

TWIN VALLEY SOUTH HIGH SCHOOL

Course Description Guide



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This booklet has been prepared to provide students and their parents with some basic information about the academic program at Twin Valley South High School.

The information provided includes the basic facts that will help students plan their high school program of studies. Students should discuss their plans with parents and teachers to seek advice when preparing to register for high school courses.

COURSE DESCRIPTIONS

This handbook contains brief descriptions of the courses offered for the 2026-2027 school year at Twin Valley South High School. These descriptions should be of considerable assistance in planning students' high school program of studies. These descriptions outline the content and goals of the courses and include other details such as prerequisites, the credit value of the course, and length of courses.

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TWIN VALLEY SOUTH GRADUATION REQUIREMENTS CLASSES OF 2023 & BEYOND

COURSE COMPLETION

Course	Credits	Additional Information
English	4	
Mathematics	4	Must include one unit of Algebra II
Science**	3	Must include one unit of Physical science, one unit of Life science, and one unit of advanced science.
Social Studies**	3	Must include World History, American History, and American Government
Health	0.5	
Physical Education	0.5	
Electives	7	Must include one or any combination of world language, fine arts, business, family and consumer sciences, technology, or English language arts, mathematics, science, or social studies courses not otherwise required
Financial Literacy	0.5	Included in the 7 total elective credits needed for graduation.
Total	22	

**Only three credits are required, but four credits are recommended for students who plan to enroll in any college program after high school

FINANCIAL LITERACY

Beginning with the Class of 2026, students will be required to have 0.5 credits of Financial Literacy. This does not increase the total credits needed from 22. Twin Valley South High School has added an additional graduation requirement, and students will take and pass a standalone financial literacy course for a half credit that can meet a graduation requirement as an elective. The financial literacy standards for high school reflect the financial knowledge and skills all students need as they pursue college, careers or enlist in the military.

OHIO'S STATE TESTING REQUIREMENT

State testing laws require districts to administer end-of-course tests to all students at the completion of the associated course. The required end-of-course tests include Algebra I, Geometry, English Language Arts II, Biology, American History, and American Government.

State law also requires districts and community schools to administer the state-funded ACT or SAT to all grade 11 students in the spring of the school year. Each year, districts and schools will select the test to administer to their juniors. Beginning Spring 2025 for the Class of 2026, a parent or guardian can exercise the option for their student not to take the state-funded ACT or SAT.

DEMONSTRATING COMPETENCY

To graduate, students must earn a "competency" score on the English Language Arts II and Algebra I end-of-course tests or complete other options. Students not earning competency scores on the first attempt must be offered appropriate remediation and support, and retake the relevant test at least once. In lieu of attaining competency scores on the state tests, students can choose between four other ways to demonstrate competency following remediation and second test attempts.

Ohio's State Tests	Students earn a passing score of 684 on the Algebra I and ELA II end of course exams. You will retake these at least once if you are not competent.
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OR

Show Competency	Option 1: Student demonstrates two career-focused activities, at least one of which is Foundational Foundational – proficient scores on WebXams; 12-point industry credential; pre-apprenticeship or acceptance into an approved apprenticeship program Supporting – work-based learning; earn required score on WorkKeys; earn the OhioMeansJobs readiness seal Option 2: Student enlists in the military with evidence that you have signed a contract to enter a branch of the U.S. Armed Services upon graduation. Option 3: Student completes college coursework for either one college-level math and/or college-level English course through Ohio's free College Credit Plus program. Option 4: Students must earn "remediation-free" scores in each of the three subscore areas, two in English language arts and one in mathematics. English subscore: 22 Reading subscore: 22 Mathematics subscore: 22
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DEMONSTRATING READINESS

Once a student meets the credit and competency requirements, they must earn at least two diploma seals. *One* of the two needs to be an Ohio defined Seal. Seals options are listed below.

<u>State Seals</u>	<u>Local Seals</u>
OhioMeansJobs Readiness Seal Industry-Recognized Credential Seal Military Enlistment Seal College-Ready Seal Technology Seal Citizenship Seal Seal of Biliteracy Honors Diploma Seal Science Seal	Community Service Seal Fine and Performing Arts Seal Student Engagement Seal

GENERAL CONSIDERATIONS

- Partial credit for courses will only be granted by the High School Principal under extenuating circumstances.
- College Credit Plus (CCP) Enrollment Option can help you earn college and high school credits at the same time by taking college courses from colleges and/or universities. The purpose of this program is to promote rigorous academic pursuits and to provide a wide variety of options to college-ready students. Seventh through twelfth graders are eligible to participate in the CCP Enrollment Option programs. **Students must indicate intent to participate every year, and they, along with their parents, must attend a mandatory informational meeting and counseling session to be held in the spring of every year.** TVS has entered into an agreement with Edison Community College for the 2026-2027 school year. See your school counselor for more information.
- The following courses will be offered every other year:
 - General Anatomy/CP Environmental Science
 - AP Physics/AP Chemistry
 - Psychology/Sociology
 - CCP Anatomy/CCP Biology
 - Animal Science/Greenhouse Management
 - Mechanical Principles/Ag. Business Management
- For the Honors Diploma: the last grading period of the senior year will include all of the senior year, utilizing the final GPA.
- High School classes taken PRIOR TO THE 9TH GRADE will count toward college requirements at most colleges. Check with your college to ensure their acceptance. However, college preparation classes taken prior to ninth grade may or may not count toward requirements for the Honors Diploma or the NCAA Clearinghouse Core Requirements. Please note: Students who take college prep classes prior to the ninth grade may need to take more than the minimum number of courses to qualify for Honors Diploma, NCAA Clearinghouse, some colleges, and possibly graduation. Check with the High School principal or the school counselor if you have a question.
- Students are permitted to earn only 1.0 credits in PE (4 semesters), including Advanced PE.
- Fine Arts requirements may be met through Art, Band, Choir, or other music courses.
- All students will be scheduled for seven periods. Exceptions may be granted for students in approved work programs, i.e. CBI, Vo-Ag Co-op, or work study.
- Students who want to maintain athletic eligibility must be scheduled in and pass classes equivalent to a minimum of 5 classes and have at least a 1.5 GPA. Change of schedules or dropping a course may cause a student to drop under the minimum requirements.
- Incompletes must be made up within 2 weeks of the grading period.
- Schedule revisions based on medical conditions require a physician note.
- Repeating a course that has been passed is permitted with administrative and parental permission. The higher grade will be entered for GPA averaging; credit for the course will be granted only once.

★ *All schedule changes will be considered on the basis of class availability.*

COLLEGE PREPARATORY RECOMMENDATIONS (MINIMUM) CLASSES OF 2023 AND BEYOND

Course	Credits	Additional Information
English	4	
Mathematics	4	Minimally Algebra I, II, and Geometry
Science	3	Must include one unit of Physical science and one unit of Life science. Only three credits are required, but <u>four credits are recommended</u> for students who plan to enroll in any college program after high school
Social Studies	3	Must include World History, American History, and American Government. Only three credits are required, but four credits are recommended for students who plan to enroll in any college program after high school
Health	0.5	
Physical Education	0.5	
Foreign Language	2	Credits should be from the same language.
Electives	4	Must include one or any combination of world language, fine arts, business, family and consumer sciences, technology, or English language arts, mathematics, science or social studies courses not otherwise required.
Fine Arts	1	Must meet Ohio Core Curriculum requirement*
Financial Literacy		Must meet Ohio Core Curriculum requirement* Credit is included under the elective category, but students must complete a stand-alone course for 0.5 credit.
Total	22	

The following courses will qualify for credit:

Science	Biology	Chemistry I	Chemistry II	Physics	Anatomy & Physiology	Environmental Science	
Mathematics	Functions Trigonometry	Calculus	Algebra II	PreCalculus	Geometry	Statistics	College Math
Social Studies	World History	American History	American Government	World Events	Global Issues		
English	English 9	English 10	Creative Writing	British Literature	American Literature	True Crime in Literature	
Art	Art History	Art I	Art II	Advanced Art			
Foreign Language	Spanish I	Spanish II	Spanish III	Spanish IV			

SPECIAL CONSIDERATIONS FOR MVCTC

- **Students who intend to enroll at MVCTC should make every attempt to earn 2 English credits, 2 Social Studies credits, 2 Math credits, 2 Science credits, 0.5 Health credit, 0.5 Physical Education credit, and 1 Integrated Art credit during their ninth and tenth grade years prior to applying to MVCTC.** Students having deficiencies in any of these areas will be required to complete the necessary courses prior to graduating through summer school, correspondence school, or additional course work at MVCTC. These requirements may change pending MVCTC changes in schedules, courses, or requirements.
- MVCTC students who desire to return to TVS may do so only during the following time periods:
 1. The designated date in the second week of school;
 2. The end of the school year.

This procedure must be initiated with the CTC counselor. The TVS Principal reserves the right to allow/disallow transfers until the end of the school year

- Students following a career-technical pathway are exempted from the fine arts graduation requirement.

CLASSIFICATION OF STUDENTS

CLASSIFICATION OF STUDENTS	
Freshman Class standing	Successful Completion of 8th Grade
Sophomore Class standing	5 credit earned
Junior Class standing	10 credits earned
Senior Class standing	15 credits earned

Students will remain in their class standing until the end of the school year except for students who are trying to graduate early. Those students will be moved up at the beginning of the 2nd semester.

HONOR ROLL

HONOR ROLL	
High Honors	3.6-4.0
Honors	3.30-3.59

Each grading period, students who achieve certain academic levels will be recognized for their success.

A student must meet all requirements of the school district and teacher before any course of study can be considered passed. The following system will be used to determine a student's grade.

GRADING SCALE

GRADING SCALE	Letter Grade	Percentage
4.00	A	90-100
3.00	B	80-89
2.00	C	70-79
1.00	D	60-69
0.00	F	0-59

VALEDICTORIAN AND SALUTATORIAN REQUIREMENTS

Calculations to determine valedictorian and salutatorian occur at the completion of the fourth quarter grading period of their graduation year. The Valedictorian and Salutatorian will be officially named once grades and final grade calculations have been entered by the teaching staff. The Valedictorian and Salutatorian will be selected utilizing a student's grade point average (GPA). The student with the highest GPA and has taken at least one advanced class will be named valedictorian of their class. The student with the second highest GPA will be named the salutatorian of their class. If there is more than one valedictorian, no salutatorian will be named.

SCHEDULE REVISIONS

Students must indicate alternative course selections on their registration sheet. These will be used to fill the student's schedule if the initial course is unavailable. Courses which are not available and have no alternative course listed by the student, will be replaced with an available course at the Principal's discretion.

1. All requests for schedule changes must be submitted by the student within the first week of a course to avoid academic penalty. Classes dropped after the first week, for reasons other than academic misplacement or medical, will result in the student receiving an "F" for that class.

2. A student may request a schedule change if:

- his/her original or alternate course requests were not scheduled correctly by the computer.
- he/she took and passed the course in the past, or through summer school or correspondence school
- a different course is needed in order to meet state and/or local requirements for graduation or college/CTC requirements
- the class is not deemed necessary to meet the student's academic/career goals by the school counselor, principal, teacher, students, and parents.

3. In order to initiate a schedule change due to a student being misplaced academically, students, parents, and teachers must agree to the change. The student may then change the academic level (advanced/general) of a class, or be removed from the class, without penalty. Level changes may occur throughout the semester. Removal from a class which does not offer an alternative academic level may result in the student being required to complete an administrator-approved "contract of assignments" to fulfill requirements needed for entering a replacement class. A determination of "misplaced academically" will be considered only if the student's academic progress indicates the student's ability level will result in a "D" or lower for that class.

★ *All schedule changes will be considered on the basis of class availability.*

CREDIT RECOVERY

Credit Recovery courses may be applied toward graduation provided:

- Prior authorization to enroll in the course has been given by the high school principal or designee.
- No subject required for graduation, and if the student has previously failed that class or approved due to scheduling conflicts.
- A maximum of six units of credit may be applied toward the twenty-two credits required for graduation. No more than four of the six units can be applied toward required courses. Any exception to this policy must be approved by the principal.

HIGH SCHOOL ACADEMIC HONORS DIPLOMA

In order to earn the Academic Honors Diploma, a student must complete the **high school academic curriculum** in addition to at least seven of the following eight criteria:

Course	Credits	Additional Information
Mathematics	4	Fourth math must be greater than Algebra II
Science	4	One additional unit of Advanced Science
Social Studies	4	One additional unit of Social Studies
Foreign Language	3	Three sequential units of one world language, or no less than 2 sequential units of two world languages studied
GPA		Maintain an overall high school grade point average of at least 3.5 on a four-point scale up to the last grading period of the senior year.
ACT/SAT		ACT: Score of 27 or higher, SAT: Score of 1280 or higher
Seal Requirement		Earn two additional diploma seals, not including Honors Diploma Seal
Experiential Learning		Field Experience, OhioMeansJobs Readiness Seal*, Portfolio or Work-Based Learning

Please see the [information](#) on the Ohio Department of Education & Workforce for further clarification on the new Academic Honors Diploma requirements.

NCAA ELIGIBILITY

The following information reflects the NCAA freshman eligibility standards.

Considerations for student athletes who want to apply for an NCAA Division I school:

- Graduation from high school.
- Earn a grade point average of at least 2.3 on a 4.00 scale in a core curriculum of at least 16 academic courses taken during grades 9 through 12.

Considerations for student athletes who want to apply for an NCAA Division II school:

- Graduation from high school.
- Earn a grade point average of at least 2.2 on a 4.00 scale in a core curriculum of at least 16 academic courses taken during grades 9 through 12.

Only core courses that satisfy the NCAA definition of a core course can be used to calculate your NCAA GPA.

The following chart below shows what your core courses must include at a minimum.

Core Units Required for NCAA Certification	Division I	Division II
English Core	4 years (units)	3 years (units)
Math Core* (Algebra I or higher*)	3 years (units)	2 years (units)
Science Core	2 years (units)	2 years (units)
Social Science Core	2 years (units)	2 years (units)

From English, Math, or Science	1 year (unit)	3 years (units)
Additional Core (English, Math, Science, Foreign Language, Social Science, Computer Science, Philosophy, Non-doctrinal Religion)	4 years (units)	3 years (units)
Total Core Units Required	16	16

Note: The NCAA no longer requires standardized testing as part of their eligibility criteria. However, institutions may still require these standardized tests to be part of the admissions process at their respective institutions or these standardized tests may be required for scholarships.

NAIA ATHLETIC ELIGIBILITY REGULATIONS

Must meet two of three entry level requirements:

- Minimum score of 18 on ACT or 860 on the SAT
- Graduate in the top half of your high school graduating class
- Achieve an overall high school grade point average of 2.0 based on a 4.0 scale

NCAA APPROVED CORE COURSES	
ENGLISH American Literature^ British Literature^ Composition I^ Composition II^ English 9 English 10 English 11 English 12 Creative Writing Speech and Communications	NATURAL/PHYSICAL SCIENCE Anatomy/Physiology^ Chemistry I Chemistry II Physics Weather Studies Geology ^ Biology^ Environmental Science Physical Systems Science Weather Studies Zoology
MATHEMATICS Algebra I Geometry Algebra II Statistics^ Precalculus^ Calculus^	SOCIAL SCIENCE American Government^ American History Modern World History Global Issues Psychology^ Sociology^
ADDITIONAL CORE COURSES	^College Credit Plus course option

Spanish I, II, III, IV	
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TWIN VALLEY SOUTH HIGH SCHOOL

COURSE OF STUDY

LANGUAGE ARTS English 9 English 10 American Literature British Literature CCP British Literature English 242^ CCP American Literature English 222^ CCP Composition I-English 121^ CCP Composition English 122^ Film Studies** Creative Writing** Speech & Communications** True Crime in Literature**	MATHEMATICS Algebraic Foundations Algebra I Geometry Advanced Geometry Algebra II Advanced Algebra II Integrated Mathematics Pre-Calculus Precalculus MTH 128S^ General Statistics General Statistics MTH 125S^ Calculus Calculus/Analytical Geometry MTH 221S^
SOCIAL STUDIES American History Advanced American History American Government Modern World History Advanced World History CCP Intro to Psychology PSY 121^ CCP Intro to Sociology SOC 121^ CCP American Nat. Gov. PLS 121^ Psychology Global Issues	SCIENCE Biology Cells/Genetics/Evolution BIO121S**^ Animals, Plants, Ecology BIO122S**^ Environmental Science Forensics Physical Science Zoology Chemistry Chemistry II (AP) Anatomy and Physiology I BIO 125S**^ Anatomy and Physiology II BIO 126S**^ Anatomy & Physiology Physics (AP) Weather Studies CCP Physical Geology GLG- 121S
HEALTH AND PHYSICAL EDUCATION Health I** Health II** Lifetime Sports** Body Conditioning** Sports Theory**	FINANCIAL EDUCATION Personal Finance Management Personal Finance FIN 116S**^
FAMILY AND CONSUMER SCIENCE Global Foods** Fun with Food** Personal Wellness and Development** Human Growth and Development** Career Readiness** College and Career Readiness** Leadership and Community Engagement** Creative Crafting** Housing & Design**	INDUSTRIAL TECHNOLOGY Wood Technology I** Wood Technology II** Basic Electronics and Robotics** Computer Aided Design (CAD)** Engineering Design** STEM Tech** Home and Auto Maintenance** Custom Design**
COMPUTER TECHNOLOGY Computer Applications** Computer Science** Media Yearbook I**	FOREIGN LANGUAGE Spanish I Spanish II Spanish III

Media Yearbook II**	Spanish IV
FINE ARTS Art I** Art II: Elements of Art** Art II: Principles of Design** Advanced Art Art Theory** Wind Ensemble Chorale	AGRICULTURE EDUCATION Agriculture I-Ag. Food & Natural Resources Animal Science Greenhouse & Nursery Management Mechanical Principles Agriculture Business Management Agriculture Education Capstone
CAREER TECHNICAL EDUCATION Career Based Intervention (CBI) Business & Management Credentials Course** Manufacturing Skills Standards Council Credential**	**Semester Course ^College Credit Plus

COURSE DESCRIPTIONS

LANGUAGE ARTS COURSES

English 9

This course examines various genres of world literature and informational texts within the classroom structure. Novels align with the ninth grade curriculum based on the guidance from rigorous Lexile scores recommended by the Ohio Learning Standards and state assessments. Grammar and punctuation elements will be practiced through direct instruction and the writing process. Students will utilize skills to write narrative, informative, research, and argument papers.

Prerequisite: None

Year-long course – 1 credit

English 10

This course continues the development of skills introduced at the ninth grade level. Extensive vocabulary work, including Greek and Latin roots, is completed as well as two to three major literary works. Novels align with the tenth grade curriculum based on the guidance from rigorous Lexile scores recommended by the Ohio Learning Standard and state assessments. Grammar and punctuation elements will be mastered through direct instruction and the writing process. Students will utilize skills to write narrative, informative, research, and argument papers. Students will be assessed using the Ohio Learning Standards in order to prepare them for the state assessments.

Prerequisite: English 9

Year-long course – 1 credit

American Literature

This course places emphasis upon the historical and cultural connections of foundational works of American literature. This includes examinations of dramas, poems, short stories, essays, historical documents, and novels. The novels will be based on the guidance from rigorous Lexile scores recommended by the Ohio Learning Standards. Review of conventions in grammar and punctuation will be reviewed and vocabulary enrichment will be emphasized. Students will demonstrate writing skills through narrative, informative, research, and argument papers. Students will be assessed using the Ohio Learning Standards in order to prepare them for college and career readiness.

Prerequisite: English 9 and English 10

Year-long course – 1 credit

ENG 222S: American Literature (College Credit Plus)

This course will read and analyze a variety of American texts. Students will also improve their writing skills by researching and writing on a variety of topics in a variety of genres throughout the year. Ohio Learning Standards of English Language Arts will guide the curriculum. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

Prerequisite: ENG 121S

Year-long course – 1 credit

British Literature

This course places emphasis upon the historical and cultural connections of foundational works of British literature. This includes examinations of dramas, poems, short stories, essays, historical documents, and novels. The novels will be based on the guidance from rigorous Lexile scores recommended by the Ohio Learning Standards. Review of conventions in grammar and punctuation will be reviewed and vocabulary enrichment will be emphasized. Students will demonstrate writing skills through narrative, informative, research, and argument papers. Students will be assessed using the Ohio Learning Standards in order to prepare them for college and career readiness.

Prerequisite: English 9, 10, & American Literature

Year-long course – 1 credit

ENG 242S: British Literature (College Credit Plus)

Students will read and analyze a variety of British texts. Students will also improve their writing skills by researching and writing on a variety of topics in a variety of genres throughout the year. Ohio Learning Standards of English Language Arts will guide the curriculum. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

Prerequisite: ENG 121S

Year-long course – 1 credit

ENG 121S: Composition I (College Credit Plus)

This course involves writing based on critical reading skills, primary research techniques, and the student's own personal experiences. Such writings may include explanation, commentary, interpretation, analysis, and review. All writing will stress standard English, organization, and style. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

Prerequisite: English 9 and 10 OR 250 Reading Score on the Accuplacer

Year-long course – 1 credit

ENG 122S: Composition II (College Credit Plus)

Study and practice of essay writing, including formal essays, reviews and research papers, based on the study of logic and library research. Writings will stress organization, argument, referencing techniques and the use of standard English. Students can earn 3 semester hours from Edison State Community College in addition to high school credit.

Prerequisite: ENG 121S

Year-long course – 1 credit

Speech and Communications

The class is designed as a semester course that will help students become better communicators. Students will explore the elements of speech writing and presentation, analyze famous and notable speeches and speakers, and write and present speeches of varied lengths and for varied purposes. The class will also provide opportunities to analyze different forms and components of communication in order to develop and improve interpersonal and conflict management skills through mock interviews and skits.

Prerequisite: 10th, 11th, or 12th grade class standing

Semester course – 0.5 credit

True Crime in Literature

The class is designed as a semester course that will dive into the origins of the true crime genre in the United States. Students will analyze the representation of true crime in literature from different perspectives and explore the true crime genre as presented in articles, novels, documentaries, and

podcasts. We will also recognize the ethical and moral implications of using real crime stories as literary material and investigate the potential impact public exposure of these crimes may have on its audience through discussion, close reading, and different forms of writing.

Prerequisite: 10th, 11th, or 12th grade class standing

Semester course – 0.5 credit

Creative Writing

This course is designed to allow students to further refine their writing skills by exploring various and more creative forms of writing than offered in traditional English courses. Students will be practiced in journal writing, poetry, short stories, plays, multigenre pieces as well as other creative pieces in an effort to further develop writing skills. Throughout the semester, students will create a portfolio showcasing various works. Conferencing and sharing written pieces is integral to the course design.

Prerequisite: 10th, 11th, or 12th grade class standing

Semester course – 0.5 credit (English Elective)

Film Studies

This course is designed to challenge students to analyze various films in order to identify theatrical elements, techniques, and correlations between films. Students will learn theatrical terminology and practices. This course will cover different aspects of English Language Arts by requiring students to analyze films in writing, films and directors, and evaluating scripts and screenplays. Students will compare and contrast genres and successful film directors, and create their own film.

Prerequisite: 10th, 11th, or 12th grade class standing

Semester course – 0.5 credit (Elective credit only)

MATHEMATICS COURSES

TVS Accelerated College Path			
Freshman	Sophomore	Junior	Senior
Geometry	Algebra II	CCP Pre-Calculus CCP General Stats	CCP Calculus CCP General Stats
TVS College and Career Path			
Freshman	Sophomore	Junior	Senior
Algebra I	Geometry	Algebra II	CCP General Statistics CCP Pre-Calculus Integrated Math
TVS Fundamental College & Career Path			
Freshman	Sophomore	Junior	Senior
Algebraic Foundations	Algebra I	Geometry	Algebra II

Algebraic Foundations

This course is for students who aren't completely prepared to be successful in Algebra I in just one year. The course will cover the first half of the Algebra 1 curriculum and prepare students for the second half of Algebra the following year.

Prerequisite: Teacher Recommendation

Year-long course – 1 credit

Algebra I

A study of the basics in college-prep algebra, axioms, equations, inequalities, polynomials, functions, graphs on coordinate planes, systems of equations, rational expressions, roots and quadratic equations. A good math background is needed.

Prerequisite: 8th Grade Math or Algebraic Foundations

Year-long course – 1 credit

Geometry

A study of the basic Geometry concepts and relationships using investigation, inquiry and discovery methods. This course emphasizes a “hands on” approach and application of the material presented.

Prerequisite: Algebra I

Year-long course – 1 credit

Algebra II

This course is designed for students in need of additional math support and that has passed Algebra I. Topics are explored in-depth. Topics include linear equations, graphing linear functions, polynomials & factoring, quadratic formula, exponents, systems of linear equations, inequalities & absolute values, exponents, higher order polynomials, radicals, rational, irrational, imaginary & complex numbers, right triangle trigonometry, matrices, logarithms and exponential functions.

Prerequisite: Algebra I & Geometry

Year-long course – 1 credit

Integrated Math

This course is a fourth-year math course that is intended for the student who is in need of further study of mathematics that he/she will confront in a job, business, and/or consumer situations. Applications of mathematics will also emphasize life skills in which mathematics is needed. Students will explore different careers and study the practical skills and problem-solving needed in order to be successful for their chosen profession. *This course is not open to students who earn a credit in Pre-Calculus or General Statistics.*

Prerequisite: Algebra II

Year-long course – 1 credit

Mathematical Modeling and Reasoning

This course is designed to promote reasoning, problem-solving, and modeling through thematic units focused on mathematical practices while reinforcing and extending content in Number and Quantity, Algebra, Functions, Statistics and Probability, and Geometry. It is a yearlong course taught using studentcentered pedagogy.

Prerequisite: Algebra I & Geometry

Year-long course – 1 credit

General Statistics

Introductory general statistics course. Topics include data organization and display; measure of dispersion and central tendencies; probability models, random variables and finite probability distributions; normal and binomial distributions; construction of scatter plots of bivariate data and interpretation of linear regression; normal distribution approximation to the binomial distribution; central limit theorem and confidence limits; introduction to experimental design and sampling; and statistical control charts for statistical process control (SPC).

Prerequisite: Algebra II

Year-long course – 1 credit

MTH 125S: General Statistics (College Credit Plus)

Introductory general statistics course. Topics include data organization and display; measure of dispersion and central tendencies; probability models, random variables and finite probability distributions; normal

and binomial distributions; construction of scatter plots of bivariate data and interpretation of linear regression; normal distribution approximation to the binomial distribution; central limit theorem and confidence limits; introduction to experimental design and sampling; and statistical control charts for statistical process control (SPC).

Prerequisite: Algebra II

Year-long course – 1 credit / 3 semester hours at Edison State

Pre-Calculus

Survey of polynomial, rational, radical, exponential, logarithmic, trigonometric, and inverse trigonometric functions and their graphs, with associated algebraic techniques. Topics also include systems of equations, inequalities, elementary matrices, basic trigonometric ratios, trigonometric identities and equations, vectors, polar coordinates, complex numbers, conics, sequences and series

Prerequisite: 75% or higher in Algebra II and/or Teacher Recommendation

Year-long course – 1 credit

MTH 128S: Pre-Calculus

Survey of polynomial, rational, radical, exponential, logarithmic, trigonometric, and inverse trigonometric functions and their graphs, with associated algebraic techniques. Topics also include systems of equations, inequalities, elementary matrices, basic trigonometric ratios, trigonometric identities and equations, vectors, polar coordinates, complex numbers, conics, sequences and series

Prerequisite: 75% or higher in Algebra II

Year-long course – 1 credit / 5 semester hours at Edison State

Calculus

Introduction to differential and integral calculus. Includes differentiation and integration of algebraic and transcendental functions with applications to science and engineering. This course is designed for students who would want to pursue a career in a STEM field.

Prerequisite: Pre-Calculus

Year-long course – 1 credit

MTH 221S: Calculus (College Credit Plus)

Introduction to differential and integral calculus. Includes differentiation and integration of algebraic and transcendental functions with applications to science and engineering. This course is designed for students who would want to pursue a career in a STEM field.

Prerequisite: Pre-Calculus or a grade of 'C' or better in MTH 122S and MTH 123S, or MTH 128S.

Year-long course – 1 credit / 5 semester hours at Edison State

SOCIAL STUDIES COURSES

Modern World History

This course examines world events from 1600 to the Cold War. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The course will also include the development and role of the United States during this time period. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

Prerequisite: Required for ALL Freshmen

Year-long course – 1 credit

Advanced World History

This course moves at a faster pace and is designed to be the first step in preparation for Advanced American History and CCP American Government. This course examines world events from 1600 to the Cold War. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence

movements and the effects of global interdependence. The course will also include the development and role of the United States during this time period. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. There will be an emphasis on writing in preparation for Advanced American History and CCP American Government.

Prerequisite: Teacher Recommendation

Year-long course – 1 credit

American History

This course examines world events from 1600 to the Cold War. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The course will also include the development and role of the United States during this time period. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

Prerequisite: Required for ALL Sophomores

Year-long course – 1 credit

Advanced American History

This course is designed for the student with a special interest in American history and will require an extra measure of labor and devotion. This course examines world events from 1600 to the Cold War. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The course will also include the development and role of the United States during this time period. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. Students will read extensively, compose comprehensive historical essays and participate in wide-ranging classroom discussions on each topic covered using primary and secondary sources that require each student to make an in-depth analysis using critical thinking skills.

Prerequisite: Teacher Recommendation

Year-long course – 1 credit

American Government

How the American people govern themselves at national, state and local levels of government is the basis for this course. Students can impact issues addressed by local governments through service learning and projects.

Prerequisite: Required for ALL Juniors

Year-long course – 1 credit

PLS 121S: American National Government (College Credit Plus)

Overview of the American system of government which examines the impact of public opinions, group interests, and organizations on the institutions of American government. Particular attention is focused on issues which relate to the politics of public policy and the decision-making process. The nature of American democracy is examined and critically analyzed.

Prerequisite: 11th or 12th grade class standing

Year-long course – 1 credit

Global Issues

This course provides an opportunity to explore “Global Citizenship” through analysis of contemporary problems. As well as, analysis of the role that individuals can play in impacting those problems. This course will focus on particular global “hot spots”, with an emphasis on international events which also

have a direct impact upon U.S. foreign policy and concerns. The class will emphasize the cultural, historical, and economic conditions that underpin the conflicts of the world. The overall purpose of the course is twofold: 1) basic knowledge of the current global situation as it relates to the United States and 2) the ability to apply a cultural/historical perspective in gaining an understanding of a given current topic.

Prerequisite: 11th or 12th grade class standing

Year-long course – 1 credit

Sociology

Systematic study of social behavior and human groups. It focuses on the influence of social relationships upon people's attitudes and behavior and on how societies are established and changed. This course provides students with both methodologies and knowledge of the study of critical social issues ranging in scope from family to global. This course is available on an alternating academic year basis.

Prerequisite: 11th or 12th grade class standing

Year-long course – 1 credit

SOC 121S: Introduction to Sociology (College Credit Plus)

Basic concepts, theories, and scientific methodology of sociology. Includes an emphasis on processes through which people shape and are shaped by their social environment, culture, social structures, and institutions. This course is available on an alternating academic year basis.

Prerequisite: 11th or 12th grade class standing

Year-long course – 1 credit / 3 semester hours at Edison State Community College

Psychology

Introduction to the scientific study of behavior and mental processes with an emphasis on personality, learning and memory, human sexuality, lifespan development, sensation and perception, health psychology, abnormal behavior and interventions, social psychology, stress, motivation, and states of consciousness. This course is available on an alternating academic year basis.

Prerequisite: 11th or 12th grade class standing

Year-long course – 1 credit

PSY 121S: Introduction to Psychology (College Credit Plus)

Introduction to the scientific study of behavior and mental processes with an emphasis on personality, learning and memory, human sexuality, lifespan development, sensation and perception, health psychology, abnormal behavior and interventions, social psychology, stress, motivation, and states of consciousness. This course is available on an alternating academic year basis.

Prerequisite: 11th or 12th grade class standing / 3 semester hours at Edison State Community College

Year-long course – 1 credit

SCIENCE COURSES

Biology

A phenomenon-inquiry based study of life. Students will explore topics such as heredity, molecular genetics, population genetics, species diversity, evolutionary mechanisms, immune system physiology, virus characteristics, genetic disorders, muscle structure and function, ecological interdependence, and cellular processes to discover how the genome dictates life. Emphasis will be placed on basic laboratory skills, observation and inference, asking questions, as well as data collection and experimental design. Students will be expected to develop scientific claims and support them with scientific evidence and reasoning, and develop conceptual models to explain natural phenomena.

Prerequisite: Required for ALL Freshmen

Year-long course – 1 credit

Physical Science

This course is geared toward building an in-depth understanding of the big ideas of the physical world with an additional focus on the universe and stars. The program integrates a broad coverage of introductory physics and chemistry with mathematics through approachable text, claim evidence and reasoning, and a variety of hands-on experiences. *This course is not open to students who earn a credit in chemistry or physics.*

Prerequisite: None

Year-long course – 1 credit

Environmental Science

This science course studies (1) relationships between land, water, atmosphere and living things, (2) Earth's resources, and (3) global environmental issues. A strong emphasis will be placed on further developing laboratory and communication skills.

Prerequisite: 2 credits of science

Year-long course – 1 credit

Forensics

In this course we will be focusing on the basics of evidence collection, crime scene preservation, fingerprints, death/decomposition, ballistics, blood, trace evidence, DNA, and careers in forensics. This class will be based on principles from the following science classes: Physical Science, Biology, Chemistry, and physics. Students must have completed biology to participate and be of junior or senior standing.

Prerequisites: Junior or senior standing, and successful completion of biology

Year-long course – 1 credit

Zoology

This advanced course is a detailed study of the major invertebrate and vertebrate animal groups. Introductory topics are based on what students learned from Biology, but increase in their level of difficulty and detail. Emphasis is placed on the classification of animals by their comparative anatomy and behavior. Hands-on laboratory experience and practical identification are a major part of this class.

Prerequisite: 2 credits of science

Year-long course – 1 credit

College Prep (CP) Environmental Science

This science course begins with ecology in which students will learn about the relationships between living things and their environment. Later, students will study the topics of land, water, air and resources. A strong emphasis will be placed on improving laboratory, reading, writing, and critical thinking skills. This is meant to be a challenging, high school level course. This course is available on an alternating academic year basis.

Prerequisite: 75% or better in Chemistry or Physical Science or Teacher Recommendation

Year-long course – 1 credit

Chemistry I

The study of lab procedure, periodic table, chemical equations and bonding, acids and bases, organic chemistry, nuclear changes, properties of solids, liquids, gasses and solutions, and physical chemistry. Sophomores taking this course may then schedule AP Chemistry or AP Physics in subsequent years.

Prerequisite: Algebra I and Teacher Recommendation

Year-long course – 1 credit

Chemistry II (AP Chemistry)

The course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions,

kinetics, thermodynamics, and equilibrium. This course requires that 25 percent of instructional time engages students in lab investigations. This includes a minimum of 16 hands-on labs (at least six of which are inquiry-based). It is recommended that students keep a lab notebook throughout. Unit reading assignments and AP Personal Progress Checks will be expected to be completed outside of class time. Students will be eligible to sit for the AP Chemistry Exam in May. 1 Semester of college credit (4 credit hours) may be granted by your college for a score of 3 and a full year of college chemistry credit (8 credit hours) for a score of a 4 or 5. This course is available on an alternating academic year basis.

Prerequisite: 75% or better in Chemistry I or Teacher Recommendation

Year long course – 1 credit

Physics (AP Physics)

The study of logical, sequential development of major physics principles. An introductory physics course on the fundamental principles of classical mechanics. Topics include reference frame, units of measure, scalars and vectors, kinematics, Newtonian mechanics, statics, equilibrium, dynamics, work, energy, impulse, linear momentum, conservation of linear momentum, collisions, torque, angular momentum, conservation of angular momentum, and gravitation and fluids. A solid understanding of mathematics is necessary to understand physics. Therefore, it is desirable that physics students have successfully completed algebra and geometry. This advanced course deals with quantitative and qualitative lab exercises and multi-step calculations. Students will be eligible to sit for the AP Physics Exam in May. 1 semester of college credit may be granted by your college for scoring a 3, 4, or 5 on the AP Exam. This course is available on an alternating academic year basis.

Prerequisite: 75% or better in Chemistry I and Teacher Recommendation

Year-long course – 1 credit

GLG 121S: Physical Geology (College Credit Plus)

This is an advanced science course. Introduction to the physical and chemical processes that have produced the Earth, its minerals and rocks, and landforms that result from constructional and erosional activities. In addition to high school credit, students can earn up to 4 semester hours through Edison State Community College. Out of class reading required. Multiple lab activities per chapter.

Prerequisites: Biology

Year-long course – 1 credit

Weather Studies

Weather Studies places students in a dynamic educational environment where they investigate the atmosphere using real-world current environmental data. It covers the composition and structure of the atmosphere; the flows of energy to, from, and through the atmosphere; and the resulting motions produced from small to planetary scales. The physical principles of atmospheric phenomena are stressed in the understanding of weather's impact on humans, particularly with severe weather. Methods of analysis are developed through the study of current weather as meteorological data are delivered via the Internet. Students are introduced to Earth's atmosphere and the dynamic world of weather

- as it happens, by working with current meteorological data delivered via the Internet and coordinated with Current Weather Studies investigations keyed to the day's weather, and via examination of real-world case studies delivered in electronic form.
- Possible Independent project during 4th quarter.
- Outside of class reading required.

Prerequisite: 11th or 12th grade

Year-long course – 1 credit

Anatomy & Physiology

This science course begins with cells and tissues and then focuses on the various organ systems (skeletal, muscular, nervous, cardiovascular, etc.). A strong emphasis will be placed on improving laboratory, reading, writing, and critical thinking skills. Dissection is required. This course is meant to be a challenging, high school level course. This course is available on an alternating academic year basis.

Prerequisite: 75% or better in Chemistry or Physical Science or Teacher Recommendation

Year-long course – 1 credit

BIO 125S: Anatomy & Physiology I (College Credit Plus)

This is an advanced science course. Introduction to the structure and function of the human body. Includes the study of cells, tissues, and the following systems: integumentary, skeletal, muscular, and nervous. Three hours of lecture and two hours of lab time each week. This course will require two class periods per day. This course is available on an alternating academic year basis.

Prerequisites: Physical Science or Chemistry AND Biology.

Semester course – 1 credit / 4 semester hours at Edison State

BIO 126S: Anatomy & Physiology II (College Credit Plus)

This is an advanced science course. Continuing study of the structure and function of the human body. Includes the following systems: autonomic nervous system, special senses, cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive, and endocrine. Fluid, electrolyte, and acid/base are also included. Three hours of lecture and two hours of lab work each week. This course will require two class periods per day. This course is available on an alternating academic year basis.

Prerequisites: Physical Science or Chemistry AND Biology.

Semester course – 1 credit / 4 semester hours at Edison State

BIO 121S: Intro Biology: Cells/Genetics/Evolution (College Credit Plus)

This is an advanced science course. Introduction to the basic concepts of biology with emphasis on molecular biology, cells, genetics, and evolution. Three hours of lecture integrated with two hours of lab activities each week. In addition to high school credit, students can earn up to 4 semester hours through Edison State Community College. This course will require two class periods per day. This course is available on an alternating academic year basis.

Prerequisites: Physical Science or Chemistry AND Biology & satisfactory Accuplacer math score

Semester course – 1 credit / 4 semester hours at Edison State

BIO 122S: Animals, Plants, Ecology (College Credit Plus)

This is an advanced science course. Continuing study of the basic concepts of biology with emphasis on the structure and function of animal and plant systems, distribution of organisms, and ecology. Three hours of lecture integrated with two hours of lab activities each week. In addition to high school credit, students can earn up to 4 semester hours through Edison State Community College. This course will require two class periods per day. This course is available on an alternating academic year basis.

Prerequisites: BIO 121S

Semester course – 1 credit / 4 semester hours at Edison State

HEALTH AND PHYSICAL EDUCATION COURSES

Health I

This course is designed to assist you in effective life management. The student will acquire knowledge about skills which are needed to become responsible adults to achieve optimum health. Topics of discussion will include nutrition, managing weight, physical activity, alcohol and other drugs, tobacco, teen dating violence, healthy relationships, stress and suicide, sexual health and sexually transmitted diseases.

Prerequisite: None

Semester course – 0.5 credit

Health II

Topics may include but are not limited to Injuries and First Aid, Health Careers, Diseases and Disorders, Sleep, Stress Management and Time Management in High School and beyond, Community Resources for Lifelong Health, and Elementary Outreach to teach elementary students about health. The course will also include a School and/or Community Outreach Project that will require students to think critically and creatively on ways to impact the school and community.

Prerequisite: 10th, 11th, or 12th grade

Semester course – 0.5 credit

Lifetime Sports

This course is a combination of games, sports, and conditioning that are used to tone the body. Activities include flag football, volleyball, basketball, soccer, and wiffle-ball. Also included are individual sports such as badminton, pickleball, ping-pong, tennis, weight-training, exercise walking, and cardiovascular activities. Students are required to dress appropriately and participate as part of the grading system. *This course meets the requirements of PE.*

Prerequisite: None

Semester course – 0.25 credit

Body Conditioning

This course consists of weight training 3 days per week. Course will use the curriculum based on a bigger, faster, stronger weight lifting program. Students will be responsible for recording their workouts in a workout packet that will be provided for them. Students are required to participate at a high intensity level that will promote strength gains, as well as, improvements in their overall speed and agility. The other two days will be spent running, rope jumping, speed training, plyometric training, and other activities. This will provide an opportunity for students to complete workouts during the school day, and should only be taken by those students who are serious about improving their fitness levels. *This course meets the requirement for PE. Upcoming seniors are only eligible for one semester of the course, and no freshmen are allowed into the course.*

Prerequisite: 1 Semester of Lifetime Sports with a 90% or higher and Teacher Recommendation

Semester course – 0.25 credit

Sports Theory

This course would look to investigate the various coaching theories and disciplines of various sports. This course could include First Aid/CPR, Athletic Training, and more. This course would mainly be in a classroom setting, with occasional work being done in the gym/outdoors. Field trips would also be a big part of this course (College visits, hall of fame, museums, etc...).

Prerequisite: Health, 0.5 credits of Physical Education, and 11th or 12th grade standing

Semester course – 0.5 credit

FINANCIAL EDUCATION

Personal Finance Management

In this course, students will develop personal financial plans for individual well-being. Throughout the course, students will develop financial literacy skills to provide a basis for responsible citizenship and career success. Additional topics will include analyzing services from financial institutions, consumer protection, investing, and risk management.

Prerequisite: Required for ALL Juniors

Semester course – 0.5 credit

FIN 116S: Personal Finance (College Credit Plus)

Management of personal income with emphasis on family financial planning, including budgeting, income taxes, types of insurance, and forms of investment.

Prerequisite: 11th grade standing

Semester course - 0.5 credit / 3 semester hours at Edison State

FOREIGN LANGUAGE COURSES

Spanish I

In this course, students will develop a strong foundation in the fundamentals of the Spanish language and cultures. Students will begin using all four skills of communication (reading, writing, speaking, and listening) using the Spanish-language present tense and basic vocabulary, phrases, and sentence structures. Students will comprehend and use information in very familiar, everyday contexts and will

learn to form words, phrases and simple sentences. In addition, students will develop their intercultural competence through acquiring new knowledge of Spanish-speaking cultures. Students can expect daily homework, quizzes, projects, and tests.

Prerequisite: 75% strongly recommended in English class

Year-long course – 1 credit

Spanish II

This course will build upon the skills developed in Spanish I. Students will continue to develop all four skills of communication in the Spanish language: reading, writing, speaking, and listening. Students will acquire new vocabulary and will begin to use more complex grammar, while continuing to focus on real-life situations. Students will begin to learn to speak about events that happened in the past using the Spanish past tenses. Students can expect daily homework, quizzes, projects, and tests.

Prerequisite: 75% strongly recommended in Spanish I and/or Teacher Recommendation

Year-long course – 1 credit

Spanish III

This course will continue to build upon skills developed in the previous Spanish courses as students begin to use and understand more complex grammar. Students will further their vocabulary knowledge and speaking skills that have been developed over the previous levels of the target language. Students will additionally further their skills in being able to communicate about past events, both completed and ongoing, and they will be introduced to speaking about wishes, hopes, and denials. Students will additionally become more familiar with Spanish speaking cultures as they learn to compare and contrast cultures with one another. Students can expect daily homework, quizzes, projects, and tests.

Prerequisite: 75% average in Spanish II and/or Teacher Recommendation

Year-long course – 1 credit

Spanish IV

This course will continue students' acquisition of the Spanish language as well as their knowledge of cultural perspectives and practices. While continuing to develop all four skills of communication, students will begin to dive more into Spanish literature and cultures and will have more advanced assignments, texts, and projects. Students will continue to expand their vocabulary and will be taught more complex grammar concepts as they dive further into the subjunctive and other complicated grammar formations. Students can expect daily homework, quizzes, projects, texts, and tests. Written and oral summaries will be due on a regular basis.

Prerequisite: 75% average in Spanish III and/or Teacher Recommendation

Year-long course – 1 credit

FINE ARTS COURSES

Art History

Students will learn about different art movements throughout history. Students will learn about important artists and recreate studio projects inspired by the Masters.

Prerequisite: None

Semester course – 0.5 credit

Art I

This class is an overview and introduction to fine art, beginning with a concentration on drawing and painting. Art I is designed to provide a foundation for advanced art courses. Students will explore a variety of artists, art processes and materials such as drawing, painting, printmaking, and 2D/3D design. Willingness to get involved in the creative process is a more important requirement than the student's talent or previous experience.

Prerequisite: None

Semester course – 0.5 credit

Art II: Elements of Art

Students will learn to work with the Elements of Art to create cohesive pieces of artwork. Focus on line, space, value, color, shape, form, and texture.

Prerequisite: Art I

Semester course – 0.5 credit

Art II: Principles of Design

Students will learn to work more conceptually, focusing on the principles of design- balance, contrast, emphasis, pattern, unity, movement, and rhythm.

Prerequisite: Art I

Semester course – 0.5 credit

Advanced Art (Art III and Art IV)

These courses build on the concepts and skills acquired in Art I and Art II. There will be more in-depth study of the elements of art and principles of design, drawing, painting, textiles, and 3-dimensional art. Students will need to meet the teacher approval requirement for admittance to continue taking upper level art courses.

Prerequisite: Art I and both Art II classes OR at least one Art II course and Art History

Year-long course – 1 credit

Music Composition

Learn how to write music in a wide array of genres, culminating in a project where you have the opportunity to write and record your own songs. Along the way you will learn rudimentary skills in piano and guitar to help with the songwriting process. You should have a basic understanding of music before taking this course.

Prerequisites: 10th, 11th, 12th grade standing

Semester course – 0.5 credit

Music History

Fall semester, you will learn the building blocks of music: how to read and write it, while also learning how you can put all of the parts together to form a cohesive work of art. Spring semester, you will learn about the development of western art music from the Middle Ages through the Contemporary Era and study the origins of European/American musical genres. Part of the experience will include music appreciation through listening to great works that have been composed over the centuries.

Prerequisites: None

Semester course – 0.5 credit

Wind Ensemble

Students will expand their musical knowledge and performance experience by rehearsing and performing with the Twin Valley South Wind Ensemble. The goal of this course is for students to understand the diverse and unique world of music from both performing and academic standpoints, playing in a variety of venues while also learning about music theory and history. Participation in after/out of school rehearsals is required to receive credit. Percussionists are expected to perform and rehearse with the Percussion Ensemble.

Prerequisite: Teacher Recommendation and potentially an audition

Year-long course – 1 credit

Chorale

Students will expand their musical knowledge and performance experience by rehearsing and performing with the Twin Valley South Chorale. The goal of this course is for students to understand the diverse and unique world of music from both performing and academic standpoints, singing in multiple concerts throughout the year while also learning about music theory and history. Improve your well-being and cognitive skills while studying one of the oldest art forms in the story of humanity.

Prerequisite: Teacher Recommendation and potentially an audition

Year-long course – 1 credit

FAMILY AND CONSUMER SCIENCE

Global Foods

In this course, students will compare cuisines, ingredients, and preferred cooking methods of various cultures. The influence of traditions and regional perspectives on food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market, and apply advanced cooking techniques, including the use of specialty and advanced equipment in the preparation of food dishes.

Prerequisite: None

Semester course – 0.5 credit

Fun with Food

In this course, students will gain knowledge in food selection criteria and apply preparation methods to promote a healthy lifestyle. Students will apply cooking methods, ingredient selection and nutritional information in the context of selected food dishes. Throughout the course, basic food safety and sanitation techniques will be emphasized.

Prerequisite: None

Semester course – 0.5 credit

Human Growth and Development

In this course, students will analyze human growth and development throughout the lifespan. An emphasis will be placed on physical, cognitive, social and emotional growth and development. Additional topics will include human characteristics and traits, genetic defects, parenting styles and responsibilities, and cultural differences within a family unit and community.

Prerequisite: None

Semester course – 0.5 credit

College and Career Readiness

This course will detail different elements related to college admissions and obtaining financial aid for college. FAFSA and scholarships will be discussed. Students will review post-secondary admission qualifications and learn about scholarship prep including essay writing techniques, how to fill out scholarship applications, scholarship research techniques, how to obtain quality recommendations, and more.

Prerequisite: 12th grade standing

Semester course – 0.5 credit

Leadership and Community Engagement

In this course, students will learn how to become an active community member and citizen. An emphasis will be placed on in-service learning, leadership training, and teambuilding opportunities. Additional topics will include public policy issues, community and global engagement.

Prerequisite: 10th , 11th, or 12th grade standing

Semester course – 0.5 credit

Creative Crafting

In this Family and Consumer Sciences course, students will explore a broad range of topics relating to the various aspects and career opportunities available in the field of textiles and design. The emphasis will be

given to textiles project development and developing strategies to maintain the home. Additional topics will include project collaboration, design techniques and environmental sustainability.

Prerequisite: 10th , 11th, or 12th grade standing

Semester course – 0.5 credit

Housing & Design

In this Family and Consumer Sciences career field course, students will examine design principles used in residential interiors. An emphasis will be placed on incorporating anthropometrics, ergonomics and psychological responses. Additional topics will include the selection and organization of furnishings, floors and wall coverings in living spaces, kitchens and baths.

Prerequisite: 10th, 11th, or 12th grade standing

Semester course – 0.5 credit

COMPUTER TECHNOLOGY

Computer Concepts and Applications

Every student (college-bound or not) should take this course. Students will be introduced to and become proficient at Microsoft Office applications as well as Google applications. Included will be the use and development of Microsoft Word and Google documents, Excel and Google spreadsheets, PowerPoint and Google presentations! This class will culminate in a project that allows students to integrate the software and make decisions about methods and formatting giving them an opportunity to take ownership of the project.

Prerequisite: None

Semester course – 0.5 credit

Introduction to Computer Science

This is a semester course designed to teach students foundational knowledge about various computer-related topics. Students will learn about the problem-solving process and how this is a major component of computers. Students will explore areas such as HTML & CSS (Web Design), introduction to programming (JAVA), and other areas. This class is hands-on and project-oriented! It is always evolving and changing to incorporate the latest applications, making it current for students to take. Students need to be able to work independently and use creativity. No textbook required.

Prerequisite: Algebra I and Geometry

Semester course – 0.5 credit

Media Technology

Media Technology is a semester course for upperclassmen where students learn mastery of using Adobe Premiere to create projects for the purpose of presenting information. PCs will be used to edit video and develop creative works. Student ownership of projects becomes essential for students to take pride in their creations. This class will also be responsible for the graduation and academic award assembly slideshows as well as the Talent Show during the first semester! Students must be able to work independently and are given opportunities to be self-governing and innovative.

Prerequisite: 11th or 12th grade standing

Semester course – 0.5 credit

Yearbook Publication

Students will organize the yearbook publication. They will understand and develop advertising sales techniques, produce a publication, and learn, develop, and use correct news writing techniques.

Prerequisite: 9-12

Year-long course – 1 credit

INDUSTRIAL TECHNOLOGY COURSES

Wood Technology I

This course is an introductory course covering woodworking. This course is designed to benefit students with varying levels of ability and career aspirations. Since woodworking, like all manufacturing operations, requires the ability to read and understand technical drawings, there will be a brief introduction to technical drawing. Safety is an important factor and all students will be required to pass a written safety test before working in the lab area or using tools and equipment. Multiple projects will be completed during the semester. Projects will be assigned by the instructor. There will be a lab fee of \$30.00 which covers all project costs.

Prerequisite: None

Semester course – 0.5 credit

Wood Technology II

This semester course is a continuation of Wood Technology I. This course uses more advanced topics and procedures in woodworking and design. Each student is required to take a written safety test on all power tools. Students must complete assigned projects, and then select their own projects using the instructor's guidelines and suggestions. All project materials must be paid before the project is taken home. There will be a lab fee of \$30.00, which does not include individual project costs.

Prerequisite: Wood Technology I

Semester course – 0.5 credit

Basic Electronics and Robotics

This semester course will build on basic concepts of robotics and programming through taking part in team projects, as well as exploring the impact of robotics on society. Students will learn electronic fundamentals like Ohm's Law, the Power Equations, and electronic theory. Students will be given hands-on experience with basic circuits, soldering techniques, instruction on safety, and reading schematics. Students will be involved in hands-on robotics activities which will reinforce problem solving, collaboration, science, and math skills through real life examples. There will be a lab fee of \$25.00, which covers all project costs.

Prerequisites: None

Semester course – 0.5 credit

Computer Aided Design (CAD)

In this semester course, students will be introduced to 2D and 3D computer-aided design (CAD) with a focus on the programs AutoCAD, Inventor and Fusion 360. This course introduces the fundamentals of technical "blueprint" reading, sketching, mechanical drawing and prototyping. Students will take part in individual and hands-on team projects to apply and build skills through the use of our 3D printer. There will be a lab fee of \$25.00, which covers all project costs.

Prerequisites: 10th, 11th, or 12th grade standing

Semester course – 0.5 credit

Home and Auto Maintenance

This semester class will focus on problem solving skills with activities related to home and auto maintenance and common household construction. Home maintenance projects will include an emphasis on understanding residential framing, basic wiring, plumbing activities, hanging and repairing drywall, along with other interior home maintenance. Students will use and understand the various hand tools, simple wiring techniques, various fastenings methods, painting and decorating, furniture repair, and safety

procedures when constructing these home maintenance projects. Auto maintenance projects will include an emphasis on automotive upkeep, light repair, and auto ownership. Power tools and machines are used in this class so students must maintain a strong awareness of safety. There will be a lab fee of \$25.00, which covers all project costs.

Prerequisites: 11th or 12th grade standing

Semester course – 0.5 credit

Custom Design

This yearlong course is a mix of both individually selected projects and those completed as a class. Projects will be designed and constructed in collaboration with the instructor. Students are encouraged to pursue anything that resources, skill, and time will allow. This can include wood projects, electronics projects, STEM projects, and anything in between. All project materials must be paid before the project is taken home. **Custom Design may be taken for two consecutive years. Junior Year - Custom Design 1 and Senior Year - Custom Design 2. Students in the year one course and students in the year two course may be commingled as the course is geared individually to each student.** There will be a lab fee of \$25.00, which does not include individual project costs.

Prerequisites: Wood Technology I and 11th or 12th grade standing

Year-long course – 1 credit

STEM Tech

During this course, students will study different areas of STEM through modular and project-based education. Topics may include: aeronautics, rocketry, drones, research & development, woodworking, architecture, animation. These are some of the topics, but it is not an all-inclusive list. The course is evolving and new topics/materials are continually being added. There will be a lab fee of \$30.00, which covers all project costs.

Prerequisites: 10th, 11th, or 12th grade standing

Semester course – 0.5 credit

AGRICULTURE EDUCATION COURSES

Agriculture I: Agriculture, Food and Natural Resources

This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry.

Prerequisite: None

Year-long course – 1 credit

Supervised Agricultural Experience – 0.25 credit

Animal Science

Learners will apply principles of nutrition, health and reproduction to the management of animals, poultry and fish in production agriculture. Learners will demonstrate understanding of anatomy and physiology and apply genetic principles for improvement. Learners will apply knowledge of animal behavior, welfare, and husbandry principles. Learners will evaluate body/carcass composition and apply marketing principles to the sale and distribution of livestock products. Learners will employ communication, business, and management strategies appropriate for the industry. This course is available on an alternating academic year basis.

Prerequisite: Recommended to have completed Agriculture, Food and Natural Resources

Year-long course – 1 credit

Supervised Agricultural Experience – 0.25 credit

Greenhouse & Nursery Management

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

Prerequisite: Recommended to have completed Agriculture, Food and Natural Resources

Year-long course – 1 credit

Supervised Agricultural Experience – 0.25 credit

Agriculture Business Management

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. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion, and pricing strategies.

Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified. This course is available on an alternating academic year basis.

College credit will be offered during this class with Articulated Credit for Introduction to Business (3 credits) through Edison State CC. There is no cost to the student to earn these credits and no additional enrollment is required.

Prerequisite: Recommended to have completed Agriculture, Food and Natural Resources

Year-long course – 1 credit

Supervised Agricultural Experience – 0.25 credit

Mechanical Principles

Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, along with metallurgy in relation to hot and cold metals.

Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identifying, diagnosing, and maintaining small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills. This course is available on an alternating academic year basis.

Prerequisite: Recommended to have completed Agriculture, Food and Natural Resources

Year-long course – 1 credit

Supervised Agricultural Experience – 0.25 credit

Agriculture Education Capstone

Students apply Agricultural and Environmental Systems program knowledge and skills in a more comprehensive and authentic way. Capstones are project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through partnerships, students combine classroom learning with work experience to benefit themselves and others. These can take the form of mentorship employment, cooperative education, apprenticeships, and internships. This course may be taken more than once.

PLEASE NOTE – The 1st and 2nd Semester curriculum will be discussed with students who choose to sign up for this course. Please talk to Mrs. Derringer BEFORE signing up!

Prerequisite: Agriculture I & Teacher Recommendation

Year-long course – 1 Credit

Supervised Agricultural Experience – 0.25 credit

CAREER TECHNICAL EDUCATION

Career Based Intervention Program (CBI)

This program combines educational and work-based learning opportunities for students who demonstrate academic and/or social difficulties in school. CBI assists students to improve upon academic competence, recover credits, develop employability skills, implement a career plan, and become employed inside or outside of school. Work can be both paid and non-paid experience. Students can earn up to 3 credits for CBI-Work experience and 1 credit for the CBI-Related class.

Prerequisite: Recommendation and collaboration between Parent/Principal/Teacher and School Counselor and an interview to determine if the student meets State guidelines.

Year-long course – 1 credit

Business & Management Credentials Course

This course will offer the students the opportunity to earn the 3 credentials of the Lean Six Sigma (LSS) Yellow Belt, (LLS) Green Belt, and Student Leadership Excellence. The Lean Six Sigma(LSS) portion of the course allows the students to learn a team-based, problem-solving methodology used by millions of businesses and organizations worldwide. Lean Six Sigma follows a structured approach called DMAIC (Define, Measure, Analyze, Improve, Control) in a path towards solutions and gains, commonly in the form of reduced waste or improved quality. The Student Leadership Excellence (SLE) portion of the course will allow the students to study and put into practice important leadership concepts, learn the skills of self-leadership, and to learn the skills of leading people. Students will complete the OhioMeansJobs Readiness Seal by the end of the semester. This course will only be offered in the Fall semester.

Prerequisite: 11th or 12th grade standing

Semester course – 0.5 credit

Manufacturing Skills Standards Council Credential

This course will offer the student the opportunity to engage in the Manufacturing Skill Standards council Certified Production Technician (CPT) certificate program. This program will help prepare the student with the skills necessary for entry-level to front-line supervisor positions. It is ideal for individuals with limited to no prior knowledge of manufacturing to begin a career pathway in the high skill, high wage, in demand manufacturing industry. The CPT program consists of four individual certificate assessments in: Safety, Quality Practices and Measurement, Manufacturing Processes & Production, and Maintenance Awareness. Use of the Amatrol Skill Boss trainer will allow the student to learn through hands-on application of the principles learned. There will be a lab fee of \$25.00, which covers all project costs.

Prerequisites: 11th or 12th grade standing

Year-long course – 1 credit