented.

**Prerequisite: Algebra I, Geometry and teacher recommendation**

**1941 ADVANCED MATH****Year 1 credit**

This course is intended for junior and senior college bound students who plan to major in a non-mathematics field. This course will include problem solving with Algebra II, statistics and trigonometric based problems.

**Prerequisite: Algebra II**

**1942 PRE-CALCULUS****Year 1 credit**

Advanced Math is a preparation class for college mathematics. A review of the real and complex number system is presented with an introduction to mathematical induction. Much of the course is devoted to the study of functions. Included are general function theory and a study of specific function types such as polynomial functions, circular and trigonometric functions and logarithmic and exponential functions. The remainder of the course deals with sequences, series and limits. **Prerequisite: Algebra II.**

**1943 COLLEGE ALGEBRA (MATH 1110)****Semester 1 credit**

A study of: 1) polynomial operations, rational expressions, exponents, radicals; 2) linear and quadratic equations, inequalities, absolute value applications and their graphs; 3) graphs of elementary functions and non-functions including inverse functions, combining functions, and translating and transforming functions; 4) study of polynomial functions including the Fundamental Theorem of Algebra, zeroes of polynomials, rational functions, partial fractions; 5) exponential and logarithmic functions including graphs and applications; 6) Gauss-Jordan elimination and Cramer's Rule. (4 college semester hours)

**PREREQUISITE: Must meet college entrance requirements (22-Math ACT)**

**1944 TRIGONOMETRY (MATH 1130)****Semester 1 credit**

This course includes the study of trigonometric functions and inverse trigonometric functions and their graphs; solutions of right and oblique triangles and their applications; solutions of trigonometric equations and inequalities; the use of identities, vectors, and complex numbers; and solutions of polar equations and parametric equations. Students must supply a graphing calculator. Successful completion of MATH1110 with a grade of C- or better or a COMPASS College Algebra score of 46 or higher or ACT Math score of 26 or higher required. (4 college sem. Hrs.)

**PREREQUISITE: COLLEGE ALGEBRA Math 1110 OR 26- Math ACT**

**1945 STATISTICS (STAT 1010)****Semester 1 credit**

This course provides the student with an overview of probability and statistics. Probability terminology, concepts and rules are emphasized in solving probability problems. Descriptive statistics, including measures of central tendency and dispersion, charts, tables and diagrams are used to summarize data. The student is introduced to the binomial, Poisson, hyper-geometric, normal and t-distributions. Confidence intervals, hypothesis testing, correlation, and linear regression are used to make conclusions concerning population parameters from sample data.

**PREREQUISITE: Must meet college entrance requirements (22- Math ACT)**

**1952 CALCULUS I (MATH 1150)****Semester 1 credit**

A study of analytic geometry, limits, continuity, the derivative, basic differentiation rules, rates of change, the product and quotient rules, higher-order derivatives, the chain rule, implicit differentiation, related rates, extrema on an interval, Rolle's Theorem and the Mean Value Theorem. Function analysis includes increasing and decreasing functions and the first derivative test, concavity and the second derivative test, limits at infinity and curve sketching. Concluding topics include anti-derivatives, indefinite and definite integrals, the Fundamental Theorem of Calculus, and integration by substitution. Applications include optimization problems, Newton's method, differentials, and areas of planar regions. Successful completion of MATH-1051 or MATH1130 with a grade of C- or better or COMPASS Trigonometry score of 46 or better or ACT Math score of 28 or higher required. (5 college semester hours)

**PREREQUISITE: Must meet college entrance requirements MATH 1130**

**1953 CALCULUS II (MATH 1151)****Semester 1 credit**

This course is a continuation of MATH1150 Calculus I. Topics include integration and applications, calculus of exponential and logarithmic functions, hyperbolic functions, methods of integration, integration by parts, indeterminate forms and L'Hôpital's Rule, moments and centers of mass, fluid pressure and force, integration techniques, series including Taylor and Maclaurin, calculus of conics, calculus of parametric equations, and polar forms of conic sections including Kepler's Laws. Successful completion of MATH1150 with a grade of C- or better required. (5 college sem. Hrs.) **PREREQUISITE: CALCULUS I (MATH 1150)**

**SCIENCE****2000 BIOLOGY I****Fee: \$5.00****Year 1 credit**

This course is a comprehensive view of the world of living things from the submicroscopic world to the world outside our windows. Independent research and in-field investigation are required. A 9th grade science class is required.

**2001 PHYSICAL SCIENCE****Fee: \$5.00****Year 1 credit**

Integrated Science is an introductory course which covers physical and space sciences. Topics include safety, science careers, scientific method, atomic structure, matter, chemical reactions, motion, energy, and the universe. This course provides a basic foundation of science skills.

**2002 INTEGRATED SCIENCE II****Fee: \$5.00****Year 1 credit**

This course is for students who have completed Integrated Science and Biology who are not college bound. Topics will include more in-depth coverage of topics from the earth/space, life and physical sciences.

**2007 BIOLOGY I (BIOL 1230)****Semester 1 credit**

This course is an introduction to biology for bioscience majors and students planning to transfer to four year institutions. The course will introduce fundamental concepts of biology including the scientific method, structure and chemical properties of cells. The course will introduce students to biochemical pathways, bioenergetics, and basic concepts of genetics, heredity and homeostasis. Historical contributions and application of biological principles to biotechnology will be discussed. Students will meet three lecture hours and three lab hours per week. (4 college sem. Hours)

**Prerequisite: Must meet college entrance requirements. ACT Reading-21, English-18, Math-22**

**2008 BIOLOGY II (BIOL 1231)****Semester 1 credit**

This course is continuation of BIOL 1230 Biology I. The course will introduce fundamental concepts of biology including evolution, classification, ecosystems, similarities and differences, among plants, animals and microorganisms in form and function. Historical contributions and application of biological principles to biotechnology will be discussed. Students will meet three lecture hours and three lab hours per week. (4 college credits)

**Prerequisite: BIOL 1230**

**2010 CHEMISTRY****Fee: \$10.00****Year 1 credit**

An introduction to the principles of inorganic chemistry. Topics include measurement, scientific method, nature of matter, atomic structure, electron configuration, bonding, periodic table, chemical formulas and reactions, acids, bases, and salts, intermolecular forces, and nuclear chemistry. Laboratory activities will supplement the curriculum. This course is intended for college-bound students.

**Prerequisite: Physical Science and Biology.**

**2011 INTRO TO ANATOMY AND PHYSIOLOGY (BIOL 1710)****Semester 1 credit**

This course is an introductory study of life processes and biological principles. Special reference to the human organism is used in describing the nature of life-sustaining functions. Cellular function and the structure and function of the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems are introduced. Laboratory experiences are designed to supplement the lecture topics and include microscopy, the study of models, specimen dissection, cadaver study and physiological experiments. (OTM approved course in Natural Sciences TMNS) (3 college credits)

**Prerequisite: Must meet college entrance requirements**

**2012 BASIC ANATOMY AND PHYSIOLOGY (BIOL 1730) Semester 1 credit**

This course presents the basic terms and concepts that deal with the structure and processes of the human body. It involves examination of the body as a whole, the cell, and tissues. The basic structure and physiology of the integumentary, skeletal, muscular, nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive, and endocrine systems are presented. Laboratory exercises enhance and support the lecture topics and include microscopy, the study of models, specimen dissection, cadaver study, and physiological experiments. (4 college credits)

**Prerequisite: Must meet college entrance requirements And ACT Reading-21 and English-18**

**2015 INTRODUCTION TO CHEMISTRY (CHEM 1010) Semester 1 credit**

This course is designed as an introductory course in chemistry for those students who have no previous chemistry background. The factor-unit method of problem solving, mathematical operations used in solving chemistry problems, chemical terminology, and basic laws of chemistry are covered. Chemistry applications to allied medicine will be emphasized. Laboratory exercises will enhance and reinforce lecture topics. (HS credit only, but required for CHEM 1030)

**Prerequisite: Must meet college entrance requirements.**

**2016 CHEMISTRY (CHEM 1030) Semester 1 credit**

The course is to give the Allied Health and Nursing student an appreciation and understanding of general inorganic chemistry. Includes atomic and molecular structure, molecular forces, properties and states of matter, naming of chemical compounds, types and behaviors of solutions, types of reactions, acid base chemistry, carefully chosen organic topics with their applications to specific health problems. Laboratory exercises will enhance and reinforce lecture topics. (3 college sem. hours)

**Prerequisite: CHEM 1010 (with a minimum C-) and ACT- Math-22**

**2020 PHYSICS Year 1 credit**

Introductory Physics is intended for the college prep student with a strong math background. Topics include force, motion, work and power, momentum, sound, electromagnetic energy and nuclear energy. Demonstrations and laboratory activities will supplement lectures.

**Prerequisite: Chemistry & "C" or better in Algebra II.**

**2030 ASTRONOMY Fee: \$5.00 Semester ½ credit**

A survey of general topics in astronomy including constellations and celestial coordinates, atmospheric phenomena (auroras or meteors), sun, moon, eclipses, origin and history of planets, star life cycles, galaxy types, star clusters and nebulae, and manned and unmanned space probes. Laboratory activities will supplement the curriculum.

**Prerequisite: Physical Science**

**2040 GEOLOGY Fee: \$5.00 Semester ½ credit**

This course introduces the student to physical and historical aspects of geology including: rock and mineral formation, rock types, plate tectonics, weathering and erosion, glaciation, streams and underground water, geologic time and the fossil records. Laboratory and field activities will supplement lectures. **Prerequisite: Physical Science**

**2050 CONSERVATION/ECOLOGY Fee: \$5.00 Semester ½ credit**

A brief exploration of the history of conservation in both America and worldwide, plus investigations of modern conservation/ecological procedures and practices. Major points of emphasis include forestry, land management, water/air quality, and wildlife management.

**2060 HUMAN ANATOMY Fee: \$10.00 Semester ½ credit**

The various systems of the human body and metabolic functions are covered in a lecture format. Topics covered will include: body framework, heart and circulation, foods and the digestive system, blood chemistry, the excretory system, integumentary, respiration, endocrine function, nerve structure and system, sense organs, the reproductive system and embryonic development. Lab experiences are included and a considerable amount of guided independent research is required.

## **SOCIAL STUDIES**

### **2101 AMERICAN HISTORY**

**Year 1 credit**

This course examines the history of the United States of America from 1920 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

### **2102 WORLD HISTORY**

**Year 1 credit**

This course examines world events from 1600's to 1920. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

### **2104 AMERICAN GOV'T/ECON**

**Year 1 credit**

This class emphasizes the workings of the American government, the fundamental freedoms and the citizens' role in government as well as the American economic system and how it affects us. In addition, this class will cover the topics of financial responsibility/decision making, income and careers, planning and money management, consumerism and investing. **This is a required course for graduation.**

### **2105 AMERICAN NATIONAL GOVERNMENT (POLT 1010)**

**Semester 1 credit**

This course involves an examination of the people, values, institutions, processes, and policies associated with American government. Special emphasis is given to the way in which all of the variables interact to form the dynamic that is American politics. (Previously PS Government) (3 college semester credits)

**Prerequisite: Must meet college entrance requirements**

### **2160 AMERICAN CULTURE AND HISTORY TO 1877 (HIST 1010)**

**Semester 1 credit**

This American Studies course is an introductory survey course covering the development of American politics, law, religion, philosophy, art and literature from 1600 to 1877. The goal of the course is to help students understand the cultural development of the United States especially in relation to its religion, art, philosophy, law, and political system. (3 college semester credits)

**Prerequisite: Must meet college entrance requirements**

### **2170 AMERICAN CULTURE AND HISTORY FROM 1877 (HIST 1030)**

**Semester 1 credit**

This American Studies course is an introductory survey course covering the development of American politics, law, religion, philosophy, art and literature from 1877 to the present. The goal of the course is to help students understand the cultural maturity of the United States especially in relation to its religion, art, philosophy, law, and political system. (3 college semester credits)

**PREREQUISITE: Must meet college entrance requirements**

### **2180 WESTERN CIVILIZATION I (HIST 1050)**

**Semester 1 credit**

This course presents an overview of European civilization from antiquity to about the year 1600, stressing the chief political, social, cultural, and religious developments within this span of time. (3 college semester credits)

**Prerequisite: Must meet college entrance requirements.**

### **2181 WESTERN CIVILIZATION II (HIST 1070)**

**Semester 1 credit**

This course presents an overview of European civilization from around 1500 to the present, stressing the chief political, social, cultural, and religious developments within this span of time. (3 college semester credits)

**Prerequisite: Must meet college entrance requirements**

**2120 SOCIOLOGY****Semester 1/2 credit**

Sociology explores the way peoples interact, focusing on relationships within groups, social institutions and organizations. Written work and discussion will be used to study social problems and issues of our time.

**2130 PSYCHOLOGY****Semester 1/2 credit**

Psychology is defined as the scientific study of the mind and behavior. In a high school psychology course, students are introduced to the scientific method and the core ideas and theories of psychology. As a result, students gain an understanding of the complexities and diversity of human thought and behavior.

**2140 CONSPIRACY THEORIES****Semester 1/2 credit**

This course focuses on what is a conspiracy. How do historical events get classified as a "conspiracy?" How do they gain traction within a society's popular culture? What is their appeal to society? What do people find so attractive about conspiracy theories? How did conspiracy theories spread before the advent of the internet, social media and cable television? Can they be disproven? Do they serve political purposes? The course will also focus on ancient conspiracies, the Nazca Lines, the Pyramids, Cesar's assassination, the Knights Templar. What do today's conspiracy theories have in common with ancient ones? Modern conspiracies such as the Trilateral commission, the Bilderberg's, the Illuminati, the Moon landing, JFK and RFK assassinations, January 6, COVID origins, Global Warming and vaccinations.

**2150 MILITARY HISTORY AND GREAT BATTLES****Semester 1/2 credit**

This course is an intensive study into the evolution of military doctrine and classic military engagements throughout Western Civilization. The essential subjects of military history that study the decision making processes of the belligerent, and the society's willingness and ability to economically support war. The strategic, operational and tactical methods used by the armed forces to achieve goals, and how these have changed throughout history. The course will focus on six classic military engagements: The Battles of Zama (202 B.C.), Tours (700), Constantinople (1453), Blenheim (1704), Waterloo (1815) and Stalingrad (1942-43). The cause and effect of these battles and their ramifications on history will be studied. Most importantly the question of "What if?" the other side had won will be explored in great detail.

**3000 WORK STUDY**

**Students participating in work study will be required to complete the career readiness pre-apprenticeship curriculum as well as submit work hours on a weekly basis.**

**\*per OHSA- work study can only count for 2 of the required 5 eligibility credits.**

Contact Information:

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<https://www.norwaynelocal.k12.oh.us/Guidance.aspx>