

## **SCHEDULING PROCEDURES**

### **Please read carefully**

After students have returned their course request sheets, the administration makes the master schedule and assigns the number of classes and teachers. Final decisions on course availability depend on the enrollment figures gathered from the individual requests. For the administration to plan adequately for the next year, students must think and plan carefully in this initial stage of the scheduling process.

### **Schedule Changes**

Students who have parent permission may request schedule changes within the first week of a course. Acceptable reasons for a schedule change are

1. computer error
2. not passing a pre-requisite course
3. placed in the wrong course level

### **Withdrawing from a course**

Students who drop a course after the first week will receive a WF (WITHDRAW/FAIL) on their transcript.

### **Repeating a course**

Students who received a C or D in a course may repeat it with a grade change provided the student and his/her parents complete a form with the guidance counselor, which waives the grade and credit earned the first time the course was taken.

## **MINIMUM COURSE REQUIREMENT**

Students are required to carry a minimum of 6 classes per semester. Students may not have more than one study hall per semester.

# GRADUATION REQUIREMENTS

CLASS OF 2022

## COURSE COMPLETION:

<b>4 credits</b>	<b>English</b>	
<b>4 credits</b>	<b>math</b>	(through Alg II)
<b>3 credits</b>	<b>science</b>	(physical, Biology, and 1 advanced)
<b>3 credits</b>	<b>social studies</b>	(world, American, and Gov't.)
<b>½ credit</b>	<b>health</b>	
<b>½ credit</b>	<b>Phys. Ed.</b>	(2 semester courses or Opt-Out with 2 seasons)
<b>6 credits</b>	<b>Electives</b>	
<hr/>		
<b>21 credits</b>	<b>total</b>	
<i>PLUS 2 semesters of fine arts in grades 7-12</i>		

## TESTING:

All students must meet at least one of these requirements:

Accumulate 18 points on seven end-of-course exams: ELA I, ELA II, Algebra I, Geometry, Biology, American History and Government. To ensure students are well-rounded, they must also earn minimum 4 points in ELA and in math, and 6 points across science and social studies.

Earn remediation-free scores on the ACT: English = 18, Reading = 22, Math = 22 or on the SAT: Reading = 450, Writing = 430, Math = 520

Earn a State Board of Education-approved, industry-recognized credential or a state-issued license for practice in a career and achieve a score that demonstrates workforce readiness and employability on a job skills.

# GRADUATION REQUIREMENTS

## CLASSES OF 2023-2025

### 1. COURSE COMPLETION:

<b>4 credits</b>	<b>English</b>	
<b>4 credits</b>	<b>math</b>	(through Alg II)
<b>3 credits</b>	<b>science</b>	(physical, Biology, and 1 advanced)
<b>3 credits</b>	<b>social studies</b>	(world, American, and Gov't.)
<b>½ credit</b>	<b>health</b>	
<b>½ credit</b>	<b>Phys. Ed.</b>	(2 semester courses or Opt-Out with 2 seasons)
<b>6 credits</b>	<b>Electives</b>	
<hr/>		
<b>21 credits</b>	<b>total</b>	
<i>PLUS 2 semesters of fine arts in grades 7-12</i>		

**2. COMPETENCY:** Take six End-of-Course Exams: Algebra I, English II, Geometry, Biology, American History, Government.

***Must score minimum 684 on Algebra I and English II.***

**3. READINESS:** Show readiness for careers/college by earning at least two diploma seals:

- \_\_\_\_\_ **Science Seal (pass BIO EOC)**
- \_\_\_\_\_ **Citizenship Seal (pass Am. History EOC and Government EOC)**
- \_\_\_\_\_ College-ready Seal (earn remediation-free scores on ACT)
- \_\_\_\_\_ Honor's Diploma Seal
- \_\_\_\_\_ Ohio Means Jobs Readiness Seal
- \_\_\_\_\_ Military Enlistment Seal
- \_\_\_\_\_ Seal of Biliteracy (details to come)
- \_\_\_\_\_ Technology Seal (earn a min B in CCP tech. class)
- \_\_\_\_\_ Student Engagement Seal (participate in 1 school-sponsored extra-curricular act.)

## EDUCATIONAL PLANS

### College Prep. Recommendations

The college preparatory program demands high levels of achievement in a rigorous program. Scholastic class rank and grade point average are of great importance in college admission. College admissions can be competitive, and priority is given to the best-qualified applicants. Students who are planning to enter a specific college should check in advance to make sure they are meeting the requirements of that college.

### Summary of Core Courses

4 English  
4 Math  
3 Science  
3 Social Studies

2 Foreign Language\*  
1 Fine Art  
½ Health  
½ Physical Education

} can be  
} completed  
} grades 9-12

#### Freshman

Credit	Subject
1	English I or Enr.
1	Algebra I or Enr.
1	Physical Science or Enr.
1	World Studies
2	Electives

#### Sophomore

Credit	Subject
1	English II or Enr.
1	Geometry or Enr.
1	Biology I or Enr.
1	U.S. Studies
2	Electives

#### Junior

Credit	Subject
1	English III or Enr.
1	Algebra II or Enr.
1	Anat/Phys, Bio II, Chem
	Env. Sci
1	Gov't / Economics
2	Electives

#### Senior

Credit	Subject
1	English IV or Enr.
1	Adv. Math or Transition to College Math
2-3	☆ Additional academic courses recommended
2	Electives

## Career Center Recommendations

The Wayne County Schools Career Center offers students opportunities to learn occupational skills while completing high school. Upon graduation, students are ready for two- or four-year college degree programs, the world of work, or a combination of school and work. Students who elect to attend the career center remain enrolled in and graduate from Triway High School. If all requirements are met, the student receives a diploma as well as a vocational certificate.

Students go to the career center for their junior and senior years. Though fully involved in educational and social activities at the career center, students may continue to be part of their home school activities, such as sports, band, and clubs.

The curriculum is specialized with a focus on laboratory skills and classroom learning related to a selected occupation. A full range of academic classes is part of each program. Academic offerings are available for students planning on college after high school as well as for those seeking immediate employment.

## Summary of Core Courses

2 English  
2 Math  
2 Science

2 Social Studies  
½ Health  
½ Physical Education

### Freshman

Credit	Subject
1	English I
1	Algebra I
1	Physical Science
1	World Studies
½	Health
¼	Phys. Ed.
	} can be taken in grades 9 or 10
1	Elective

### Sophomore

Credit	Subject
1	English II
1	Geometry
1	Biology I
1	U.S. Studies
2	Electives

## OHIO DIPLOMA WITH HONORS

Students who complete a college preparatory curriculum must meet 6 of the 7 criteria listed below.

1. Math – 4 units (Algebra I, II, geometry, and higher)
2. Science – 4 units
3. Social Studies – 4 units
4. Foreign Language – 3 units of one lang. or 2 units each of two languages
5. Fine Arts – 1 unit
6. Cumulative grade point average of 3.5
7. Composite score of 27 on ACT or 1280 on SAT (excluding writing scores)

- **Honors Diplomas for Career-Technical, STEM, Fine Arts, and IB have different criteria. More information can be found at:**

**<http://education.ohio.gov/getattachment/Topics/Ohio-Graduation-Requirements/Graduation-Requirements-2014-2017/Criteria-for-Diploma-with-Honors/Honors-Diploma-Revised-Grid.pdf.aspx>**

## EARLY GRADUATION

1. Students who wish to graduate early must accumulate at least 18 points on their End of Course Exams or pass ELA II and Algebra by the end of their sophomore year **or** have remediation-free scores on either the ACT or SAT.
2. Students must demonstrate the ability of being academically prepared to handle the extra course load by accumulating a minimum of 3.5 cumulative grade point average at the end of their sophomore year.
3. Students who wish to graduate in 3 years must submit a written request prior to the start of their third year. Students who wish to graduate in 3 ½ Years must submit a written request prior to the start of the second semester of their third year.
4. All graduation requirements established by the State of Ohio and the Triway Local Board of Education must be completed.
5. Early graduation of students with physical and mental disabilities that are verified by a doctor will be considered on an individual basis.
6. Diplomas will not be issued to an early graduate until graduation ceremonies are held for the school year completed.

## COLLEGE CREDIT PLUS

College Credit Plus (CCP) allows college-ready, college-admissible students the opportunity to earn college credits while in high school. Courses at the college, as well as college-level courses at THS are included in CCP. Students who participate in CCP earn both high school and college credit for the courses they take.

The guidance department will provide additional information about this program at a mandatory evening meeting for parents and students each year. Interested students should register for the September, October, December, or February ACT the year prior to participation.

CCP Courses at Triway High School:

### English

English Composition I  
English Composition II

### Social Studies

US History Since 1877  
Government & Politics in the United States

### Math

Algebra for Calculus  
Precalculus

### Electives

Introduction to Public Speaking  
Introduction to Psychology

### Science

Natural Science: Biology  
Introduction to General, Organic & Biochemistry I

To take these courses, students must apply and be accepted into the College Credit Plus Program at Wayne College/University of Akron.

Wayne College/University of Akron CCP Admission Criteria:

- 3.0 cumulative GPA
- ACT composite score - 21 or higher
- Meet 1 of 3 college readiness standards on ACT (18-English, 22 Math, 22-Reading)

\*\*\*Test optional for 2021-2022

Students wishing to take CCP classes on a college campus must apply and be admitted to the college. Admission criteria and application deadlines vary by college.

### Important CCP Timeline

November – CCP meetings for parents and student

February – last ACT test date to qualify for CCP

May 1<sup>st</sup> – Intent form due to guidance office

April 15<sup>th</sup> – CCP application deadline for Wayne College/University of Akron

Below is a SAMPLE pathway to earning general education hours toward a bachelor's degree at Wayne College/University of Akron. Students can earn a maximum of 30 CCP hours per year.

FALL

English Composition I (3 hrs.)  
Algebra for Calculus (4 hrs.)  
US History since 1877 (4 hrs.)  
Natural Science: Biology (4 hrs)

SPRING

English Composition II (3 hrs.)  
Introduction to Psychology (3 hrs.)  
Introduction to Public Speaking (3 hrs.)  
Government & Politics in the US (3 hrs)  
Human Diversity (3 hrs)

\*\*\*STUDENTS **DO NOT** HAVE TO CHOOSE FROM THESE CLASSES\*\*\*

## **INTERNATIONAL BACCALAUREATE PROGRAM**

Qualified students participating in the International Baccalaureate Program, housed at Wooster High School, receive an internationally recognized, rigorous curriculum. Students will receive information during their sophomore year. Contact Victoria Birk at [tesc\\_vbirk@tccsa.net](mailto:tesc_vbirk@tccsa.net) with questions.



## ATHLETIC ELIGIBILITY

### **High School (grades 9-12)**

Students must

1. pass 5 classes in the immediately preceding grading period– phys ed does not count toward eligibility.
2. maintain a GPA of 1.0 in the immediately preceding grading period
3. maintain a cumulative GPA of 1.0

Incoming 9<sup>th</sup> grade students' eligibility will be based on passing five eighth grade classes; GPA will be established at the end of the first grading period.

### **NCAA Initial Eligibility (college)**

If a student thinks that he/she may have the opportunity to play NCAA Division I or II athletics at the college level, he/she must be registered with the NCAA and meet the NCAA academic requirements including coursework and ACT/SAT scores. Search "NCAA Initial Eligibility Center" to register and access the initial eligibility requirements. Check the initial eligibility website for Triway's list of eligible core courses.

**It is the responsibility of the student and the parent(s) to investigate eligibility status and complete the application.**

Students and parents are encouraged to begin investigating and planning during the freshmen year of high school. This includes creating a four-year academic plan of courses to be taken. Student should seek initial eligibility no sooner than the end of his/her junior year.



# Career Connections

*Creating a link between learning and future work*

Choose electives that match your career interest.

## Agriculture and Environmental Systems, Pre-vet

- Agriculture Pathway
    - Ag, Food and Natural Resources
    - Animal and Plant Science
    - Business Mgt for Ag and Environmental Systems
    - Mechanical Principals
    - Livestock Selection, Nutrition and Management
    - Agricultural Capstone
    - Animal Anatomy, Physiology, and Health
  - Environmental Sciences & Food Sciences Pathway
    - College Readiness
    - Environmental Science
    - Introduction to Foods
    - Global Foods
    - Advanced Foods
    - Materials Science
  - Pre-Veterinary Pathway
    - College Readiness
    - Biology 1-2
    - Physical Science Enriched
    - Molecular Biology
    - Anatomy and Physiology
    - Introduction to Business
    - Languages
- Applicable WCSCC Program:** Animal Care and Management; Landscape and Turf Management
- Possible Post-Secondary Programs:** Animal Science, Environmental Systems, Food Buyer, Food Inspector, Food Science, Geoscience, Horticulture, Natural Resources, Veterinarian, Water Systems

## Arts and Communication

- Visual Arts and Design Pathway
    - Art I - IV
    - Drawing
    - Graphic Design
    - Ceramics 1 & 2
    - Business Communications
  - Performing Arts Pathway
    - Drama I and II
    - Choir
    - Symphonic Choir
    - Band
- Solo & Ensemble  
○ Speech
- Applicable WCSCC Program:** Graphic Design and Photography OR Interactive Media
- Possible Post-Secondary Programs:** Commercial Design, Media Arts, Performing Arts, Visual Design, Fashion Design and/or Merchandising, Graphic Design, Fashion Marketing

## Construction Technologies

- Construction Pathway
    - Geometry
    - Introduction to Business
    - Business Communications
    - Computer Applications
    - Woods Technology 1-4
    - Drafting
    - Mechanical Drawing
    - Electricity
    - Mechanical Principals
- Speech  
○ Personal Financial Mgt.
- Applicable WCSCC Program:** Buildings and Grounds, Carpentry and Construction, Powerline
- Possible Post-Secondary Programs:** Electrical Certification, HVAC Certification, Heavy Equipment Operator Certification, Construction Management Degree, Telecommunications Certificate

## Education & Training

- Languages
  - Enriched English 1-4
  - College Readiness
  - Speech
  - Computer Applications
  - Child Care and Development
  - Intro to Psychology
- Psychology 2  
○ Personal Wellness
- Applicable WCSCC Program:** Early Childhood Education
- Possible Post-Secondary Programs:** Administration, Education, Teacher's Assistant Certificate, Intervention Specialist

## Engineering and Science Technologies

- Engineering Pathway
    - College Readiness
    - Computer Applications
    - Enriched Mathematics Track
    - Enriched Sciences
    - Physics
    - Drafting
    - Mechanical Drawing
- Metalworking and Welding  
○ Advanced Structural Engineering  
○ Into to Eng. Design  
○ Computer Integrated Manufacturing  
○ Materials Science and Engineering

**Applicable WSCC Program:** Electronics and Computer Networking; Engineering Technologies

**Possible Post-Secondary Programs:** Chemical Engineering, Electrical Engineering, Electronics Engineering, Engineering Management, Mechanical Engineering

### **Finance and Entrepreneurship/Business Management**

- Business Pathway
  - College Readiness
  - Advanced math track
  - Computer Applications
  - Current Events
  - Introduction to Business
  - Psychology
  - Business Communications
  - Business Law
  - Business Management
- Marketing
- Accounting and Financial Analysis Pathway
  - Accounting
  - Enriched Mathematics Track

**Applicable WSCC Program:** Business Entrepreneurship  
**Possible Post-Secondary Programs:** Accounting, Banking, Financial Advisor, Financial Analysis, Insurance, Management

### **Health Sciences**

- Health Science Pathway
  - College Readiness
  - Molecular Biology
  - Anatomy
  - Chemistry
- Pre-Med & Nursing Pathway
  - Nutrition and Health
  - Child Care and Child Development
  - Psychology
  - First Aid/CPR and Professional Healthcare
- Biomedical Engineering Pathway
  - Enriched Mathematics Track
  - Physics
  - Mechanical Drawing
- Drafting
- Forensic Biology
- Forensic Chemistry
- IED
- CIM

**Applicable WSCC Program:** Dental Assisting; Exercise Science & Sports Medicine; Medical Assisting; Patient Care Technologies; Practical Nursing

**Possible Post-Secondary Programs:** Pre-Med, Advanced Patient Care, Biomedical Engineering, Biotech, Dental, Exercise Science, Medical Assisting, Nursing, Occupational Therapy, Pharmacy, Physical Therapy, Prosthetics, Radiology, Sports Medicine

### **Hospitality & Tourism**

- Computer Applications
- Language
- Introduction to Business
- Graphic Design
- Hospitality Management Pathway
  - College Readiness
  - Speech
  - Business Law
  - Accounting
  - Business Management
  - Marketing
  - Business Communication
- Culinary Pathway
  - College Readiness OR Own Your Own
  - Chemistry
  - Introduction to Foods
  - Global Foods
  - Advanced Foods
  - Nutrition and Health
  - Personal Wellness

**Applicable WSCC Program:** Culinary; Business Entrepreneurship

**Possible Post-Secondary Programs:** Culinary Arts, Hospitality Management

### **Human Services**

- Computer Applications
- Language
- College Readiness
- Psychology
- Psychology 2
- Speech
- Current Events
- Child Care & Development
- Personal Wellness
- Enriched Mathematics Track (if interested in research)
- Social Work Pathway
  - Introduction to Business
  - Business Law

**Applicable WSCC Program:** Early Childhood Education

**Possible Post-Secondary Programs:** Psychology, Social Work, Non-Profit Administration

### **Information Technologies**

- College Readiness
- Computer Applications
- Languages
- Introduction to Business
- Business Communications
- Video Productions
- Interactive Media Pathway
  - Art 1
  - Graphic Design
  - Enriched English Track
  - Video Productions

- Yearbook
- Speech
- Programming, Coding and Network Support Pathway
  - Enriched Mathematics Track
  - Drafting
  - Electricity

**Applicable WSCC Program:** Electronics and Computer Networking; Interactive Media

**Possible Post-Secondary Programs:** Interactive Media, Network Systems, Programming, Support, Web Development

### Manufacturing Technologies

- Base Manufacturing Pathway
  - Computer Applications
  - Geometry Enriched
  - Physics
  - Woods Technology 1
  - Drafting
  - Mechanical Drawing
  - Electricity
  - CAD
  - Mechanical Principles
  - Intro to Eng. Design
- Manufacturing Management Pathway
  - College Readiness
  - Introduction to Business

- Speech
- Business Communications
- Current Events
- General Psychology
- Languages
- Business Management
- Marketing

**Applicable WSCC Program:** Engineering Technologies; Precision Machining; Welding

**Possible Post-Secondary Programs:** Aerospace, Industrial Engineering, Industrial Technology, Materials Management, Manufacturing Safety, Manufacturing Systems

### Marketing

- Base Pathway
  - Computer Applications
  - College Readiness
  - Introduction to Business
  - Speech
  - Language
  - Enriched English Track
  - Introduction to Psychology
- Marketing Pathway
  - Art 1
  - Principles of Design
  - Business Marketing
  - Yearbook
  - Graphic Design

- Web Design
- Digital Editing

- Sales & Marketing Management Pathway
  - Psychology 2
  - Current Events
  - Business Law

**Applicable WSCC Program:** Business Entrepreneurship; Graphic Design and Photography; Interactive Media

**Possible Post-Secondary Programs:** E-Commerce, Marketing Management, Public Relations, Sales

### Pre-Law, Government and Public Administration

- Base Pathway
  - Enriched English Track
  - College Readiness
  - Computer Applications
  - Current Events
  - Speech
  - Language
  - Introduction to Psychology
  - Introduction to Business
- Pre-Law and Government
  - World Geography
  - Psychology 2

- Business Law

- Public Administration
  - Business Communications
  - Business Management
  - Accounting

**Applicable WSCC Program:** Business Entrepreneurship, Criminal Justice

**Possible Post-Secondary Programs:** Compliance, Pre-Law, Political Science

### Transportation Systems

- Mechanical Field Pathway
  - Computer Applications
  - Physics
  - Woods Technology 1
  - Drafting
  - Mechanical Drawing
  - Electricity
  - Home Maintenance
  - Mechanical Principles
- Freight Operations and Logistics Pathways
  - College Readiness

- Speech
- World Geography
- Current Events
- Languages
- Introduction to Business
- Business Law
- Intro to Eng Design
- Computer Integrated Manufacturing

**Applicable WSCC Program:** Engineering Technologies; Precision Machining; Welding

**Possible Post-Secondary Programs:** Aerospace, Industrial Engineering, Industrial Technology, Materials Management, Manufacturing

## **AGRICULTURAL SCIENCES**

FFA Membership is required for ALL courses. Dues for FFA are REQUIRED and will be \$20 in addition to any class fees. FFA membership will also require FFA meetings throughout the school year. If there are questions at any time during the course selection process, please ask Miss Bowers.

**0910 Ag, Food, and Natural Resources** (010105) – 1.25 Credits- FEE- open to incoming freshmen.

Full year course that includes FFA membership and Supervised Agricultural Experience (SAE) Programs. (.25 elective credit only if SAEs are completed)  
This first course in the career field is an introduction to Agricultural and Environmental Systems. They will examine principles of food science, animal science & management, plant & horticultural science, forestry and environmental sciences, soil science, and power technology. Students will examine the FFA organization and Supervised Agricultural Experience programs. Leadership Development is stressed for student participation in parliamentary procedure, public speaking and Career Development Events (CDE). Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry and career success.

**0915 Animal and Plant Science** (010125) – 1.25 Credits- FEE- open to Sophomores & Juniors  
Full year course that includes FFA membership and Supervised Agricultural Experience (SAE) Programs. (.25 elective credit only if SAEs are completed)

**Prerequisite- Ag, Food, and Natural Resources or approval from instructor.**

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, animal nutrition, reproduction, animal health, 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. Leadership development is stressed for student participation in parliamentary procedure, public speaking and Career Development Events (CDEs).

**0920 Business Management for Agricultural & Environmental Systems** (010115)-1.25

credits-FEE – Open to Juniors & Seniors

Full year course that includes FFA membership and Supervised Agricultural Experience (SAE) Programs. (.25 elective credit only if SAEs are completed)

**Prerequisite- Ag, Food, and Natural Resources OR approval from instructor for juniors or seniors.**

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

This course emphasizes advanced levels of leadership development and training, FFA involvement, and group interaction. Career Development Events (CDEs) are highly encouraged for students to develop their potential in business and career success.

**0925 Livestock Selection, Nutrition and Management** (010920) -1.25 credits-FEE- Open to Juniors & Seniors

Full year course that includes FFA membership and Supervised Agricultural Experience (SAE) Programs. (.25 elective credit only if SAEs are completed)

**Prerequisite- Ag, Food, and Natural Resources OR instructor approval for juniors or seniors.**

Students will identify and apply principles and routine husbandry (care) practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities, animal anatomy and physiology, animal health, animal reproduction and animal genetics. 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. This class will involve individual and group work, as well as hands on learning.

This course emphasizes advanced levels of leadership development and training, FFA involvement, and group interaction. Career Development Events (CDEs) are highly encouraged for students to develop their potential in livestock science and career success.

**0926 Agricultural Capstone** (010190) - Open to Triway FFA Officers ONLY!

Full year course that includes FFA membership and a Supervised Agricultural Experience (SAE) (.25 elective credit only if SAEs are completed)

**Prerequisite- must have completed the officer election process and be elected to an FFA office.**

This capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen Agricultural and Environmental Systems career field pathway. Students will completely plan and coordinate events, assist in the management of the Triway Agricultural Education Program, and be the face of the Triway FFA.

**0935 Mechanical Principles** (010120) -1.25 credit-FEE- open to Sophomores, Juniors or Seniors.

Full year course that includes FFA membership and a Supervised Agricultural Experience (SAE).

Students will engage in mechanical principles utilized in animal and plant production systems. They will learn electrical principles, as well as metallurgy and welding. Topics will cover fabricating metals, sharpening, arc welding, oxyacetylene torches, gas welding, and wiring of basic home use. Course work includes safety in the use of shop equipment and farm machinery as well as safe handling and avoidance of general farm/shop hazards.

**0936 Adv. Mech Prin/Agronomic Systems** (010120) – 1.25 credit-FEE- open to Juniors & Seniors.

Full year course that includes FFA membership and a Supervised Agricultural Experience (SAE).

**Prerequisite: Mechanical Principles**

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 pest related to agronomic crops will be assessed. Students will develop skills to maintain and repair equipment via welding, engine repair, and other means. Students will employ technological advances, communication, business, and management strategies appropriate for the industry.

## **BUSINESS EDUCATION**

### **0610 BUSINESS FOUNDATIONS** – 1 credit

This year long course introduces students to the world of business and helps prepare them for the economic roles of consumer, worker, and citizen. This course includes the following topics: Introduction to Our Economy, Business Structures & Operations, Global Business, Small Business Management, Your Consumer Responsibilities, and Personal Finance Management. These topics are taught through hands on activities, cooperative learning, and real-life projects.

### **0611 RISE UP** – ½ credit

This semester course is a **NRF Foundation** training and credentialing program that provides foundational employability skills to help people land jobs and get promoted in retail and beyond. Students enrolling in this semester course will pursue two of three specialist certifications from the following curriculums:

**Retail Industry Fundamentals** - this introductory coursework will develop workplace readiness skills which includes basic customer service and math skills to conduct sales transactions. They will build an understanding of the retail industry, its impact on the economy and the diverse jobs available. In addition, they will learn best practices for interviewing and exploring career paths.

**Customer Service & Sales** – this is an intermediate course where students will master customer service and sales skills, including understanding the customer life cycle, developing effective strategies to engage customers, assessing customer needs and closing sales. They'll also gain crucial workplace skills that include problem-solving, working in teams, reading customer body language and increasing customer satisfaction and retention.

**Business of Retail: Operations & Profit** – this advance coursework is for students who are interested in advancing a career or need to better understand how a business is run. Students will understand merchandising, marketing, store operations, loss prevention and workplace safety. They will learn math concepts, including determining pricing strategies and calculating profit and discounts. They will also learn best practices for how to plan for a career

### **0614 BUSINESS ETHICS** - ½ credit

Business Ethics is an examination of the functions of the legal system in the business environment. This course includes the study of traditional business law topics and other basic topics applicable to business. A close examination of the intersection between professional ethical decision-making and the legal system as it applies to business. Upon completion, students should be able to demonstrate competence in the fundamental concepts of business law and ethics.



**0617 MARKETING** – ½ credit

This semester long course is a peek into the Marketing career field. Students will obtain fundamental knowledge and skills in marketing communications, marketing management, marketing research, merchandising and professional selling. They will acquire knowledge of marketing strategies, market identification techniques, and employability skills.

**0618 ENTREPRENEURSHIP**- ½ credit

**Prerequisite: Successful completion of Business Foundations**

This half year course focuses on recognizing a business opportunity, starting a business, operating and maintaining a business. Students will be exposed to the development of critical thinking, problem solving and innovation in this course as they will either be a business owner or individuals working in a competitive job market in the future. Students in this course will also be collaborating with students in our STEM courses. This will allow for brainstorming, creativity, and a chance to see a product move from an idea to reality.

**0620 ACCOUNTING I** - ½ credit - FEE

Accounting plays a key role in America. Students who are enrolled in this course will receive training in basic accounting concepts and skills, including: payroll, keeping records and financial statements. Students will learn these concepts based on businesses organized as sole proprietorships, partnerships, and corporations. As a result, students will be able to prepare financial records for individuals and companies.

**0621 ACCOUNTING II** - ½ credit – FEE

**Prerequisite: Successful completion of Accounting I**

Accounting II will provide in-depth instruction on accounting concepts and skills. Students will expand their knowledge of payroll, keeping records as well as evaluating financial information. As a result, students will be able to analyze financial records for individuals and companies.

**0626 LEADERSHIP** - ½ credit

Leadership is designed to introduce the student to the tasks, strategies, and skills of effective leadership. Students will learn basic concepts essential to personal skills development and organizational leadership behavior. Team building, teamwork, and team leading draws information from a wide variety of disciplines to introduce students to the ever important topic of teaming. Students will gain an awareness and understanding of current issues relating to the nature and tasks of collaborative leadership behavior. Within this course, there will be book studies and presentations on these topics.

**0630 BUSINESS TECH** - ½ credit

Business Tech is designed to assist students in developing technological proficiencies in keyboarding skills, basic computer literacy, and the fundamentals of word processing, database management, spreadsheets, presentations, desktop publishing, Internet, and email. Communication and critical thinking skills are reinforced through the use of software applications. Simulations and projects promoting teamwork and leadership skills offer further opportunities for application of knowledge and skills.

## **COMPUTER SCIENCE**

### **0650 DIGITAL EDITING** – 1 credit – FEE - open to freshmen, sophomores, juniors, seniors

The purpose of this class is to build video projects using Adobe Premier. You will learn everything from taking images and video to more advanced production techniques. In addition, you will learn advanced editing techniques using Adobe Creative Suite software. You will study and develop skills in system configuration and language, rough cut editing, editing for effect, match frame editing, printing to video/multimedia or web, and DVD development. A combination of lecture, tutorials, and hands-on experiences are combined to develop these advanced skills. You will have the opportunity to participate in and produce special projects and even coverage for the school. Some camera work will be required, but the main focus will be on editing of images already captured.

Requirements: -be self-motivated to try new things  
-be willing to take responsibility for school equipment  
-be able to purchase a SD card (class 10, 16 GB min) (approx. \$12)

### **0651 DIGITAL MEDIA** – 1 credit – FEE - open to juniors and seniors

The purpose of this class is to learn how to create digital images and videos. The primary responsibility of this class is to use digital images to tell Triway's story. Class will focus on three different themes: going out and filming Triway's activities and turning them into stories, interviewing students, staff, and alumni, and filming and producing daily announcements. You will learn how to use several types of cameras and camcorders, how to frame shots, set up microphones, and find other images that help a story. Also, you will work on writing interview questions and scripts for announcements. Finally, you will learn how to use Adobe Premier to assemble video stories. The intent of this class is to do more filming and less editing.

Requirements: -be willing to be on announcements  
-have an attitude to try new things  
-be available to film activities during and after school  
-be willing to take responsibility for school equipment  
-be able to purchase a SD card (class 10, 16 GB min) (approx. \$12)

### **0652 GenYES**- 1 credit – open to sophomores and juniors

GenYES is a course that prepares powerful teams of Student Technology leaders (STLs) in K-12 schools to work with educators, peers and IT staff to integrate technology in ways that improve student learning. Interested students in grades 10 and 11 must interview and be accepted into the program.

## **ENGLISH LANGUAGE ARTS**

### **0110 ENGLISH I** – 1 credit - Required

This course includes a survey of the various forms of world literature. Short stories, poetry, novels, and dramas are studied for understanding and craftsmanship. The course includes a study of the writing process through various essays and creative writings. Vocabulary and spelling words are studied through weekly assignments. Individual and group help will be given to aid students in preparing for the English II State exam given during the grade 10.

### **0115 ENGLISH I Enriched** - 1 credit - Required

In addition to the curriculum in English I, this advanced course will include an in depth analysis of various texts, advanced grammatical study, and enriched vocabulary study. Individual and group help will be given to aid students in preparing for the English II State exam given during grade 10.

### **0120 ENGLISH II** – 1 credit - Required

This course is a continuation of English I. This class will provide additional help in mastering elements of writing, reading both fiction and non-fiction texts, speaking, and listening. Throughout the duration of this course, students will cover many genres of literature including short stories, poetry, nonfiction, plays, and novels. Larger works include John Knowles' *A Separate Peace* and William Shakespeare's *Julius Caesar*. Studying these works will stimulate the development of advanced thinking, reading, and writing skills as well as higher-level vocabulary. In addition, students will be required to write one major paper or speech every grading period. Every unit covered throughout this course is designed to prepare the students for state-mandated tests and the ACT. Also, grammatical instruction is incorporated into the curriculum through various exercises and Grammar Girl articles on a bi-weekly basis. We end the year with a resume/interview unit to prepare the students to obtain a summer job. Ultimately, the skills developed in this course will help prepare the student for college and/or the workforce.

**0125 ENGLISH II ENRICHED** – 1 credit- Required

In addition to the curriculum in English II, this advanced course is designed to prepare students for college who have already mastered essential reading, writing, speaking, and listening skills. The summer before the student's sophomore year begins, each student will read two summer reading novels (one fiction and one non-fiction). The students will be given a choice of two different fiction titles and two different non-fiction titles. The students must choose one title from each category to read over the summer. Various assignments will accompany the reading of these novels. Failure to complete the required summer reading and accompanying assignments could result in a significant loss of points to start off the first grading period. There will be a strong emphasis placed on the elements of fiction and non-fiction literature as evidenced in short stories/articles, plays, and novels read for in-class and homework assignments. The larger works which are covered in this course include Mitch Albom's *Tuesdays with Morrie*, Emily Brontë's *Wuthering Heights*, and William Shakespeare's *Julius Caesar*. In addition, students will practice narrative writing through an end-of-the-year project entitled "The Book of Wisdom". Students will also practice descriptive, analytical, and expository writing. At least one major writing project will be assigned per grading period. Peer-editing is incorporated as a source for identifying strong and weak writing skills. Every unit covered throughout this course is designed to prepare the students for state-mandated tests as well as future college entrance exams including the ACT. Grammatical instruction is incorporated into the curriculum through various exercises and Grammar Girl articles on a bi-weekly basis. Numerous formal and informal oral projects will be assigned throughout the year for the purpose of developing correct presentation techniques. Ultimately, the skills developed in this course will help prepare the student for college and/or the workforce.

**0130 ENGLISH III** - 1 credit - Required

This course is a continuation of English II. Students will continue studying the writing process, concentrating on sentence structure and paragraph development. A research paper relating to a potential career is required. Grammatical instruction is incorporated into the curriculum with The Elements of Literature Grammar, Usage, and Mechanics workbook. Students will prepare written responses to viewing and reading activities, as well as book reports and comprehensive exams. Emphasis is placed on expanding vocabulary usage, refining expository writing skills, and developing personal writing styles. This course will use the Elements of Literature Fifth Course to specifically study the English language through American authors, theories, history, and ideologies.

**0140 ENGLISH IV** – 1 credit - Required

This course is a continuation of English III. Students in this course will be preparing for college level reading, writing and effective work-related communication skills. Various texts will be examined to view the evolution of the English language. A variety of writers, genres and writing styles will be explored. Students will also implement research techniques to enhance their writing skills. Vocabulary study will be stressed, along with the mastering of grammar, punctuation, usage, and mechanics. Speaking skills will be refined through formal and informal presentations.

**0146 CCP COMP I** – 1 credit (semester)

**Prerequisite:** Acceptance to Wayne College for enrollment in College Credit Plus

English Composition I provides extensive and varied experiences in developing writing skills, with practice in expressive, reflective and analytic forms of writing.

**0147 CCP COMP II** – 1 credit (semester)

**Prerequisite:** Completion of Comp I with a “C” or better

English Composition II develops skills in analyzing and writing persuasive arguments.

**0160 SPEECH I** – ½ credit

Speech I is open to students in grades 9 – 12. Through the use of the textbook Speech: Exploring Communication, handouts, and speech preparation and performances, the class will study the art of effective oral communication. Students will learn proper outlining techniques, plus examine and experiment with various types of introductions and conclusions. Students will gain confidence in a variety of public speaking situations. Skills of intrapersonal and interpersonal communication and group discussion are practiced, along with preparation for and presentation of various types of speeches, including, but not limited to, speeches to inform, to entertain, and to persuade.

**0161 CCP SPEECH** – 1 credit (semester)

**Prerequisite:** Acceptance to Wayne College for enrollment in College Credit Plus

Introduction to Public Speaking looks at principles of communication in speaker-audience, group and informal settings and the application of those principles in speeches, group discussions and other oral and written assignments.

## **FAMILY AND CONSUMER SCIENCES**

All courses enable students to become an FCCLA member for \$2.00 for Local membership or \$13.00/year for National membership. (\$15.00 dues total)

**0710 PRINCIPLES OF FOOD** – (1) - (091205) – ½ credit – FEE – open to sophomores, juniors and seniors

This is an introductory foods and nutrition course for students who have very little or no experience in the kitchen. Basic measuring and kitchen math skills will be introduced, as well as knife skills, recipe reading, kitchen equipment, food safety, sanitation and basic nutrition. Food preparation labs will be included. Students will work in cooperative groups to follow recipes and create food products. Focus is on safety, sanitation and fun.

**0715 GLOBAL FOODS** – (2) - (091210) – ½ credit – FEE – open to sophomores, juniors, and seniors - **Prerequisite: Introduction to Foods/Principles of Food**

In addition to American food, what foods are characteristic of countries such as France, Italy, Mexico, Japan and China? In this class you will learn about availability of food, geographic locations, superstitions, religious beliefs, social activities, etc. that determine what we eat in foreign cultures as well as in the United States. This is an advanced foods course.

**0720 CULINARY FUNDAMENTALS** – (3) - (091220) – ½ credit – FEE – open to sophomores, juniors and seniors - **Prerequisite: Introduction to Foods/Principles of Food**

This is an advanced foods course that will focus on specialized culinary techniques and food preparation. New knowledge about the food service industry, equipment and procedures will also be taught. Food products prepared in group labs will also include: cakes, decorating, pastries, food plating, garnishes and presentation.

**0725 PRINCIPLES OF NUTRITION AND WELLNESS** – (4) - (091225) – ½ credit – FEE - open to sophomores, juniors and seniors - **Prerequisite: Introduction to Foods**

What determines how food affects your body? Make the most of your life and health by understanding sports nutrition. Topics discussed are making healthy food and fitness decisions, weight control techniques, special diets and eating disorders. Discover the choices for life long fitness and health. This is not just for athletes. Labs will include prep of various nutrient-dense foods. This is an advanced food course.

**0730 PERSONAL WELLNESS** (093010) – ½ credit – FEE

This course will provide students to think about themselves as well as beyond themselves, in order to function and contribute to their families, careers and society. Sample topics covered will be: decision-making, goal-setting, self-esteem building, interpersonal relationships and stress management.

**0735 PERSONAL FINANCIAL MANAGEMENT** (091052) – ½ credit – FEE

Learn how to manage your personal resources and life. Topics will include smart money management and smart consumer choices. Students will develop financial plans for individual personal well-being. Throughout the course, students will develop financial literacy skills to provide a basis for career success. Additional topics will include analyzing services from financial institutions, consumer protection, investing, and risk management.

**0740 COLLEGE AND CAREER READINESS** (091402) – ½ credit – FEE – open to juniors and seniors

Will you be attending college or a technical school? The course is designed to help you make career choices and make the most of your available resources. Specific areas covered will include: Financial Aid, Housing, admissions study skills and just about any topic related to college planning and college life. Highly recommended for the junior year, but seniors are also encouraged.

**0750 CHILD DEVELOPMENT** (091025) – ½ credit – FEE - open to sophomores, juniors and seniors

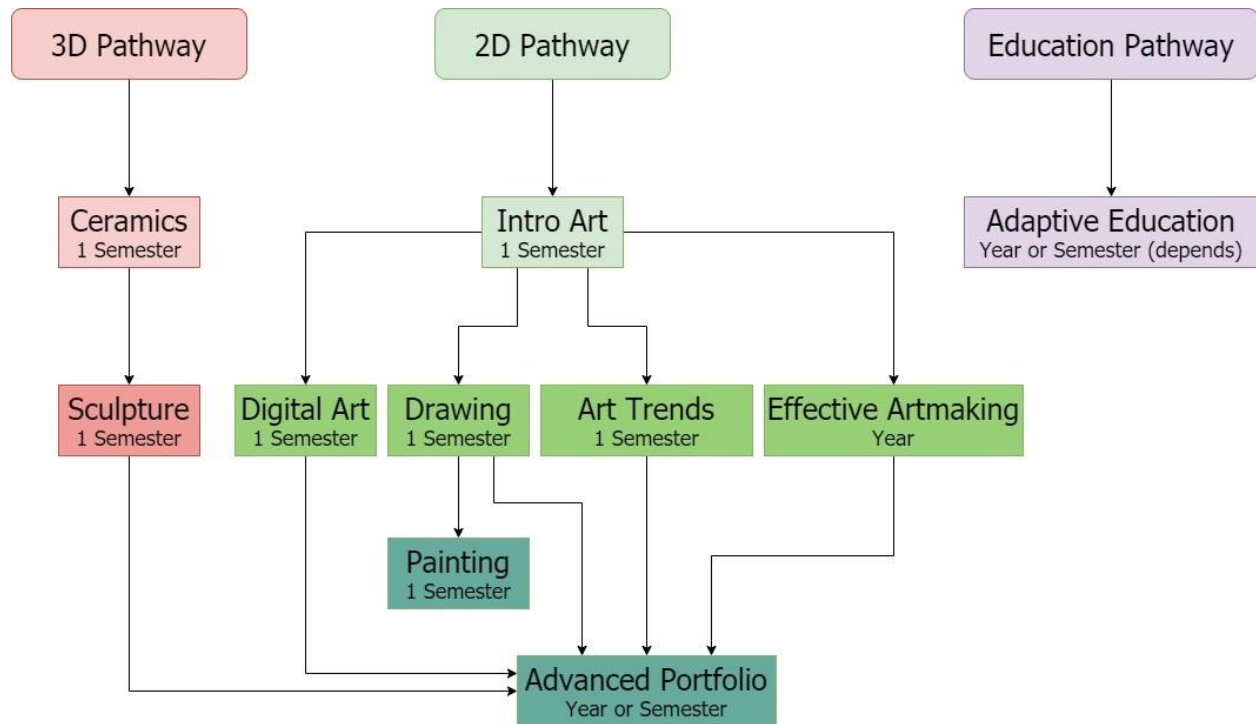
In this course, students will study the principles of child growth, development and behavior. An emphasis will be place on the cognitive development of a child and sensory and motor skills. Additional topics will include childhood diseases, immunization, and theories of development, learning styles and evaluating childcare services. You will be required to participate in an infant simulator activity as part of the final exam.

**0760 TEXTILE DESIGN, CONSTRUCTION AND MAINTENANCE** (091505) – ½ credit – FEE

In this course students will study the visual appearance of fabric and fashion design. Students will identify, analyze and apply production processes and techniques to textiles. Additional topics will include the maintenance and alterations of textiles products, including home interior accessories and garments.



# FINE ARTS



## **0810 INTRO ART** - ½ credit – FEE

Absolutely anyone can do art. Whether you've been doodling your whole life, or you've never touched a paint brush, this class is for you! Get in touch with your creative side and experience a semester of trying out various art techniques in many different mediums. You will learn how to strengthen your artistic skills, wherever you are, by applying basic design strategies and practicing fundamental techniques. There is something for everyone so come and discover your own artistic style.

## **0811 ART TRENDS** - ½ credit - FEE

**Prerequisite:** Intro Art

What is happening in the art world today? What has happened in the art world in the past? What patterns and styles have emerged through the years that are influencing artists everywhere? This class will cover snippets of art trends both historical and current, which will help inspire you in your own artistic pursuits. In this class we will practice making art in many different mediums and styles, all inspired by the many different trends throughout art history.

**0812 EFFECTIVE ART MAKING** - 1 credit - FEE

**Prerequisite: Intro Art**

You've practiced the techniques, you've tried out different mediums, you may have even mastered your style. Now how can you take your art to the next level? This year-long class will teach you how to add meaning to your art. What is your art communicating? Is there a cause that you are trying to promote? How does your imagery provide commentary on our human condition? The best artists in the world have pieces that can be talked about for years. Their art makes you think, question, and feel. Now that you've been introduced to art, it's time to consider the WHY behind the WHAT and learn how to make your art effective.

**0813 DIGITAL ART** - ½ credit - FEE

**Prerequisite: Intro Art**

Apply your artistic style to a digital medium. This class will cover the tools necessary to create artwork in Adobe products like Illustrator and Photoshop. If you have any interest in career fields like Graphic Design, Video Game Design, Animation, Illustration, or Web Development, this class will get you started with the skills you need to pursue your field of interest. We will cover an array of techniques and styles within digital mediums so there is sure to be something to connect with in this class.

**0830 DRAWING** - ½ credit - FEE

**Prerequisite: Intro Art**

This class is for anyone who desires to strengthen their drawing ability. Covering shading, perspective, angles, proportion, composition, and more, this class will teach your eyes to communicate with your hand to reach your goals in art. We will cover a variety of drawing mediums and apply a variety of drawing techniques so you will gain familiarity with all that drawing can be. While this class will focus on realistic drawing goals and techniques, there is room for stylization and interpretation everywhere. Strengthen your technical ability so you can pursue your artistic style in a more successful way.

**0831 PAINTING** - ½ credit - FEE

**Prerequisite: Drawing**

Painting is a skill built by multiple disciplines like shading, layering, color theory, brush technique, and composition. After developing some of these skills in Drawing, you are ready to take it to the next level. We will cover mediums like watercolor and acrylic and you will learn how to control the application of paint no matter what kind you use. Basic technical skills like blending, layering, mixing, and brushwork will enable you to find success in all of your painting endeavors. You will develop your own painting style as we explore all the potential of what painting can be.

**0840 CERAMICS** - ½ credit – FEE

Discover how to mold clay into forms both functional and sculptural. This class will give you the basic introduction to clay techniques such as coiling, pinch-potting, slab creation, and more. Throughout the semester, projects will be fired and glazed to completion. You will get to practice a variety of styles and techniques to grow comfortable enough in clay to let your individual creativity shine through your projects.

**0845 SCULPTURE** - ½ credit - FEE

**Prerequisite: Ceramics**

Take your knowledge of three-dimensional form and push it to the next level. This class will cover advanced ceramic techniques as well as introduce you to even more forms of sculpture. We will learn and practice sculpting techniques like armature, texture, surface design, and space while exploring sculpture mediums like wire, plaster, recycled material, and more. Develop your own style in three-dimensions and explore many new mediums in sculpture.

**0847 ADVANCED PORTFOLIO** - can be 1 credit or ½ credit – FEE

**Prerequisite: At least 2 Art classes in either the 3D or 2D pathway + Teacher Approval (3D: Ceramics and Sculpture) (2D: Art 1 and 1 other Art class after that [Digital, Drawing, Art Trends, Effective Artmaking])**

This class is for advanced students who want the time to explore their own style and interest in art. Completely self-led, you will turn in an artwork every 2-3 weeks. You will get to practice a variety of mediums and subject matter as well as build a portfolio that exhibits technical skill and breadth. You choose what to make, you choose what medium to use, you manage your own time and learning. Guidance will be provided occasionally and when available. This class will push you to truly discover who you are as an artist, as well as enable you to build an impressive portfolio that could be sent to competitions or colleges.

**0849 ADAPTIVE EDUCATION** - can be 1 credit or ½ credit

**Open to grades 10-12 with teacher approval**

This class is perfect for anyone with a budding interest in career fields like teaching, nursing, special education, or therapy. Taking place within one of the existing art classes, you will be paired with 1 or 2 students with specific additional needs. You will be their personal mentor to help accomplish the goals of the class and also work on art skills significant to that student. When situations call for less direct mentoring, feel free to make art alongside of your student. Grades are based on in-class participation and help provided to your student as well as occasional written reflections. None of the art you create in class will be graded so feel free to enjoy the process. Come and discover how all teachers make adaptations for the learning of their students and gain valuable experience in peer mentorship.

**0865 DRAMA I** – ½ credit

Drama I is open to students in grades 9 – 12. The textbook The Stage and the School will be used to study theater terminology and roles as well as the history of theater and its development. This study will be used to enhance the understanding of characterization, basic stage movement, and theater techniques. The class will examine and experience opportunities with pantomime, improvisation, monologues, and duet acting scenes. Written analysis of characters and scenes plus script memorization are important elements of the course.

**0870 DRAMA II** – ½ credit

**Prerequisite: Drama I**

Drama II builds on the skills studied and practiced in Drama I. The Stage and the School will be used to add a further understanding of drama practices. Students will continue to examine the art of believable characterization and will also study the use of lighting, make-up, costumes, set design and directing to create a complete production suitable for audience viewing. Additional activities include writing an original script, producing, directing, acting in and presenting one-act plays for an audience of peers.

**0880 SOLO AND ENSEMBLE** – ¼ credit

**Pre-requisite: permission by the director**

Students who are members of the band or choir may elect to participate in solo and ensemble playing or singing. Music requirements and rehearsal schedules are set by arrangement with the director. Requirements will include participation in the district and state Solo and Ensemble contest.

**0885 CONCERT CHOIR** – 1 credit

Open to all freshman and upperclassman in their first year of high school choir without an audition. The purpose of this choir is to develop proper choral singing techniques, skills, and musical knowledge through varied curriculum and choral literature. Concert choir meets five days a week and performs several times a year including the annual fall, Christmas, and spring concerts. Participation at all performances is mandatory. A student must be a member of Concert or Symphonic Choir in order to be eligible for the Down Stage Show Choir (auditioned group).

**0890 SYMPHONIC CHOIR** – 1 credit

Open to all students in grades 10, 11, and 12 who have completed one year of Concert Choir or by audition only. Auditions for symphonic choir will be open to freshman by request of the choir director only. The purpose of this choir is to further develop proper choral singing techniques, skills, and musical knowledge through varied curriculum and choral literature. Symphonic Choir meets five days a week and performs many times a year including the annual fall, Christmas, and spring concerts. Symphonic choir also performs at the Wayne County Festival of Choirs, OMEA competitions, and other activities. Participation at all performances is mandatory. A student must be a member of Concert or Symphonic Choir in order to be eligible for the Down Stage Show Choir (auditioned group).

**0891 HISTORY OF POP AND ROCK AND ROLL** – ½ credit

This course is open to all students in grades 9 – 12. It will include a basic history of the Pop music genre, as well as, the Rock and Roll music genre. Students will explore key artists and bands in each era that made Pop and Rock and Roll what they are today. There is no pre-requisite needed, and music playing or reading skills are not required.

**0895 SEMESTER 1 BAND** – ½ credit

The first semester of High School Band includes the Titan Marching Band season, and the Holiday concert in December. Rehearsals begin approximately three weeks before school begins in order to be prepared for the first football game. Once school begins, regular rehearsals are during the school day with other practices limited to one day per week after school. Practice records will be required and private lessons are encouraged.

The Titan Marching Band also features **majorettes**, who may or may not be members of the band program. Majorettes are selected through a stringent audition process in the spring before marching season. Selected Majorettes will practice diligently throughout the summer and participate in a summer camp and fundraising. Selected Majorettes who cause problems for the line or for the advisor, may be dismissed from twirling.

Seating will be determined by the director.

**0896 SEMESTER 2 BAND** – ½ credit

The second semester is the Symphonic band season and includes the Band Festival in February, the District and State Large Group Adjudicated Events (AE), the All-Triway concert in April, Graduation, and Memorial Day performances. (In the recent past, Triway bands have not attended Large Group Adjudicated events because our band was too large and therefore did not qualify). Regular rehearsals are during the school day and there may be rehearsals scheduled outside of school hours. Again, practice records will be required and private lessons are encourage.

Student who play band instruments have an opportunity to perform with the Triway Band. This dynamic student group serves our community and school and therefore requires that students demonstrate personal qualities (in addition to strong musicianship) such as excellent character, a service-oriented spirit, and the potential to grow into leadership.

Triway Band Program Three Pillars: Musicianship, Character, and Service

Triway Band Program mission statement: Make music; make a difference.

Students who participate in either or both semester groups are eligible to participate in solo and ensemble contest, jazz band, and pep band. On a NYC trip year (such as 2018-19), the trip takes place in November (during Sem. 1). Students who choose to participate in Semester 2 only on a trip year are eligible for the trip and will sign a letter commitment to their 2<sup>nd</sup> semester course.

## **FOREIGN LANGUAGE**

**NOTES 1:** For first year of a foreign language, students should have at least a “B” average in English.

**NOTES 2:** Students planning to continue to the next level of a foreign language, should have maintained at least a “C” average in the previous level and have the instructor’s approval.

### **0510 SPANISH I** – 1 credit - FEE

Spanish I presents the basic vocabulary, grammar, and pronunciation of the Spanish language. The emphasis is on communication, speaking, understanding, reading and writing. Reinforcing the text are projects and visual aids. Customs and culture are reinforced by means of vocabulary, projects, reports, audio-aids, visual aides, films and Spanish Club which is open to any Spanish student who wishes to join.

### **0515 SPANISH II** – 1 credit - FEE

Spanish II is designed to extend and broaden the material presented in the first year of study. The student learns to use more complex forms of the language in speaking, understanding, reading, and writing with the aid of text, workbooks, DVD’s, and computer web sites. Understanding customs and culture is taught through vocabulary, projects, reports, audio-visual aids, and the Spanish club that is open to all Spanish students and wish to join.

### **0520 SPANISH III** – 1 credit - FEE

In this course, understanding of the basic grammar of the first two years of Spanish is deepened. Finer grammatical structures and much more vocabulary is introduced. Emphasis is on self-expression in reading, writing, speaking and listening comprehension. Spanish/ Latin American Literature and Culture are explored in more depth.

### **0530 FRENCH I** – 1 credit - FEE

French I presents the basic vocabulary, grammar, and pronunciation of the French language. Emphasis is on communication in speaking, reading, listening, and writing. Customs and culture are taught by means of vocabulary, projects, reports, audio-visual aids, outside speakers, and the French Club which is open to any French student who wishes to join.

### **0535 FRENCH II** – 1 credit - FEE

French II is designed to extend and broaden the material presented in the first year of study. The student learns to use more complex forms of the language in speaking, understanding, reading, and writing. Customs and culture are taught through vocabulary, projects, reports, audio visual aids, technology and the French club, which is open to all French students who wish to join.

**0540 FRENCH III** – 1 credit

In this course understanding of the basic grammar from the first two years is strengthened and expanded. Emphasis is on self-expression in reading, writing, listening and speaking comprehension. French literature, history and culture are explored in more depth.



## **INDUSTRIAL TECHNOLOGY**

### **0950 WOODS TECHNOLOGY I** – ½ credit – FEE

This course is the prerequisite course for all other woods classes.

1. An introduction to the real world of applied technology. Basic math and science skills will be applied to help students develop a logical problem solving technique. This will be centered on an individually developed woodworking project.
2. A basic set of shop drawings and a bill of materials will be developed.
3. This will be applied to a hands-on lab project.

### **0951 ADVANCED WOODS TECHNOLOGY** – 1 credit – FEE

**Prerequisite: Wood Tech I**

This course can be taken more than once.

Students will be involved in:

1. An introduction to the real world of applied technology. Basic math and science skills will be applied to help students develop a logical problem solving technique. This will be centered on an individually developed woodworking project.
2. A basic set of shop drawings and a bill of materials will be developed.
3. This will be applied to a hands-on lab project.
4. A daily work journal will be kept.
5. Student aid assignments may be made (to help other students)

### **0970 DRAFTING** – ½ credit – FEE

The course will place emphasis on problem solving skills through drawing problems. Basic principles, methods and procedures in drafting are taught. Students have the use of instruments and equipment on loan from the school. Projects will be drawing problems designed to teach different principles.

### **0975 MECHANICAL DRAWING** – ½ credit – FEE

**Prerequisite: High School Drafting**

This is a concentrated course in drafting, structural drawing and design. An introduction to computer assisted drafting (CAD) may be incorporated with assigned projects.

### **0980 COMPUTER AIDED DRAFTING (CAD)** – ½ credit – FEE

**Prerequisite: High School Drafting**

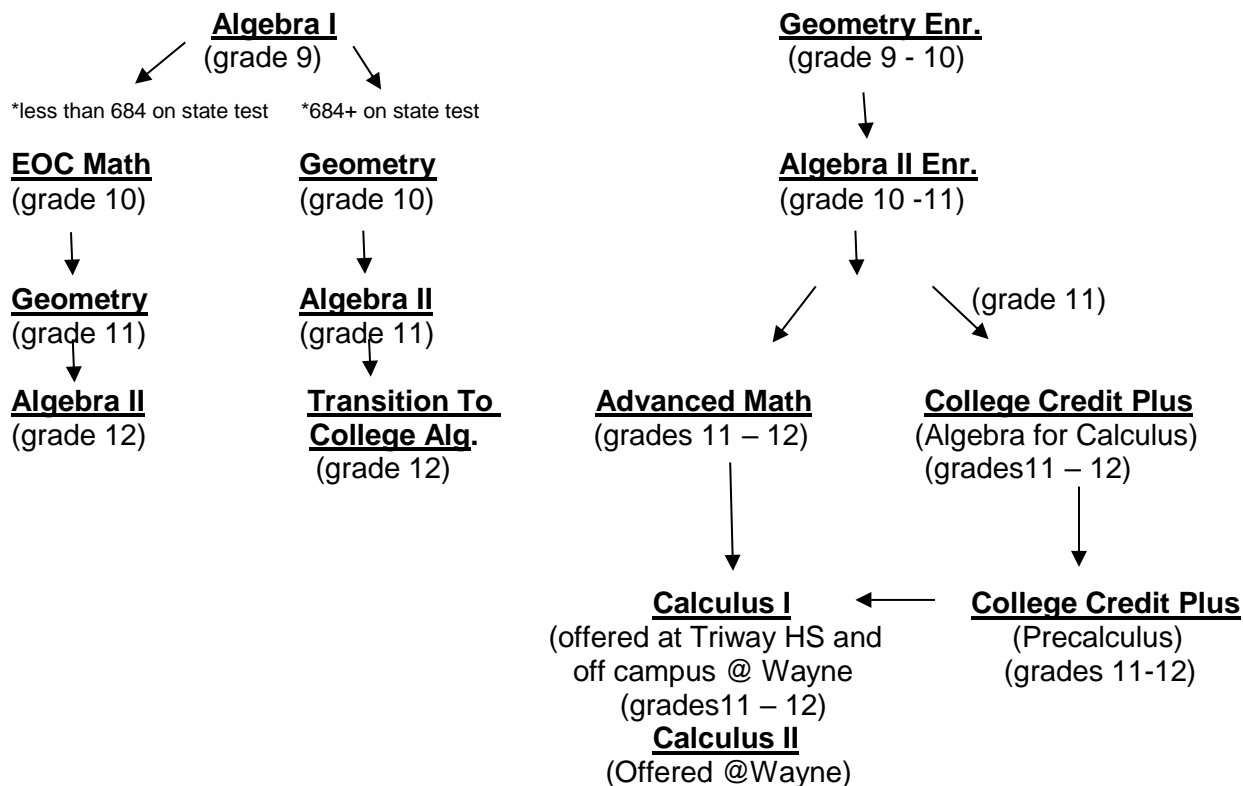
This course will focus on learning to use computer programs to create technical drawings. The main program used will be AutoCAD, but some time will also be spent on Sketch Up. Student's problem solving skills will be challenged through drawing problems created using the programs. High School Drafting is the pre-requisite to this course.

**0985 ELECTRICITY** – ½ credit – FEE

This course includes basic electrical theory, wiring and engineering. Methods for wiring, trouble shooting, and repairing electrical appliances and household wiring are taught. A fee will cover the costs of some commonly used materials. All other costs will be assumed by the student. Notebook required.

# MATHEMATICS

## MATHEMATICS COURSE FLOW CHART



**Students wishing to bump up to the Enriched level should be recommended by teacher and have a 90% or higher average.**

### **0210 ALGEBRA I – 1 credit**

The topics taught in this course include number sense, solving linear equations, and working with powers and exponents. It will also review and expand upon basic geometric concepts, and using algebra to find unknown values. Problem solving strategies will be explored and practiced. A scientific calculator is provided for in-class work.

### **0211 EOC MATH – 1 credit**

This is a full-year review course of Algebra 1 and all topics covered to prepare students to pass the EOC state test for graduation and prepare them for future math courses. This course counts as a math credit for graduation. It is REQUIRED for students who do not show competency (684 score) on the Algebra EOC and is by PLACEMENT ONLY. This course does not meet NCAA requirements for college athletic eligibility.

\*Course path to meet graduation requirements: Algebra I, EOC Math, Geometry, Algebra II

**0220 GEOMETRY** – 1 credit

This course extends the topics from Algebra I. Objectives include constructions, right triangle trigonometry and right triangle theorems as well as the Pythagorean Theorem. Formulas for area and volume of 2 and 3 dimensional figures will be reviewed, and emphasis will be placed on problem solving strategies. A scientific calculator is required provided for in-class work.

**0225 GEOMETRY Enriched** – 1 credit

Geometry is a year long course designed to increase thinking abilities in the area of mathematics while learning geometry concepts. Emphasis on reasoning and logic are stressed. This class relies on strong Enriched Algebra I skills. Topics included are polygons, triangles, circles, area & volume.

**0230 ALGEBRA II** – 1 credit

**Prerequisite – see flow chart**

Algebra II completes all of the basic skills of Algebra I. Multi-variable equations will be studied with an emphasis on using Algebra I skills in real-life application problems. There will be an overview of the applications of linear, absolute-value, quadratic, polynomial, logarithmic, and power functions. Other topics include complex numbers, conic sections, rational expressions, statistics and trigonometry.

**0235 ALGEBRA II ENRICHED** – 1 credit

**Prerequisite – see flow chart**

Algebra II completes all of the basic skills of Algebra I Enriched. Multi-variable equations will be studied with an emphasis on using Algebra I skills in real-life application problems. There will be an in-depth approach to the applications of linear, absolute-value, quadratic, polynomial, logarithmic, and power functions. Other topics include complex numbers, conic sections, rational expressions, statistics, trigonometry and the real-life applications of these topics. The TI-83 graphing calculator will be used extensively in this course.

**0239 TRANSITION TO COLLEGE ALGEBRA** – 1 credit

This course will review and expand upon Algebra and Geometry concepts and is designed to prepare students for college level math and/or provide real-world math skills. This course is geared toward the student who is not pursuing a math-related career. This course does not meet NCAA requirements.

**0240 ADVANCED MATH** – 1 credit

**Prerequisite – see flow chart**

Advanced Mathematics is a pre-calculus course for the above average Algebra II student intending to take college mathematics, calculus, or proficiency out of college mathematics. The course includes an in-depth review of Algebra, focusing on exponential, logarithmic, and trigonometric functions. Students will also solve systems of linear equations by using various matrix methods and be introduced to the concept of limits to prepare students for college mathematics. (Recommended for Algebra II students with a C or higher).

**0241 ALGEBRA FOR CALCULUS** – 1 credit (semester)

**Pre-requisite: Acceptance to Wayne College for enrollment in College Credit Plus**

The focus of the course will be on graphing polynomial, radical, rational, exponential, and logarithmic functions by using transformations of functions and by identifying the domain and range, zeros, multiplicities of zeros, intercepts, vertical asymptotes, horizontal asymptotes, and oblique asymptotes. Other topics include solving linear, absolute-value, and radical equations; solving polynomial and rational inequalities; finding real and complex zeros of polynomial functions; solving exponential and logarithmic equations; finding inverses of one-to-one functions; and solving systems of linear equations.

**0242 CCP PRE-CALCULUS** – 1 credit (semester)

**Prerequisite: Completion of Algebra for Calculus with a “C” or better**

Students will graphically and algebraically analyze exponential, logarithmic, and trigonometric functions, as well as solve equations and real-life application problems involving them. Other required skills and topics include solving systems of linear equations by matrix methods and determinants; recognizing the graphs and manipulating the equations of the standard conic sections; using the Binomial Theorem, and working with sequences and series.

**0245 CALCULUS** – 1 credit

Calculus is designed to be a fourth-year accelerated course and will be an introduction to the fundamental concepts of differential and integral calculus. Topics that will be covered include the analysis and limits of functions, asymptotic behavior, continuity, first and second derivatives, change-of-rate problems, maxima-minima problems, curve sketching, antiderivatives, and integrals. There will be a focus on application problems. Although the TI-83 or TI-84 graphing calculator will be used in class, there will be an emphasis on calculating values without the aid of a graphing calculator. **College credit will not be earned for this course. The prerequisite course is either Advanced Math or College Credit Plus Precalculus.**

## **PHYSICAL EDUCATION & HEALTH**

### **0035 BOYS AND GIRLS PHYSICAL EDUCATION** – ¼ credit – 2 semesters required

Physical Education is a required subject for graduation at Triway High School. Any student planning to attend the career center must complete the physical education requirement before the end of his/her sophomore year.

Students are required to wear gym shoes, athletic socks, shorts or sweat pants and T-shirts, sweatshirts, or a warm-up suit. Each student is responsible for keeping his/her clothes clean and buying a lock for the gym locker.

All enrolled students participate in as many varied activities as possible, depending on the season and class size. These activities will include: walking/running, tennis, softball, volleyball, soccer, croquet, aerobic exercise, table tennis, badminton, speedball, weightlifting, bowling, basketball, flag football, frisbee golf, and variations of kickball.

### **0040 HEALTH** – ½ credit - recommend for freshmen

Health is designed to inform students of the many aspects concerning the human body and environment surrounding it. Topics included are: systems of the body (circulatory, digestive, respiratory), exercise and fitness, nutrition, mental health, drugs, alcohol and tobacco use, disease (causes and treatments), first aid and safety, human sexuality, health care systems, consumerism and health care products, and environmental problems. The students will have hands-on instruction in cardiopulmonary resuscitation (CPR) and in use of an automated external defibrillator (AED).

### **0060 FIRST AID/CPR AND PROFESSIONAL HEALTH CARE** – ½ credit

This course is designed to provide individuals with the knowledge and skills necessary to prevent, recognize, and provide basic care for injuries and sudden illness. Students will learn basic first aid, infant/child/adult CPR, automatic external defibrillator, and injury/illness prevention and care. Students will also receive various opportunities to hear and see (guest speakers) many health care professions in the work force.

## SCIENCE

### SCIENCE COURSE FLOWCHART

9 <sup>th</sup> Grade	Phys. Science	Phys. Science Enriched
10 <sup>th</sup> Grade	Biology I	Biology Enr. Or CCP Bio Chem. Enr. can be taken concurrently with Bio Enr. with instructor permission
11 <sup>th</sup> Grade	Biology II, Env. Science or Anatomy & Physiology	Chemistry Enr., Physics Enr. Anatomy & Physiology and/or CCP Bio
12 <sup>th</sup> Grade	Biology II or Environmental Science	Chemistry Enr., Physics Enr. Anatomy & Physiology, CCP Bio and/or CCP Chem

#### **0310 PHYSICAL SCIENCE** - 1 credit - FEE

This course will continue the Science sequence begun in 7<sup>th</sup> grade and will emphasize the sciences such as chemistry, physics and the universe. The course will emphasize basic scientific thinking and problem solving processes and provide essential basic factual knowledge and experience. Students will engage in laboratory experiences that will help attain the learning goals.

#### **0315 PHYSICAL SCIENCE Enriched** - 1 credit - FEE

The enriched Physical Science course is intended for those students who have demonstrated above average achievement and ability in sciences course in junior high. The student who takes this course should have above average math and thinking skills and will have earned nearly all "A"s in junior high science and math courses. These students should have been recommended by their 8<sup>th</sup> grade science teacher. The course will emphasize basic scientific thinking and problem solving processes and provide essential basic factual knowledge and experience.

#### **0320 BIOLOGY I** – 1 credit- FEE

Students in this course will investigate the composition, diversity, complexity and interconnectedness of life on Earth. Concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. Students will engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications. (ODE, 2011 p. 288)

**0325 BIOLOGY Enriched** – 1 credit - FEE  
**Prerequisite Physical Science Enriched**

Molecular Biology is a broad-spectrum non-lab course for high achieving/high ability students planning to take Chemistry, Physics, and other science courses. It is strongly recommended that students who want to enroll in Molecular Biology have earned at least a “C” in enriched Physical Science or a “B+” in standard Physical Science. If a student is planning to major or minor in a science area in college, they should take this class. Emphasis will be on a study of biological processes and structures within various organisms, including cell physiology, genetics, and heredity. This course will include complete coverage of the standards required for a standardized test.

**0330 BIOLOGY II** – 1 credit – FEE  
**Prerequisite Biology I**

Biology is essentially a continuation of the survey of the life in Biology I. Diversity among the plant and animal kingdom will be continued, emphasizing form and function, as well as topics in evolution, bioethics, animal behavior and heredity. Lab experiences are highlighted by dissections.

**0331 CCP BIOLOGY** – 1 credit (semester)  
**Prerequisite: Acceptance to Wayne College for enrollment in College Credit Plus**

Natural Science: Biology uses laboratory and class instruction to illustrate concepts of living organisms with emphasis on mankind’s position in, and influence on, the environment. This course would fulfill a Natural Science general education requirement. Major biological concepts covered include cell theory, inheritance, evolution by natural selection, biodiversity, and critical thinking applied to biological issues. Lab work is 1/4 of the final grade for this course and will enhance and extend biological concepts of the course.

**0335 ANATOMY & PHYSIOLOGY** – 1 credit – FEE  
**Prerequisite Biology I or Molecular Biology**

Human Anatomy and Physiology comprises a systematic study in which students will examine human anatomy and physical functions. They will analyze descriptive results of abnormal physiology and evaluate clinical consequences. A workable knowledge of medical terminology will be demonstrated. Lab work will include dissections. Students planning on any career in health or medical fields should strongly consider this course. (ODE 2018 p358)



**0340 CHEMISTRY Enriched** – 1 credit – FEE

**Prerequisite: “B” or higher in Algebra I OR completion of Algebra II OR teacher permission**

A strong math background is necessary for success in Chemistry.

Chemistry deals with the structure and composition of matter. It also deals with changes in matter, the processes by which these changes occur, the products formed and the energy changes involved. Chemistry explores a variety of related topics, including: atomic structure, electron arrangement, the periodic law, chemical bonding and composition, the gas laws, acids, bases and salts, acid-base titration and pH, reaction energy and kinetics, chemical equilibrium, the solution process, ionization, and carbon and its compounds. This is a college prep course.

**0341 CCP CHEMISTRY** – 1 credit (semester)

**Prerequisite: Acceptance to Wayne College for enrollment in College Credit Plus Completion of high school chemistry**

\*Teacher recommends THS chemistry before taking CCP\*

Introduction to General, Organic and Biochemistry I uses laboratory and class instruction to introduce: the principles of chemistry and fundamentals of inorganic and biochemistry; structure and chemistry of carbohydrates, lipids, proteins; biochemistry of enzymes, metabolism and radiation. Students will receive 2 grades for this course, one for the lecture component and one for the lab component.

**0345 PHYSICS Enriched** – 1 credit – FEE

**Pre-requisites: “B” or higher in Algebra II Enriched OR teacher permission**

A strong math background is necessary for success in Physics.

Physics is concerned with the relationship between matter and energy. It also deals with energy in its many forms and how energy is converted from one form to another. Topics studied include: measurement, force, motion, work, mechanics, power, heat, sound, light, electricity, nuclear energy. Student laboratory experiments related to topics studied are performed and have mechanics.

**0350 ENVIRONMENTAL SCIENCE** – 1 credit – FEE

**Pre-requisites: Biology I**

Environmental Science is a laboratory-based science class that emphasizes the application of biological, chemical and ecological principles to environmental issues. The course is designed to introduce students to major ecological concepts and the environmental problems that affect the world in which we live, and elaborate on concepts introduced in Biology I including pollution, biodiversity, population dynamics, ecosystems, biogeochemical cycles, climate change, and human impacts on ecosystems.

## **SOCIAL STUDIES**

### **0410 WORLD STUDIES (9<sup>th</sup> GRADE)** – 1 credit

Ninth-grade students continue the chronological study of world history. This study incorporates each of the seven standards. As students study historic eras, they consider the influence of geographic settings, cultural perspectives, economic systems and various forms of government. Students gain a deeper understanding of the role of citizens and continue to develop their command of social studies skills and methods.

### **0415 U.S. STUDIES (10<sup>TH</sup> GRADE)** – 1 credit

Tenth-grade students continue the chronological study of the history of the United States with emphasis on domestic affairs. This study incorporates each of the seven standards. As students study historic eras, they consider the geographic, cultural, economic and governmental changes that have occurred. Students develop a deeper understanding of their role as citizens and continue to expand their command of social studies skills and methods.

### **0420 GOVERNMENT AND ECONOMICS (11<sup>th</sup> GRADE)** - 1 credit

This course is designed to present fifteen major themes that define the structure of American government and characterize the nature of American democracy. These themes are: Growth of Democracy, Federalism, Separation of Powers, Check and Balances, Civil Liberties, Civil Rights, Civic Participation, Civic Responsibility, Comparative Government, Global Perspectives, Constitutional Interpretation, Political Process, Public Policy, Free Enterprises, Cultural Pluralism. Students will learn to recognize these themes, to develop the ability to apply these themes to their study of government, and to understand how these themes interact with one another. The economics portion of this course is designed to be integrated with the study of American government. Students will explore many of the twenty-two basic economic concepts published by the National Council on Economic Education.

### **0421 CCP GOVERNMENT** - 1 credit (semester)

**Prerequisite: Acceptance to Wayne College for enrollment in College Credit Plus**

Examination of the American political system with emphasis on fundamental principles, ideas, institutions and processes of modern government.

### **0425 INTRODUCTION TO PSYCHOLOGY** – ½ credit – open to juniors and seniors (sophomores with permission only)

Introduction to Psychology is a course designed to help guide students through the complicated science of human behavior. Topics that will be covered include: the history of Psychology, fields and careers in Psychology, research and experimental methods in Psychology, the brain and its behavior, abnormal behaviors/mental disorders and social Psychology. During this course students will participate in a variety of activities; independent and group work, research projects, hands on activities, guest speakers, class discussions and debates.

**0426 PSYCHOLOGY II** - ½ credit – open to juniors and seniors (sophomores with permission only) –

**Prerequisite: Introduction to Psychology**

Psychology II will continue to focus on the information learned in Introduction to Psychology as well as exploring other major functions of the brain and its relationship to human behavior. Topics will include; personality traits, how the brain processes and interprets sensation and perception, cognitive Psychology (language, problem solving and decision making), motivation and emotions, learning and memory, lifespan Psychology (development from infancy through adulthood and death) and social Psychology. During this course students will participate in a variety of activities; independent and group work research project, hands on activities, guest speakers, class discussions and debates.

**0430 CURRENT EVENTS** – ½ credit

Students will study thematic units related to events of local, state, national and international importance. The course will use magazines, newspapers and internet sources to provide background materials on timely and significant issues and events. An attempt will be made to present a variety of views of controversial issues so that the student will develop the ability to analyze and interpret contemporary affairs within the U.S. and the world. This course may be taken once a year.

**0435 WORLD GEOGRAPHY** – 1 credit

World Geography is the study of the interaction of humans with their environment and the ways in which the structure of the earth determines human activities and cultural development. Students will study the physical, political, and cultural aspects of geography and its connection to the conflicts and challenges that face the world today. Areas of focus will include basic map skills, the five themes of geography and world cultures. Thematic units may include: Africa, Asia, Australia, Canada, Latin America, South America and the United States.

**0440 CCP PSYCHOLOGY** – 1 credit (semester)

**Prerequisite: Acceptance to Wayne College for enrollment in College Credit Plus**

Introduction to scientific study of behavior, survey of psychological basis of behavior, sensation and perception, development, learning and cognition, personality, social interaction and other selected topics.

**0442 CCP US HISTORY**- 1 credit (semester)

**Prerequisite: Acceptance to Wayne College for enrollment in College Credit Plus**

Survey of United States History from the end of the federal Reconstruction to the present

## **S.T.E.M.** **(Science, Technology, Engineering, Math)**

### **0550 INTRODUCTION TO ENGINEERING DESIGN (IED)** – 1 credit – FEE

In IED, students are introduced to the engineering profession and engineering design process by applying math, science, and engineering standards to identify and design solutions to a variety of real problems. Students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. They work both individually and in collaborative teams to develop and document design solutions using engineering notebooks and 3D modeling software. This course is part of a nationally recognized program called Project Lead The Way. More information can be found at the web site [www.PLTW.org](http://www.PLTW.org).

### **0551 COMPUTER INTEGRATED MANUFACTURING** – 1 credit – FEE

**Prerequisite: Introduction Engineering Design or Computer Aided Drafting (CAD)**

Computer Integrated Manufacturing is an introductory level study of the fundamentals of modern day manufacturing techniques with an overall survey of related careers. The major focus of this course is to answer questions such as: How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? As students find the answers to these questions, they learn about the history of manufacturing, a sampling of manufacturing processes, robotics, and automation. CIM is built around several key concepts: computer modeling, Computer Numeric Control (CNC) equipment, Computer Aided Manufacturing (CAM) software, robotics and flexible manufacturing systems. This course is designed for 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> grade students. Furthermore, the course includes concerns about social and political consequences of technological change. This course is part of a nationally recognized program called Project Lead The Way. More information can be found at the web site [www.PLTW.org](http://www.PLTW.org).

### **0555 MATERIALS SCIENCE AND ENGINEERING** – 1 credit – FEE

This course will include study of the composition, structure, and properties of various materials. Topics will include safe laboratory practices, matter and properties, crystal structure, metals, ceramics, polymers, and composites. Scientific, technology, engineering and mathematical (STEM) methods will be used to gather, analyze, and represent data in a variety of ways including topics from life and physical science and current events/phenomena. The principle means of learning will be laboratory investigations through creative hands-on activities. Guest speakers and field trips may be included, as time permits, to gain an appreciation for the use of materials in manufacturing and technology.

**0556 FORENSIC SCIENCE BIOLOGY** – ½ credit - FEE

**Prerequisite: Successful completion of Biology 1**

This class will focus on the science of solving crimes using concepts of biology. Topics include DNA analysis, skeletal remains, fingerprinting, handwriting analysis, toxicology, time of death determination, and facial reconstructions. Lab experiences, case studies, and readings will be included in this semester long elective.

**0557 FORENSIC PHYSICAL SCIENCE** – ½ credit – FEE

**Prerequisite: Successful completion of Biology 1**

This class will focus on the science of solving crimes using concepts of chemistry and physics. Topics include blood spatter, drug analysis, glass composition, separation analysis, mineral identification, document analysis, toxicology, and car crash reconstruction. Topics will be examined through readings, lab experiences, and case studies in this semester elective.

**0558 ROBOTICS I** – 1 credit - FEE

Starting with basic movement and proceeding to sensor-based projects, students quickly learn how to design, build, program, and test autonomous and remote controlled robots to find solutions to existing design challenges/problems. In addition, students learn about mechanical systems, machine automation, and how to troubleshoot coding software. Robotics is a problem-based, hands-on course based on the engineering and design process model, which requires students to be self-motivated critical thinkers. This class encourages exploration of engineering, building models, programming, teamwork and communication skills. Students will discover that many ideas/methods carry over to all parts of life.

**0559 ROBOTICS II** – 1 credit – FEE

**Prerequisite – Robotics I**

Using advanced builds and programming skills, students will work collaboratively to find solutions to existing design challenges/problems. Robotics is a problem-based, hands-on course based on the engineering and design process model, which requires students to be self-motivated critical thinkers. This class will include multiple learning experiences that expose students to various ways automation and robotics are utilized in various industries and professions. Students will explore/discover new possibilities to an existing problem by completing a capstone project. Students must have successfully completed Robotics I with a C average.

**0560 ROBOTICS COMPETITION TEAM** – 1 credit – FEE

This class is for current team members. Those who wish to be on the team must fill out an application and have prior approval from the instructor to join. Students will work in collaborative groups using the engineering and design process to design, build, program, and test robots for specific game activities and scenarios. To be successful, students will go through more failures than successes. Students are required to keep an engineering notebook to document their use of the engineering and design process. Students must be willing to attend team meetings, practices, and competitions that are held throughout the year. There will be an additional fee for engineering notebooks and safety glasses.

## **GENERAL ELECTIVES**

**0070 ACT PREP** – ½ credit – FEE – open to sophomores, juniors and seniors

This course will help students prepare for the ACT.

**0170 YEARBOOK** – 1 credit – open to sophomores, juniors and seniors

This course is designed for students interested in photography, writing, and/or graphic design. Through this class, students will compile the current yearbook by learning the following skills: layout and design, working as a team, photography using a DSLR camera, and writing short captions. Students will be introduced to the basics of photography and then sent to various school events to gather photos for the yearbook. The class also teaches students the basic elements of marketing and budgeting through selling advertisements to businesses and yearbooks to students. **PLEASE NOTE: STUDENTS MUST BE ABLE TO ATTEND SCHOOL EVENTS AND EXTRACURRICULAR ACTIVITIES.** There is a limit of twelve on the staff.

