



O'Fallon Township High School

CURRICULUM GUIDE 2027-2028

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O'FALLON TOWNSHIP HIGH SCHOOL

600 South Smiley Street

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Parents and Students:

- The purpose of this Curriculum Guide is to provide information about the course offerings at O'Fallon Township High School and to improve communication among parents, students, and counselors. It is specifically designed to help each student plan his/her course of study.
- Students and their parents are encouraged to read the various course descriptions and, in consultation with their counselors and teachers, select courses which best serve their specific interests and needs. Courses selected should help a student reach his educational goals.
- The suggestions below are included so that a student can successfully use this guide.
 1. **Make decisions carefully** considering personal objectives and future goals.
 2. **Study the course descriptions** and pay particular attention to prerequisites.
 3. **Study the graduation requirements.**
 4. **Keep in mind** the requirements for graduation as you plan your program.
 5. **Pay close attention** to the important scheduling information and class drop procedure.

PLAN COURSE SELECTION CAREFULLY

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GRADUATION REQUIREMENTS

To graduate from O’Fallon Township High School District 203, each student must:

- Earn a minimum of 21.0 credits
- Complete seven semesters of coursework
- Fulfill all subject area requirements established by the State of Illinois and the District 203 Board of Education (*outlined below*)

In addition, students must complete the State’s final accountability assessment to qualify for a regular high school diploma.

Graduation Requirements by Subject Area

Subject Area	Semesters/Year Required	Course Requirements
English / Language Arts	8 semesters / 4 years	<ul style="list-style-type: none"> • Two years must be writing intensive. • Two years may be non-specific English/Language Arts electives.
Mathematics	6 semesters / 3 years	<ul style="list-style-type: none"> • One year must include Algebra I content. • One year must include Geometry content.
Science	4 semesters / 2 years	<ul style="list-style-type: none"> • One year must be a Life Science. • One year must be a Physical Science.
Social Studies	5 semesters / 2.5 years	<ul style="list-style-type: none"> • One year of United States History. • One semester of Civics (9th grade) OR • One semester of American Government (grades 10–12). • <i>Students must pass the U.S. and Illinois Constitution tests.</i>
Physical Education/ Health	5 semesters total (4 semesters PE + 1 semester Health)	<ul style="list-style-type: none"> • Health must be taken in addition to PE. • <i>See additional information below regarding exemptions.</i>
Consumer Education	1 semester	<ul style="list-style-type: none"> • Each student must pass a course meeting the State of Illinois consumer education requirement. • At OTHS, this credit can be earned by passing Personal Finance.
Electives	2 semesters	<ul style="list-style-type: none"> • Two semesters from Art, Career & Technical Education, Performing Arts, or World Language.

Physical Education and Health Requirements

Students are required to complete **four semesters (two years) of Physical Education** and **one semester of Health** to meet graduation requirements, except in the following cases:

- **AFJROTC Participation:** Each successfully completed semester of AFJROTC counts as one semester of PE exemption. Students who complete four semesters of AFJROTC fulfill the two-year PE requirement.
- **Marching Band Participation:** Each successfully completed Marching Band course and fall competition season counts as one semester of PE exemption. Students who complete four semesters of Marching Band coursework and competition seasons fulfill the two-year PE requirement.
- **Athletic Participation (Juniors and Seniors):** Juniors and seniors who participate in and complete an interscholastic athletic program may be exempt from up to two semesters of PE—one per year. A maximum of one exemption may be earned during each of the 11th and 12th grade years, regardless of the number of sports or seasons in which the student participates.
- **Medical Exemption:** A physician’s note restricting full participation in PE must be submitted to the nurse’s office. Notes that modify a student’s level of activity should be coordinated between the nurse and the PE instructor, based on the current unit of study.

SCHEDULE CHANGES AND CLASS DROP PROCEDURES

Students are encouraged to review course descriptions carefully and devote ample time to selecting their courses. Thoughtful planning helps ensure appropriate placement and supports academic success.

When Schedule Changes May Occur

On or after the first day of student attendance for the semester, a schedule change will be made only under the following circumstances:

- Lack of prerequisite
- Scheduling error
- Summer school adjustment
- Graduation requirement deficiency
- Student has previously taken the same course with the same teacher and did not pass
- Class cancellation due to insufficient enrollment
- Teacher-initiated change
- Pursuant to IEP, 504 Plan, or homebound needs

When Schedule Changes Will *Not* Be Granted

Schedule changes will not be approved for the following reasons:

- Request to change lunch hour
- Request to change teachers
- Request to rearrange hours of classes

Space and Authorization Requirements

- Schedule changes will be considered on a space-available basis and will not be granted if the change results in a section overload.
- Parent/guardian authorization is required for dropping a class or for any student-initiated level change.

Types of Schedule Changes:

Class Substitutions: A class substitution involves changing an enrolled course for a different one. Students must make any substitutions before the start of the semester. These changes are subject to academic planning and graduation requirements. Students are encouraged to consult with their school counselor to ensure the new course aligns with their academic goals. For more information, please see the Student Handbook.

Class Additions: A class addition involves adding a new course to the student's schedule. The deadline for adding courses is prior to the start of the semester. Class additions are dependent on space availability and how the new course fits into the student's existing schedule. Students should consult with their school counselor to verify availability. For more information, please see the Student Handbook.

Class Deletion: Dropping a class means removing it from a student's schedule with no academic replacement and students may be placed into a study hall. Students can drop a class within the first 10 school days without it appearing on their transcript. After 10 days, a "W" (Withdrawal) will be recorded on the transcript, though it will not affect GPA. Students withdrawing after the first 9 weeks will receive a "WP" (Withdraw Passing) if passing at the time or a "WF" (Withdraw Failing) if failing at the time of withdrawal. A "WF" will count toward the GPA like an "F." For additional details, refer to the Student Handbook.

Level Changes: A level change occurs when a student moves from one level of a course to another (e.g., from Regular to Honors). Teacher-initiated level changes require approval from the department chairperson, school counselor, and parent/guardian. Student-initiated level changes must go through an academic review with a counselor, and a signed waiver must be submitted. Please note that only the classroom teacher can initiate level changes once the semester has begun. Schedule adjustments may be necessary to accommodate the change. For further details, refer to the Student Handbook.

CLASS DROP PROCEDURE (CONTINUED)

NAME OF CHANGE	DESCRIPTION	DEADLINE
Class Substitution	Changing one course for another	Prior to 1 st day of the semester
Class Addition	Adding a course where one does not exist	Prior to the 1 st day of the semester
Class Deletion	Removing a class from schedule and exchanging for a study hall	Flexible
Level Change	Move from one level to another level of the same course	Prior to the 1 st day of the semester unless teacher initiated

EARLY GRADUATION GUIDELINES

A student must have met all graduation requirements to be a December graduate in his/her senior year and will not be eligible for participation in spring semester extra-curricular activities. The Board of Education at O'Fallon High School mandates that a student must complete a minimum of 7 semesters of course work before graduating.

STANDARD SCHEDULE

The standard schedule for students will include five academic subjects which will be aligned with graduation requirements. ALL STUDENTS ARE ENCOURAGED TO TAKE A SIXTH SUBJECT (typically an elective).

HONORS CLASSES

O'Fallon Township High School offers honors classes for those students who qualify and desire to participate. The following criteria are used to determine honors placement:

- Current Grades
- Placement Scores
- Teacher Recommendations

Parents can sign a parent override form to have his/her student placed in an honors class. The student must remain in the class until the end of the semester for which the override form has been signed. Contact the guidance department for additional information.

HONORS UPON GRADUATION

At the time of graduation, O'Fallon Township High School will assign honors to those students who have distinguished themselves with superior academic performance during their high school career. These honors include summa cum laude, magna cum laude, and cum laude. Students who are candidates for graduation with a weighted cumulative grade point average greater than or equal to:

- 4.000 for all work completed will be recognized as "Summa Cum Laude"
- 3.900 for all work completed will be recognized as "Magna Cum Laude"
- 3.800 for all work completed will be recognized as "Cum Laude" National Honor Society recognizes students who have a cumulative weighted grade point average greater than or equal to 3.5 and who meet the service, leadership, and character requirements as indicated in Article IX of the NHS Constitution. Students earning Cum Laude and/or National Honor Society recognition will be issued a stole that must be returned at the conclusion of the graduation ceremony. OTHS awards and recognitions are the only adornments allowed.

GRADING SCALE AND WEIGHTING

GRADING SCALE

GRADE	PERCENTAGE	GRADE	PERCENTAGE
A	93 and above	C	73-76
A-	90-92	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	63-66
B-	80-82	D-	60-62

SEMESTER GRADES: Credits for passing grades are issued at the end of each semester. Progress throughout the semester may be monitored by students and parents/guardians through Skyward. Semester grades are determined by the following formula:

Semester Work = 85%

Semester Exam = 15%

Semester Grade = 100%

Note: Classes that meet for only nine weeks calculate the final exam as 15% of the course grade.

GRADE POINT AVERAGE AND CLASS RANK: The weighted cumulative grade point average of students at O'Fallon High School is calculated on all academic classes assigned a grade (A, B, C, D, F). Students are ranked according to a weighted cumulative average within their graduating class. Class Rank can be found in the Gradebook feature of Skyward. Class rank is updated only at the conclusion of every semester.

Non-GPA Courses

- Physical Education
- Lab Assistant
- OTHS Credit Recovery Courses

GRADE WEIGHTING

	REGULAR COURSE	HONORS/ AP [®] COURSE		REGULAR COURSE	HONORS/ AP [®] COURSE		REGULAR COURSE	HONORS/ AP [®] COURSE
A	4.00	5.00	B-	2.67	3.67	D+	1.33	2.33
A-	3.67	4.67	C+	2.33	3.33	D	1.00	2.00
B+	3.33	4.33	C	2.00	3.00	D-	1.00	2.00
B	3.00	4.00	C-	1.67	2.67	F	0.00	0.00

COLLEGE AND CAREER PLANNING

YEAR	Academics & Extracurricular	Testing	Explore
Freshman	<ul style="list-style-type: none"> Take the most challenging level of courses you can; post-secondary institutions look at the level of the courses you take as well as the grades you earn. Develop good study habits The first grade point average (GPA) you establish is very important Volunteer within the community 	<ul style="list-style-type: none"> Commit to doing well in coursework as it prepares you for the test in future years Take PreACT 9 during school-wide testing in Spring. 	<ul style="list-style-type: none"> Think about what you want to pursue as a career once you complete your education Think about where you want to go to post-secondary school Investigate the costs associated with post-secondary schooling
Sophomores	<ul style="list-style-type: none"> Continue to take the most challenging courses you can Continue to get involved in extracurricular activities & volunteer opportunities Select courses for your junior year which ensure meeting graduation and post-secondary entrance requirements 	<ul style="list-style-type: none"> Commit to doing well in coursework as it prepares you for standardized testing in other years Take PreACT 10 during school-wide testing in Spring. 	<ul style="list-style-type: none"> Think about your talents, inclinations, and personality Research requirements (course pre-requisites, entry requirements, personality traits, etc.) for careers you are considering Think about and discuss with others matching yourself with careers that interest you
Juniors	<ul style="list-style-type: none"> Continue to take the most challenging courses you can Continue to get involved in extracurricular activities & volunteer opportunities Choose electives which support your possible career(s) and meet entry requirements Double-check graduation and college entrance requirements to be sure you are on track with both Become familiar with the questions asked on applications that require essays 	<ul style="list-style-type: none"> Take PSAT/NMSQT in October (optional) Take state mandated ACT with Writing in Spring. Re-takes available through National Test Dates, register online @ www.collegeboard.com Take Advanced Placement Tests (AP) in May (optional) Take College Entrance Exams: <ul style="list-style-type: none"> ACT – www.actstudent.org SAT – www.collegeboard.com Take Advanced Placement Tests (AP) in May (optional) 	<ul style="list-style-type: none"> Research colleges and other post-secondary educational institutions that will meet your career objectives and financial requirements..... resources include parents, counselors, alumni, friends, web sites, college fairs, brochures, college representatives Plan to visit colleges in the second semester, summer, and first semester of senior year Try to narrow your selections to 5-8 from which to choose and apply Encourage your parents to attend the college planning and financial aid night at school (Date TBD)
Seniors	<ul style="list-style-type: none"> Continue to take the most challenging courses you can Choose electives which support your possible career(s) and meet entry requirements 	<ul style="list-style-type: none"> Retake College Entrance Exam (optional), registration is online. ACT – www.actstudent.org SAT – www.collegeboard.com Take Advanced Placement Tests (AP) in May (optional) 	<ul style="list-style-type: none"> Line up at least three letters of recommendation from people who know you well Apply early to the selected colleges and/or career training centers.... watch deadlines Make sure your applications are complete by October Apply for scholarships and financial aid (FAFSA)

COLLEGE AND WORK READINESS ACADEMIC RECOMMENDATIONS

Take a core curriculum to prepare for college and your career. The recommendations are at least:

- four years of English
- three years each of:
 - ~ Math (Algebra 1, Geometry and Algebra 2)
 - ~ Social Sciences (courses such as U.S. History, World History and American Government)
 - ~ Natural Sciences (Biology, Chemistry and Physics)
 - ~ World Language/Fine Arts (varies from one college to another)

Taking advanced courses beyond the recommended core classes will give you the best chance to be ready to enter college without needing remedial classes. Remedial classes often don't count toward your degree, and if you need them, it will take longer to graduate. Since admission requirements periodically change, parents and students should check individual institutions for exact requirements.

HIGHLY SELECTIVE INSTITUTIONS

Highly selective colleges and universities generally do not publish specific admission requirements but instead consider averages in areas such as test scores, class rank, and overall course preparation. Students interested in these institutions are encouraged to complete four years each of English, mathematics (Algebra I and higher), science, and social studies, along with four years of the same world language, though language expectations may vary by college. Competitive applicants typically demonstrate academic rigor by taking the most challenging courses available, earning exemplary ACT or SAT scores, and maintaining a high level of academic performance. In addition, their extracurricular involvement should reflect initiative, leadership, and meaningful participation both in and out of school. All components of the application—essays, recommendations, and activity records—should work together to present a cohesive and compelling picture of the student's accomplishments and potential.

NCAA CLEARINGHOUSE REQUIREMENTS FOR STUDENT ATHLETES

Students aspiring to participate in Division I or Division II athletics must register with the **NCAA Eligibility Center** at eligibilitycenter.org following their junior year. To be eligible, student-athletes must complete the required **16 core courses** and meet corresponding **test score standards** as outlined on the NCAA website. Of these 16 courses, **10 must be completed before the start of the seventh semester (senior year), and seven of the 10 must be in English, mathematics, or natural/physical science**. Students should review their course selections with their school counselor each semester to ensure they are meeting NCAA requirements. It is ultimately the student and family's responsibility to verify eligibility. Please note that not all OTHS courses are NCAA-approved; approved courses are identified within each department by the designation "NCAA."

DIVISION I	CORE COURSES	DIVISION II
4	English	3
3	Math (Algebra 1 & above)	2
2	Science	2
1	Additional English, Math, or Science	3
2	Social Studies	2
4	Additional courses, including World Language	4
16	TOTAL CORE COURSES	16

COLLEGE CREDIT OPPORTUNITIES

ADVANCED PLACEMENT® (AP®) COURSES

Students may earn potential college credit by enrolling in Advanced Placement® (AP®) courses offered at OTHS. Enrollment is based on meeting academic criteria, and students are responsible for all fees associated with the course and exam. Earning college credit depends on the score achieved on the optional AP® Exam and the individual college or university's credit-awarding policy. Because these policies vary, students are encouraged to research how prospective institutions recognize AP® coursework and exam scores. Additional information is available through school counselors and AP® instructors.

Parents may request placement into an AP® course if the student does not meet the prerequisite criteria by completing a Parent Override Form. Students placed through this process are required to remain in the course until the end of the semester for which the override was approved. For more information, contact the School Counseling Department.

AP® courses currently offered at OTHS are:

SUBJECT	COURSES	GRADE LEVEL
Art	AP® Art & Design	12
	AP® 3D ART and Design	12
English	AP® SEMINAR	10
	AP® Literature and Composition	11
	AP® Language and Composition	12
Math	AP® Pre Calculus	11 or 12
	AP® Calculus AB	12
	AP® Calculus BC	12
	AP® Statistics	11 or 12
Music	AP® Music Theory	10,11,12
Science	AP® Biology	11 or 12
	AP® Chemistry	11 or 12
	AP® Physics 1	11 or 12
	AP® Physics 2	11 or 12
Social Studies	AP® European History	10, 11, 12
	AP® Macroeconomics	10, 11, 12
	AP® US History	11 or 12
	AP® Psychology	12
World Language	AP® French Language & Culture	12
	AP® German Language & Culture	12
	AP® Spanish Language & Culture	12

DUAL CREDIT COURSEWORK

DUAL CREDIT COURSES: Students may earn dual credit through St. Louis University or Southwestern Illinois College. A cumulative GPA of 3.0 or higher is recommended (see the Curriculum Guide for course-specific requirements). Students must have written approval from the principal, counselor, or teacher, complete all registration paperwork, meet testing and ID requirements (SWIC), and pay tuition by the deadline (SLU). Additional information is available in the OTHS Curriculum Guide, from School Counselors, or course instructors.

SOUTHWESTERN ILLINOIS COLLEGE DUAL CREDIT

OTHS Requirements to earn dual credit with SWIC are:

- Students must meet OTHS prerequisite requirements to enroll in the class
- Students must meet SWIC assessment prerequisites to be eligible to earn dual credit

OTHS COURSE NAME	SWIC COURSE NAME	SWIC COURSE CODE	POSSIBLE CREDITS	GRADE LEVEL
Advanced Applications (Excel)	Electronic Spreadsheet Basics	OAT 175	3	10-12
Advanced Applications (Word/PPT)	Word Processing	OAT 180	3	10-12
Adv. Digital Marketing and Social Media	Social Media Tools	MKT 228	3	11-12
AP® French Language & Culture	Elementary French 1 Fall Elementary French 2 Spring	FREN 101 FREN 102	4 4	11-12
AP® Spanish Language & Culture	Elementary Spanish 1 Fall Elementary Spanish 2 Spring	SPAN 101 SPAN 102	4 4	11-12
AP® United States History A	U.S. History to 1865	HIST 180	3	11-12
AP® United States History B	U.S. History, 1865 to the Present	HIST 181	3	11-12
Carpentry I	Building Trades Craft Survey I	CMT 145	4	10-12
Computer Networking	Introduction to Networking	NETW 101	3	10-12
Computer Programming (SM1)	Introduction to Programming	CIS 180	3	11-12
Computer Programming (SM2)	Python Programming	CIS 165	3	11-12
Construction I	Building Trades Craft Survey II	CMT 146	4	11-12
Cybersecurity	Cybersecurity Essentials	CISC 117	3	10-12
Drafting & Engineering Design	Introduction to Auto CAD	CAD 120	4	10-12
Engineering Design- CAD I	Manufacturing Processes	CAD 200	4	11-12
Foundations of Multimedia Production & Communication	Photo Manipulation	CIS 172	3	9-12
Honors Applied Psychology	Psychology 200	PSYC 200	3	12
Medical Terminology	Medical Terminology	HRO 160	3	11-12
Personal Finance	Personal Finance	MGMT 117	3	11-12
Public Speaking	Fundamentals of Public Speaking	COMM 151	3	12
Psychology/ AP® Psychology	General Psychology	PSYC 151	3	12
Silver Creek Area CEO (Creating Entrepreneurial Opportunities)	Entrepreneur Basics Business Plan Basics	MGMT 201 MGMT 203	3 1	12
Technical Drawing & Engineering Design	Intro to Drafting and Design	CAD 101	3	ALL
Theatre Literature	Drama as Literature	LIT 125	3	11-12
Video Production	Video Graphics	CIS 230	3	10-12
Welding I	Introduction to Welding	WLDT 101	5	10-12
Yearbook Design & Production	Photo Manipulation	CIS 172	3	10-12

SAINT LOUIS UNIVERSITY 1818 ADVANCED COLLEGE CREDIT

OTHS Requirements to earn dual credit with SLU are:

- Students must meet OTHS prerequisite requirements to enroll in the class.
- Carry a cumulative GPA of 3.0
- Be approved by the high school.

OTHS COURSE NAME	SLU COURSE NAME	SLU COURSE CODE	POSSIBLE CREDITS	GRADE LEVEL
AP® Biology (full year)	Principles of Biology I Principles of Biology Lab	BIOL 1240 BIOL 1245	3 1	11-12
AP® Calculus AB (full year) AP® Calculus BC (full year)	Calculus I	MATH 1510	4	11-12
AP® Chemistry (SM 1)	General Chemistry 1 General Chemistry 1 Lab	CHEM 1110 CHEM 1115	3 1	11-12
AP® Chemistry (SM 2)	General Chemistry 2 General Chemistry 2 Lab	CHEM 1120 CHEM 1125	3 1	11-12
AP® Language & Composition (full year)	Advanced Strategies of Rhetoric and Research	ENG 1900	3	12
AP® Descriptive and Inferential Statistics (full year)	Elementary Statistics with Computers	MATH 1300	3	11-12

TRANSFERABILITY OF DUAL CREDIT COURSEWORK

It is the responsibility of students and families to contact prospective post-secondary institutions to articulate exactly how dual credit coursework will transfer. We encourage families to research transferability of dual credit coursework through SWIC and SLU using the following external resources:

[Transferology.com](https://www.transferology.com) is a free site that requires account creation. It allows you to list all your SLU 1818 courses and search through participating universities to see how the credits traditionally are articulated at the institution. Saint Louis University is a partner institution of the website and regularly updates its courses to ensure maximum accuracy.

The [UConn external transferability database](https://www.uconn.edu/transferability) has compiled transfer data from institutions across the country and provides a one to three star ranking on the likelihood of an institution accepting dual credit courses in general.

These resources are only to be used as a guide and cannot guarantee the success of credit transfer.

FRESHMAN COURSE OFFERINGS

AIR FORCE JUNIOR ROTC

AFJROTC 1 LEADERSHIP & AEROSPACE

ART

ART 1

CERAMICS 1

CTE BUSINESS

BUSINESS OWNERSHIP

FOUNDATIONS OF MULTIMEDIA PRODUCTION &
COMMUNICATION

MICROSOFT OFFICE APPLICATIONS

TECHNOLOGY ESSENTIALS

ENGLISH

APPRECIATION OF LITERATURE

APPRECIATION OF RHETORIC

HONORS WORLD LITERATURE 1

HONORS APPRECIATION OF RHETORIC

HEALTH/PE/DRIVER ED

HEALTH

FRESHMAN PHYSICAL EDUCATION

INTRODUCTION TO STRENGTH TRAINING

ADAPTIVE PHYSICAL EDUCATION

DRIVER EDUCATION

CTE INDUSTRIAL TECHNOLOGY & ENGINEERING

TECHNICAL DRAWING & ENGINEERING DESIGN

MATHEMATICS

INTRODUCTION TO ALGEBRA

ADVANCED ALGEBRA 1

HONORS ALGEBRA 1

HONORS GEOMETRY

PERFORMING ARTS

FRESHMAN CHOIR

FRESHMAN CONCERT BAND

MARCHING BAND FALL

MARCHING BAND COLOR GUARD FALL

SPRING COLOR GUARD (SPRING)

SCIENCE

BIOLOGY

HONORS BIOLOGY

INTEGRATED LIFE SCIENCE

SOCIAL STUDIES

CIVICS

EARLY AMERICAN HISTORY

SOCIAL ISSUES

WORLD GEOGRAPHY

SPECIAL EDUCATION

APPRECIATION OF LITERATURE

APPRECIATION OF RHETORIC

CIVICS

HEALTH

INTRODUCTION TO ALGEBRA

RESOURCE STUDY SKILLS

TECHNOLOGY ESSENTIALS

WORLD LANGUAGE

FRENCH 1

GERMAN 1

SPANISH 1

ELECTIVE COURSES

ESSENTIAL STUDY SKILLS

LIFE MANAGEMENT SKILLS

SOPHOMORE COURSE OFFERINGS

AIR FORCE JUNIOR ROTC

AFJROTC 1 LEADERSHIP & AEROSPACE
AFJROTC 2 LEADERSHIP & AEROSPACE

ART

ART 1
ART 2
CERAMICS 1
CERAMICS 2
3D MODELING, ANIMATION & 3D PRINTING 1
3D MODELING, ANIMATION & 3D PRINTING 2

CTE BUSINESS

ACCOUNTING 1
HONORS ACCOUNTING 1
INTRODUCTION TO ARTIFICIAL INTELLIGENCE (AI)
COMPUTER NETWORKING
CYBERSECURITY
MICROSOFT OFFICE APPLICATIONS
ADVANCED APPLICATIONS – EXCEL
ADVANCED APPLICATIONS – WORD/POWERPOINT
FOUNDATIONS OF MULTIMEDIA PRODUCTION &
COMMUNICATION
TECHNOLOGY ESSENTIALS
VIDEO PRODUCTION
ADVANCED VIDEO PRODUCTION 1
YEARBOOK DESIGN & PRODUCTION

ENGLISH

AP[®] SEMINAR
WORLD LITERATURE
WRITTEN COMMUNICATION

CTE FAMILY & CONSUMER SCIENCE

CULINARY 1
EARLY CHILDHOOD EDUCATION
GROWTH & DEVELOPMENT OF CHILDREN

CTE HEALTH SCIENCE

HEALTH OCCUPATIONS

HEALTH/PE/DRIVER EDUCATION

DRIVER EDUCATION
HEALTH
RECREATIONAL PHYSICAL EDUCATION
STRENGTH & CONDITIONING
TEAM SPORTS
TOTAL BODY FITNESS
PHYSICAL EDUCATION INDIVIDUALIZED INSTRUCTION

CTE INDUSTRIAL TECHNOLOGY & ENGINEERING

TECHNICAL DRAWING & ENGINEERING DESIGN
BEGINNING WELDING
CARPENTRY
DRAFTING & ENGINEERING DESIGN
ELECTRICAL APPLICATIONS
3D MODELING, ANIMATION & 3D PRINTING 1
3D MODELING, ANIMATION & 3D PRINTING 2
SMALL ENGINE REPAIR
WELDING TECHNOLOGY 1

MATHEMATICS

GEOMETRY WITH ALGEBRA
ADVANCED GEOMETRY
ADVANCED ALGEBRA 2
HONORS GEOMETRY
HONORS ALGEBRA 2

PERFORMING ARTS

HONORS CHAMBER ENSEMBLE (FALL)
CHAMBER ENSEMBLE (SPRING)
CONCERT CHOIR
MIXED CHORALE
VOCAL JAZZ (EARLY BIRD FALL)
CONCERT WINDS (FALL)
MARCHING BAND (FALL)
MARCHING BAND COLOR GUARD (FALL)
SPRING COLOR GUARD (SPRING)
SYMPHONIC BAND (SPRING)
SYMPHONIC WINDS (SPRING)
HONORS WIND ENSEMBLE (SPRING)
BEGINNING GUITAR/MUSIC APPRECIATION (FALL)
AP[®] MUSIC THEORY (FALL)
JAZZ BAND (EARLY BIRD SPRING)

SOPHOMORE COURSE OFFERINGS

SCIENCE

BIOLOGY 1
CHEMISTRY 1
GEOLOGY
HONORS CHEMISTRY 1
INTEGRATED LIFE SCIENCE
PHYSICS 1
PHYSICAL/EARTH SCIENCE

SOCIAL STUDIES

AMERICAN CIVIL WAR
AMERICAN GOVERNMENT
AP[®] EUROPEAN HISTORY
AP[®] MACROECONOMICS
AREA STUDIES
INTERNATIONAL RELATIONS
THE AMERICAN LEGAL SYSTEM
UNITED STATES HISTORY A
UNITED STATES HISTORY B
WESTERN CIVILIZATION

SPECIAL EDUCATION

BIOLOGY
CIVICS
DRIVER EDUCATION
HEALTH
MICROSOFT OFFICE APPLICATIONS
MODERN HISTORY
PHYSICAL/EARTH SCIENCE
RESOURCE STUDY SKILLS
WORLD GEOGRAPHY
WORLD LITERATURE
WRITTEN COMMUNICATION

WORLD LANGUAGE

FRENCH 1
FRENCH 2
GERMAN 1
GERMAN 2
SPANISH 1
SPANISH 2

ELECTIVE COURSES

ESSENTIAL STUDY SKILLS
LIFE MANAGEMENT SKILLS

JUNIOR COURSE OFFERINGS

AIR FORCE JUNIOR ROTC

AFJROTC 1 LEADERSHIP & AEROSPACE
AFJROTC 2 LEADERSHIP & AEROSPACE
AFJROTC 3 LEADERSHIP & AEROSPACE

ART

ART 1
ART 2
ART 3
CERAMICS 1
CERAMICS 2
CERAMICS 3
CERAMICS 4
3D MODELING, ANIMATION & 3D PRINTING 1
3D MODELING, ANIMATION & 3D PRINTING 2

CTE BUSINESS

ACCOUNTING 1
HONORS ACCOUNTING 1
ACCOUNTING 2
ADVANCED APPLICATIONS – EXCEL
ADVANCED APPLICATIONS – WORD/POWERPOINT
COMPUTER NETWORKING
COMPUTER PROGRAMMING
CYBERSECURITY
INTRODUCTION TO ARTIFICIAL INTELLIGENCE (AI)
MARKETING
ADVANCED DIGITAL MARKETING & SOCIAL MEDIA
MICROSOFT OFFICE APPLICATIONS
FOUNDATIONS OF MULTIMEDIA PRODUCTION & COMMUNICATION
PERSONAL FINANCE
VIDEO PRODUCTION
ADVANCED VIDEO PRODUCTION 1, 2, 3
YEARBOOK DESIGN & PRODUCTION

CTE FAMILY & CONSUMER SCIENCE

CULINARY 1
CULINARY 2
CULINARY 3
EARLY CHILDHOOD EDUCATION
GROWTH AND DEVELOPMENT OF CHILDREN
FAMILY HEALTH MAINTENANCE

CTE HEALTH SCIENCE

HEALTH OCCUPATIONS
MEDICAL TERMINOLOGY
FOUNDATIONS OF COMMUNITY HEALTH & ADVOCACY

CTE INDUSTRIAL TECHNOLOGY & ENGINEERING

TECHNICAL DRAWING & ENGINEERING DESIGN
DRAFTING & ENGINEERING DESIGN
ENGINEERING DESIGN (CAD) 1
ENGINEERING DESIGN (CAD) 2
CARPENTRY
CONSTRUCTION 1
CONSTRUCTION 2 – ADVANCED BUILDING TRADES
ELECTRICAL APPLICATIONS
BEGINNING WELDING
WELDING TECHNOLOGY 1
WELDING TECHNOLOGY 2
3D MODELING, ANIMATION & 3D PRINTING 1
3D MODELING, ANIMATION & 3D PRINTING 2
SMALL ENGINE REPAIR

ENGLISH

AMERICAN LITERATURE
AP[®] LITERATURE AND COMPOSITION
CONTEMPORARY THEMES IN LITERATURE
EXPOSITORY WRITING 1
GLOBAL VOICES IN LITERATURE
GREAT BOOKS
PRINCIPLES OF COMPOSITION
THEATRE LITERATURE
WORLD MYTHOLOGY

HEALTH/PE/DRIVER ED

DRIVER EDUCATION
HEALTH
PERSONAL AND COMMUNITY WELLNESS
RECREATIONAL PHYSICAL EDUCATION
STRENGTH & CONDITIONING
TEAM SPORTS
TOTAL BODY FITNESS
PHYSICAL EDUCATION INDIVIDUALIZED INSTRUCTION

MATHEMATICS

GEOMETRY WITH ALGEBRA
ALGEBRA 1
ALGEBRA 2
COLLEGE ALGEBRA
ADVANCED GEOMETRY
ADVANCED ALGEBRA 2
ADVANCED PRE-CALCULUS WITH TRIGONOMETRY
HONORS ALGEBRA 2
PRECALCULUS WITH TRIGONOMETRY
CALCULUS
AP[®] STATISTICS
AP[®] PRE CALCULUS
AP[®] CALCULUS AB
AP[®] CALCULUS BC

PERFORMING ARTS

HONORS CHAMBER ENSEMBLE (FALL)
CHAMBER ENSEMBLE (SPRING)
MIXED CHORALE
CONCERT CHOIR
MARCHING BAND (FALL)
MARCHING BAND COLOR GUARD (FALL)
SPRING COLOR GUARD (SPRING)
SYMPHONIC BAND (SPRING)
SYMPHONIC WINDS (SPRING)
CONCERT WINDS (FALL)
HONORS WIND ENSEMBLE
BEGINNING GUITAR/MUSIC APPRECIATION (FALL)
AP[®] MUSIC THEORY (FALL)
JAZZ BAND (EARLY BIRD SPRING)
VOCAL JAZZ (EARLY BIRD FALL)

SCIENCE

AP[®] BIOLOGY
AP[®] CHEMISTRY
AP[®] PHYSICS 1
AP[®] PHYSICS 2
BIOLOGY 1
CHEMISTRY 1
CHEMISTRY 2
ENVIRONMENTAL SCIENCE
FORENSICS
GEOLOGY
HONORS CHEMISTRY 1
HONORS HUMAN ANATOMY & PHYSIOLOGY
INTEGRATED LIFE SCIENCE
INTRODUCTION TO ASTRONOMY
PHYSICAL EARTH SCIENCE
PHYSICS 1
PHYSICS 2

SOCIAL STUDIES

AMERICAN CIVIL WAR
AMERICAN GOVERNMENT
AP[®] EUROPEAN HISTORY
AP[®] MACROECONOMICS
AP[®] UNITED STATES HISTORY A & B
AREA STUDIES
DIVERSITY & GROWTH IN AMERICA
INTERNATIONAL RELATIONS
SOCIOLOGY
THE AMERICAN LEGAL SYSTEM
THE SIXTIES IN AMERICA
UNITED STATES HISTORY A & B
WESTERN CIVILIZATION

SPECIAL EDUCATION

ALGEBRA 1
ALGEBRA 2
BIOLOGY
CONTEMPORARY THEMES IN LITERATURE
DRIVER EDUCATION
HEALTH
INTRODUCTION TO ALGEBRA
INTRODUCTION TO GEOMETRY
MICROSOFT OFFICE APPLICATIONS
MODERN HISTORY
PERSONAL FINANCE
PHYSICAL/EARTH SCIENCE
PRINCIPLES OF COMPOSITION
RESOURCE STUDY SKILLS
UNITED STATES HISTORY
WORLD GEOGRAPHY

WORLD LANGUAGE

FRENCH 1
FRENCH 2
HONORS FRENCH 3
GERMAN 1
GERMAN 2
HONORS GERMAN 3
SPANISH 1
SPANISH 2
HONORS SPANISH 3

ELECTIVE COURSES

ESSENTIAL STUDY SKILLS
LIFE MANAGEMENT SKILLS

SENIOR COURSE OFFERINGS

AIR FORCE JUNIOR ROTC

AFJROTC 1 LEADERSHIP & AEROSPACE
AFJROTC 2 LEADERSHIP & AEROSPACE
AFJROTC 3 LEADERSHIP & AEROSPACE
AFJROTC 4 LEADERSHIP & AEROSPACE

ART

ART 1
ART 2
ART 3
AP® ART AND DESIGN
CERAMICS 1
CERAMICS 2
CERAMICS 3
CERAMICS 4
3D MODELING, ANIMATION & 3D PRINTING 1
3D MODELING, ANIMATION & 3D PRINTING 2
AP® 3D ART & DESIGN

CTE BUSINESS

ACCOUNTING 1
HONORS ACCOUNTING 1
ACCOUNTING 2
ADVANCED APPLICATIONS – EXCEL
ADVANCED APPLICATIONS – WORD/POWERPOINT
INTRODUCTION TO ARTIFICIAL INTELLIGENCE (AI)
CEO – BUSINESS LEADERSHIP
COMPUTER NETWORKING
COMPUTER PROGRAMMING
CTE – WORK EXPERIENCE
CYBERSECURITY
MARKETING
ADVANCED DIGITAL MARKETING & SOCIAL MEDIA
MICROSOFT OFFICE APPLICATIONS
FOUNDATIONS OF MULTIMEDIA PRODUCTION & COMMUNICATION
PERSONAL FINANCE
VIDEO PRODUCTION
ADVANCED VIDEO PRODUCTION 1, 2, 3, 4
YEARBOOK DESIGN & PRODUCTION

ENGLISH

AMERICAN LITERATURE
GREAT BOOKS
GLOBAL VOICES IN LITERATURE
PUBLIC SPEAKING
THEATER LITERATURE
WORLD MYTHOLOGY

SENIOR WRITING SEMINAR

EXPOSITORY WRITING 2

AP® LANGUAGE AND COMPOSITION

CTE HEALTH SCIENCE

HEALTH OCCUPATIONS
MEDICAL TERMINOLOGY
FOUNDATIONS OF COMM. HEALTH & ADVOCACY

CTE FAMILY & CON. SCIENCE

CULINARY 2
CULINARY 3
EARLY CHILDHOOD EDUCATION
GROWTH AND DEVELOPMENT OF CHILDREN
FAMILY HEALTH MAINTENANCE

HEALTH/PE/DRIVER ED

DRIVER EDUCATION
HEALTH
PERSONAL AND COMMUNITY WELLNESS
RECREATIONAL PHYSICAL EDUCATION
STRENGTH & CONDITIONING
TEAM SPORTS
TOTAL BODY FITNESS
PHYSICAL EDUCATION INDIVIDUALIZED
INSTRUCTION

CTE INDUSTRIAL TECHNOLOGY & ENGINEERING

TECHNICAL DRAWING & ENGINEERING DESIGN
DRAFTING & ENGINEERING DESIGN
ENGINEERING DESIGN (CAD) 1
ENGINEERING DESIGN (CAD) 2
CARPENTRY
CONSTRUCTION 1
CONSTRUCTION 2 – ADVANCED BUILDING TRADES
ELECTRICAL APPLICATIONS
BEGINNING WELDING
WELDING TECHNOLOGY 1
WELDING TECHNOLOGY 2
3D MODELING, ANIMATION & 3D PRINTING 1
3D MODELING, ANIMATION & 3D PRINTING 2
SMALL ENGINE REPAIR

SENIOR COURSE OFFERINGS

MATHEMATICS

GEOMETRY WITH ALGEBRA
ALGEBRA 1
ALGEBRA 2
COLLEGE ALGEBRA
ADVANCED ALGEBRA WITH FINANCIAL APPLICATIONS
ADVANCED GEOMETRY
ADVANCED ALGEBRA 2
ADVANCED PRE-CALCULUS WITH TRIGONOMETRY
HONORS ALGEBRA 2
PRECALCULUS WITH TRIGONOMETRY
CALCULUS
AP[®] STATISTICS
AP[®] PRE-CALCULUS
AP[®] CALCULUS AB
AP[®] CALCULUS BC

PERFORMING ARTS

HONORS CHAMBER ENSEMBLE (FALL)
CHAMBER ENSEMBLE (SPRING)
MIXED CHORALE
CONCERT CHOIR
MARCHING BAND (FALL)
MARCHING BAND COLOR GUARD (FALL)
SPRING COLOR GUARD (SPRING)
SYMPHONIC BAND (SPRING)
SYMPHONIC WINDS (SPRING)
CONCERT WINDS (FALL)
HONORS WIND ENSEMBLE
BEGINNING GUITAR/MUSIC APPRECIATION (FALL)
AP[®] MUSIC THEORY (FALL)
JAZZ BAND (EARLY BIRD SPRING)
VOCAL JAZZ (EARLY BIRD FALL)

SCIENCE

AP[®] BIOLOGY
AP[®] CHEMISTRY
AP[®] PHYSICS 1
AP[®] PHYSICS 2
BIOLOGY 1
CHEMISTRY 1
CHEMISTRY 2
ENVIRONMENTAL SCIENCE
FORENSICS
GEOLOGY
HONORS CHEMISTRY 1
HONORS HUMAN ANATOMY & PHYSIOLOGY
INTEGRATED LIFE SCIENCE
INTRODUCTION TO ASTRONOMY
PHYSICAL EARTH SCIENCE
PHYSICS 1
PHYSICS 2

SOCIAL STUDIES

AMERICAN CIVIL WAR
AMERICAN GOVERNMENT
AP[®] EUROPEAN HISTORY
AP[®] MACROECONOMICS
AP[®] PSYCHOLOGY
AP[®] UNITED STATES HISTORY A & B
AREA STUDIES
DIVERSITY & GROWTH IN AMERICA
HONORS APPLIED PSYCHOLOGY
INTERNATIONAL RELATIONS
PSYCHOLOGY
SOCIOLOGY
THE AMERICAN LEGAL SYSTEM
THE SIXTIES IN AMERICA
UNITED STATES HISTORY A & B
WESTERN CIVILIZATION

SPECIAL EDUCATION

ALGEBRA 1
ALGEBRA 2
BIOLOGY
CTE – WORK EXPERIENCE
DRIVER EDUCATION
HEALTH
INTRODUCTION TO ALGEBRA
INTRODUCTION TO GEOMETRY
MICROSOFT OFFICE APPLICATIONS
MODERN HISTORY
PERSONAL FINANCE
PHYSICAL/EARTH SCIENCE
RESOURCE STUDY SKILLS
SENIOR WRITING SEMINAR
THEATRE LITERATURE
UNITED STATES HISTORY
WORLD GEOGRAPHY

WORLD LANGUAGE

FRENCH 1
FRENCH 2
HONORS FRENCH 3
AP[®] FRENCH LANGUAGE AND CULTURE
GERMAN 1
GERMAN 2
HONORS GERMAN 3
AP[®] GERMAN LANGUAGE AND CULTURE
SPANISH 1
SPANISH 2
HONORS SPANISH 3
AP[®] SPANISH LANGUAGE AND CULTURE

AIR FORCE JUNIOR ROTC DEPARTMENT

Colonel Emily Derry, Department Chairperson

AIR FORCE JUNIOR ROTC DEPARTMENT

Air Force Junior ROTC (AFJROTC) Courses – Philosophy and Objectives

The mission of the AFJROTC program is to “Develop citizens of character dedicated to serving their nation and community.”

The goals of the AFJROTC program are to instill:

- ☐ The values of citizenship,
- ☐ Service to the United States,
- ☐ Personal responsibility, and
- ☐ A sense of accomplishment.

The objectives of AFJROTC are to educate and train students in citizenship and life skills; promote community service; instill a sense of responsibility; and develop character and self-discipline through education and instruction in air and space fundamentals and the Air Force's core values:

- ☐ Integrity First
- ☐ Service Before Self
- ☐ Excellence In All We Do

Course Materials

All books, materials, and uniforms are provided at no cost to the student. All students are required to pay a \$100 annual activity fee to pay for equipment and personal items not supplied by the Air Force. All AFJROTC courses require the student to wear the uniform once a week to all classes. **In addition, the student is required to meet USAF grooming standards as they relate to hair, jewelry, earrings, facial hair, etc.**

Obligations and Benefits

Students participating in the program do not incur any military obligation. This program will enable the students to:

- ☐ Develop a high degree of strong morals, self-esteem, self-reliance, personal appearance, and leadership.
- ☐ Adhere to the values of integrity, service, and excellence.
- ☐ Increase their understanding of patriotism and responsibilities as US citizens.
- ☐ Participate in community service activities.
- ☐ Expand their skills of critical thinking and problem solving, communication and collaboration, and creativity and innovation.
- ☐ Demonstrate military customs, courtesies, and traditions and develop habits of order, discipline, and social skills.
- ☐ Acquire a broad-based knowledge of aerospace studies and leadership education.
- ☐ Strive to graduate from high school and prepare for college and careers in the 21st-century.
- ☐ Cultivate a commitment to physical fitness and a healthy lifestyle.

Course Offerings

Three AFJROTC courses are typically offered each year. Each course has three components: aerospace science (40%), leadership (40%), and wellness program/physical fitness training (20%). AFJROTC 1 is offered every year and is the first AFJROTC course taken by a student new to the program. AFJROTC 2 will be offered to second year cadets and AFJROTC 3 will be offered to third year cadets. These are the intermediate courses. AFJROTC 4 is our advanced course and is offered every year to qualifying fourth year cadets.

Air Force JROTC Program

The purpose of AFJROTC is to stimulate student interest in the aerospace age, to strengthen character and self-discipline, to encourage completion of high school and pursuit of higher educational goals, and to acquaint students with the role of the military in national security policy. Military protocol is followed in the classroom and students are required to show respect to our flag and country.

The OTHS AFJROTC is a unique elective course, combining academic classroom instruction with other activities, including (but not limited to) military uniform wear & drill, physical fitness training, community service, and extracurricular activities. Students enrolled in AFJROTC are expected to conduct themselves in accordance with the AFJROTC Cadet Guide, to meet specific standards as outlined by the Senior Aerospace Science Instructor (SASI), and to participate in the program's various activities. Although only as a last resort, students/cadets may be disenrolled from the AFJROTC program at the discretion of the SASI, in coordination with the OTHS administration. A cadet may be disenrolled for:

- Failure to maintain acceptable standards/failure to wear the uniform.
- Inaptitude or indifference to training.
- Disciplinary reasons.
- Failure to participate in required AFJROTC events (such as monthly commanders' calls and required flight-level activities).
- Individual request.
- Bullying.
- Failure to complete community service hours.
- Failure to promote on 2 consecutive semesters.
- Any other reason deemed appropriate by the SASI.

AIR FORCE JUNIOR ROTC DEPARTMENT

Colonel Emily Derry, Department Chairperson

AFJROTC 1 LEADERSHIP & AEROSPACE

Full Year 1 credit per full year

Open to all levels

Prerequisite: Open to all beginning students

Aerospace Science

This is the recommended first AS course for all new cadets. It is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations and flight, then progresses through time to future developments in aerospace, with an introduction into cyber technologies. The intent of this textbook is to bring alive the significant discoveries in flight a reality. This book tells the story of why we are so proud of our Air Force heritage — laying the foundation for future Air Force JROTC aerospace science courses. Throughout the course 21st-century learning is adopted with readings, video clips, hands-on learner centered activities, and chapter project-based learning opportunities.

Leadership Education

LE 100 is the component of JROTC leadership education. It is intended for students who are entering the AFJROTC program and beginning their high school studies. It introduces cadets to history, organization, mission, traditions, goals, and objectives of JROTC for all services. It also introduces key military customs and courtesies, describes how to project a positive attitude, and examines the principles of ethical and moral behavior. It provides strategies for effective note-taking and study skills for academic success. Lessons cover how to be emotionally, mentally, and physically healthy. Avoiding and preventing violence in today's society will also be covered. Recognizing types of bullying and how to advocate for prevention of this type of behavior. It covers healthy living, physical fitness, and how to make safe, drug-free, and responsible decisions. This textbook also examines the negative effects of air and water pollution, and how to help keep the environment safe.

Cadets will be introduced to civics and our national government, including a historical understanding of the American flag and other important national symbols. The final chapter covers how the US Constitution protects our rights and freedoms as American citizens.

Wellness (Physical Fitness)

The wellness program consists of exercise programs focused upon individual baseline improvements and achieving AFJROTC standards. The wellness program develops all muscle groups and provides a combination of aerobic and anaerobic intensity, requiring no equipment. During the course of the year, students are assigned weekly physical fitness activities. Student progress is evaluated during an initial Cadet Fitness Assessment in the fall semester; during a final Cadet Fitness Assessment in the spring semester; and as part of both the fall and spring final examination process.

AFJROTC 2 LEADERSHIP & AEROSPACE

Full Year 1 credit per full year

Open to all levels

Prerequisite: Completion of AFJROTC 1

Aerospace Science: Cultural Studies-An Introduction to Global Awareness Part I

This is a customized course about the world's cultures, specifically designed for AFJROTC programs. It introduces students to the world's cultures through the study of world affairs, regional studies, and cultural awareness. The course delves into history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns, and human rights. It looks at major events and significant figures that have shaped each region. Regions covered can include Africa, Latin America, and Europe.

Aerospace Science (Spring semester): The Science of Flight (Units 1 & 4)

The Science of Flight: The second/third year Aerospace Science course is designed to acquaint the student with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. Unit 1 (Principles of Aircraft flight) includes sections studying the forces of lift, drag, thrust, and weight. In Unit 4 (Principles of Navigation) students learn basic navigation, including map reading, course plotting, and the effects of wind.

Leadership Education: Communication, Awareness, and Leadership

This course stresses communications skills and cadet corps activities. Information is provided on communicating effectively, understanding groups and teams, preparing for leadership, solving conflicts and problems, and personal development. Written reports and speeches complement the academic materials. Corps activities include holding positions of greater responsibility in the planning and execution of corps projects. Weekly uniform inspections and unit drill are also incorporated into the leadership curriculum, and a drill evaluation is included as part of both the fall and spring final examination process.

Wellness (Physical Fitness)

The wellness program consists of exercise programs focused upon individual baseline improvements and achieving AFJROTC standards. The wellness program develops all muscle groups and provides a combination of aerobic and anaerobic intensity, requiring no equipment. During the course of the year, students are assigned weekly physical fitness activities. Student progress is evaluated during an initial Cadet Fitness Assessment in the fall semester; during a final Cadet Fitness Assessment in the spring semester; and as part of both the fall and spring final examination process.

AIR FORCE JUNIOR ROTC DEPARTMENT

Colonel Emily Derry, Department Chairperson

AFJROTC 3 LEADERSHIP & AEROSPACE

Full Year 1 credit per full year

Open to all levels

Prerequisite: Completion of AFJROTC 1 and AFJROTC 2

Aerospace Science: Cultural Studies-An Introduction to Global Awareness Part II

This is a customized course about the world's cultures, specifically designed for AFJROTC programs. It introduces students to the world's cultures through the study of world affairs, regional studies, and cultural awareness. The course delves into history, geography, religions, languages, culture, political systems, economics, social issues, environmental concerns, and human rights. It looks at major events and significant figures that have shaped each region. Regions covered could include the Middle East, Asia, Australia and Oceania, and North America

Aerospace Science: The Science of Flight (Units 2 & 3)

The second/third year Aerospace Science course is designed to acquaint the student with the aerospace environment, the human requirements of flight, principles of aircraft flight, and principles of navigation. Unit 2 begins with a discussion of the atmosphere and weather. Next, how that environment affects flight is introduced. Unit 3, flight and the human body, is a survey course on human physiology, including the human circulatory system, the effects of acceleration and deceleration, and protective equipment.

Leadership Education: Life Skills and Career Opportunities

Topics include information on financial planning; how to save, invest, and spend money wisely, and how to avoid credit traps. Students are informed on real life issues such as understanding contracts, leases, wills, warranties, legal notices, and personal bills. Students will learn discuss practical money-saving strategies from grocery shopping to apartment selection and handling issues with roommates. Information is provided on preparing resumes and interviewing. Students also study how to decide what career paths to follow. Weekly uniform inspections and unit drill are also incorporated into the leadership curriculum, and a drill evaluation is included as part of both the fall and spring final examination process.

Wellness (Physical Fitness)

The wellness program consists of exercise programs focused upon individual baseline improvements and achieving AFJROTC standards. The wellness program develops all muscle groups and provides a combination of aerobic and anaerobic intensity, requiring no equipment. During the course of the year, students are assigned weekly physical fitness activities. Student progress is evaluated during an initial Cadet Fitness Assessment in the fall semester; during a final Cadet Fitness Assessment in the spring semester; and as part of both the fall and spring final examination process.

AFJROTC 4 LEADERSHIP & AEROSPACE

Full Year 1 credit per full year

Open to all levels

Prerequisite: Completion of AFJROTC 1, AFJROTC 2 and AFJROTC 3 with the grade of an "A" or "B"

Application and Instructor approval is required.

Aerospace Science: Management of the Cadet Corps / Survival

The Instructor will select from a combination of two courses. Management of the Cadet Corps provides hands-on experience and the opportunity to put the theories of previous leadership courses into practice; all of the planning, organizing, coordinating, directing, controlling and decision-making will be done by the cadets. Cadets in this course prepare for a comprehensive formal inspection conducted by HQ AFJROTC or conduct an annual Self Inspection reported to HQ AFJROTC. The Survival course provides instruction in skills, knowledge, and attitudes necessary to successfully perform fundamental tasks needed for survival

Leadership Education: Principles of Management

This course provides exposure to the fundamentals of management, and is intended to equip students with the skills & qualities needed to serve in leadership positions within the Cadet Corps. The text includes case studies, ethical dilemmas, and review activities based on real world experiences.. Topics include the importance of sound management; the techniques and skills involved in planning & decision making; the importance of managing change, stress, and innovation; and the key elements of individual & group behavior, the communication process, and leadership characteristics. Weekly uniform inspections and unit drill are also incorporated into the leadership curriculum, and a drill evaluation is included as part of both the fall and spring final examination process.

Wellness (Physical Fitness)

The wellness program consists of exercise programs focused upon individual baseline improvements and achieving AFJROTC standards. The wellness program develops all muscle groups and provides a combination of aerobic and anaerobic intensity, requiring no equipment. During the course of the year, students are assigned weekly physical fitness activities. Student progress is evaluated during an initial Cadet Fitness Assessment in the fall semester; during a final Cadet Fitness Assessment in the spring semester; and as part of both the fall and spring final examination process.

STUDENT SUPPORT SERVICES DEPARTMENT

Beth Schroeder, Department Chairperson

STUDENT SUPPORT SERVICES DEPARTMENT

ESSENTIAL STUDY SKILLS (REGULAR ED)

1 Semester 1/2 credit per semester

Open to all levels

Prerequisite: School Counselor or staff recommendation

Essential Study Skills (ESS) is open to all OTHS students. Classes are divided by grade level, and instruction focuses on basic skills that students at each level need for academic success. Students will learn about organization, goal setting, time management, attention and focus, communication, note taking, studying, test taking, and other academic and life skills. The course will also include time devoted to completing homework, preparing for assessments, and individual and group tutoring for their other academic classes. Every week, students will track their progress in each of their academic classes and conference with the ESS teachers to receive individualized support. The ESS teachers will coordinate with students' academic teachers, parents, and other support staff to provide additional supports when necessary.

LIFE MANAGEMENT SKILLS (REGULAR ED)

1 Semester 1/2 credit per semester

Open to all levels

Prerequisite: Staff recommendation

Life Management Skills (LMS) is an elective course designed to teach and support students in making healthy and responsible decisions. Through a combination of interactive lessons, practical activities, and personalized support, students will set personal goals, track progress toward their goals, and transform their mindset so they can improve the regulation of their emotions, responses, and academic success. In addition, the course will allow time for one-on-one social work to address individual needs. This course aligns with the Illinois Social and Emotional Learning Standards and CASEL's SEL Framework.

ART DEPARTMENT

ART 1

Full Year 1/2 credit per semester

Open to all levels

Prerequisite: Open to all beginning students

This course is designed to foster awareness and understanding of basic art, as it relates to our modern society. Design problems are explored by using various media, which include graphite, ink, oil pastel, colored pencil, watercolor, and tempera paint. Art I students will learn to create art utilizing both 2 dimensional and 3-dimensional design techniques and processes. Students will become immersed in art history, artistic culture, design, art criticism, and art production.

ART 2

Full Year 1/2 credit per semester

Open to sophomores, juniors and seniors

Prerequisite: Completion of Art I with a grade of "B" or higher or Instructor consent.

This course is designed to build on the technical skills and learning established in Art I. Students will continue to be immersed in art history, artistic culture, design, art criticism, and art production. Students will apply this learning to better understand and create more complex compositions, while also learning how to work more regularly from their own photographs and imagination. Students will be expected to work at a more rigorous pace than in Art 1. Students will continue to use a variety of media, including graphite, ink, acrylic paint, colored pencil, and charcoal.

ART 3

Full Year 1/2 credit per semester

Open to juniors and seniors

Prerequisite: Completion of Art II with a grade of "B" or higher

This course is designed for the advanced student who is especially interested in the field of art. Students will continue their focus on art history, criticism, overcoming design challenges, and art production; however, there will be increased focus on the development and application of critical thinking skills. The student will explore more complex principles of visual expression with a variety of media, including graphite, colored pencil, acrylic paint, ink, charcoal, and mixed media approaches. Students will be challenged to develop ways of representing ideas visually, create more complex and unique compositions, and work exclusively from their own photographs. Students will have increased autonomy over their compositions and media choices, learn about art careers, and begin the development of an AP portfolio for AP Drawing or AP 2-D Design.

AP® ART AND DESIGN

Full Year 1/2 credit per semester

Open to seniors

PREREQUISITE: *Completion of Art III with a grade of "B" or higher*

This course is designed to prepare students to submit an AP® PORTFOLIO in AP® Drawing or AP® 2-D Design. It is geared for the student who has a deep interest in art, likely to enter some phase of the field after high school graduation. The course builds on the expectations of Art III and focuses on two areas of development: Sustained Investigation (15 or more pieces aimed at showing the development of personal art style) and Quality (5 pieces that are a demonstration of artistic excellence). Students will be required to produce a digital portfolio by the completion of the course. Students are encouraged to develop the mind set of an artist, exploring and visually translating the world around them.

CERAMICS 1

1 Semester 1/2 credit

Open to all levels

Prerequisite: Open to all beginning students

This course offers students a basic vocabulary of ceramics. The students will learn about the stages of clay that include greenware, bisqueware, and glazeware. Pottery techniques and methods such as relief sculpture, modeling, coil building, slab construction, and pinch pots will be used to develop skills creating a variety of projects. Decorative techniques will also be introduced, which include staining, impressed design, glazing, and slip. The students will apply these to create sculptures that express a variety of individual works. The students will complete approximately one project every week or two with a total of 6 – 8 total projects during the course. Project examples include coil pencil holders, Chia pets, wizards, and architectural birdhouses.

CERAMICS 2

1 Semester 1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: Completion of Ceramics I with a passing grade.

This course continues building upon the vocabulary and techniques from Ceramics 1, which includes the stages of clay, hand building techniques, decoration, and sculpture. The throwing wheel will also be introduced, and they will learn the history of the wheel. The students will create a variety of vessels that incorporate coil, slab, and sculpture hand building techniques. Projects include Southwest burnished pot, pressed mold pot, hidden box, thrown bowls, coffee mugs and a vase.

ART DEPARTMENT

Nicole Wilson, Department Chairperson

CERAMICS 2 (CONT...)

The students will also be introduced to a variety of decorative techniques that include inlay, slip trailing, sgraffito, burnishing, and onglaze. They will complete approximately 8-10 projects during the course.

CERAMICS 3

1 Semester

1/2 credit

Open to juniors and seniors

Prerequisite Completion of Ceramics 2 with a grade of "A" or "B" and Instructor Consent

This course builds upon the vocabulary and techniques from Ceramics 2. The students will learn more advanced technical skills and lessons focus upon visual problem solving, self-expression and skill development. The students will experience greater autonomy in their artistic choices. The projects will be larger and take longer than in Ceramics 1 and 2. There will be an emphasis on creating works to include in artistic portfolios. The students will complete approximately one project every month with a total of 4-5 total projects during the course.

CERAMICS 4

1 Semester

1/2 credit

Open to juniors and seniors

Prerequisite Completion of Ceramics 3 with a grade of "A" or "B" and Instructor Consent

This course builds upon the vocabulary and list of techniques from Ceramics 3. The students will learn more advanced technical skill and create rigorously with a focus upon visual problem solving, self-expression and skill development. The students will experience greater autonomy in their artistic choices and techniques and be required to create large and complex works of art that may be added to a previously started portfolio. Students will focus on the creation of pieces for public display and will complete approximately one project every month with a total of 4-5 total projects during the course.

AP® 3D ART AND DESIGN

Full Year

1/2 credit per semester

Open to seniors

Prerequisite: Completion of Ceramics 4 with a grade of "B" or higher or instructor consent

This course is designed to prepare students to submit a 3D Portfolio to the College Board. It is geared for the student who has a deep interest in the creation of 3-Dimensional works of art, primarily utilizing clay, and who is likely to enter the field of art and design following graduation. The course builds upon the techniques and expectations of the Ceramics curriculum and focuses on two areas of development:

AP® 3D ART AND DESIGN (CONT...)

Selected Works (10 digital images consisting of two views each of five works that demonstrate synthesis of materials, processes, and ideas), and Sustained investigation (15 digital images of works of art and process documentation that demonstrate sustained investigation through practice, experimentation, and revision). Students will be required to produce a digital portfolio by the completion of the course. Students are encouraged to develop the mindset of a professional artist, exploring, and visually translating the world around them.

3D MODELING, ANIMATION & 3D PRINTING 1

(CGI, Animation and 3D Printing)

1 Semester

1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: None

This course will be an exploration into current digital 3D computer modeling primarily using Blender, a free, open-source software. This course applies to students interested in a variety of industries and endeavors including:

- Manufacturing such as 3D printed fine art, commercial product design, architecture, and machinery.
- Medical, forensic, aerospace, geologic, and all other scientific fields that use models for simulations, products, and research.
- Entertainment such as the video game industry, web developer, graphic designer, and CGI for animation and films.

3D MODELING, ANIMATION & 3D PRINTING 2

(CGI, Animation and 3D Printing)

1 Semester

1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: Completion of 3D Modeling, Animation & 3D Printing 1 with a grade of "A" or "B" and Instructor Consent

This course will be taken to further explore current 3D design and Blender software techniques, building upon the technical aspects of 3D Modeling, Animation & 3D Printing 1. Students will also explore additional software of their choice as required for creating games, animations, and for production with 3D printers. 3D Modeling, Animation, & 3D Printing 2 is geared toward the artist with a deeper interest in digital art as a career and provides students with the autonomy to explore more complex and enriching themes artistically.

ART LABORATORY ASSISTANT

1 Semester 1/4 credit per semester

2 Semester Limit – Pass/Fail Option Only

Open to juniors and seniors

Prerequisite: Successful completion of advanced-level coursework AND written consent from the instructor who they will assist.

The Art Department Lab Assistant is a course designed for a student who is enrolled in or has completed an advanced level art course (i.e. Ceramics 3 or 4, Art 3 or AP Art, or 3D Modeling 2). No more than 1 laboratory assistant will be assigned to any art teacher during a given semester. This course is designed for a student who is passionate about the arts, inherently creative, attentive, and highly organized. This course is designed for a student interested in supporting the classroom art teacher in many capacities, including: cleaning and organizing art room media and equipment, creating display's in classrooms and throughout the building, preparing supplies for demonstrations, and assisting with the culminating spring semester art show.

Note: In order for a student to be a Lab Assistant, it must be their sixth class.

CAREER & TECHNICAL EDUCATION DEPARTMENT

Business | Family & Consumer Science | Health Science | Industrial Technology & Engineering

Jennifer Haislar, Department Chairperson

CTE Career Pathways Project: Careers & OTHS Courses

HIGH-DEMAND CAREERS | U.S. Bureau of Labor Statistics 2025–35 projections and National Career Clusters Framework

The Creating Career Pathways Project (CCPP) helps OTHS students connect their high school courses with future college, training, and career opportunities. Through OTHS CTE Career Pathways, students can build **career-related skills**, earn **dual credit** or **industry certifications**, and gain **hands-on experience** through **Silver Creek Area CEO**, **Work Based Learning** and potential **teacher/employer connections**. These pathways align with the National Career Clusters Framework and support Illinois Career Pathway Endorsement expectations.

➔ **STUDENTS START HERE:** *What might I want to do next, and what can I do in high school to begin preparing for it?*

OTHS Career Pathway Courses: Minimum of 4 courses in each pathway to meet optional graduation recognition.

Business & Computer Science / Digital Technology

CAREER CLUSTER	CAREER PATHWAYS growth % avg. annual openings avg. median salary	OTHS COURSES TO HELP PREPARE FOR THIS CAREER DC = dual credit • CAVC = Collinsville Area Vocational Center • Supporting = complementary non-CTE course
Supply Chain & Transportation	Logistician / Supply Chain Management 17.6% 26,600 \$82,320	Business Ownership and/or Accounting 1 (Honors option); Adv Applications - Excel (DC); Microsoft Office Apps.; Marketing; CEO Business Leadership (DC); Work Based Learning
	Training & Development Specialist 10.8% 46,000 \$69,280	Business Ownership and/or Accounting 1 (Honors option); Adv Applications - Word/PPT (DC); Microsoft Office Apps.; Marketing; Work Based Learning; CEO Business Leadership (DC); <i>Public Speaking (supporting)</i>
	Management Analyst 10.1% 94,100 \$101,860	Business Ownership and/or Accounting 1 (Honors option); Adv Applications - Excel (DC); Accounting 2; Introduction to Artificial Intelligence; CEO Business Leadership (DC); Work Based Learning
Management & Entrepreneurship	Financial Manager 9.7% 65,600 \$166,570	Accounting 1 (Honors option) and Accounting 2; Adv Applications - Excel (DC); Personal Finance (DC); CEO Business Leadership (DC); <i>Economics (supporting)</i>
	Market Research Analyst / Marketing Specialist 7.0% 82,000 \$78,760	Marketing and Adv Digital Marketing & Social Media (DC); Adv Applications - Excel (DC); Introduction to Artificial Intelligence; Foundations of Multimedia Production & Communication (DC); Video Production (DC); Adv Video Production (DC)
Financial Services	Project Management Specialist 6.7% 76,500 \$102,320	Business Ownership and/or Accounting 1 (Honors option); Adv Applications - Excel (DC); Adv Applications - Word/PPT (DC); Cybersecurity (DC); Marketing; CEO Business Leadership (DC); Work Based Learning
	Human Resources Specialist 6.4% 73,700 \$75,940	Business Ownership and/or Accounting 1 (Honors option); CEO Business Leadership (DC); Microsoft Office Apps. or Adv Applications - Word/PPT (DC); Work Based Learning; <i>Psychology/Public Speaking (supporting)</i>
	Accountant / Auditor 5.0% 115,300 \$83,680	Accounting 1 (Honors option); Accounting 2; Adv Applications - Excel (DC); Adv Applications - Word/PPT (DC); Personal Finance (DC); Microsoft Office Apps.; <i>Economics (supporting)</i>
Marketing & Sales	Public Relations Specialist 2.0% 23,000 \$74,750	Foundations of Multimedia Production & Communication (DC); Marketing; Adv Digital Marketing & Social Media (DC); Video Production (DC); Adv Applications - Word/PPT (DC); Yearbook; CEO Business Leadership (DC); Work Based Learning; <i>Public Speaking (supporting)</i>
	Digital Video / Content Producer / Director 4% 12,100 \$90,360	Foundations of Multimedia Production & Comm. (DC); Video Production (DC); Adv Video Production (DC); Adv Apps - Word/PPT (DC); Marketing; Adv. Digital Marketing & Social Media (DC); Yearbook; Work Based Learning; <i>Public Speaking (supporting)</i>

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CAREER & TECHNICAL EDUCATION DEPARTMENT

Business | Family & Consumer Science | Health Science | Industrial Technology & Engineering

Jennifer Haislar, Department Chairperson

Business & Computer Science / Digital Technology

CAREER CLUSTER	CAREER PATHWAYS	OTHS COURSES TO HELP PREPARE FOR THIS CAREER
	growth % avg. annual openings avg. median salary	DC = dual credit • CAVC = Collinsville Area Vocational Center • Supporting = complementary non-CTE course
Computer Science/ Data Technology	Data Scientist 34.6% 24,800 \$120,230	Introduction to Artificial Intelligence; Computer Programming (DC); Adv Applications - Excel (DC); Computer Networking (DC); <i>Calculus and statistics (supporting)</i>
	Computer & Infor Research Scientist 21.8% 2,900 \$140,300	Introduction to Artificial Intelligence; Computer Programming (DC); Computer Networking (DC); Cybersecurity (DC); Adv Applications - Excel (DC)
	Information Security Analyst 21.0% 14,100 \$129,180	Cybersecurity (DC); Computer Networking (DC); Computer Programming (DC); Introduction to Artificial Intelligence; Adv Applications - Excel (DC); Cybersecurity 2 (CAVC)
	Software Developer 10.2% 95,300 \$135,980	Computer Programming (DC); Introduction to Artificial Intelligence; Cybersecurity (DC); Computer Networking (DC)
	Database Architect 9.4% 3,900 \$139,500	Computer Programming (DC); Adv Applications - Excel (DC); Computer Networking (DC); Cybersecurity (DC)
	Computer Systems Analyst 7.9% 32,900 \$105,850	Computer Programming (DC); Computer Networking (DC); Cybersecurity (DC); Adv Applications - Excel (DC); Introduction to Artificial Intelligence
	Computer Network Architect 7.7% 9,600 \$134,050	Computer Networking (DC); Cybersecurity (DC); Computer Programming (DC); Cybersecurity 2 (CAVC)
	Web & Digital Interface Designer 6.0% 8,300 \$104,000	Foundations of Multimedia Production & Comm. (DC); 3D Modeling/Animation; Computer Programming (DC); Marketing; Adv Digital Marketing & Social Media (DC)

Industrial Tech & Engineering

CAREER CLUSTER	CAREER PATHWAYS	OTHS COURSES TO HELP PREPARE FOR THIS CAREER
	growth % avg. annual openings avg. median salary	DC = dual credit • CAVC = Collinsville Area Vocational Center • Supporting = complementary non-CTE course
Advanced Manufacturing Construction Energy & Natural Resources	Industrial Machinery Mechanic 17.8% 44,400 \$64,520	Technical Drawing & Engineering Design (DC); Small Engine Repair; Beginning Welding; Welding Technology 1 (DC); Electrical Applications
	Industrial Engineer 12.4% 23,100 \$102,440	Technical Drawing & Engineering Design (DC); Drafting & Engineering Design (DC); Engineering Design (CAD) 1 (DC); CAD 2; 3D Modeling/3D Printing; <i>Physics 1 (supporting)</i>
	Mechanical Engineer 11.2% 17,800 \$104,110	Technical Drawing & Engineering Design (DC); Drafting & Engineering Design (DC); CAD 1/2; 3D Modeling/3D Printing; Small Engine Repair; <i>Physics 1 (supporting)</i>
	HVAC Mechanic / Installer HVAC: 10.9% 40,600 \$61,010	Technical Drawing & Engineering Design (DC); Electrical Applications; Construction 1 (DC); Construction 2 - Advanced Building Trades; Carpentry (DC)
	Electrician 9.2% 72,700 \$63,190	Technical Drawing & Engineering Design (DC); Electrical Applications; Construction 1 (DC); Construction 2; Carpentry (DC); <i>Physics 1 (supporting)</i>
	Construction Manager 9.1% 49,700 \$114,990	Technical Drawing & Engineering Design (DC); Construction 1 (DC); Construction 2; Carpentry (DC); Engineering Design CAD; Advanced Applications - Excel (DC); Accounting 1 (Honors option)
	Plumber / Pipefitter 7% 42,000 \$63,800	Technical Drawing & Engineering Design (DC); Electrical Applications; Construction 1 (DC); Construction 2 - Advanced Building Trades; Carpentry (DC)
	Carpenter 3.9% 62,800 \$60,580	Technical Drawing & Engineering Design (DC); Carpentry (DC); Construction 1 (DC); Construction 2 - Advanced Building Trades; Building Trades 1/2 (CAVC)

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CAREER & TECHNICAL EDUCATION DEPARTMENT

Business | Family & Consumer Science | Health Science | Industrial Technology & Engineering

Jennifer Haislar, Department Chairperson

Industrial Tech & Engineering

CAREER CLUSTER	CAREER PATHWAYS	OTHS COURSES TO HELP PREPARE FOR THIS CAREER
	growth % avg. annual openings avg. median salary	DC = dual credit • CAVC = Collinsville Area Vocational Center • Supporting = complementary non-CTE course
	Welder/Cutter/Solderer/Brazer 2.4% 40,300 \$53,750	Technical Drawing & Engineering Design (DC); Beginning Welding; Welding Technology 1 (DC); Welding Technology 2; Welding Tech 1/2 (CAVC)

Health Science

CAREER CLUSTER	CAREER PATHWAYS	OTHS COURSES TO HELP PREPARE FOR THIS CAREER
	growth % avg. annual openings avg. median salary	DC = dual credit • CAVC = Collinsville Area Vocational Center • Supporting = complementary non-CTE course
Healthcare & Human Services	Nurse Practitioner 41.0% 29,400 \$132,300	Health Occupations; Medical Terminology (DC); Clinical Health Occupations (CAVC); <i>Anatomy & Physiology (supporting)</i>
	Physician Assistant 21.1% 11,500 \$135,880	Health Occupations; Medical Terminology (DC); Clinical Health Occupations (CAVC); <i>Anatomy & Physiology (supporting)</i>
	Registered Nurse 5.6% 180,800 \$97,550	Health Occupations; Foundations of Community Health and Advocacy; Medical Terminology (DC); Clinical Health Occupations (CAVC); <i>Anatomy & Physiology (supporting)</i>
	Community Health Worker 12.7% 7,000 \$51,850	Health Occupations; Foundations of Community Health and Advocacy; Medical Terminology (DC); Work Based Learning; <i>Psychology/Public Speaking (supporting)</i>
	Diagnostic Medical Sonographer 13.9% 6,000 \$96,590	Health Occupations; Medical Terminology (DC); <i>Anatomy & Physiology (supporting)</i>
	Occupational Therapist 14.8% 10,000 \$100,330	Health Occupations; Medical Terminology (DC); <i>Anatomy & Physiology and Psychology (supporting)</i>
	Physician / Surgeon 4% 22,100 \$275,930	Health Occupations; Foundations of Community Health and Advocacy; Medical Terminology (DC); Clinical Health Occupations (CAVC); <i>Anatomy & Physiology, Biology, Chemistry, Physics (supporting)</i>
	Physical Therapist 11.9% 13,400 \$102,760	Health Occupations; Medical Terminology (DC); <i>Anatomy & Physiology and Physics (supporting)</i>
	Respiratory Therapist 8.5% 8,600 \$82,280	Health Occupations; Medical Terminology (DC); Clinical Health Occupations (CAVC); <i>Anatomy & Physiology (supporting)</i>

Public Service, Education & Human Services

CAREER CLUSTER	CAREER PATHWAYS	OTHS COURSES TO HELP PREPARE FOR THIS CAREER
	growth % avg. annual openings avg. median salary	DC = dual credit • CAVC = Collinsville Area Vocational Center • Supporting = complementary non-CTE course
Education Healthcare & Human Services	Substance Abuse / Behavioral Disorder / Mental Health Counselor 18.4% 50,500 \$59,350	Family Health Maintenance; Growth and Development of Children; Early Childhood Education; Work Based Learning; <i>Psychology (supporting); Public Speaking (supporting)</i>
	Mental Health & Substance Abuse Social Worker 10.3% 12,500 \$60,280	Family Health Maintenance; Growth and Development of Children; Early Childhood Education; <i>Psychology (supporting); Public Speaking (supporting)</i>
	Social & Human Service Assistant 7.4% 48,900 \$45,930	Family Health Maintenance; Growth and Development of Children; Early Childhood Education; Work Based Learning; <i>Psychology/Public Speaking (supporting)</i>

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CAREER & TECHNICAL EDUCATION DEPARTMENT

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Jennifer Haislar, Department Chairperson

Public Service, Education & Human Services

CAREER CLUSTER	CAREER PATHWAYS growth % avg. annual openings avg. median salary	OTHS COURSES TO HELP PREPARE FOR THIS CAREER DC = dual credit • CAVC = Collinsville Area Vocational Center • Supporting = complementary non-CTE course
Education Healthcare & Human Services	Social & Community Service Manager 7.2% 18,500 \$80,390	Family Health Maintenance; Business Ownership; Work Based Learning; CEO Business Leadership (DC); <i>Public Speaking/Psychology (supporting)</i>
	Preschool Teacher 4.5% 66,700 \$38,140	Early Childhood Education; Growth and Development of Children; Family Health Maintenance; Teaching as a Profession (CAVC); Work Based Learning; <i>Public Speaking/Psychology (supporting)</i> ; <i>school-based field experience when available</i>
	K-12 Teacher (Elementary, Middle or High School) 0% 201,700 \$67,360	Growth & Development of Children; Early Childhood Education; Family Health Maintenance; Teaching as a Profession (CAVC); Work Based Learning; <i>Public Speaking/Psychology (supporting)</i> ; <i>school-based field experience when available</i>
	Child, Family & School Social Worker 4.4% 33, \$59,550	Family Health Maintenance; Growth and Development of Children; Early Childhood Education; <i>Psychology/Public Speaking (supporting)</i>
	School / Career Counselor & Advisor 2.9% 27,800 \$64,330	Early Childhood Education; Growth and Development of Children; Family Health Maintenance; Work Based Learning; <i>Psychology/Public Speaking (supporting)</i>

Culinary & Hospitality

CAREER CLUSTER	CAREER PATHWAYS growth % avg. annual openings avg. median salary	OTHS COURSES TO HELP PREPARE FOR THIS CAREER DC = dual credit • CAVC = Collinsville Area Vocational Center • Supporting = complementary non-CTE course
Hospitality, Events & Tourism Healthcare & Human Services (nutrition crossover)	Restaurant Cook 12.1% 218,600 \$37,390	Culinary 1; Culinary 2; Culinary 3; Food Service 1 (CAVC); Work Based Learning
	Dietitian / Nutritionist 7.7% 5,700 \$76,400	Culinary 1; Culinary 2; Health Occupations; Medical Terminology (DC); <i>Honors Human Anatomy & Physiology (supporting)</i>
	Chef / Head Cook 6.6% 25,200 \$62,470	Culinary 1; Culinary 2; Culinary 3; Food Service 1 (CAVC); Business Ownership; Accounting (Honors option); Microsoft Office; CEO Business Leadership (DC)
	Food Scientist / Technologist 6.2% 1,000 \$88,720	Culinary 1; Culinary 2; Advanced Applications - Excel (DC); <i>Chemistry/Biology (supporting)</i>
	Meeting / Convention / Event Planner 5.8% 16,800 \$61,160	Culinary 1; Culinary 2; Marketing; CEO Business Leadership (DC); Advanced Applications - Excel (DC); Advanced Word/PowerPoint (DC)
	Food Service Manager 5.8% 38,800 \$69,390	Culinary 1; Culinary 2; Culinary 3; Business Ownership; Accounting 1 (Honors option); Advanced Applications - Excel (DC); CEO Business Leadership (DC)
	Baker 5.5% 36,500 \$37,160	Culinary 1; Culinary 2; Culinary 3; Work Based Learning; Business Ownership/Accounting 1 (for entrepreneurship)
	Food Preparation / Service Supervisor 5.4% 171,500 \$44,080	Culinary 1; Culinary 2; Culinary 3; Food Service 1 (CAVC); CEO Business Leadership (DC); Work Based Learning

See Appendix at end of the curriculum guide for additional CTE courses, course descriptions, and prerequisites through the **Collinsville Area Vocational Center (CAVC) Program.**

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CAREER & TECHNICAL EDUCATION DEPARTMENT

Business | Family & Consumer Science | Health Science | Industrial Technology & Engineering

Jennifer Haislar, Department Chairperson

CTE - BUSINESS

Every career requires business, technology, communication, and problem-solving skills. The CTE – Business Department at O’Fallon Township High School helps students build these skills and gain practical experience while preparing for college, career training, industry certifications, and the workforce. These courses benefit all students and provide an especially strong foundation for those planning to study accounting, business administration, economics, finance, management, marketing, entrepreneurship, information technology, data analytics, or other business-related fields.

ACCOUNTING 1

CCPP Academy Course

Full Year 1/2 credit per semester

Open to sophomores, juniors, and seniors

Prerequisite: Completion of Introduction to Algebra or Adv Algebra 1 with a grade of “C” or better

This course is highly recommended for students who have an interest in pursuing any major in business at the college level, or are considering owning their own business in the future. This course introduces students to the accounting cycle and basic principles of accounting, including recording, classifying, and analyzing financial information. Students learn how businesses track income, expenses, payments, and other financial transactions, prepare financial records, and use accounting information to support business decisions. Much of the work in this class is done electronically, reflecting how accounting has become a computerized profession. In addition to stressing basic fundamentals and terminology of accounting, instruction will provide initial understanding of the preparation of budgets and financial reports, as well as career opportunities in the accounting field. *Professional Bookkeeping Certification is available.*
State Course ID 12104A001

HONORS ACCOUNTING 1

CCPP Academy Course

Full Year 1/2 credit per semester

Open to sophomores, juniors and seniors

Prerequisite: Completion of Honors Algebra 1 or Adv Algebra 1 with a grade of “B” or better

Honors Accounting 1 will cover the same areas of study as Accounting 1 (see course description above). Emphasis for students to develop a deeper knowledge of financial statements and decision making in an organization. This year-long course covers the learning objectives of a traditional college level accounting course covering specialized fields of financial, managerial, nonprofit, tax and payroll accounting. Students learn how to businesses plan, evaluate operations, financing and investing decisions, and how to provide data to internal and external stakeholders. This course is highly

recommended for students who have an interest in pursuing any major in business at the college level – especially accounting or finance degrees. Exposure to professional opportunities in the industry. Computer applications will be integrated throughout the course. *Professional Bookkeeping Certification is available.*

State Course ID 12104A001

ACCOUNTING 2

CCPP Academy Course

Full Year

1/2 credit per semester

Open to juniors and seniors

Prerequisite: Completion of Accounting 1 with a grade of “B” or better or instructor approval.

Accounting 2 is a course that builds upon the foundation established in Accounting 1. Emphasis for students to develop a deeper knowledge of financial statements and decision making in an organization. This year-long course covers the learning objectives of a traditional college level accounting course covering specialized fields of financial, managerial, nonprofit, tax and payroll accounting. Students learn how to businesses plan, evaluate operations, financing and investing decisions, and how to provide data to internal and external stakeholders. This course is highly recommended for students who have an interest in pursuing any major in business at the college level – especially accounting or finance degrees. Exposure to professional opportunities in the industry. Computer applications will be integrated throughout the course. *Professional Bookkeeping Certification is available.*

State Course ID 12104A002

ADVANCED APPLICATIONS – EXCEL

CCPP Academy Course

1 Semester

1/2 credit

SWIC Dual Credit Course

Open to sophomores, juniors and seniors

Prerequisite: Completion of Technology Essentials with a grade of “C” or better; or completion of a Proficiency Exam in the spring prior to enrollment

The course will provide hands-on instruction in Microsoft® Excel. Students will complete applications and demonstrate competence in the performance of a variety of spreadsheet and database tasks. Students will gain experience with beginning, intermediate, and advanced capabilities of the program. Students will learn how to complete complex and repetitious calculations accurately, quickly, and easily using a computerized spreadsheet. This course is highly recommended for students interested in business or engineering industry careers. *Microsoft® Office Specialist Certification test is available.*

State Course ID 10005A001

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CAREER & TECHNICAL EDUCATION DEPARTMENT

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Jennifer Haislar, Department Chairperson

ADVANCED APPLICATIONS – WORD/POWERPOINT

CCPP Academy Course

1 Semester

1/2 credit

SWIC Dual Credit Course

Open to sophomores, juniors and seniors

Prerequisite: Completion of Technology Essentials with a grade of “C” or better; or completion of a Proficiency Exam in the spring prior to enrollment.

This course will provide hands-on instruction in the advanced features of both Microsoft® Word and Microsoft® PowerPoint. Students will obtain advanced skills in document formatting and presentation preparation. Students will gain experience with preparing a variety of business-related documents while incorporating advanced features of Word such as customizing paragraphs, inserting objects, creating tables and SmartArt, and enhancing documents with clip art, bullets, shading, and desktop publishing concepts. Students will also learn to locate and retrieve information from hard copy and electronic sources and prepare presentations incorporating advanced features of PowerPoint. Students will gain experience in developing presentations with professional appeal and utilizing presentations to present to an audience. This course is highly recommended for students interested in business industry careers. *Microsoft® Office Specialist Certification test is available.*

State Course ID 10005A001

INTRODUCTION TO ARTIFICIAL INTELLIGENCE (AI)

CCPP Academy Course

1 Semester

1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: None

This course that introduces students to the concepts of Artificial Intelligence, blending foundational theory with practical application. Students will explore the history and evolution of AI, understanding key concepts such as machine learning, neural networks, natural language processing, robotics, and computer vision. Students engage in hands-on activities, including programming basic AI models using beginner-friendly tools and languages, data analysis, and problem-solving exercises designed to develop critical computational thinking skills. Real-world applications of AI in areas such as healthcare, entertainment, transportation, and environmental science are explored to connect theory with practice. This course also emphasizes ethical, social, and philosophical questions surrounding AI technology, encouraging students to critically consider issues like privacy, bias, job automation, and the future impact of AI on society.

State Course ID 10160A001

BUSINESS OWNERSHIP

CCPP Academy Course

1 Semester

1/2 credit

Open to freshmen

Prerequisite: None

This course will provide an overview of an array of topics and concepts related to the field of business. Students will be exposed to business concepts such as banking and finance, the role of government in business, consumerism, credit, investment, and management. An overview of the American economic system and corporate organization will also be included as well as all aspects of business, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy.

State Course ID 12051A001

COMPUTER PROGRAMMING **CCPP Academy Course**

Full Year

1/2 credit per semester

Open to juniors and seniors

SWIC Dual Credit Course

Prerequisite: Completion of Advanced Algebra 2 or instructor approval

Computer Operations & Programming is designed to develop computer programming and program design skills through the use of various programming languages such as Python, Java, SQL, C+ and other object-oriented languages. Students will learn techniques to help with system analysis and design, as well as gaining knowledge of the systems development life cycle. Instruction will include basic programming tools that are common to many programming languages, including input/output statements, constants, assignment statements, input statements, string and numeric variable types, conditional, and branching and looping control structures. Students will learn programming techniques such as counting, averaging, rounding and the use of random numbers to develop a good programming style. Students will apply what they learn to create programs and applications that solve real world business related problems. Students will create programs to store, locate, and retrieve specific documents, data and information.

Students will gain valuable experience in logical problem solving and structured programming. The student will learn to develop program solutions using event-driven procedures and structured.

State Course ID 10152A001

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CAREER & TECHNICAL EDUCATION DEPARTMENT

Business | Family & Consumer Science | Health Science | Industrial Technology & Engineering

Jennifer Haislar, Department Chairperson

COMPUTER NETWORKING **CCPP Academy Course**

1 semester

1/2 credit

SWIC Dual Credit Course

Open to sophomores, juniors and seniors

Prerequisite: None

This course covers the fundamentals of data communications and networking principles. Students will learn network standards, protocols, and topologies. Students will also learn network architectures of Local Area Networks and Wide Area Networks and related media, connections and components. Other topics covered include the OSI model, TCP/IP, and network security. Note: *Successful students will possess basic computer skills prior to enrolling.*

State Course ID 10102A001

CYBERSECURITY **CCPP ACADEMY COURSE**

1 semester

1/2 CREDIT

SWIC DUAL CREDIT COURSE

Open to sophomores, juniors and seniors

Prerequisite: Completion of Computer Networking before enrolling in Cybersecurity is recommended, but not required.

This course provides a comprehensive introduction to the field of cybersecurity. It is designed for learners interested in pursuing a career in cybersecurity and prepares for a Junior Cybersecurity Analyst role by equipping learners with job skills across three domains: Endpoint Security, Network Defense, and Cyber Threat Management. The course introduces information security, systems security, network security, mobile security, and physical security. Additional topics include ethics and laws, related technologies, defense and mitigation techniques used in protecting businesses. The course also discusses the characteristics and tactics of cyber criminals and explores the technologies, products, and procedures used by cybersecurity professionals to combat cybercrime. *Certification testing is available.*

State Course ID 10020A001

CTE - WORK EXPERIENCE

Full Year

1 credit for related class

Open to seniors

2 credits for work experience

Prerequisite: Application and instructor consent required

CTE - Work Experience is designed for senior students interested in gaining work experience in their focused field of study. Goals will be set cooperatively by the student, Coordinator, and employer. Students are released from school for work experience and will participate in related classroom instruction. Classroom instruction will focus on providing students with job survival skills, career exploration skills related to the job, and improving students' abilities to interact positively with others. Written training agreements

and individual student training plans are developed and agreed upon by the employer, student and Coordinator. The Coordinator, student, and employer assume compliance with federal, state and local laws and regulations.

The goal of the CTE - Work Experience is for the student to gain part-time employment and maintain employment with acceptable skills.

Areas of concentration include:

1. Developing job skills as required at the training site
2. Maintain employment throughout each semester
3. Demonstrating job punctuality and attendance
4. Performing clerical duties
 - a. Completing job station reports
 - b. Completing training agreements
 - c. Completing time sheets
5. Job problem-solving
 - a. Using effective communication techniques
6. Meeting with work study coordinator to monitor on-job performance.

State Course ID 12098A002

MARKETING

CCPP Academy Course

1 Semester

1/2 credit

Open to juniors and seniors

Prerequisite: None

Marketing I is your chance to explore the world of business, advertising, and creativity—all while working on fun, real-world projects. In this course, you'll discover how goods and services flow from producers to consumers, the impact of the product life cycle, and the development of marketing functions in today's companies. You'll learn how businesses plan, package, and price products, identify their target audience, and manage and promote brands. From social media campaigns to product design and sales strategies, you'll gain hands-on experience with tools and projects connected to today's top companies. If you're interested in business, entrepreneurship, or just curious about the secrets behind your favorite brands, this class is the perfect place to start!

State Course ID 12167A001

ADVANCED DIGITAL MARKETING & SOCIAL MEDIA

CCPP Academy Course

SWIC Dual Credit Course

1 Semester

1/2 credit

Open to juniors and seniors

Prerequisite: Completion of Marketing with a "C-" or better

Ready to take your marketing skills to the next level with this second semester of Advanced Marketing? Promotion will be emphasized while focusing on the end consumer and product or service. Students will create and manage accounts on platforms like Instagram, Facebook, X, TikTok, and YouTube while developing real-world skills in branding and content

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CAREER & TECHNICAL EDUCATION DEPARTMENT

Business | Family & Consumer Science | Health Science | Industrial Technology & Engineering

Jennifer Haislar, Department Chairperson

ADV DIG MKT & SOCIAL MEDIA....CONT'D
creation. Topics include current trends, influencer marketing, best practices, and ethical issues. Through hands-on projects and campaigns, students will learn how companies and influencers build a brand, connect with audiences, and go viral.
State Course ID 12152A001

MICROSOFT® OFFICE APPLICATIONS

CCPP Academy Course

1 Semester 1/2 credit

Open to freshmen, sophomores and juniors

Prerequisite: None

Students who are enrolled in or have successfully completed Advanced Applications - Word/PowerPoint or Excel should not enroll in Microsoft® Office Applications.

This is an essential course that provides students with an in-depth knowledge of the Microsoft® Office applications. Students will benefit from the skills gained in this course not only for other courses taken OTHS, but also for post-secondary studies, and/or for future employment. The course will provide instruction in Microsoft® Office applications, including Word, Excel, and PowerPoint, as well as the integration of these programs. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications. This course is designed to develop awareness and understanding of application software and to prepare students for placement in advanced computer courses. **Take this course early in your four-year course plan to reap the most benefits!**

State Course ID 10004A001

FOUNDATIONS OF MULTIMEDIA PRODUCTION & COMMUNICATION

CCPP Academy Course

1 Semester 1/2 credit

SWIC Dual Credit Course

Open to freshman, sophomore, junior, senior

Prerequisite: None

This introductory course gives students hands on exploration to create, design, and produce a variety of multimedia products found within advance courses. Students will gain entry-level experience with industry-standard tools including *Adobe Photoshop, Illustrator, and Lightroom* as well as online platforms for content creation and social media. Projects will include video storytelling, digital photography, photo editing, layout design, and social media branding. By the end of the course, students will have a strong foundation in creative media and a better understanding of which advanced courses best match their interests within Video Production, Yearbook Design, and Digital Marketing.

State Course ID 10201A001

PERSONAL FINANCE

CCPP Academy Course

1 Semester 1/2 credit

Open to juniors and seniors **SWIC Dual Credit Course**

Prerequisite: None

This course is designed to familiarize students to their role as consumers in the free enterprise system. This course will teach students how to manage their personal resources by making informed choices as consumers in the marketplace. Specific consumer problems that students will encounter during both their school years and adult lives will be discussed. The abilities to make personal financial decisions in the areas of budgeting, record keeping, insurance, credit, investing, and financial institutions and services will be emphasized in the learning activities.

State Course ID 12101A001

TECHNOLOGY ESSENTIALS

1/2 Semester 1/4 credit

Open to all levels

Prerequisite: Enrollment in Driver Education

This course is designed to develop and enhance the abilities to key by touch, proofread, correct errors, and format a variety of documents used throughout the OTHS curriculum. Students enrolled in Technology Essentials will obtain necessary skills related to the daily use of technology in education. They will learn to properly utilize the OTHS student data drive, develop important file management skills, format documents in Microsoft Word including announcements, letters, and MLA reports, utilizing a variety of Word 2019 features and shortcuts. Students will also gain experience with their OTHS Cloud email accounts and learn email etiquette while developing the ability to organize work and meet deadlines. Students enrolled in this course are encouraged to continue with *Microsoft Office Applications or Advanced Applications – Excel or Word/PPT.*

State Course ID 12005A001

VIDEO PRODUCTION

CCPP Academy Course

(ADOBE SUITE/LIGHTROOM/PREMIERE PRO)

SWIC Dual Credit Course

1 Semester 1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: Instructor consent required – student interview may be conducted.

Video Production is a course designed to provide students with the skills needed for a career in the technical aspects of broadcasting. Instruction includes camera operations, audio and video editing, sound and lighting techniques, and sound required mixing. Students will gain an understanding of the basic principles and concepts of digital video production using required digital video cameras, digital still cameras and computer software for finished video productions. Students

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CAREER & TECHNICAL EDUCATION DEPARTMENT

Business | Family & Consumer Science | Health Science | Industrial Technology & Engineering

Jennifer Haislar, Department Chairperson

VIDEO PRODUCTION CONT'D... will be required to produce individual videos as well as a variety of cooperative productions. *Successful completion of this course will prepare students for participating in the Broadcast Club and working with the Panther Beat.*

State Course ID 11051A001

ADVANCED VIDEO PRODUCTION 1, 2, 3, 4, 5

(ADVANCED PREMIERE PRO/AFTER EFFECTS)

CCPP Academy Course

1 Semester

1/2 credit

Open to sophomores, juniors and seniors May be repeated. Prerequisite: Successful completion of Video Production with a "C+" or better and instructor consent required.

In this course students will expand on the activities explored in Video Production. Utilizing *Adobe Suite Applications* with special emphasis on *Advanced Premier Pro* and *After Effects*. Students work in a team-based environment to create a variety of video and audio-related broadcasts. Instruction includes single and multi-camera operations, video editing, production and post-production processes, sound mixing, multi-track production, audio editing, and special effects. Students in this course will be responsible for producing the Panther Beat broadcast and developing video projects for a variety of activities at OTHS. Students also have the opportunity to participate in several live stream events for the high school. Students who take multiple semesters of this course will build their portfolios with increasingly challenging projects and collaborating with community organizations.

State Course ID 11051A002

YEARBOOK DESIGN & PRODUCTION

CCPP Academy Course

SWIC Dual Credit Course

1 Semester

1/2 credit

Open to sophomores, juniors and seniors May be repeated. Prerequisite: Application or instructor consent required

This course is designed to develop skills in yearbook production by providing experiences in selected aspects of yearbook production. Students learn basic principles of yearbook design and production and develop skills that include writing copy, captions and headlines; digital photography; desktop publishing and using appropriate technology tools for media production. Students will work in a project-based environment in this class. Students will use image-editing programs to manipulate images, computer graphics, and original artwork. Instruction will include creating graphical headers and visually appealing backgrounds. Students will be required to cover both in and

out of school events through photography and reporting assignments. Students enrolled in this course are responsible for producing the school's yearbook and contributing to other student media.

State Course ID 10201A001

CEO – BUSINESS LEADERSHIP

Creating Entrepreneurial Opportunities

(Silver Creek Area – CEO: Midland Institute for Entrepreneurship Education Partner)

CCPP Academy Course

SWIC Dual Credit Course

Full Year

1 credit per semester

Open to seniors

Prerequisite: Application required during Junior year.

CEO is a year-long course designed to utilize partnerships that provide an overview of business development and processes. Our local business community partners with area schools to create project-based experiences for participants by providing funding, expertise, meeting space, business tours, and one-on-one mentoring. Students visit area businesses, learn from guest speakers, participate in a class business, write business plans, and start and operate their own businesses. At the heart of a student's development through CEO are the foundational areas learned through the experiential process: financial literacy, communication, critical reasoning, business management, and employability skills. An application process for the program is required in the fall semester of the student's junior year.

State Course ID 12053A001

VIDEO PRODUCTION/ADVANCED VIDEO PRODUCTION LABORATORY ASSISTANT

1 Semester

1/4 credit per semester

2 Semester Limit – Pass/Fail Option Only

Open to juniors and seniors

Prerequisite: Successful completion of advanced level course work in the field in which the student will assist and written consent from the instructor.

No more than two laboratory assistants will be assigned to any teacher during a given period. Student laboratory assistants will be required to aid the teacher in preparation for instruction in the classroom and to assist the teacher in the preparation, organization, maintenance, distribution, and storage of laboratory materials and equipment.

Note: In order for a student to be a Lab Assistant, it must be their sixth class.

State Course ID 11051A002

See Appendix at end of the curriculum guide for additional CTE courses, course descriptions, and prerequisites through the
Collinsville Area Vocational Center (CAVC) Program.

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CAREER & TECHNICAL EDUCATION DEPARTMENT
Business | Family & Consumer Science | Health Science | Industrial Technology
Jennifer Haislar, Department Chairperson

CTE - FAMILY & CONSUMER SCIENCE

CULINARY 1

1 Semester

CCPP Academy Course

1/2 credit

Open to sophomores and juniors

**If enrollment allows, seniors may be wait-listed.*

Prerequisite: None

This course includes basic classroom and laboratory experiences needed to develop knowledge and understanding of basic food principles and applied nutrition for people of all ages. This course centers around: safety and sanitation requirements, promoting food service and preparations management, meeting basic needs by applying nutrition concepts for a healthy lifestyle, learning to utilize resources when planning, preparing, and serving food, applying hospitality skills, and analyzing individual and family nutritional needs.

State Course ID 16054A001

CULINARY 2

1 Semester

CCPP Academy Course

1/2 credit

Open to juniors and seniors

Prerequisite: Completion of Culinary 1 with a "C-" or better.

This course is designed to provide students interested in a career in culinary arts with the information and practical experience needed for the development of food service job-related competencies. Course content will include food safety principles, cooking techniques, knife skills, and teamwork in a kitchen environment. Students will take the ServSafe Manager Certification Exam in this course.

State Course ID 16052A001

CULINARY 3

1 Semester

CCPP Academy Course

1/2 credit

Open to juniors and seniors

Prerequisite: Completion of Culinary 2 with a "C-" or better.

This course will place an emphasis on more complex food preparation, menu planning, recipe development, the principles of healthy eating, and advances in food technology. Students will also learn to appreciate the impact of cultures around the world on food preparation and prepare authentic foreign cuisine

State Course ID 16054A002

GROWTH AND DEVELOPMENT OF CHILDREN

1 Semester

CCPP Academy Course

1/2 credit

Open to sophomores, juniors, and seniors

This course addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. The focus is on research-based nurturing and parenting practices and skills, including brain development research that supports positive development of children. The theories of Erikson, Piaget, Vygotsky, and others will be studied as a foundation to understanding the physical, social, cognitive and emotional developmental milestones in children prenatally to 12 years. Students will explore opportunities in human services and education-related careers. Students enrolled in this course will be required to take home an infant simulator.

State Course ID 19052A001

EARLY CHILDHOOD EDUCATION

1 semester

CCPP Academy Course

1/2 credit

Open to sophomores, juniors, and seniors

This course provides students with information and practical experiences needed for the development of competencies related to childcare, day care, and other education services occupations. Curriculum includes the philosophies of education, classroom management, and lesson planning for developmentally appropriate practices. Students will experience teaching in front of a class. Federal laws, licensing and regulatory requirements for programs serving children birth to 12 years are covered. The history of educating children from birth to 12 years will be addressed. This course does not include the infant simulators.

State Course ID 19051A001

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CAREER & TECHNICAL EDUCATION DEPARTMENT
Business | Family & Consumer Science | Health Science | Industrial Technology
Jennifer Haislar, Department Chairperson

FAMILY HEALTH MAINTENANCE

CCPP ACADEMY COURSE

1 semester

1/2 credit

Open to juniors, and seniors

This course is designed to address health, safety, and social/emotional issues related to children, parents, and families. The curriculum will move through all the life stages and discuss the development of humans as well as struggles and milestones of families. Students interested in the fields of early childhood education, family studies and social services would especially benefit from this course. This course requires students to take home an infant simulator.

State Course ID 19053A001

**FAMILY & CONSUMER SCIENCE
INDIVIDUALIZED INSTRUCTION**

1 Semester

1/2 credit

Open to juniors and seniors

2 Semester Limit

Prerequisite: Completion of advanced-level course work in the field and written consent from the instructor.

No more than one individualized instruction student will be assigned to an instructor during a given semester. Students will be required to select a topic for study and Laboratory work must be a component of the study. The instructor must approve the topic during the first four weeks of the semester. A written contract specifying work to be completed must be signed by both the student and the instructor. At the end of the semester the student must submit a written report to the instructor. After grading, a copy of the report will be placed on file with the department chairperson.

State Course ID 16097A000

**FAMILY & CONSUMER SCIENCE
LABORATORY ASSISTANT**

1 Semester

1/4 credit per semester

2 Semester Limit – Pass/Fail Option Only

Open to juniors and seniors

Prerequisite: Successful completion of advanced-level course work in the field in which the student will assist and written consent from the instructor.

No more than two laboratory assistants will be assigned to any teacher during a given period. Student laboratory assistants will be required to aid the teacher in preparation for instruction in the classroom and to assist the teacher in the preparation, organization, maintenance, distribution, and storage of laboratory materials and equipment.

Note: In order for a student to be a Lab Assistant, it must be their sixth class.

State Course ID 16054A002

See Appendix at end of the curriculum guide for
additional CTE courses, course descriptions, and
prerequisites through the
Collinsville Area Vocational Center (CAVC) Program.

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CTE – HEALTH SCIENCE

HEALTH OCCUPATIONS CCPP ACADEMY COURSE

1 semester 1/2 credit
Open to sophomores, juniors, seniors

This course provides students with a core knowledge of the health care industry and helps refine their health care-related knowledge and skills. Students will develop cognitive and affective skills in formulating a strong foundation for entry-level skill development. Topics will include (but are not limited to) an overview of health care delivery and culture; patient care, including assessment of vital signs, body mechanics, and diet; health care industry ethics; health professions licensure; emergency response; health care confidentiality; health care personnel and roles; health care sanitation; and health care rules and regulations.

State Course ID 14002A002

Students will learn how to connect community members with available resources, promote culturally responsive services, and help individuals navigate complex health and social systems. The program also emphasizes communication, leadership, professionalism, and community engagement strategies that strengthen individual and community self-sufficiency.

Upon successful completion of the course, students may have the opportunity to earn a Community Health Worker Certification, equipping them with valuable workforce credentials and foundational skills for careers in public health, healthcare, social services, and community-based organizations. This course will include some student release time to complete site visits to health care partners.

State Course ID 08053A001

FOUNDATIONS OF COMMUNITY HEALTH & ADVOCACY

CCPP ACADEMY COURSE
1 CREDIT

FULL YEAR
Open to juniors and seniors
Prerequisite: Completion of Health Occupations with a "C" or better

Foundations of Community Health prepares students to become trusted advocates for health and wellness within their communities. Community Health Workers are frontline public health professionals who serve as a vital link between individuals, families, communities, and health and social service systems. Through their understanding of and connection to the communities they serve, CHWs help improve access to care, promote health equity, and support positive health outcomes.

In this course, students will develop the knowledge and skills needed to provide outreach, health education, advocacy, social support, and informal counseling.

MEDICAL TERMINOLOGY

CCPP ACADEMY COURSE
SWIC Dual Credit Course

1 Semester 1/2 credit
Open to juniors and seniors

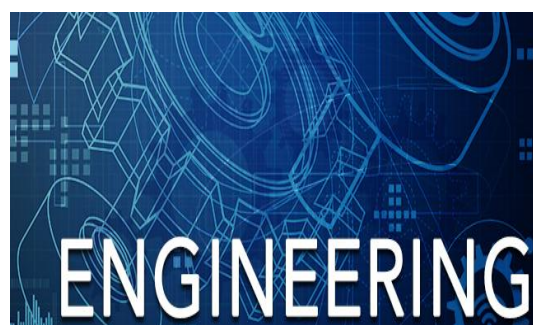
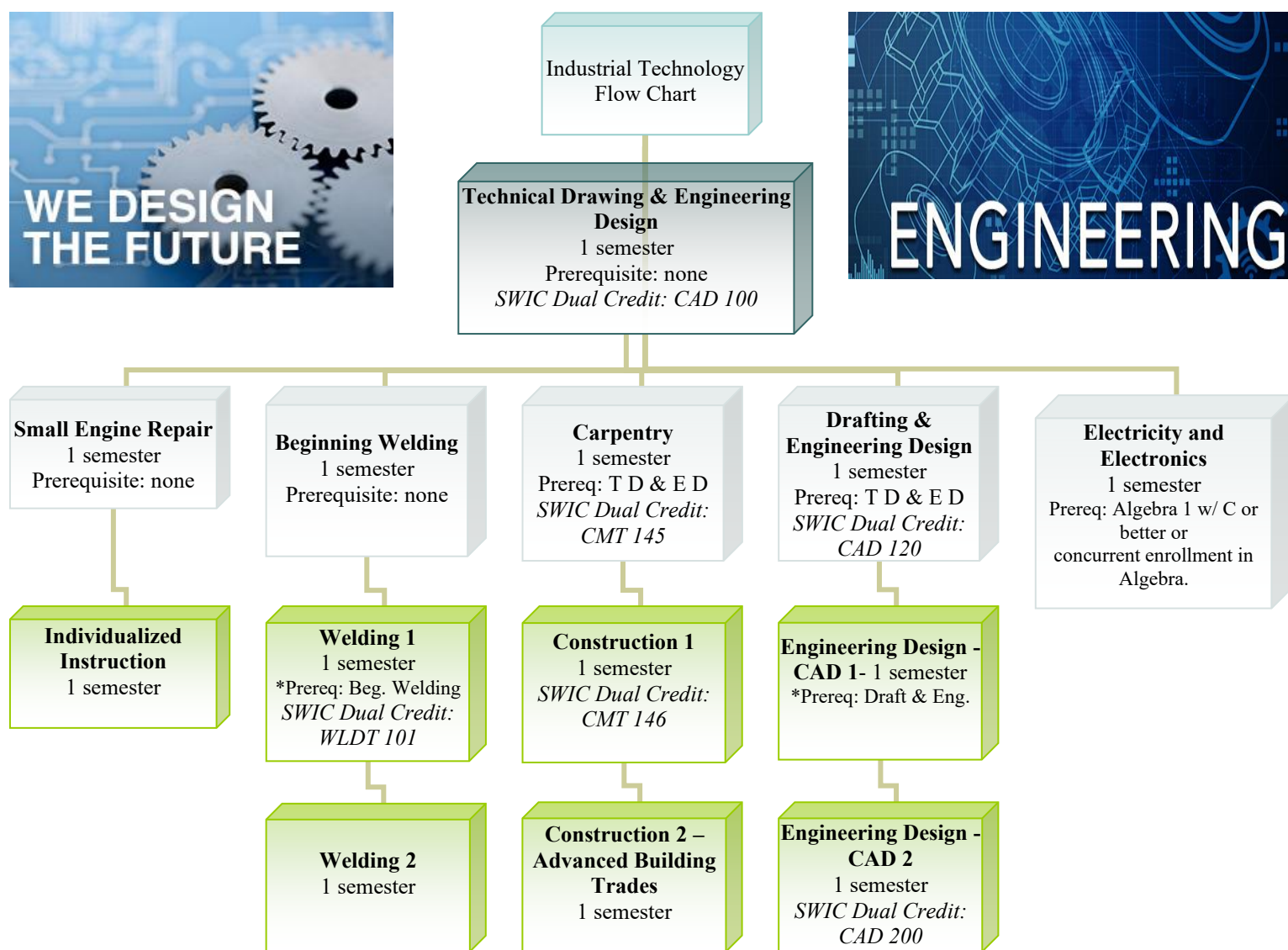
Students in this course learn how to identify medical terms by analyzing their components. This course emphasizes defining medical prefixes, root words, suffixes, and abbreviations. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions. Concurrent enrollment in Medical Terminology and Honors Human Anatomy and Physiology is discouraged due to content overlapping. It is advised that students elect to take Medical Terminology as a junior for precursor enrollment in Honors Human Anatomy and Physiology as a senior.

State Course ID 14154A001

See Appendix at end of the curriculum guide for additional CTE courses, course descriptions, and prerequisites through the **Collinsville Area Vocational Center (CAVC) Program.**

INDUSTRIAL TECHNOLOGY & ENGINEERING

COURSE SEQUENCING



See Appendix at end of the curriculum guide for additional CTE courses, course descriptions, and prerequisites through the **Collinsville Area Vocational Center (CAVC) Program**.

CTE – INDUSTRIAL TECHNOLOGY

TECHNICAL DRAWING & ENGINEERING DESIGN

CCPP Academy Course

1 Semester

1/2 credit

Open to all levels

SWIC Dual Credit Course

Prerequisite: None

This course is highly recommended for every course within the Industrial Technology & Engineering sequence. Technical Drawing and Engineering Design will introduce students to *AMSE Y14* drafting standards. Instruction will foster an awareness and understanding of technologies in graphic communication. Topics such as spatial visualization; orthographic, Multiview, oblique, and axonometric projection; lettering; section views; geometric construction; auxiliary views; and dimensioning provide the necessary foundation for pictorial communication. Students will be introduced to drafting communication using both manual and computer-aided design techniques and will utilize the most recent version of *Auto-Cad* software on the market today. Making this course extremely beneficial for any student wishing to further study engineering after high school.

State Course ID 21052A001

DRAFTING & ENGINEERING DESIGN

CCPP Academy Course

1 Semester

1/2 credit

SWIC Dual Credit Course

Open to sophomores, juniors, and seniors

Prerequisite: Completion of Technical Drawing & Engineering Design

This course introduces drafting-related occupations and the knowledge and skills needed for these occupations. Units will foster an awareness and understanding of drafting terms, drafting instruments and their uses, lettering styles and procedures, sketching and shape description, geometric construction, and multi-view projection. This class provides a foundation for students interested in engineering- or architecture- related careers. Mathematical learning standards and workplace skills are addressed in this class.

State Course ID 21102A002

ENGINEERING DESIGN (CAD) 1

CCPP

Academy

Course1

Semester

1/2 credit

Open to juniors and seniors

Prerequisite: Completion of Drafting & Engineering Design

This course continues to provide skills for students interested in engineering or architecture-related careers. This course is designed to provide students with information and practical experience needed for the development of job-related competencies. The course content includes planning and

organizing activities, researching information, preparing various mechanical and architectural sketches, performing basic layouts, detailing drawings such as sectional and isometric views. Computer Aided Drafting (CAD) software is used to generate various types of drawing. Mathematical learning standards and workplace skills are addressed in this class.

State Course ID 21106A001

ENGINEERING DESIGN (CAD) 2

CCPP Academy Course

1 Semester

1/2 credit

Open to juniors and seniors

SWIC Dual Credit Course

Prerequisite: Completion of Architectural Drafting (CAD) 1

This course builds upon CAD skills obtained in Architectural Drafting (CAD) 1 emphasizing technical drawings. The areas of performing presentation techniques such as producing architectural drawings, interpreting codes and constructing structural working drawings, producing mechanical and electrical/electronic working drawings, and producing civil engineering drawings. This class provides a foundation for students interested in engineering or architecture-related careers. Computer Aided Drafting (CAD) software is used to generate various types of drawings. Mathematical learning standards and workplace skills are addressed throughout the class.

State Course ID 21106A002

CARPENTRY

CCPP Academy Course

1 Semester

1/2 credit

SWIC Dual Credit Course

Open to sophomores, juniors and seniors

Prerequisite: Completion of Technical Drawing & Engineering Design

This course consists of planned learning experiences designed to introduce this student to construction-related occupations and the knowledge and skills needed for these occupations. Areas of instruction include tools, materials, techniques, equipment, and processes utilized in the carpentry areas of construction. The Illinois Learning Standards (ILS) addressed in this class are mathematics, science and language arts.

State Course ID 17007A001

CAREER & TECHNICAL EDUCATION DEPARTMENT

Business | Family & Consumer Science | Industrial Technology | Health Science

Jennifer Haislar, Department Chairperson

CONSTRUCTION 1

CCPP Academy Course

1 Semester

1/2 credit

SWIC Dual Credit Course

Open to juniors and seniors

Prerequisite: Completion of Carpentry 1

Construction 1 is designed as an introductory course with emphasis on construction industry. It is also designed to provide comprehensive groundwork for construction. Instruction covers, but is not limited to, topics of: blueprint reading, residential floor/wall roof framing, estimating/structural computations, excavation, footings, and foundations. This course provides comprehensive background in the use of power tools.

State Course ID 17003A001

CONSTRUCTION 2 - ADVANCED BUILDING TRADES

CCPP Academy Course

1 Semester

1/2 credit

Open to juniors and seniors

Prerequisite: Completion of Construction 1

Construction 2 is a skill-level course with emphasis on the construction industry. Instruction covers: interior walls, interior and exterior doors, window framing, roof and rafter construction and finish carpentry work. Emphasis will be placed on good work habits and practices, safety of both hand and power tools. Mathematics, science, and language arts learning standards are addressed in this class. All students receive OSHA 10 lifetime certification when completing course.

State Course ID 17003A002

ELECTRICAL APPLICATIONS CCPP Academy Course

1 Semester

1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: Completion of Algebra 1 with a C or better OR concurrent enrollment in Algebra 1.

This course consists of planned learning experiences designed to introduce the student to electricity and electronics occupations. Interactive laboratory activities provide hands on knowledge and skills needed for a variety of occupations. and the knowledge and skills needed for these occupations. Areas of instruction include electron theory, OHMS LAW A.C. and D.C. circuits, and the equipment used in analyzing and testing. Additional content areas include residential wiring exercises, the National Electric Code, and Alternative energy including Hydro, Solar, and Wind.

State Course ID 17104A001

3D MODELING, ANIMATION & 3D PRINTING

(CGI, Animation and 3D Printing) CCPP Academy Course

1 Semester

1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: None

This course will be an exploration into current 3D computer modeling primarily using Blender, a free, open source software. This course applies to students interested in a variety of industries and endeavors including: Manufacturing such as 3D printed fine art, commercial product design, architecture, and machinery; Medical, forensic, aerospace, geologic, and all other scientific fields that use models for simulations, products, and research; Entertainment such as the video game industry, web developer, graphic designer, and CGI for animation and films.

State Course ID 11155A001

3D MODELING, ANIMATION & 3D PRINTING 2

(CGI, Animation and 3D Printing)

1 Semester

1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: 3D Modeling, Animation, & 3D Printing

This course will be an exploration into current 3D design and software and techniques for modeling 3D objects to be used in products such as games, movies and for production with 3D printers.

State Course ID 11155A002

SMALL ENGINE REPAIR

1 Semester

1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: None

This course provides experience related to maintenance and repair of a variety of equipment such as lawn mowers, chainsaws, and rotary tillers. Areas of instruction include but are not limited to safety principles and practices; internal combustion engine principles; carburetion principles; disassembly and reassembly of small gas engines; reading from technical manuals; measuring and performing mathematical calculations related to small engine mechanics.

State Course ID 20110A001

BEGINNING WELDING

CCPP Academy Course

1 Semester

1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: None

Beginning Welding is designed to introduce the student to the basic fundamentals of all types of welding. Instructions will include safety procedures, identification of oxy-acetylene equipment, electrode identification and the making of proper settings of arc welding machines when welds are to be made. It is recommended, but not required, for Technical Drawing and Engineering Design is taken prior to this course

State Course ID 13207A003

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

CAREER & TECHNICAL EDUCATION DEPARTMENT

Business | Family & Consumer Science | Industrial Technology | Health Science

Jennifer Haislar, Department Chairperson

WELDING TECHNOLOGY 1 *CCPP Academy Course* 1 Semester 1/2 credit **SWIC Dual Credit Course**

Open to sophomores, juniors, seniors

Prerequisite: Completion of Beginning Welding

This course further develops skills obtained in Beginning Welding with additional areas of instruction including advanced shielded metal arc welding using E6010, E7018, and E7024 electrodes, as well as an introduction to gas metal arc welding and flux core arc welding processes. Emphasis will be placed on building proper size fillet welds in the 2-F welding position.
State Course ID 13207A001

WELDING TECHNOLOGY 2 *CCPP Academy Course* 1 Semester 1/2 credit

Open to juniors and seniors

Prerequisite: Completion of Welding Technology 1

This course further develops skills obtained in Welding Technology 1 with additional areas of instruction including: 1) all position butt welding with heavier metal; 2) Vee-groove butt joints; 3) gas metal arc welding; flat butt weld, vertical butt weld, horizontal butt weld, and overhead weld.

State Course ID 13207A001

WELDING TECHNOLOGY 3 1 Semester 1/2 credit

Open to seniors

Prerequisite: Completion of Welding Technology 2 AND instructor consent.

This course continues to develop previously introduced skills. Additional areas of instruction include: 1) inspection of specified jobs; 2) maintenance of equipment; 3) proper material selection; 4) air/carbon arc cutting; 5) pipe welding; and 6) spot welding.
State Course ID 13207A002

INDUSTRIAL TECHNOLOGY INDIVIDUALIZED INSTRUCTION

1 Semester 1/2 credit
Open to seniors 2 Semester Limit

Prerequisite: Completion or advanced-level course work in the field and written consent from the instructor

No more than one individualized instruction student will be assigned to an instructor during a given semester. Students will be required to select a topic for study and Laboratory work must be a component of the study. The instructor must approve the topic during the first four weeks of the semester. A written contract specifying work to be completed must be signed by both the student and the instructor. At the end of the semester, the student must submit a written report to the instructor. After grading, a copy of the report will be placed on file with the department chairperson.

State Course ID 22997A000

INDUSTRIAL TECHNOLOGY LABORATORY ASSISTANT

1 Semester 1/4 credit

2 Semester Limit – Pass/Fail Option Only

Open to juniors and seniors

Prerequisite: Successful completion of advanced level course work in the field in which the student will assist and written consent from the instructor.

No more than two laboratory assistants will be assigned to any teacher during a given period. Student laboratory assistants will be required to aid the teacher in preparation for instruction in the classroom and to assist the teacher in the preparation, organization, maintenance, distribution, and storage of laboratory materials and equipment.

Note: In order for a student to be a Lab Assistant, it must be their sixth class.

Welding State Course ID 13207A002

Carpentry State Course ID 17007A002

See Appendix at end of the curriculum guide for additional CTE courses, course descriptions, and prerequisites through the **Collinsville Area Vocational Center (CAVC) Program.**

Note: See OTHS CTE section on www.oths.us for further details on Career Pathways

DRIVER EDUCATION | HEALTH | PHYSICAL EDUCATION

DRIVER EDUCATION

1/2 Semester

1/4 credit *

Open to all levels

*Prerequisite: See Note**

The driving age in Illinois is 18. A student may obtain a restricted driver's license at the ages of 16 and 17 if they pass an approved driver education course consisting of 30 hours of classroom and 12 hours of behind the wheel training (6 hours driving and 6 hours observation). O'Fallon Township High School offers students an Illinois State Board of Education approved driver education course.

- Driver Education classroom and behind the wheel driving introduces students to Illinois Rules of the Road, vehicle control procedures, risk management techniques, skills that assist drivers in different environments and decision-making methods to become responsible drivers. Students will apply for permits during the classroom portion of driver education. (Students must be 15 years of age, show proof of age: certified birth certificate or military ID, pay a \$20 fee to the Illinois Secretary of State's Office, pass a written test and pass a vision test 20/40)
- *Eligibility for enrollment: Illinois State Law states that students must have successfully passed eight (8) courses in the previous two (2) semesters in order to enroll in driver education. There is a \$250 fee for driver education classroom / behind the wheel training. This fee must be paid before the student will be scheduled for behind the wheel driving.
- Driver Education classroom is a quarter class that counts toward a student's grade point average. Keyboarding essentials is offered the nine weeks opposite Driver Education for freshman and sophomores to fill out the semester. The classroom phase is offered five times a year and the behind the wheel training is offered throughout the school year plus during the summer.
- Behind the wheel driving sometimes occurs concurrently with classroom driver education and sometimes after the classroom portion (this is due to availability of driver education vehicles and the number of students enrolled). Behind the wheel driving lessons must be driven in not less than a 6-week period of time. (4 weeks allowable in the summer).

HEALTH

1 Semester

1/2 credit

Open to all levels

Prerequisite: None

Health Education is a one-semester course required for graduation. It is designed to assist the student in developing an over-all base of knowledge of physical, emotional, and mental health and how it applies to their daily lives as they seek a high degree of wellness. The students will demonstrate better decision making and life skills for themselves physically, mentally, and emotionally (socially) by using the knowledge and information provided in this class. Materials and discussions will concentrate on the consequences of both risk and wellness behaviors. Major emphasis will be placed on personal care, body systems, personal fitness, mental health, drug intervention, chronic illnesses, and communicable/non-communicable diseases/disorders.

We will explore current health issues and trends related to teens and what effects these issues have on their lives. Students will realize that health is not just the absence of disease, but the positive state of physical, mental and social well being. Various topics to be discussed could include self-esteem (body image), first aid and safety (CPR/AED Education), refusal skills, responsible decision making, media influence, teen pregnancy and parenting, the life cycle, AIDS and STDs, suicide prevention, proper nutrition, physical fitness, substance abuse and prevention, and current issues that affect every day teen living.

PERSONAL & COMMUNITY WELLNESS

1 Semester

1/2 credit

Open to all Juniors and Seniors

Prerequisite: Successful completion of Health

Personal Wellness is a one semester class designed to address health related issues from late adolescence through adulthood. This class will introduce students to the skills and strategies helpful in becoming more focused, productive individuals. Topics include goal setting, decision-making, medical ethics, building and maintaining relationships, aging, environmental health concerns, as well as identifying and applying coping strategies related to anxiety, depression, time management, and loss. The student will examine health and wellness issues from a personal and public health perspective. The impact of current health-related issues will regularly be presented in class within the context of curriculum objectives. A variety of research-based materials and instructional techniques will be utilized. Students will be provided with several opportunities to explore personal topics of interest.

DRIVER EDUCATION | HEALTH | PHYSICAL EDUCATION

Aaron Lands, Department Chairperson

FRESHMAN PHYSICAL EDUCATION

1 Semester 1/2 credit

Open to all freshman students

Prerequisite: None

Physical Education provides experiences through a variety of physical activities that place students in situations which offer physical, mental, social and emotional involvement. Freshmen Physical Education class encompasses many activities that are offered in the Physical Education curriculum at OTHS.

Activities include: CPR, AED and First Aid; Fitness and FitnessGram, Weightlifting and weight room safety, Basketball, Volleyball, Softball/Wiffle Ball, 3 Goal/Cone Challenge, Floor Hockey, Soccer, Ultimate Football/Flag Football, Soccer Golf, Matball/Kickball, Bocce Ball, Guppie Ball, Ping Pong, Pickleball, Badminton, Shuffleboard, Yoga, and Pilates.

INTRODUCTION TO STRENGTH TRAINING

1 SEMESTER 1/2 CREDIT

Open to all freshman students

Prerequisite: None

Introduction to Strength Training is a one semester course offered to freshman students who are interested in high intensity resistance training. This course is designed to introduce students to safe and effective resistance training techniques, weight room etiquette, and program design.

ADAPTIVE PHYSICAL EDUCATION

1 Semester 1/2 credit

Open to all levels

Prerequisite: Department Chair consent

This class is physical education for students who may have chronic diseases, physical disabilities, and verbal or mental impairments. Emphasizes the benefits of fitness, recreation, and rehabilitation.

TOTAL BODY FITNESS

1 Semester 1/2 credit

Open to sophomore, junior, and senior females

Prerequisite: None

This is a semester course offered to female students in grades 10, 11, & 12. Total Body Fitness is intended for the student who is sincerely interested in improving or maintaining her overall fitness level. The class includes physical workouts in cardio, muscular strength and endurance, flexibility, and balance, along with instruction on basic fitness concepts. A variety of physical workouts are offered in order to help the student achieve fitness goals. This training includes aerobics, steps, cardio-

walking, circuit/station training, weights, and plyometric. Students will be able to develop personalized fitness programs and achieve their goals by applying the Principles of Progression, Overload, Frequency, Intensity, and Time.

STRENGTH AND CONDITIONING

1 Semester 1/2 credit

Open to sophomores, juniors and seniors.

Prerequisite: None

Strength and Conditioning is designed to enhance the fitness levels of students participating in IHSA interscholastic activities AND students who are not OTHS athletes, yet desire individualized high intensity resistance and cardiovascular training. The course consists of physical strength training broken down into three phases and plyometric circuit training to enhance speed, agility, and reduce the risk of injury. A variety of other topics related to athletics are covered, including aerobic vs anaerobic conditioning, body mass index, body fat percentage, nutritional needs, and the pros and cons of nutritional supplements.

RECREATIONAL P.E. (COED)

1 Semester 1/2 credit

Open to sophomores, juniors and seniors.

Prerequisite: None

Recreational P.E. is a COED option designed for students who wish to participate in lower intensity, less competitive activities which promote lifelong physical activity. Concepts such as teamwork, strategy design, and the importance of physical movements throughout the lifespan will be emphasized. Activities will assist students in developing gross and fine motor skills.

Example of activities: Bocce Ball, Croquet, Geocaching, Capture the Flag, Square/Line Dancing, Hiking, Indoor/Outdoor Bowling, Tai Chi, Juggling, Safety Darts/Archery, Horseshoes, Disc Golf, and Orienteering.

TEAM SPORTS

1 Semester 1/2 credit

Open to sophomores, juniors and seniors.

Prerequisite: None

Team sports provide an opportunity for students to participate in competitive team-oriented activities. Students will have the opportunity to learn, develop, and demonstrate skills and strategies as well as fitness concepts and conditioning techniques used for improving physical fitness. Students will learn to collaborate with peers to achieve team goals. Students will be empowered to make healthy choices and develop positive behaviors in class activities.

DRIVER EDUCATION | HEALTH | PHYSICAL EDUCATION

Aaron Lands, Department Chairperson

PHYSICAL EDUCATION INDIVIDUALIZED INSTRUCTION

1 Semester 1/2 credit

Open to sophomores, juniors and seniors
Prerequisite: Completion of freshman PE and
Department Chair Consent

This is a one semester course designed to provide peer mentoring opportunities working with Adaptive Physical Education students to prepare them for participation in Special Olympics. Students, under the supervision of Adaptive Physical Education instructors, will teach the objectives and rules of the activity, assist students with learning collaboration and teamwork, analyze team strategy, demonstrate sportsmanship, and ensure a safe environment. Students will be expected to participate in drills and scrimmages, design practices, and document their experiences through reflection assignments. The course will assist OTHS in meeting their requirements to become a Special Olympics Unified Champion School. Students may enroll in multiple semesters.

INTER-SCHOLASTIC ATHLETICS

Open to any OTHS student who has passed four (4) or
more academic classes the previous semester
Prerequisite: None

Fall – Boys' Cross Country, Football, Soccer, and Golf;
Girls' Tennis, Volleyball, Cross Country and Golf.

Winter – Boys' Basketball and Wrestling; Girls'
Basketball and Wrestling

Spring – Boys' Track, Tennis, and Baseball; Girls' Track,
Softball and Soccer

The girls' program also includes Cheerleading and Dance
Team squads.

PHYSICAL EDUCATION INDIVIDUALIZED INSTRUCTION

1 Semester 1/2 credit

Open to sophomores, juniors and seniors
Prerequisite: Completion of freshman PE and
Department Chair Consent

This is a one semester course designed to provide peer mentoring opportunities working with Adaptive Physical Education students to prepare them for participation in Special Olympics. Students, under the supervision of Adaptive Physical Education instructors, will teach the objectives and rules of the activity, assist students with learning collaboration and teamwork, analyze team strategy, demonstrate sportsmanship, and ensure a safe environment. Students will be expected to participate in drills and scrimmages, design practices, and document their experiences through reflection assignments. The course will assist OTHS in meeting their requirements to become a Special Olympics Unified Champion School. Students may enroll in multiple semesters.

INTER-SCHOLASTIC ATHLETICS

Open to any OTHS student who has passed four (4) or
more academic classes the previous semester
Prerequisite: None

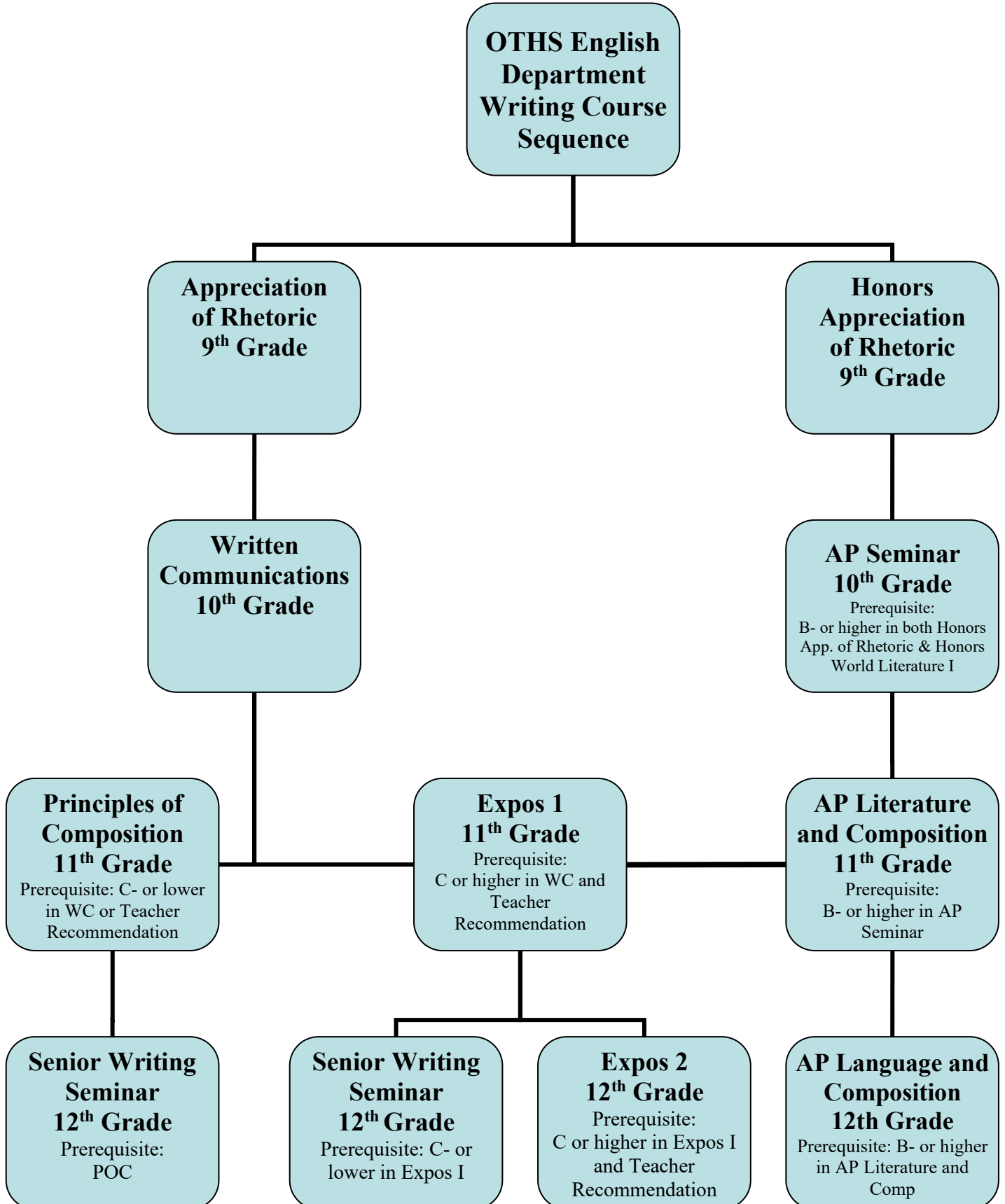
Fall – Boys' Cross Country, Football, Soccer, and Golf;
Girls' Tennis, Volleyball, Cross Country and Golf.

Winter – Boys' Basketball and Wrestling; Girls'
Basketball and Wrestling

Spring – Boys' Track, Tennis, and Baseball; Girls' Track,
Softball and Soccer

The girls' program also includes Cheerleading and Dance
Team squads.

ENGLISH DEPARTMENT



FRESHMAN REQUIREMENTS

FRESHMEN ARE REQUIRED TO TAKE ONE (1) WRITING-CENTERED COURSE AND ONE (1) TEXT-CENTERED COURSE.

WRITING-CENTERED COURSE OFFERINGS

APPRECIATION OF RHETORIC

1 Semester

Open to freshmen

Prerequisite: None

NCAA

1/2 credit

General

Appreciation of Rhetoric, a one-semester writing intensive required freshman course, covers the fundamental writing skills such as sentence structure, paragraph structure, and essay structure while incorporating the basics of presenting information orally. To do this, units will be arranged to highlight both oral and written aspects tied together with similar themes. These units will increase students' skills as researchers, so they can effectively write and present information to others throughout their high school years and beyond.

HONORS APPRECIATION OF RHETORIC

1 Semester

Open to freshmen

Prerequisite: Invitation only

NCAA

1/2 credit

Honors

Honors Appreciation of Rhetoric is a rigorous course that will require students to write research papers as well as present information orally. While the objectives and information categories are similar to those in Appreciation of Rhetoric, Honors Appreciation of Rhetoric students will cover material more quickly and be assigned more challenging oral projects.

TEXT-CENTERED COURSE OFFERINGS

APPRECIATION OF LITERATURE

1 Semester

Open to freshmen

Prerequisite: None

NCAA

1/2 credit

General

Appreciation of Literature is a one-semester required freshman course designed primarily to introduce the formal study of literature. This course involves the study of various genres including: short stories, poetry, non-fiction, novels in verse, drama, and/or graphic novels. Grades are based on daily quizzes over lectures or reading assignments, writing assignments, unit tests, class discussion and notebooks.

HONORS WORLD LITERATURE I

1 Semester

Open to freshmen

Prerequisite: Invitation only

NCAA

1/2 credit

Honors

Honors World Literature I is designed for the student who has exceptional ability in reading and language arts. The literature studied in this course is world literature and includes all genres. The study of the literature is intense and the reading expected of the students is extensive.

SOPHOMORE REQUIREMENTS

SOPHOMORES ARE REQUIRED TO TAKE ONE (1) WRITING-CENTERED COURSE AND ONE (1) TEXT-CENTERED COURSE.

WRITING-CENTERED COURSE OFFERINGS

WRITTEN COMMUNICATION

1 Semester

Open to sophomores

Prerequisite: None

NCAA

1/2 credit

General

Written Communication is a foundational class within the English department. In this writing intensive, semester-long course, students will practice writing for a variety of purposes in order to expand their ability to write well. Units are organized thematically and will include textual analysis and responses, major essays that guide students through the entire writing process in depth, IMC skills, and necessary grammatical and technical writing skills.

AP SEMINAR

Full Year (Fullfills both writing and text requirement)

1 credit

Open to sophomores

Prerequisite: Completion of both Honors Rhetoric and Honors World Literature I with a grade of "B-" or better

NCAA

Honors

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

TEXT-CENTERED COURSE OFFERINGS

WORLD LITERATURE

1 Semester

Open to sophomores

Prerequisite: None

NCAA

1/2 credit

General

This semester course engages students in an analytical study of classic to contemporary literature from around the world. This class will provide students the opportunity to experience and incorporate all elements of literacy: reading, writing, speaking, listening, and researching as they examine how culture impacts an individual's global perspective. By expanding their cultural boundaries, students will begin to realize their role as global citizens by embracing diversity and challenging individual and social prejudices.

JUNIOR REQUIREMENTS

JUNIORS ARE REQUIRED TO TAKE ONE (1) WRITING-CENTERED COURSE AND ONE (1) TEXT-CENTERED COURSE.

WRITING-CENTERED COURSE OFFERINGS

PRINCIPLES OF COMPOSITION

1 Semester

NCAA
1/2 credit

Open to juniors

General

Prerequisite: Completion of Written Communication with a grade of "C-" or lower or teacher recommendation

Students who wish to improve their writing will be able to concentrate on the writing process for developing clearer and more understandable compositions. Students will receive help in improving the structure of sentences and paragraphs as well as developing personal essays.

EXPOSITORY WRITING I

1 Semester

NCAA
1/2 credit

Open to juniors

Enriched

Prerequisite: Completion of Written Communication with a grade of "C" or better and teacher recommendation

Students will refine personal essay writing and be introduced to research-based writing using the literary analysis and persuasive essays. Students will be expected to demonstrate mature, creative approaches to their writing while meeting acceptable standards of correctness and form. This class is designed for the college-bound student.

AP[®] LITERATURE AND COMPOSITION

Full Year (Fulfills both writing and text requirement)

NCAA

Open to juniors

1 credit
Honors

Prerequisite: Completion of AP Seminar with a grade of "B-" or better

AP[®] Literature and Composition is a year-long course in world literature that uses modern critical methods and class discussion to examine challenging classical and contemporary texts and to explore the issues and ideas that emerge. As a college-preparatory writing course that exposes students to a variety of kinds of writing, it also emphasizes the skills of close reading and analysis of style through poetry and fictional prose. This course gives students the opportunity to hone their argumentation skills, makes them more comfortable with poetry analysis, and provides them practice in writing both at-home and in-class responses to literature. Throughout the course, students will examine works both in-class and independently around such themes as Dream vs. Reality, Conformity and Rebellion, Tradition and Progress,

Identity and Culture, and War and Peace. This year-long course fulfills both the text-centered and writing-centered requirements.

TEXT-CENTERED COURSE OFFERINGS

AMERICAN LITERATURE

1 Semester

NCAA
1/2 credit

Open to juniors and seniors

Enriched

Prerequisite: English classes with a grade of "C+" or better

American Literature is a survey course that begins with Puritan writings and ends with the 21st century. Essays, speeches, poetry, short stories, and novels are implemented in each unit of the course. Students discover the thoughts and ideas that have guided America to where we are at the present. This class is designed for the college-bound student.

CONTEMPORARY THEMES

IN LITERATURE

1 Semester

NCAA
1/2 credit

Open to juniors

General

Prerequisite: None

This course examines a variety of themes in literature. Students explore different genres from the short story to nonfiction essays to poetry, and gain a basic understanding of each. Class requirements include a group teaching project, and short written assignments throughout the semester. This class is designed to prepare a student with the comprehension skills needed to succeed in a variety of post-secondary settings.

GLOBAL VOICES IN LITERATURE

1 Semester

NCAA
1/2 credit

Open to juniors and seniors

General

Prerequisite: None

Students will study literature written by authors from a variety of cultural and ethnic backgrounds in order to gain a deeper understanding and appreciation of diversity within America and around the world. This multicultural literature class will encourage students to recognize and respect unique cultural perspectives while simultaneously finding commonalities amongst humankind. This class is designed to prepare a student with the comprehension skills needed to succeed in a variety of post-secondary settings.

ENGLISH DEPARTMENT

Jodie Seipp, Department Chairperson

GREAT BOOKS

1 Semester

Open to juniors and seniors

Prerequisite: None

NCAA

1/2 credit

General

In this course, students will read fiction and nonfiction library books that will engage and challenge their abilities and interests. Class time will be spent reading at least 5 books throughout the semester, reflecting through writing, analyzing material through various assignments, building competency at using the IMC and understanding parts of a book, and learning about vocabulary words that are useful in conversing or writing about books. Furthermore, each of the five units contains a project geared towards making book recommendations. The goals of this course are to create life-long readers, to build stamina for reading and working independently, and to build communication skills as students discuss their reading.

THEATRE LITERATURE

1 Semester

Open to juniors and seniors

Prerequisite: Must have C+ or higher in 10th and 11th grade English courses

NCAA

1/2 credit

SWIC Dual Credit Course

Enriched

Students will read and study dramatic literature, both as a type of literature and as a blueprint for performance. Students will read a minimum of nine (9) plays representing various styles and periods. The plays read will serve as the basis for written essays, discussion, and in-class presentations. Though elements and characteristics of dramatic literature will be the focus, students will also be exposed to basic acting and staging techniques. This dual-credit class is designed to broaden and expand the comprehension skills of the college-bound student. Students may also take this course for SWIC dual credit with three (3) college credit hours in LIT 125.

WORLD MYTHOLOGY

1 Semester

Open to juniors and seniors

Prerequisite: None

NCAA

1/2 credit

General

The class will explore a range of mythology from Greek, Roman, Norse, African American, Native American and others. The myths will focus on the creation of the world, mankind's errors in judgment, heroic adventures, and epics. This class is designed to broaden and expand the comprehension skills of the college-bound student.

SENIOR REQUIREMENTS

SENIORS ARE REQUIRED TO TAKE ONE (1) WRITING-CENTERED COURSE AND ONE (1) TEXT-CENTERED COURSE.

WRITING-CENTERED COURSE OFFERINGS

SENIOR WRITING SEMINAR

1 Semester

NCAA

1/2 credit

Open to seniors

General

Prerequisite: Completion of Principles of Composition or C- or lower in Expos I

Senior Writing Seminar is a class designed for students interested in improving their writing skills for various purposes. In addition to narrative, informative, creative, and research-based writing assignments, students will complete a semester-long project culminating in the creation of their autobiographies. Vocabulary, grammar, and mechanics will be reviewed and reinforced, and revision and editing will be a focus of the writing process. As a study in style and technique, students will read and analyze a novel or autobiography in class as well.

EXPOSITORY WRITING II

1 Semester

NCAA

1/2 credit

Open to seniors

Enriched

Prerequisite: Completion of Expository Writing I with a grade of "C" or better and teacher recommendation

The course helps students to refine their essay writing skills using research-based information rather than personal experiences. Several essays are based on required readings. Students also learn research skills and proper documentation as they write a research paper.

AP[®] LANGUAGE AND COMPOSITION

NCAA

2 Semesters

1/2 credit

SLU Dual Credit Course

Honors

Open to seniors

Prerequisite: Completion of AP Literature and Composition with a grade of "B-" or better

AP[®] English Language and Composition is a year-long course designed to give advanced, college-bound students multiple opportunities to work with rhetorical theory to more effectively examine and analyze the nature and impact of the rhetorical situation. Students will explore possible research topics throughout the first semester in order to prepare them for an extensive research project second semester. This course prepares students for the AP[®] English Language and Composition exam and fulfills both the text-centered and writing-centered requirements. Students may also take this course for SLU dual credit with three (3) college credit hours in ENG 1900.

WRITING LAB ASSISTANT

1/4 credit per semester

2 Semester Limit – Pass/Fail Option Only

Open to seniors

Prerequisite: Approval of the English department chair based upon review of application and teacher recommendations.

Students wishing to pursue a career in writing or education could benefit from this role. A lab assistant will be assigned by the department chair to work exclusively with a designated Written Communications teacher during a specific hour of the day. The lab assistant will assist Written Communications students throughout the writing process. Technical and research skills are also required to help students successfully complete course requirements.

Note: In order for a student to be a Lab Assistant, it must be their sixth class. This is an elective English credit and does not count towards the required writing or literature course.

TEXT-CENTERED COURSE OFFERINGS

AMERICAN LITERATURE

1 Semester

Open to juniors and seniors

Prerequisite: English classes with a grade of "C+" or better

NCAA

1/2 credit

Enriched

American Literature is a survey course that begins with Puritan writings and ends with the 21st century. Essays, speeches, poetry, short stories, and novels are implemented in each unit of the course. Students discover the thoughts and ideas that have guided America to where we are at the present. This class is designed for the college-bound student.

GLOBAL VOICES IN LITERATURE

1 Semester

Open to juniors and seniors

Prerequisite: None

NCAA

1/2 credit

General

Students will study literature written by authors from a variety of cultural and ethnic backgrounds in order to gain a deeper understanding and appreciation of diversity within America and around the world. This multicultural literature class will encourage students to recognize and respect unique cultural perspectives while simultaneously finding commonalities amongst humankind. This class is designed to prepare a student with the comprehension skills needed to succeed in a variety of post-secondary settings.

GREAT BOOKS

1 Semester

Open to juniors and seniors

Prerequisite: None

NCAA

1/2 credit

General

In this course, students will read fiction and nonfiction library books that will engage and challenge their abilities and interests. Class time will be spent reading at least 5 books throughout the semester, reflecting through writing, analyzing material through various assignments, building competency at using the IMC and understanding parts of a book, and learning about vocabulary words that are useful in conversing or writing about books. Furthermore, each of the five units contains a project geared towards making book recommendations. The goals of this course are to create life-long readers, to build stamina for reading and working independently, and to build communication skills as students discuss their reading.

PUBLIC SPEAKING

1 Semester

NCAA

1/2 credit

SWIC Dual Credit Course

Open to seniors

Enriched

Prerequisite: Must have C+ or higher in 10th and 11th grade English courses

This course will build on skills obtained in Appreciation of Rhetoric. It will teach skills in successful public speaking including instruction in the organization, presentation, and evaluations of various types of speeches, i.e., personal narrative, informative, group speech, and persuasive. This course is open to seniors. Students may also take this course for SWIC dual credit with three (3) college credit hours in SPCH 151.

THEATRE LITERATURE

1 Semester

NCAA

1/2 credit

SWIC Dual Credit Course

Open to juniors and seniors

Enriched

Prerequisite: Must have C+ or higher in 10th and 11th grade English courses

Students will read and study dramatic literature, both as a type of literature and as a blueprint for performance. Students will read a minimum of nine (9) plays representing various styles and periods. The plays read will serve as the basis for written essays, discussion, and in-class presentations. Though elements and characteristics of dramatic literature will be the focus, students will also be exposed to basic acting and staging techniques. This dual-credit class is designed to broaden and expand the comprehension skills of the college-bound student. Students may also take this course for SWIC dual credit with three (3) college credit hours in LIT 125.

WORLD MYTHOLOGY

1 Semester

NCAA

1/2 credit

General

Open to juniors and seniors

Prerequisite: None

The class will explore a range of mythology from Greek, Roman, Norse, African American, Native American and others. The myths will focus on the creation of the world, mankind's errors in judgment, heroic adventures, and epics. This class is designed to broaden and expand the comprehension skills of the college-bound student.

MATHEMATICS DEPARTMENT COURSE SEQUENCE FLOWCHART

All courses in the Mathematics Department are **year-long courses** and must be taken in sequence, beginning with the courses offered to freshmen at Milburn and progressing downward through the table. Refer to individual course descriptions for specific prerequisites.

Students may **move down and to the right** in the sequence if they **do not meet** the grade requirements for the column in which they start. Conversely, students may **move down and to the left** with an excellent grade in their current class and a teacher recommendation.

Students may enroll **concurrently in two mathematics courses** during the same semester **only under special circumstances**, as determined by the student's previous math teacher and school counselor, with department chairperson approval. **Exception:** Students do **not** need special approval to take **AP® Statistics concurrently with AP® Precalculus or AP® Calculus (AB or BC)**.

Prerequisite for AP® Statistics: Successful completion of **Advanced Algebra 2** with a grade of **C or higher**, or **Honors Algebra 2** with a passing grade. Students may—but are not required to—take a **Precalculus** course before enrolling in AP® Statistics.

	Honors Sequence		Advanced Sequence		Regular Sequence	
Freshman ↓	Honors Algebra 1 (Milburn only)		Advanced Algebra 1 (Milburn only)		Introduction to Algebra (Milburn only)	
	Honors Geometry (Milburn and Smiley)		Advanced Geometry		Geometry with Algebra	
	Honors Algebra 2		Advanced Algebra 2		Algebra 1	
	AP® Precalculus		Advanced Precalculus w/Trig		Algebra 2	Advanced Algebra with Financial Applications
Senior	AP® Calculus BC	AP® Calculus AB	* AP® Statistics	Precalculus w/Trig	College Algebra	

MATHEMATICS DEPARTMENT

Teri Range, Department Chairperson

INTRODUCTION TO ALGEBRA

Full Year 1/2 credit per semester
Open to all levels
Prerequisite: None **Remedial**

Introduction to Algebra introduces the skills and concepts of a first-year algebra course. Emphasis will be upon the skills needed to solve and graph linear equations and inequalities, solve systems of equations, and complete applications of linear equations and systems of linear equations, along with all the numerical concepts required to support these topics. The course is specifically designed to meet the needs of students requiring practice with algebra and number skills at a slower pace. Students completing both semesters of Introduction to Algebra will enroll in Geometry with Algebra.

ALGEBRA 1

Full Year 1/2 credit per semester
Open to juniors and seniors **General**
Prerequisite: Pass BOTH semesters of Introduction to Algebra and Geometry with Algebra

Algebra 1 is a one-year course of study of first year Algebra Topics that will build upon the student's previous knowledge of mathematics obtained in Introduction to Algebra and Geometry with Algebra. Algebra 1 will serve as a second course after Geometry with Algebra that will prepare students for course work in Algebra 2. Topics in Algebra 1 will include study of the real number line and its properties, solving linear and quadratic equations, as well as a review of how to solve systems of linear equations. Students will do work with Laws of Exponents, perform basic operations on polynomials, factor polynomials, simplify rational expressions and solve rational equations. Graphing quadratic functions, and work with probability will be undertaken. Students will also prepare for the SAT and ACT tests. Juniors who successfully complete Algebra 1 may enroll in Algebra 2.

GEOMETRY WITH ALGEBRA

Full Year 1/2 credit per semester
Open to sophomores, juniors and seniors **General**
Prerequisite: Completion of BOTH Semesters of Introduction to Algebra OR an equivalent introductory level Algebra course.

Geometric concepts needed for success in more advanced algebra courses will be studied. Topics, skills, and concepts previously covered in Introduction to Algebra which are relevant to work in Geometry will be reviewed and applied. Successful completion of both semesters of Geometry with Algebra will enable students to enroll in Algebra 1.

ADVANCED ALGEBRA WITH FINANCIAL APPLICATIONS

FULL YEAR 1/2 CREDIT PER SEMESTER
OPEN TO SENIORS **GENERAL**
PREREQUISITE: SUCCESSFUL COMPLETION OF SOME LEVEL OF BOTH GEOMETRY AND ALGEBRA I

Advanced Algebra with Financial Applications is a mathematical modeling course that is algebra based, applications-oriented, and technology-dependent. The course addresses college preparatory mathematics topics from Algebra 2, Statistics, Probability, and Precalculus under eight financial umbrellas: Discretionary Expenses, Banking, Investing, Credit, Employment and Income Taxes, Automobile Ownership, Independent Living, and Retirement Planning and Household Budgeting. The course allows students to experience the interrelatedness of mathematical topics, find patterns, make conjectures, and extrapolate from known situations to unknown situations. The mathematics topics contained in this course are introduced, developed, and applied in an as-needed format in the financial settings covered. Students are encouraged to use a variety of problem-solving skills and strategies in real-world contexts, and to question outcomes using mathematical analysis and data to support their findings. The course offers students multiple opportunities to use, construct, question, model, and interpret financial situations through symbolic algebraic representations, graphical representations, geometric representations, and verbal representations. It provides students a motivating, young-adult centered financial context for understanding and applying the mathematics they are guaranteed to use in the future.

ALGEBRA 2

Full Year 1/2 credit per semester
Open to juniors and seniors **General**
Prerequisite: Successful completion of Geometry with Algebra and Algebra 1 OR successful completion of Advanced Algebra 1 and Advanced Geometry with recommendation by a student's most recent mathematics teacher.

Algebra 2 will serve as the final course in the Introduction to Algebra, Geometry with Algebra, Algebra 1 sequence or a third course in the Advanced Algebra 1, Advanced Geometry sequence. Students taking this course should be preparing for further study at the post secondary level. Students will examine the real number system in conjunction with set theory. Students will take knowledge from Algebra 1 and expand upon it in areas such as linear equations and inequalities, functions, and linear and quadratic functions. Students will study quadratic functions and factoring, polynomials and polynomial functions, rational exponents, and radical functions. Students will also explore new areas such as polynomial functions, exponential and logarithmic functions, trigonometric functions, and statistics. Juniors who

MATHEMATICS DEPARTMENT

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successfully complete Algebra 2 may enroll in College Algebra with Trigonometry as seniors. Students successfully completing both semesters of Algebra 2 are **not** eligible to enroll in either Advanced Precalculus with Trigonometry or Statistics.

COLLEGE ALGEBRA

Full Year

NCAA

1/2 credit per semester

Open to seniors and qualifying juniors.

General

Prerequisite: Completion of both semesters of Algebra 2 with a B- or below OR successful completion of both semesters of Advanced Algebra 2 with a grade of D+ or below.

College Algebra is a full year course reviewing and extending upon Algebra 2 topics. The study of functions and their graphs will be emphasized. Topics will include linear, quadratic, piece-wise, rational, polynomial, exponential and logarithmic functions. Matrix algebra and basic arithmetic of complex numbers will be new topics covered in this course. Upon successful completion of this course, students will be able to apply a variety of problem-solving strategies to find solutions to an array of real-life problems. This course will provide the algebraic skills needed to pursue higher level studies in mathematics.

PRECALCULUS WITH TRIGONOMETRY

Full Year

NCAA

1/2 credit per semester

Open to seniors and qualifying juniors

General

Prerequisite: Successful completion of both semesters of Algebra 2 with a B or better OR successful completion of both semesters of Advanced Algebra 2 with a passing grade of C+ or lower.

PRECALCULUS with Trigonometry is a full-year course reviewing and extending upon Algebra 2 topics. Linear, quadratic, polynomial, logarithmic, exponential, and rational functions will be studied. Application of each of these functions to real world problems will be explored. During the second semester, trigonometric functions and their applications will be introduced. Units dealing with conic sections and statistics will be covered second semester. This course will help lay a foundation for students preparing for further study at the post-secondary level. Students who have completed Honors Algebra 2 are not eligible to enroll in this course. All students registering for this course are required to have a graphing calculator.

ADVANCED MATH SEQUENCE

ADVANCED ALGEBRA 1

NCAA

Full Year

1/2 credit per semester

Open to freshman

Enriched

Prerequisite: None

Advanced Algebra 1 is an intensive one-year course that will build upon the student's previous knowledge of mathematics by emphasizing language relating to the real number system and its properties. Topics include: expressions, equations and applications, inequalities, linear functions, linear equations and their graphs, systems of linear equations, exponents and exponential functions, polynomial operations and factoring, radical expressions, and quadratic functions. This course will also introduce the student to the graphing calculator. Successful completion of Advanced Algebra 1 (with a grade of "C" or better both semesters) prepares students for enrollment in Advanced Geometry. Students who have passed Advanced Algebra 1 with a grade less than a "C" must enroll in Geometry with Algebra the following year.

ADVANCED GEOMETRY

NCAA

Full Year

1/2 credit per semester

Open to sophomores, juniors, and seniors

Enriched

Prerequisite: Completion of Advanced Algebra 1 with a grade of C or better BOTH semesters.

Advanced Geometry is designed to help students develop habits of clear thinking in order to make conjectures and follow a logical sequence of deductive reasoning. Students will learn about geometric relationships in both two and three dimensions: lines, planes, angles, circles, polygons, etc. will be studied. Different problem-solving techniques are introduced, and students are encouraged to use them when doing assignments. During the first semester students will focus on learning geometric concepts through constructions and transformations (most specifically of triangles). The development of logical proofs and the use of algebraic skills to solve geometric problems will also be emphasized. The focus of the second semester will be on properties and formulas related to polygons, circles, coordinate geometry, polyhedra and work in three dimensions.

ADVANCED ALGEBRA 2

NCAA

Full Year

1/2 credit per semester

Open to sophomores, juniors and seniors

Enriched

Prerequisite: Completion of Advanced Geometry with a grade of "C" (not C-) or higher both semesters AND a grade of "C" or higher both semesters of Advanced Algebra 1 OR a grade of A (95% or higher) both semesters in Algebra 1 and the recommendation of the Algebra 1 teacher.

ADVANCED ALGEBRA 2...CONT'D

Advanced Algebra 2 is a full-year course designed for college-bound students. The course begins with a review of the real numbers system and its properties, then continues on to solving and graphing linear functions. Linear systems eventually build into some basic work with matrices. The main emphasis in the systems chapter will be linear programming. First semester ends with the study of quadratic equations and functions. Students will graph quadratic functions and solve quadratic equations using several different methods. During the second half of the school year, students will study radical functions and rational expressions, exponential and logarithmic functions, rational functions, trigonometric functions, polynomials, and polynomial functions. Students enrolling in Advanced Algebra 2 should be motivated to work. They should also possess thinking skills that allow them to make the transition to a higher, more abstract cognitive level of mathematics than previously attained. (See next page)

Students completing Advanced Algebra 2 with a passing grade of C- or less either semester will be recommended for College Algebra with Trigonometry placement. Students completing Advanced Algebra 2 with a grade of C or higher are eligible to enroll in AP[®] Statistics. A grade of B or higher is necessary for enrollment in Advanced Pre-Calculus with Trigonometry.

AP[®] STATISTICS

NCAA

Full Year

1/2 credit per semester

SLU Dual Credit Course

Prerequisite: Successful Completion of Advanced Algebra 2 with a grade of C or higher OR Honors Algebra 2 with a passing grade.

Honors

AP[®] Statistics is a year-long course designed to prepare students for collegiate level work in probability and statistics. Descriptive Statistics is studied first semester and includes such topics as graphical displays of data, numerical descriptions of data, summarizing bivariate data, probability, random variables, and probability distributions. Inferential statistics is the focus of second semester and includes such topics as planning a statistical study, point estimation, interval estimation, and various forms of hypothesis testing. Students who enroll in AP[®] Statistics will be prepared to take the AP[®] Statistics exam in early May. An increasing number of college programs and majors are requiring some coursework in statistics and this course serves as excellent preparation for such work. Applications and case studies are provided for study throughout the course and the R programming language and Num Works calculators will be utilized.

ADVANCED PRE-CALCULUS WITH TRIGONOMETRY

NCAA

Full Year

1/2 credit per semester

Open to juniors and seniors

Enriched

Prerequisite Completion of Advanced Algebra 2 and Advanced Geometry with a grade of B- or higher both semesters in each course

Advanced Pre-Calculus with Trigonometry is a one-year course for students with a very strong background in both Algebra and Geometry who are interested in pursuing further coursework in mathematics, engineering, or the sciences. During first semester, students will study polynomial, rational, exponential, and logarithmic functions and their properties. Second semester focuses on functions of arc lengths on the circumference of the unit circle (circular functions) and their graphs, trigonometric functions, trigonometric identities, inverse trigonometric functions, and algebraic solutions of trigonometric equations. A variety of application problems from surveying and navigation will be solved using the Law of Sines and Law of Cosines. Extensive use of graphing calculator technology will be made in this course. Successful completion of this course will prepare students for a first course in Calculus.

MATHEMATICS DEPARTMENT

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HONORS MATH SEQUENCE

HONORS ALGEBRA 1

NCAA

Full Year

1/2 credit per semester

Open to freshmen

Honors

Prerequisite: Eligibility determined by qualifying criteria

Honors Algebra 1 is a one-year course covering the material in a typical first-year algebra course plus additional topics, all at an accelerated pace and in greater depth. Solving equations, fractions and their applications, inequalities, polynomials, linear functions, systems of equations, rational expressions and equations, quadratic functions and data analysis are just some of the topics covered in this course. Some geometry topics are also integrated into the curriculum. The TI-84 graphing calculator is a valuable asset for this class. Successful completion of both semesters of this course with a grade of "B" (not B-) or higher is necessary for students to enroll in Honors Geometry as sophomores. A grade of "B-" or lower requires that the student take Advanced Geometry the following school year. The Honors Algebra 1 teacher may recommend that those students demonstrating exceptional talent and abilities in mathematics (very high A average both semesters) "double up" and enroll in both Honors Geometry and Honors Algebra 2 during the next school.

HONORS ALGEBRA 2

NCAA

Full Year

1/2 credit per semester

Open to sophomores and juniors

Honors

Prerequisite: Completion of Honors Geometry with a grade of "B" (not B-) or higher both semesters OR recommendation by the Honors Algebra 1 teacher to double in Honors Geometry and Honors Algebra 2

Honors Algebra 2 is a full-year course designed for the most talented students of mathematics at this level of the curriculum. Graphing calculators will be used extensively. Significant emphasis will be placed upon the language and vocabulary in mathematics. The course begins with a study of the algebraic properties, set theory, and a review of solving linear equations and inequalities. The first semester concentrates on linear functions and their applications. Students will discover how to work with linear functions numerically, graphically and algebraically. The concept of linear functions will be extended to and applied to systems of linear functions and matrix algebra. The first semester will conclude with a study of the laws of exponents. An in-depth study of polynomial, exponential, logarithmic, and rational functions will be the major focus of the second semester. Again, students will study these functions numerically, graphically, and algebraically. Students will explore multiple problem solving strategies, applying higher level thinking skills. In addition to the study of functions, inverse functions will be introduced and their application studied. A detailed analysis of the models and graphs of conic sections will be implemented during the

second semester. Finally, students will be introduced to the basic principles of probability as well as the statistical analysis of data. An abundance of real world applications will be presented throughout the year to enhance each student's appreciation and understanding of mathematics. Successful students that complete the course with a grade of "B" or better for both semesters may enroll in AP® Pre-Calculus the following year.

HONORS GEOMETRY

NCAA

Full Year

1/2 credit per semester

Open to freshmen and sophomores

Honors

Prerequisite: Completion of Honors Algebra 1 with a grade of "B" (not B-) or higher BOTH semesters

Honors Geometry is a one-year course intended for mathematically-talented students. The mission of the class is to develop innovative problem solvers who think critically through problems, make connections, formulate creative strategies, apply mathematical concepts, generate accurate but efficient solutions, and effectively communicate ideas through logical reasoning. Emphasis first semester is placed upon language, developing logical reasoning skills by writing proofs as well as practicing creative problem-solving techniques. During second semester, students will study similarity, right triangles, circles, area, and volume of three-dimensional figures. Admission to the course as a Freshman is by invitation only.

Note: Consent of the department chairperson is required unless the Honors Algebra 1 prerequisite is satisfied.

AP® PRE-CALCULUS

NCAA

Full Year

1/2 credit per semester

Open to juniors and seniors

Honors

Prerequisite: Completion of Honors Algebra 2 with a grade of "B" (not B-) or higher BOTH semesters

AP® Pre-Calculus is a one-year course for students who have demonstrated an aptitude for mathematics and have been very successful in previous Honors level mathematics classes. This mathematically rigorous course provides talented students with an environment rich in applications and problem solving. During the first semester, students will study polynomial, rational, exponential, and logarithmic functions and their properties. Emphasis second semester is placed upon trigonometric functions and their graphs as well as trigonometric identities, trigonometric equations, and the solving of triangles. The year ends with a unit on vectors, parametric functions, and conic sections. Successful completion of AP Pre-Calculus qualifies students for AP® Calculus AB the next school year, and students receiving a grade of A- or higher in AP® Pre-Calculus are eligible to enroll in AP® Calculus BC the next school year.

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AP[®] CALCULUS AB

Full Year



1/2 credit per semester

SLU Dual Credit Course

Honors

Prerequisite: Advanced Pre-Calculus with Trigonometry with a grade of B– or higher both semesters or successful completion of AP Pre-Calculus

AP[®] Calculus AB is a college-level mathematics course designed for high school students who have successfully completed pre-calculus and are ready to explore the foundational concepts of differential and integral calculus. The course focuses on three main topics: limits, derivatives, and integrals, including the Fundamental Theorem of Calculus. Students learn how to analyze and model real-world phenomena involving change using mathematical tools and representations -- graphical, numerical, analytical, and verbal. They explore the meaning and application of derivatives as rates of change and slopes of tangent lines, and use integrals to determine area, accumulation, and total change over an interval. Emphasis is placed on conceptual understanding, proper use of mathematical notation, and justification of results. Technology, particularly graphing calculators, is integrated throughout to enhance problem-solving and deepen insight. Designed for students with a strong foundation in algebra, geometry, and pre-calculus, this course prepares them for success in future STEM-related studies. AP[®] Calculus AB is equivalent to a first-semester college calculus course and prepares students to either take the AP[®] Exam for potential college credit or advanced placement or the opportunity to receive dual credit through St. Louis University.

AP[®] CALCULUS BC

Full Year



1/2 credit per semester

SLU Dual Credit Course

Honors

Prerequisite: Successful completion of AP Pre-Calculus with a grade of "A–" or higher both semesters

AP[®] Calculus BC is an intensive, college-level mathematics course that covers all topics in AP[®] Calculus AB – limits, derivatives, definite and indefinite integrals, and the Fundamental Theorem of Calculus – while extending the curriculum to include more advanced material such as parametric, polar, and vector functions, sequences and series (including Taylor and Maclaurin series), and additional integration techniques. Designed for highly motivated students with a strong mathematical foundation, AP[®] Calculus BC moves at a faster pace and demands a deeper level of analytical thinking and conceptual understanding than AP[®] Calculus AB. Students use multiple representations – graphical, numerical, analytical, and verbal – to solve problems and justify solutions, while developing fluency in mathematical communication and use of technology. This course is equivalent to the first two semesters of college calculus. Just like with AP[®] Calculus AB, students may receive dual credit for Calculus 1 only through St. Louis University. Students wishing to earn college credit may also take the AP[®] Calculus BC exam for potential college credit for Calculus 1 and Calculus 2.

PERFORMING ARTS DEPARTMENT

Dr. Melissa Gustafson-Hinds, Department Chairperson

PERFORMING ARTS DEPARTMENT

HONORS CHAMBER ENSEMBLE

1 Semester (Fall) 1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: Blind Audition

This is a one-semester course focusing on the highest levels of vocal musicianship. Students will continue developing proper vocal technique in a large variety of vocal styles and genres, from Renaissance music to Gospel and Contemporary styles, and sing repertoire in a variety of languages and meters. Advanced theory and sight reading are also included in the daily course load. Voicings range from SATB to SSAATTBB. Madrigals is encompassed within this group. Additionally, all students enrolled in Honors Chamber Ensemble must audition for ILMEA, participate in up to 10 madrigal outreach performances during the school year, and attend a variety of required events outside of the regular school day. **All members are required to study voice privately.** Students must also be enrolled in the Spring Chamber Ensemble the following semester to be eligible for Honors Chamber Ensemble.

During the semester, students will be participating in the following mandatory performances:

- Feeder School Concert
- Fall Concert
- Madrigal Dinners
- Community Outreach Performances
- ILMEA District Auditions/Festival

Optional Opportunities for participation & engagement:

- Extra-Curricular Choirs
- ILMEA All State Festival
- Spring Musical
- Illinois Music Honor Society
- Festival Trips (destination to be determined)

Enrollment in the choir program offers a variety of performances and travel opportunities. Previous trips include:

- 2027 – New Orleans, LA
- 2024 – Nashville, TN
- 2018 – New York City, New York
- 2016 – Disney Land, Los Angeles
- 2014 – New York City, New York

SPRING CHAMBER ENSEMBLE

1 Semester (Spring) 1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: Blind Audition

This is a one-semester course focusing on the highest levels of vocal musicianship. Students will continue developing proper vocal technique in a large variety of vocal styles and genres, from Renaissance music to Jazz and Contemporary styles, and sing repertoire in a variety of languages and meters. Advanced theory and sight reading are also included in the daily course load. Voicings range from SATB to SSAATTBB. The Jazz Choir is encompassed within this group. Additionally, all students enrolled in Chamber Ensemble must participate in IHSA Solo & Ensemble contest and attend a variety of required events outside of the regular school day. **All members are required to study voice privately.** Students must also have been enrolled in the Honors Chamber Ensemble the previous semester to be eligible for Chamber Ensemble.

During the semester, students will be participating in the following mandatory performances:

- Community Outreach Performances
- IHSA Solo/Ensemble Contests
- IHSA Organizational Contest
- Spring Concert
- Spring Pops / Finale Concert

Opportunities for participation will include:

- Extra-Curricular Choirs
- ILMEA All State Festival
- Spring Musical
- Illinois Music Honor Society
- Festival Trips (destination to be determined)

Enrollment in the choir program offers a variety of performances and travel opportunities. Previous trips include:

- 2027 – New Orleans, LA
- 2024 – Nashville, TN
- 2018 – New York City, New York
- 2016 – Disney Land, Los Angeles
- 2014 – New York City, New York

PERFORMING ARTS DEPARTMENT

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MIXED CHORALE

Full Year 1/2 credit per semester

Open to sophomores, juniors, and seniors.

Prerequisite: Audition

This is a full-year course focusing on advanced vocal technique, intermediate music theory, and good musicianship through the performance of a wide variety of musical styles. This course includes a moderate amount of singing in foreign languages and intermediate sight-reading. Voicings range from SSA to SSAATTBB. Rehearsal and performance times scheduled outside of the regular school day are mandatory for all enrolled students. During the school year, students will be participating in the following mandatory performances and contests: Feeder School Concert, Fall Concert, Winter Concert, IHSA Organizational Contest, Spring Concert, Finale Concert.

Optional opportunities for additional participation will include:

- Extra-Curricular Choirs
- Madrigal Dinner Concert
- IHSA Solo & Ensemble Contest
- Spring Musical
- ILMEA Auditions/Festivals and All-State Choirs
- Festival Trips (destination to be determined)
- Field Trips

Enrollment in the choir program offers a variety of performances and travel opportunities. Previous trips include:

- 2027 – New Orleans, TN
- 2024 – Nashville, TN
- 2018 – New York City, New York
- 2016 – Disney Land, Los Angeles, CA
- 2014 – New York City, New York

CONCERT CHOIR

Full Year 1/2 credit per semester

Open to sophomores, juniors, and seniors

Prerequisite: None

This is a full-year course focusing on vocal technique, intermediate theory, and good musicianship through the performance of a wide variety of musical styles. This course includes a moderate amount of singing in foreign languages and intermediate sight-reading. Begins with SATB voicing. Rehearsal and performance times scheduled outside of the regular school day are mandatory for all enrolled students.

During the school year, students will be participating in the following performances and contests:

- Feeder School Concert
- Fall Concert
- Winter Concert
- IHSA Solo/Ensemble Contests
- IHSA Organizational Contest
- Spring Concert

Spring Pops / Finale Concert

Optional opportunities for additional participation will include:

- Extra-Curricular Choirs
- Madrigal Dinner Concert
- Spring Musical
- ILMEA Auditions/Festivals and All-State Choirs
- Illinois Music Honor Society
- Festival Trips (destination to be determined)

Enrollment in the choir program offers a variety of performances and travel opportunities. Previous trips include:

- 2027 – New Orleans, LA
- 2024 – Nashville, TN
- 2018 – New York City, New York
- 2016 – Disney Land, Los Angeles
- 2014 – New York City, New York

FRESHMAN CHOIR

Full Year 1/2 credit per semester

Open to all freshmen

Prerequisite: None

This is a full-year academic course focusing on building musicianship and vocal technique through the performance of a wide variety of musical styles. Voicing range from SAB to SSATB. In addition to performance expectations, this course includes introductory sight-reading, ear training, and music theory. Rehearsal and performance times scheduled outside of the regular school day are mandatory for all enrolled students.

During the school year, students will be participating in the following performances and contests:

- Feeder School Concert
- Fall Concert
- Winter Concert
- IHSA Organizational Contest
- Spring Concert
- Spring Pops /Finale Concert

Optional opportunities for additional participation will include:

- A Cappella Choir
- IHSA Solo/Ensemble Contests
- Madrigal Dinner Concert
- Spring Musical
- Festival Trips (destination to be determined)

Enrollment in the choir program offers a variety of performances and travel opportunities. Previous trips include:

- 2027 – New Orleans, LA
- 2024 – Nashville, TN
- 2018 – New York City, New York
- 2016 – Disney Land, Los Angeles
- 2014 – New York City, New York

PERFORMING ARTS DEPARTMENT

Dr. Melissa Gustafson-Hinds, Department Chairperson

FRESHMAN CONCERT BAND

2 Semesters (Full Year or Spring for MB) 1/2 credit

Open to all freshmen

Prerequisite: Instrumental performance experience, fall Concert Band or Marching Band enrollment in the current year

Freshmen band students not participating in Marching Band would enroll in Concert Band. Students participating in Marching Band in the fall, must enroll in Freshmen Concert Band in the Spring. All colorguard members who are incoming band members are required to enroll in Concert Band in the spring. Performances include four spring semester concerts as well as festivals and contests. Students may elect to participate in the Illinois High School Association Solo and Ensemble contest (March). Membership in the program allows for a variety of performance experiences and travel opportunities.

All members will be required to pass Music Requirements each quarter and must participate in playing exams. First chair members are required to participate in IHSA Solo and Ensemble Contests, and all members are encouraged to study privately.

CONCERT BAND

1 Semester (Fall) 1/2 credit

Open to all sophomores, juniors and seniors

Prerequisite: Instrumental performance experience, fall Concert Band or Marching Band enrollment in the current year.

Band students not participating in Marching Band would enroll in Concert Band. Students participating in Marching Band in the fall, must enroll in Concert Band in the Spring. Concert Band enrollment is leveled by audition. Those students who audition and place in Concert Band Wind Ensemble must enroll in Marching Band in the fall. All colorguard members who are incoming band members are required to enroll in Concert Band in the spring. Performances include four spring semester concerts as well as participation in festivals and contests. Students may elect to participate in the Illinois High School Association Solo and Ensemble contest (March). Membership in the program allows for a variety of performance experiences and travel opportunities.

All members will be required to pass Music Requirements each quarter and must participate in playing exams. First chair members are required to participate in IHSA Solo and Ensemble Contests, and all members are encouraged to study privately.

MARCHING BAND/COLOR GUARD

1 Semester (Fall)

1/2 credit

Open to all levels

Prerequisite: Must participate in summer parade, field band activities, and band camp.

Practices and parade appearances are scheduled throughout the summer. In the fall, the members perform at all home football games in addition to MANY show and parade competitions. This course is offered during the fall only. Travel opportunities for members have included:

2025 – Los Angeles, CA – Disneyland

2023 – Macy's Thanksgiving Day Parade – New York, NY

2021/2022 – Tournament of Roses Parade – Pasadena, CA

All rehearsals and performances, both during class and outside of the school day, are mandatory which include summer rehearsal and Band camp. All members are required to pass Music Requirements each quarter and must pass rehearsals and playing exams. Attendance at all performances is required and evaluated as part of the course grade. Members are highly encouraged to study privately and participate in ILMEA activities. All marching band students must be enrolled in Freshman Concert Band, Symphonic Band, Symphonic Winds, or Wind Ensemble during the spring semester. All colorguard members that are instrumentalists must also be enrolled in a spring concert band.

SPRING COLOR GUARD

1 Semester (Spring)

1/2 credit

Open to all levels

Prerequisite: Fall Marching Band Color Guard/Color Guard enrollment or Director recommendation

This is a performance ensemble class emphasizing the fundamentals of body and equipment movement through choreographed routines and drill design. This class will build upon skills learned first semester and be focusing more on the individual dance, technique, and performance throughout the winterguard season. The focus is the performance of the winterguard season.

SYMPHONIC BAND

1 Semester (Spring)

1/2 credit

Open to all sophomores, juniors and seniors

Prerequisite: Instrumental performance experience, fall Concert Band or Marching Band enrollment in the current year

This course is offered during the spring semester. Band students either enroll for a semester of Concert Winds (Smiley Campus) if they are not enrolled in Marching Band in the fall semester. All colorguard members who are band members are required to enroll in Symphonic Band or have previously auditioned for Wind Ensemble placements. Performances include four spring semester concerts as well as participation in the Illinois High School Association Organization contest.

PERFORMING ARTS DEPARTMENT

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Students may audition for the Illinois Music Educators Association District Festival (October) and elect to participate in the Illinois High School Association Solo and Ensemble contest (March). Membership in the program allows for a variety of performance experiences and travel opportunities.

All members will be required to pass Music Requirements each quarter and must participate in playing exams. First chair members are required to participate in IHSA Solo and Ensemble Contests, and all members are encouraged to study privately and participate in ILMEA activities.

SYMPHONIC WINDS

1 Semester (Spring) 1/2 credit

Open to all sophomores, juniors and seniors

Prerequisite: Instrumental performance experience, fall Concert Band or Marching Band enrollment in the current year, along with an audition.

This course is offered during the spring semester. Band students either enroll for a semester of Concert Winds (Smiley Campus) if they are not enrolled in Marching Band in the fall semester. Performances include four spring semester concerts as well as participation in the Illinois High School Association Organization contest. Students may audition for the Illinois Music Educators Association District Festival (October) and are required to participate in the Illinois High School Association Solo and Ensemble contest (March). Membership in the program allows for a variety of performance experiences and travel opportunities.

All members will be required to pass Music Requirements each quarter and must participate in playing exams. First chair members are required to participate in IHSA Solo and Ensemble Contests, and all members are encouraged to study privately and participate in ILMEA activities.

HONORS WIND ENSEMBLE

1 Semester (Spring) 1/2 credit

Open to all levels

Prerequisite: Blind audition (December of the previous school year), participation in Marching Band and music lessons

This course is offered during the spring semester only. Students wishing to participate in Wind Ensemble must register for Marching Band in the fall and must pass a qualifying audition.

Performances include four spring semester concerts as well as participation in the Illinois High School Association Organization contest, Illinois State Concert Band Festival, and Superstate Festival. Students are required to audition for the Illinois Music Educators Association District Festival (October) and participate in the Illinois High School Association Solo and Ensemble contest (March). Membership in the program allows for a variety of performance experiences and travel opportunities.

All members will be required to pass Music Requirements each quarter and must participate in playing exams. All members are required to study privately and participate in ILMEA and IHSA activities. Students will be assigned additional projects and given a variety of performance opportunities to fulfill the Honors credit.

BEGINNING GUITAR/MUSIC APPRECIATION

1 Semester (Fall) 1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: None

This course is open to sophomores, juniors, and seniors. The course will provide positive Music Appreciation experience through the development of beginning guitar performance skills. This course will provide a comprehensive study in notation of natural notes in first position, reading simple rhythms, straight right hand strumming techniques, tuning, music symbols, simple music forms, and reading from a lead sheet or score. This approach will allow students with little to no previous musical experience to experience music in its purest environment.

AP[®] MUSIC THEORY

1 Semester (Fall) 1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: Concurrent registration in Band or Choir, and instructor approval

AP[®] Music Theory is open to students in grades 10 to 12 who are concurrently enrolled in Band or Choir. The course meets during the fall semester and earns academic credit. The course content includes fundamental concepts, which constitute the traditional basis of music theory, beginning with sound production and ending with part writing, analysis and form, and music history. In addition, the student is introduced to the techniques involved in the process of taking melodic and rhythmic dictations, as well as a large variety of additional exercises to improve the individual's aural skills. All of the knowledge gained and skills developed are related to the outcomes listed in the Illinois Learning Standards. In accordance with the materials produced by the College Board, the advanced content for this course will be presented in a sequential manner. Sample AP[®] questions are presented throughout the course, including sight-singing exercise. In addition, the AP[®] term list provided as a reference will be used to make sure that all major concepts are covered throughout the term of this course.

PERFORMING ARTS DEPARTMENT

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JAZZ BAND

1 Semester – Early Bird (Spring) 1/2 credit

Open to sophomores, juniors and seniors

Prerequisite: Concurrent registration in Band or Choir, and instructor approval per audition

This course will provide advanced instruction in jazz related rhythms, tone, style, concepts, scales (chords), listening skills, and improvisation. Emphasis is on ensemble skills, style development, and sight reading. Various workbooks, videos and audio recordings would be utilized to create a formal study of jazz appreciation and listening skills. In addition, this course is designed to develop confidence in independent playing and the art of improvisation. There would be study of scales, chords, and combo playing. Performances include 2-3 concerts, including a variety of festival (contest) opportunities.

VOCAL JAZZ

1 Semester – Early Bird (Fall) 1/2 credit

Open to sophomores, juniors, and seniors

Prerequisite: Concurrent registration in Band or Choir, and instructor approval

This is a semester long course focusing on jazz vocal technique (tone, placement) & style, improvisation, mic technique, and good musicianship through performance. Repertoire includes but is not limited to swing, Latin jazz, bossa nova, and contemporary styles. This course includes foreign language singing, intermediate to advanced theory, and advanced sight-reading & rhythmic fluency. Voicings may range from SSAA to SSAATTBB, depending on enrollment. Rehearsal and performance times scheduled outside of the regular school day are mandatory for all enrolled students. The prerequisite for this course is completion of successful audition which evaluates rhythmic and melodic fluency, tonal skills, and improvisation. Required events are as follows:

During the semester, students will be participating in the following mandatory performances:

- Community Outreach Performances
- ILMEA Vocal Jazz District Festival (audition)
- Feeder Concerts
- Fall Concert
- Winter Concert

Opportunities for participation will include:

- Extra-Curricular Choirs
- February Frolics
- ILMEA All State Festival
- Spring Musical
- Festival Trips

SCIENCE DEPARTMENT

The O'Fallon Township High School science curriculum offers a variety of courses designed to meet the needs of all students. Students are required to complete two years of science by the end of their junior year. The two required years of science must include one Life science course and one Physical Science course. After meeting this requirement, students are encouraged to take additional science courses.

Many OTHS science courses have prerequisites. Consult the course descriptions for prerequisites and descriptions for all science courses.

FIRST-YEAR SCIENCE COURSES

Life Science Courses: Biology 1, Honors Biology 1, Integrated Life Science

SECOND-YEAR SCIENCE COURSES

Life Science Courses: Biology 1, Integrated Life Science

Physical Science Courses: Physical/Earth Science, Geology 1, Chemistry 1, Honors Chemistry 1, Physics 1

ADDITIONAL SCIENCE COURSES

(These courses may be taken after meeting the two-year science requirement, assuming other prerequisites are met.)

Life Science Courses:

Biology 1
Integrated Life Science
Environmental Science
Honors Human Anatomy & Physiology
AP[®] Biology

Physical Science Courses:

Introduction to Astronomy (1 semester only)
Forensics (1 semester only)
Physical/Earth Science
Geology
Chemistry 1
Honors Chemistry 1
Chemistry 2
AP[®] Chemistry
Physics 1
Physics 2
AP[®] Physics 1
AP[®] Physics 2

SCIENCE DEPARTMENT

Doug Mennerick, Department Chairperson

PHYSICAL SCIENCE COURSE OFFERINGS

PHYSICAL/EARTH SCIENCE

NCAA

Full Year (Physical) 1/2 credit per semester

Open to sophomores, juniors, seniors

General

Prerequisite: None

Physical/Earth Science is a course designed to give introductory students an understanding of basic Physical Science concepts. The topics of motion, energy and matter will be taught and reinforced by analyzing the interaction of these concepts with Earth Science. The Earth Science concepts of planetary systems, weather and physical processes will be related to current events and information along with the relationship humans have with the environment. Lab work will be inquiry based and used to reinforce the concepts presented in class. This framework will create a comprehensive understanding of and appreciation for the physical workings of the Earth.

GEOLOGY 1

NCAA

Full Year (Physical) 1/2 credit per semester

Open to sophomores, juniors and seniors

General

Prerequisite: Successful completion of a first-year life science course

Geology 1 is designed for average science students who have an interest in the earth and earth processes. The course will focus on four general areas of study: Earth Materials, Interpretation of the Earth's Surface, Physical Geology, and Earth's History. The course has been designed to be a hands-on, activity-centered course with the teacher supplying background information. During the course, the students will use various techniques (specimen study, maps, in-class activities, etc.) to reinforce information about geologic principles.

INTRODUCTION TO ASTRONOMY

NCAA

1 Semester

1/2 credit

Open to juniors and seniors

General

Prerequisite: Successful completion of the two-year Science graduation requirement AND successful completion of two years of math coursework.

This course surveys in one semester the history of astronomy, the nature of planetary systems (particularly our own Solar System), as well as the nature and evolution of stars, galaxies, and the Universe. Big ideas/concepts covered in this course include:

- *Why does the Moon have phases?*
- *Why does the Earth have seasons?*
- *Why did ancient people believe the Earth is not moving? Why are there different kinds of planets in our Solar System?*
- *How do stars shine?*
- *How do stars evolve and die?*

- *What are black holes?*
- *How do we know our Universe is expanding?*
- *Why is the sky dark at night?*
- *What is the nature of "dark matter" and "dark energy"?*
- *Is there life elsewhere in the Universe?*

FORENSICS

NCAA

1 Semester

1/2 credit

Open to juniors and seniors

General

Prerequisite: Successful completion of the two-year Science graduation requirement.

This course surveys in one semester the science of crime scene forensics. Concepts in biological sciences and physical sciences will be integrated into the study of Forensic Science. Big ideas/concepts covered in this course include:

- *Introduction – history, evidence, crime scenes, etc.*
- *Fingerprints*
- *Hairs and Fibers*
- *Questioned Docs*
- *Blood and DNA*
- *Processing Crime Scenes*

CHEMISTRY 1

NCAA

Full Year (Physical)

1/2 credit per semester

Open to sophomores, juniors and seniors

General

Prerequisite: Successful completion of a first-year life science course AND completion of Advanced Algebra 1 with a grade of "C" or better or Honors Algebra 1 with a grade of "C" or better.

Chemistry 1 is a one-year course dealing with the study of matter, its forms, and changes. It is a highly-recommended college preparatory course. The Chemistry 1 curriculum is structured to enhance students' problem-solving skills. Areas covered include matter, atomic structures, equations, mass relationships, gas laws, solution chemistry and qualitative analysis. A significant amount of class time will be spent performing laboratory activities designed to reinforce these concepts. These activities are also designed to improve critical thinking and science reasoning skills. A strong mathematics background is critical to student success in this course.

SCIENCE DEPARTMENT

Doug Mennerick, Department Chairperson

HONORS CHEMISTRY 1

NCAA

Full Year (Physical) 1/2 credit per semester
Open to sophomores, juniors and seniors

Honors

Prerequisite: Successful completion of a first-year life science course AND Honors Algebra 1 or Honors Geometry with a grade of "B" or better

Honors Chemistry 1 is a first-year chemistry course designed to prepare students who plan on taking AP Chemistry. Honors Chemistry 1 encompasses all areas of

HONORS CHEMISTRY...CONT'D

study and laboratory work as Chemistry 1, but with a much more accelerated level of difficulty and pace. Expanded areas of study including acid-base equilibria and gas laws require the student to have a much greater depth in problem solving ability and higher mathematical skills. Additional areas covered include introduction to nuclear chemistry, organic chemistry, and reaction kinetics.

CHEMISTRY 2

NCAA

Full Year (Physical) 1/2 credit per semester
Open to juniors and seniors

Enriched

Prerequisite: Completion of Chemistry 1 with a grade of "C" or better OR Chemistry 1 teacher consent

Chemistry 2 is designed for students who have successfully completed Chemistry 1. It is a continuation of Chemistry 1 with an emphasis on the following concepts: solution chemistry, chemical kinetics, chemical equilibrium, acid base chemistry, gas laws, nuclear chemistry, thermochemistry, organic chemistry, and qualitative analysis. Active learning strategies will be employed throughout the course. Inquiry-based laboratory activities will reinforce all topics covered. Students will be introduced to APA-formatting for research papers. Practical applications of chemistry will be discussed in relationship to careers in chemistry and other relevant topics.

AP[®] CHEMISTRY

NCAA

Full Year (Physical) 1/2 credit per semester

SLU Dual Credit Course

Open to juniors and seniors

Honors

Prerequisite: Completion of Honors Chemistry 1 with a grade of "B" or better OR Chemistry 1 with a grade of "A" and Chemistry 1 teacher consent

AP[®] Chemistry is designed to be the equivalent of the general chemistry course usually taken during the first year of college. For most students, the course enables them to undertake, as a freshman, second year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. The course is structured around the six big ideas articulated in the AP[®] Chemistry curriculum framework provided by the College Board. They are:

Big Idea 1: Structure of matter

Big Idea 2: Properties of matter—characteristics, states, and forces of attraction

Big Idea 3: Chemical reactions

Big Idea 4: Rates of chemical reactions

Big Idea 5: Thermodynamics

Big Idea 6: Equilibrium

Special emphasis will be placed on the seven science practices, which capture important aspects of the work scientists engage in, with learning objectives that combine content with inquiry and reasoning skills. AP[®] Chemistry is open to all students that have completed a year of chemistry who wish to take part in a rigorous and academically challenging course.

PHYSICS 1

NCAA

Full Year (Physical) 1/2 credit per semester
Open to sophomores, juniors and seniors

Enriched

Prerequisite: Completion of or concurrent enrollment in Advanced Algebra 2 or Honors Algebra 2 AND successful completion of a first-year life science course

Physics 1 is a two-semester course exploring the workings of the physical universe. Physics 1 is a highly beneficial college preparatory course. This course is designed to prepare students who will be taking physics in college. However, due to the incorporation of higher-level thinking skills, physics will be a benefit to any student planning to attend college. Topics covered include vectors, motion, mechanics, thermodynamics, electrostatics, electric circuits, and magnetism. Labs and projects constitute a significant portion of the class. Students will be introduced to a variety of scientific equipment and tools. Successful completion of the first semester is required to continue to the second semester.

AP[®] PHYSICS 1

NCAA

Full Year (Physical) 1/2 credit per semester
Open to juniors and seniors

Honors

Prerequisite: Completion of or concurrent enrollment in Advanced Pre-Calculus with Trigonometry or AP[®] Pre-Calculus OR concurrent enrollment in Honors Algebra 2 AND physics instructor consent

AP[®] Physics 1 is a two-semester introductory college-level physics course in which students will explore science practices as they cultivate an enduring understanding of physics and the fundamental physical universe. This course is designed for students with a strong math background and an interest in pursuing a career in a science, engineering, or technology field. Topics covered include Kinematics, dynamics: Newton's Laws, circular motion and gravitation, Simple harmonic motion, impulse and momentum, work and energy, thermal physics, electrostatics, DC Circuits, and mechanical waves/sound.

inquiry based labs and projects will constitute a significant portion of the class. Through inquiry-based learning .

PHYSICS 2

NCAA

Full-Year (Physical) 1/2 credit per semester

Open to juniors and seniors

Enriched

Prerequisite: Completion of AP[®] Physics 1 or Physics 1 with a grade of "C" or better

Physics 2 is a two-semester course that continues the course of study began in Physics 1. It is a highly beneficial college preparatory course and is designed for the student with an interest in math, engineering and the physical sciences. Topics include: engineering statics, fluids, harmonic motion, waves, sound and music, gravitation and astronomy, optics, mechanics, thermodynamics, electrostatics, nuclear physics, and solid-state electronics. Labs and projects constitute a significant portion of the class. Students will be introduced to a variety of scientific equipment and tools.

AP[®] PHYSICS 2

NCAA

Full Year (Physical) 1/2 credit per semester

Open to juniors and seniors

Honors

Prerequisite: Completion of AP[®] Physics 1 OR Physics 1 with a grade of "A" and Physics instructor consent.

AP[®] Physics 2 is a two semester introductory college-level physics course which continues the course of study began in AP[®] Physics 1. Students will develop analytical and reasoning skills which to support future advanced coursework in the sciences. This course is designed for students with a strong math background and an interest in pursuing a career in a science, engineering, or technology field. Topics covered include: Thermodynamics, Fluid statics and dynamics, Electrostatics: electric force, electric field and electric potential, DC Circuits and RC Circuits, Magnetism and Induction, Geometric and physical optics, and Quantum physics: atomic and nuclear physics. Inquiry based labs and projects will constitute a significant portion of the class. Through inquiry based learning, students will develop critical thinking and reasoning skills, as defined by the AP[®] Science Practices.

SCIENCE DEPARTMENT

Doug Mennerick, Department Chairperson

LIFE SCIENCE COURSE OFFERINGS

BIOLOGY 1

NCAA

Full Year (Life)

1/2 credit per semester

Open to all levels

General

Prerequisite: Completion of or enrollment in a math course above Introduction to Algebra

Biology 1 is designed to provide students with introductory knowledge of fundamental biological principles and a general understanding of life. The natural progression from cells to simple organisms, to more complex organisms, and ultimately to man will be explored. Students will learn about the interrelationships of living things and their environmental adaptations. Students will also gain understanding of the significance and importance of biological concepts to human welfare. Students will complete laboratory exercises that reinforce the lecture material and stimulate their interests in biology and other sciences. Dissections are an integral and required component of this course.

HONORS BIOLOGY 1

NCAA

Full Year (Life)

1/2 credit per semester

Open to freshmen

Honors

Prerequisite: Invitation only based on IOWA or IAR science assesment and teacher recommendation AND concurrent enrollment in Honors Algebra 1

Honors Biology I is designed to provide advanced students with a thorough understanding of biological principles and a comprehensive understanding of life. The course will cover a range of topics, including cellular structure and genetics, cellular respiration and photosynthesis, biochemistry, plant and animal classifications, evolution, ecology, and anatomy of vertebrates and invertebrates. This course utilizes discussion, laboratory exercises, and hands-on activities, including dissections, all designed to stimulate interest and appreciation for biology and its importance to man.

AP[®] BIOLOGY

NCAA

Full Year (Life)

1/2 credit per semester

SLU Dual Credit Course

Open to juniors and seniors

Honors

Prerequisite: Completion of Chemistry 1 with a grade of "C" or better OR Honors Chemistry 1 with a grade of "C" or better AND Honors Biology 1 with a grade of "B" or better or Biology 1 with a grade of "A"

AP[®] Biology is a two-semester introductory college-level biology course for the above average student. The course is designed to allow students to cultivate their understanding of biology through a variety of means

including direct instruction, case studies, and inquiry-based laboratory investigations, including dissections. Topics covered include evolution, ecology, cellular processes — energy and communication, genetics, information transfer, and systems interactions. Students will develop the ability to ask questions, make observations and predictions, design experiments, analyze data, and construct arguments in a collaborative setting, where they direct and monitor their progress. Focus is placed on reading technical literature, scientific writing, improving study skills, and development of critical thinking. The course provides the necessary background for success on the Advanced Placement Biology Examination and SAT science subject area test.

HONORS HUMAN ANATOMY & PHYSIOLOGY

NCAA

Full Year (Life)

1/2 credit per semester

Open to juniors and seniors

Enriched

Prerequisite: Completion of Honors Biology 1 with a grade of "C" or better OR Biology 1 with a grade of "B" or better OR Biology 1 teacher recommendation

Honors Human Anatomy & Physiology is an intensive college-preparatory course for the ambitious student interested in the medical sciences. This course will provide the average to above-average student with the vocabulary, understanding of human body functions, and critical thinking skills required in human anatomy & physiology. The laboratory work and case studies involving collaboration are designed to encourage problem solving and to reinforce the concepts presented in class. This one-year course moves through the human body system by system, focusing on both normal and abnormal functioning.

INTEGRATED LIFE SCIENCE

NCAA

Full Year (Life)

1/2 credit per semester

Open to freshman, sophomores, juniors and seniors.

Students who have successfully completed Honors Human Anatomy & Physiology are not eligible for this course.

Prerequisite: None

General

Integrated Life Science is a hands-on, laboratory-based course designed to explore the fundamental principles of the life sciences. It is designed for students seeking a life science course with less in-depth analysis of topics than Biology 1. Students will develop an understanding of the basic life science topics, including cellular structure and function, genetics, and classification. In addition, the course will explore and integrate the more broad-based topics in the life sciences, including human anatomy/physiology and health, as well as environmental science and ecology concepts. Integrated Life Science students will also continue to develop critical thinking and laboratory skills necessary for success in future science

SCIENCE DEPARTMENT

Doug Mennerick, Department Chairperson

courses as well as in college coursework. Students will complete laboratory exercises that reinforce the lecture material and stimulate their interests in biology and other sciences.

ENVIRONMENTAL SCIENCE



Full Year (Life) 1/2 credit per semester

Open to juniors and seniors

Prerequisite: Successful completion of a first-year physical science course AND successful completion of a first-year math class.

General

Environmental Science is designed to introduce the student to the interrelationship of man and his natural environment. The course provides the student with a background study of Ecology, renewable vs. non-renewable resources, biomes, field ecology, environmental issues, and interactions between living and non-living units of ecosystems. Calculation, evaluation, and use of basic statistics, and proper use of the scientific method are emphasized throughout the course. Semester one topics include man's environmental historical impacts, making and evaluating environmental decisions, plate tectonics, global warming, water cycle, evolution by natural selection, biodiversity, mineral cycling, energy transfer and food webs, succession, and land biomes. Semester two topics include aquatic biomes, population ecology, human population trends, maintaining biodiversity/extinction trends, water management/ pollution, air pollution, ozone depletion, land use/land management, sustainable agriculture, mining and nonrenewable resources, renewable resources as alternatives, landfill and hazardous waste, human health concerns and biohazards, and environmental politics.

LAB ASSISTANT AND INDIVIDUALIZED INSTRUCTION

SCIENCE LABORATORY ASSISTANT

1 Semester 1/4 credit per semester

2 Semester Limit – Pass/Fail Option Only

Open to juniors and seniors

Prerequisite: Successful completion of advanced-level course works in the field of science in which the student

will assist AND written consent from the instructor who they will assist

No more than two laboratory assistants will be assigned to any science teacher during a given period. Student laboratory assistants will be required to aid the teacher in preparation for instruction in the classroom and to assist the teacher in the preparation, organization, maintenance, distribution, and storage of laboratory materials and equipment.

Note: In order for a student to be a Lab Assistant, it must be their sixth class.

INDEPENDENT RESEARCH STUDY

1 Semester



1/2 credit per semester

Open to juniors and seniors

2 Semester Limit

Prerequisite: Completion of advanced-level course work in the field of science in which the student will work AND written consent from the instructor who will oversee the work and assign a grade

No more than one individualized instruction student will be assigned to any science instructor during a given semester. Students will be required to select a topic for scientific study and research. Laboratory work **MUST** be a component of the study. The assigned science instructor must approve the topic and project for research during the first four weeks of the semester. A written contract, specifying work to be completed and criteria for grading, report to the instructor summarizing conclusions reached through their research. After grading, a copy of this report will be placed on file with the department chairperson and will be available for perusal by any member of the science department

SOCIAL STUDIES DEPARTMENT

Graduation requirements for Social Studies:

In accordance with the Illinois School Code (105 ILCS 5/27-22), students are required to complete five semesters of Social Studies coursework to meet graduation requirements. This must include:

- **One semester of Civics** (typically taken during the freshman year) **or one semester of American Government** (taken during the sophomore, junior, or senior year), and
- **Two semesters of United States History** (taken during the sophomore, junior, or senior year).

These courses fulfill the state-mandated requirements for instruction in U.S. History, Government, the U.S. and Illinois Constitutions, and civic responsibility.

Students who have previously completed one semester of Area Studies or Western Civilization may enroll in these courses again in subsequent years and earn additional credit, as each course follows a three-year rotating curriculum with different content studied each year.

Freshman Level

Civics
Early American History
Social Issues
World Geography

Sophomore Level

American Civil War
American Government
AP[®] European History
Area Studies*
International Relations
The American Legal System
United States History A and B
Western Civilization*

Junior Level

American Civil War
American Government
AP[®] European History
AP[®] Macroeconomics
AP[®] United States History A and B
Area Studies*
Diversity & Growth in America

Junior Level (Cont.)

International Relations
Sociology
The American Legal System
The Sixties in America
United States History A and B
Western Civilization*

Senior Level

American Civil War
American Government
AP[®] European History
AP[®] Macroeconomics
AP[®] Psychology
AP[®] United States History A and/or B
Area Studies*
Diversity & Growth in America
Honor Applied Psychology
International Relations
Psychology
Sociology
The American Legal System
The Sixties in America
United States History A and B
Western Civilization*

SOCIAL STUDIES DEPARTMENT

David Causey, Department Chairperson

FRESHMAN COURSE OFFERINGS

CIVICS

1 Semester

Open to freshmen

Prerequisite: None

NCAA
1/2 credit

In Civics, students will learn how government works and why it matters. The course focuses on the power, structure, and decision-making processes of local, state, and national governments. Students will explore the rights and freedoms guaranteed by the U.S. Constitution—as well as the responsibilities and limits that come with them. Through engaging simulations, class discussions, and hands-on activities, students will experience what it's like to run a political campaign, create laws, and participate in court proceedings.

Either **Civics** (taken as a freshman) or **American Government** (taken as a sophomore, junior, or senior) fulfills the government graduation requirement.

To meet Illinois graduation requirements, students must pass this course to demonstrate comprehension of the **U.S. Constitution** and successfully complete the **Illinois Constitution and Government test**.

EARLY AMERICAN HISTORY

1 Semester

Open to freshmen

Prerequisite: None

NCAA
1/2 credit

In Early American History, students will explore what made America, *America!* The course begins with the first peoples and settlements in the Americas and continues through the Civil War. Along the way, students will learn about the challenges, innovations, and triumphs that shaped the nation. Topics include the founding of America, the growth of industry, westward expansion, reform movements, and the conflict that divided and ultimately reunited the country.

Class activities may include interactive projects, map studies, simulations, and document-based questions (DBQs), along with quizzes and tests. Students will strengthen their understanding of how America's early struggles and successes continue to influence our lives today. This course provides an excellent foundation and serves as strong preparation for the required U.S. History A course.

SOCIAL ISSUES

1 Semester

Open to freshmen

Prerequisite: None

NCAA
1/2 credit

In Social Issues, students will explore major topics shaping our world today. The course encourages students to think critically about how historic, cultural, economic, and geographic factors influence local, national, and global challenges. Students will research, discuss, and analyze current events to better understand multiple perspectives and the impact of these issues on society. Daily news articles, online media, political cartoons, and newscasts will be used to spark discussion and deepen understanding. Students will also collaborate through group activities, presentations, and projects that promote problem-solving and informed action. By the end of the course, students will be more aware of current events and better equipped to engage thoughtfully in the world around them.

WORLD GEOGRAPHY

1 Semester

Open to freshmen

Prerequisite: None

NCAA
1/2 credit

World Geography will cover both physical and human geography concepts of the world. Different geographic themes will be utilized to enhance student understanding of the United States and other regions of the world. This course will create an understanding of the increased globalization of the world that will help students recognize the interdependence of the United States to other world regions and better prepare students for the other academic offerings of the social studies department. Students will learn about world cultures, regions, history, and study maps to learn about landforms, climates, resources, and topography.

SOCIAL STUDIES DEPARTMENT

David Causey, Department Chairperson

SOPHOMORE, JUNIOR, SENIOR COURSE OFFERINGS

AMERICAN CIVIL WAR

NCAA

1 Semester (Fall)

½ credit

Open to Sophomores, Juniors, and Seniors

Prerequisite: Completion of Early American History or a passing grade in U.S. History A or AP U.S. History A.

The American Civil War was one of the most significant and transformative events in United States history. This course provides an in-depth examination of the causes, major events, people, and consequences of the Civil War era, beginning with the growing sectional conflict between North and South and continuing through Reconstruction. Students will explore the political and moral debate over slavery, states' rights and the role of the federal government, the Election of 1860, major battles and military strategies, the experiences of soldiers and civilians, emancipation, and the leadership of figures such as Abraham Lincoln, Ulysses S. Grant, and Robert E. Lee. The course will also examine Reconstruction, the expansion of constitutional rights after the war, and the continuing influence of the Civil War on American society. Through primary sources, historical readings, maps, debates, research, and document-based analysis, students will examine different perspectives on the conflict and consider how the Civil War continues to influence debates over race, citizenship, federal power, historical memory, and American identity today.

AMERICAN GOVERNMENT

NCAA

1 Semester

1/2 credit

Open to Sophomores, Juniors and Seniors (Priority will be given to Seniors who need to meet graduation requirements).

Prerequisite: None

American Government provides students with the opportunity to explore the actions, purposes, structures, and challenges of government at the international, national, state, and local levels. The course emphasizes the relationship between government and individual freedom, as well as the role and responsibilities of citizens in influencing governmental decisions.

Students will examine issues related to the United States Constitution and the Illinois Constitution through simulations, discussions, and analysis of current events. Active engagement with current events and the ability to discuss them in class are key components of the course.

This course is required for all students who did not take Civics as freshmen and fulfills the Illinois Public Law 195 graduation requirement. To meet graduation requirements, students must pass this course.

AP® EUROPEAN HISTORY A & B

NCAA

Full Year

1/2 credit per semester

Open to Sophomores, Juniors and Seniors

Prerequisite: Open to sophomores who have completed Honors World Literature (or Honors English Equivalent) with a B- or higher or must receive recommendation from current English teacher.

Open to juniors and seniors who have achieved a GPA of 3.5 or better.

AP European History is designed to be the equivalent of a two-semester introductory college-level European history course. Students investigate key events, individuals, developments, and processes from approximately 1450 to the present.

Throughout the course, students develop and apply historical thinking skills used by professional historians, including the analysis of primary and secondary sources, the development of historical arguments, and the use of reasoning to identify patterns of comparison, causation, continuity, and change over time.

The course is organized around seven overarching themes that encourage students to make connections across historical periods and geographic regions. These themes include:

- Interaction of Europe and the world
- Economic and commercial development
- Cultural and intellectual developments
- States and other institutions of power
- Social organization and development
- National and European identity
- Technological and scientific innovations

AREA STUDIES

NCAA

1 Semester (Fall)

1/2 credit

Open to Sophomores, Juniors, and Seniors

Prerequisite: None

Area Studies focuses on specific world regions and their interrelationships with the global community. Each academic year highlights a different region:

- **2026–2027:** Middle East and North Africa
- **2027–2028:** Russia, Eurasian States, and Eastern Europe
- **2028–2029:** Latin America, China, and Japan

The course begins with a general overview of key global characteristics, followed by an in-depth examination of the selected regions. Emphasis is placed on geography, population, economics, historical development, and

SOCIAL STUDIES DEPARTMENT

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cultural influences. Students engage in activities such as maintaining notebooks, developing national profiles, reviewing biographies, and analyzing case studies related to the areas under study.

Students who have already completed one semester of Area Studies may elect to enroll in this course again in subsequent years and receive separate credit.

AP® MACROECONOMICS

NCAA

1 Semester (Spring)

1/2 credit

Open to Sophomores, Juniors and Seniors

Prerequisite: Sophomores who have completed Advanced/Honors Math with a B- or higher. Juniors or Seniors must have achieved a cumulative GPA of 3.0 or better.

Interested in understanding how the economy really works? In AP Macroeconomics, you'll learn about big-picture topics like inflation, unemployment, government spending, and how money and trade impact our world. You'll connect what you learn to real-life events and gain skills that are useful for college, careers, and everyday decision-making. AP Macroeconomics provides students with a thorough understanding of the principles of economics that apply to an economic system as a whole. The course emphasizes the study of national income, price-level determination, economic performance measures, the financial sector, stabilization policies, economic growth, and international economics.

Instruction focuses on applying economic theories to real-world situations to help students understand current economic conditions and global interdependence. A variety of teaching and learning methods are used to create an engaging and interactive classroom environment that deepens students' appreciation for the study of economics. This course is designed to prepare students for college-level work and the AP® Macroeconomics Exam, administered in May by the College Board. Students are responsible for the additional exam fee but are not required to take the AP® exam as part of the course.

DIVERSITY & GROWTH IN AMERICA

NCAA

1 Semester

1/2 credit

Open to juniors and seniors

Prerequisite: Completion of or concurrent enrollment in U.S. History A or B, or AP U.S. History A or B.

Diversity is a defining characteristic of American society. Throughout U.S. history, marginalized and underrepresented groups—defined by race, gender, religion, culture, and socioeconomic status—have worked to overcome social, political, and economic barriers in pursuit of equality and justice.

This course explores the experiences, challenges, and contributions of various groups, including Asian Americans, Black Americans, Hispanic Americans, Native

Americans, LGBTQ+ individuals, and women. Students will examine both historical and contemporary perspectives to better understand how these groups have shaped, and continue to influence, the ongoing development of American society. Course content aligns with Illinois Social Science standards and emphasizes the continuing pursuit of the American ideal of equality.

INTERNATIONAL RELATIONS

NCAA

1 Semester (Fall)

1/2 credit

Open to Sophomores, Juniors and Seniors

Prerequisite: None

If you like learning about world events, global conflicts, and how countries work together (or sometimes don't), you'll love this class! In International Relations, you'll explore current issues among nations, U.S. foreign policy, and the role of organizations like the United Nations in addressing worldwide challenges.

International Relations is designed for students interested in understanding global issues and the complex relationships among nations. The course examines current international disputes, controversies, and challenges, as well as the historical events and U.S. foreign policy decisions that shape them. Students will study regions such as Europe, Russia, the Middle East, Latin America, Asia, and Africa while analyzing topics including diplomacy, global conflict, cooperation, and international organizations. Emphasis is placed on understanding the structure, function, and limitations of the United Nations and global issues—such as environmental concerns—that affect all nations and their citizens.

PSYCHOLOGY

NCAA

1 Semester

1/2 credit

SWIC Dual Credit Course

Open to seniors

Prerequisite: None

If you like learning about why people think, feel, and act the way they do, you'll love this class! Psychology explores how the mind works and how behavior is influenced by factors like learning, personality, and social interaction. You'll study real-world examples, conduct simple experiments, and discover insights that help you better understand yourself and others.

Psychology introduces students to the scientific study of human behavior and mental processes. Major topics include learning, intelligence, development, personality, mental health, and social interaction. The course combines theoretical and practical approaches, incorporating experimentation and observation to help students apply psychological concepts to real-life situations.

Students are encouraged to explore areas of personal interest within the field. Those seeking college credit may elect to

SOCIAL STUDIES DEPARTMENT

David Causey, Department Chairperson

enroll in this course through the **Southwestern Illinois College Dual Credit Program** (3 semester hours). Students may not receive credit for both **Psychology** and **AP® Psychology**.

AP® PSYCHOLOGY

1 Semester

NCAA

1/2 credit

SWIC Dual Credit Course

Open to seniors

Prerequisite: Students must have achieved a cumulative GPA of 3.0 or better.

If you're fascinated by how the human mind works and enjoy exploring why people think, feel, and behave the way they do, you'll love this class! AP® Psychology introduces students to the systematic and scientific study of human behavior and mental processes.

AP® Psychology is designed for students seeking a more rigorous, college-level experience. While the regular Psychology course provides an introduction to the study of behavior, AP® Psychology offers a deeper exploration of the scientific foundations, major theories, and research methods that define the field.

Students explore and apply psychological theories, key concepts, and major studies across topics such as the biological bases of behavior, sensation and perception, learning and cognition, motivation, development, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods—including ethical considerations—as they use the scientific method, evaluate evidence, and communicate ideas effectively.

Because this is a college-level course, students are expected to analyze and interpret complex readings and communicate at a college level, both in writing and discussion. This course prepares students for the **AP® Psychology Exam**, administered in May by the College Board, for potential college credit. Taking the AP® exam requires an additional fee paid to the College Board but is **not required** for course participation. Students may also choose to earn **three (3) semester hours of college credit** through the **Southwestern Illinois College Dual Credit Program**. Students may not receive credit for both **Psychology** and **AP® Psychology**.

HONORS APPLIED PSYCHOLOGY

1 Semester (Spring)

NCAA

1/2 credit

SWIC Dual Credit Course

Open to seniors

Prerequisite: Completion of Psychology or AP Psychology with a grade of B- or higher

Honors Applied Psychology is an advanced, college-level course designed for students who have successfully completed an introductory psychology course and want to explore how psychological principles are applied in professional and real-world settings. Building upon concepts introduced in psychology, students will examine

how the study of human behavior is used across a variety of careers and fields.

Course topics include biological and cognitive processes, human development and personality, social and health psychology, psychological testing, research methods, and statistics. Students will also explore specialized areas of psychology, including clinical and counseling psychology, forensic psychology, industrial-organizational psychology, sport psychology, neuroscience, education, medicine, and law.

Students will engage in college-level reading, discussion, research, and written analysis while examining how psychological research and theory can be applied to individuals, organizations, communities, and professional careers. Students who meet Southwest Illinois College requirements may earn three hours of college credit through SWIC.

SOCIOLOGY

1 Semester

1/2 credit

NCAA

Open to juniors and seniors

Prerequisite: None

If you're curious about how people interact, why societies function the way they do, and how culture shapes behavior, you'll enjoy this class! Sociology introduces students to the study of human social behavior and the structures that influence our everyday lives.

The course begins by defining sociology and exploring its major perspectives, including functionalism and conflict theory. Students will examine the evolution of culture and society, the role of social institutions, and the ways social change impacts individuals and communities. Group projects, discussions, and role-playing activities help students apply sociological concepts to real-world situations.

Students will also analyze how factors such as culture, class, race, gender, and social institutions shape behavior, relationships, and social change. Sociology builds skills in observation, analysis, and critical thinking—essential for future studies in psychology, social work, education, law, or public service.

THE AMERICAN LEGAL SYSTEM

1 Semester

1/2 credit

NCAA

Open to Sophomores, Juniors and Seniors

Prerequisite: None

If you're interested in law, government, or how justice works in America, this course is for you! Students will study constitutional law as well as contemporary issues related to criminal law, civil law, and the criminal justice process. The course examines concepts of power, authority, liberty, and equality as outlined in the U.S. Constitution—the supreme law of the land.

Students will also learn about the structure and function of the American court system, with special emphasis on the role of the U.S. Supreme Court in interpreting the

SOCIAL STUDIES DEPARTMENT

David Causey, Department Chairperson

Constitution and shaping the nation through landmark decisions.

Note: This course does *not* fulfill the United States Constitution graduation requirement mandated by state law. That requirement can only be met through successful completion of **Civics** or **American Government**.

THE SIXTIES IN AMERICA

NCAA 1

Semester (Spring)

1/2 credit

Open to Juniors and Seniors

Prerequisite: Passing grade in United States History B

If you enjoy history, culture, and exploring social change, you'll find this class fascinating! *The Sixties in America* examines one of the most turbulent and transformative decades in U.S. history through political, economic, military, and cultural perspectives.

The course is structured around thematic units that explore key movements and events shaping the decade. Students will engage in in-depth study, research, and analysis of primary sources and historical materials related to:

- The Civil Rights and Black Power movements
- The Vietnam War and its role in the Cold War
- The political and social divide between conservatives and liberals
- The rise of cultural and social movements such as feminism, environmentalism, and multiculturalism
- The influence of music, art, and literature throughout the decade

This course encourages students to think critically about how the 1960s transformed American identity and continue to shape society today.

UNITED STATES HISTORY A AND B

NCAA

Full Year

1/2 credit per semester

Open to Sophomores, Juniors and Seniors

Prerequisite:

- *Sophomores: Must have successfully completed at least one ninth-grade social studies course with a grade of B or higher and have a recommendation from their social studies teacher(s).*
- *All Students: Must complete United States History A before enrolling in United States History B.*

United States History A and B are required survey courses that examine major themes, events, and developments in American history.

- **U.S. History A** covers the late 19th century through the Great Depression and New Deal (1930s).
- **U.S. History B** covers U.S. history from World War II to the present.

Both courses emphasize the social, political, military, and economic achievements that have shaped the United States. Students will analyze key historical events, explore primary

and secondary sources, and develop an understanding of how the past continues to influence the modern world. Course requirements may include map work, tests, quizzes, projects, and written assignments.

AP® UNITED STATES HISTORY A AND B

NCAA

Full Year

1/2 credit per semester

SWIC Dual Credit Course

Open to Juniors and Seniors

Prerequisite:

- *Students must have a cumulative GPA of 3.5 or higher.*
- *Students enrolling in AP® United States History to meet the graduation requirement must complete AP® United States History A before enrolling in AP® United States History B.*
- *For elective credit, students may enroll in this course during either the fall and/or spring semesters as an elective offering for dual credit or AP® exam preparation, provided they have completed both United States History A and B with a final grade of A.*

If you're interested in exploring how the people, events, and ideas of the past shaped the United States, this course offers a deep and challenging study of American history. AP® United States History (APUSH) is designed to be the equivalent of a two-semester introductory college history course. Students investigate major events, individuals, developments, and processes across nine historical periods from approximately 1491 to the present.

Throughout the course, students develop and apply the skills used by historians, including analyzing primary and secondary sources, developing historical arguments, and using reasoning about contextualization, causation, comparison, and continuity and change over time.

The course is organized around seven recurring themes that connect historical developments across time and place:

- American and national identity
- Migration and settlement
- Politics and power
- Work, exchange, and technology
- America in the world
- Geography and the environment
- Culture and society

Students should be prepared to read and interpret a college-level textbook and to communicate their understanding both in writing and discussion at a college level.

SOCIAL STUDIES DEPARTMENT

David Causey, Department Chairperson

WESTERN CIVILIZATION

1 Semester (Spring)

Open to Sophomores, Juniors and Seniors

Prerequisite: None



1/2 credit

If you're fascinated by ancient civilizations, epic empires, and the people and ideas that shaped today's world, you'll love this class! Western Civilization traces the political, social, cultural, and intellectual development of the Western world from prehistory through the modern era. Each academic year focuses on a different historical period:

2027–2028: Western Civilization B — The Middle Ages and the Renaissance (500–1830 A.D.)

This course begins in the Middle Ages—a time of castles, knights, and crusades—when religion and power dominated life in Europe. Students will examine how the feudal system structured society, how the Catholic Church influenced every aspect of life, and how the Crusades, the plague, and political upheaval reshaped Europe. Students will explore what life was like for nobles, peasants, and clergy through interactive learning experiences such as simulations, primary source analysis, and creative projects.

The course then transitions into the Renaissance and the Age of Exploration, highlighting how art, science, and discovery redefined Europe. Students will study key figures such as Michelangelo, Martin Luther, Henry VIII, and Christopher Columbus, exploring how their actions transformed religion, politics, and culture. The course concludes with the Enlightenment and the revolutions that reshaped Europe—including the French Revolution and the rise of Napoleon. Students will discover how this period laid the foundation for modern democracy, human rights, and global exploration.

2028–2029: Western Civilization C — Revolution, Imperialism, and World War (1830–1945)

This course examines the forces that shaped modern Europe from the 19th century through the end of World War II. Students will explore the Industrial Revolution, the rise of nationalism and imperialism, and the social and political movements that redefined Europe's power structure.

Special emphasis is placed on the causes, events, and consequences of World War I and World War II. Students will analyze key military strategies, political decisions, and social impacts while considering how these conflicts forever changed global relationships. The course concludes by connecting the lessons of war and empire to the modern world, encouraging students to reflect on how the events of the 19th and 20th centuries continue to influence politics, culture, and international relations today.

2029–2030: Western Civilization A — The Roots of Civilization (Prehistory–476 A.D.)

This course explores the origins of civilization and the foundations of Western culture. Students will study the development of early societies, from prehistoric peoples to the rise of the first organized civilizations. Topics include the emergence of written language, religion, architecture, art, and scientific thought—all of which shaped modern life. The course then transitions to the study of Ancient Greece and Rome, where students examine the rise and fall of great empires, legendary leaders, and timeless ideas that continue to influence government, philosophy, and culture today. Historical figures such as Julius Caesar, Hannibal, and Alexander the Great come to life as students investigate the politics, daily life, and dramatic events of the classical world—including the power struggles, innovation, and intrigue that defined the era. Through readings, projects, and class discussions, students gain a deeper appreciation for how ancient civilizations laid the groundwork for the modern Western world.

SPECIAL EDUCATION DEPARTMENT

Brandon Joggerst, Department Chairperson

SPECIAL EDUCATION DEPARTMENT

ENGLISH 1

NCAA

Full Year

1/2 credit per semester

Open to all levels

Prerequisite: None

English 1 is a foundational course designed to support students with diverse learning needs in building essential skills in reading, writing, and communication. The course focuses on introducing students to various types of literature, including short stories, poetry, and non-fiction, in a format that is accessible and engaging. Students will work on improving reading comprehension, developing vocabulary, and strengthening their ability to analyze and understand basic literary elements. Writing instruction will emphasize organizing sentence structure with a focus on improving grammar, sentence variety, and clarity.

ENGLISH 2

NCAA

Full Year

1/2 credit per semester

Open to all levels

Prerequisite: None

English 2 is designed to support students with diverse learning needs, helping them continue to develop essential skills in reading, writing, speaking, and comprehension that was acquired in English 1. This course provides a structured and supportive environment where students engage with a variety of literary genres, such as short stories, poetry, drama, and non-fiction. Lessons are adapted to meet the individual needs of students, ensuring that content is accessible and engaging. Writing instruction will emphasize organizing and enhancing multi-sentence structure with a focus on improving grammar, sentence variety, and clarity.

ENGLISH 3

NCAA

Full Year

1/2 credit per semester

Open to all levels

Prerequisite: None

English 3 is designed for students with diverse learning needs, building on the skills acquired in English 1 and 2. The course provides a supportive environment where students can continue developing their abilities in reading, writing, and communication. This class focuses on more advanced reading comprehension strategies, expanding vocabulary, and engaging with literature at a deeper level, including novels, short stories, and non-fiction. Writing instruction will emphasize organizing paragraphs, with a focus on improving grammar, sentence variety, and clarity.

ENGLISH 4

NCAA

Full Year

1/2 credit per semester

Open to all levels

Prerequisite: None

English 4 is designed for students with diverse learning needs, building upon the skills and knowledge gained in English 1, 2, and 3. This course focuses on refining reading, writing, and communication skills in preparation for life after high school, whether students pursue further education, enter the workforce, or explore other paths. Writing assignments will focus on enhancing students' abilities to use clear and effective language in sentences and paragraphs. Oral communication will continue to be a central focus, with students participating in class discussions. This will help them build confidence in expressing their ideas and engaging with others in meaningful ways.

APPRECIATION OF RHETORIC

NCAA

Full Year

1/2 credit per semester

Open to Freshmen

Prerequisite: None

This course will continue to develop the students' ability to produce written work. It will expose students to research, writing, and oral presentations. The course will cover everything from fundamental writing skills such as sentence and paragraph structure to research and presenting a variety of topics.

APPRECIATION OF LITERATURE

NCAA

Full Year

1/2 credit per semester

Open to Freshmen

Prerequisite: None

This course will continue to enhance a students' ability to read and provide materials at individually differentiated levels. The course will cover a variety of short stories, nonfiction, plays, and novels that are organized by theme. Through vocabulary development and comprehension strategies, students will work toward grade level reading while developing skills to accommodate themselves.

WRITTEN COMMUNICATION

NCAA

Full Year

1/2 credit per semester

Open to Sophomores

Prerequisite: None

This course will offer practice in essay writing will be the focus of this course. The writing process will begin with a review and practice of sentence structure and include skill writing such as extended paragraphs, compare-contrast, persuasive, and analysis papers.

SPECIAL EDUCATION DEPARTMENT

Brandon Joggerst, Department Chairperson

WORLD LITERATURE

NCAA

Full Year

1/2 credit per semester

Open to Sophomores

Prerequisite: None

This course will continue to center around increasing students' reading level and vocabulary. The class will give students the opportunity to experience and incorporate all elements of literacy while studying literature from around the world.

PRINCIPLES OF COMPOSITION

NCAA

1 Semester

1/2 credit

Open to Juniors

Prerequisite: None

This course will continue to assist students in honing their writing skills. They will concentrate on the writing process for developing more clearly focused samples. Improvements upon the structure of sentences and paragraphs will be focused on.

CONTEMPORARY THEMES IN LITERATURE

NCAA

1 Semester

1/2 credit

Open to Juniors

Prerequisite: None

In this course, students will read and discuss a variety of literature centered around contemporary themes. Class readings will include short stories, nonfiction essays, and poetry selected to match students' abilities and interests. Students will participate in group discussions, written reflections, and a collaborative project to demonstrate understanding of what they read.

The course focuses on building comprehension, vocabulary, and writing skills while encouraging students to think critically about real-world issues and ideas presented in literature. Class activities and assignments will help students develop confidence in expressing their thoughts both in writing and through discussion.

The goals of this course are to help students become more thoughtful and engaged readers, strengthen communication and comprehension skills, and prepare for continued success in senior-level English coursework and future post-secondary settings.

SENIOR WRITING SEMINAR

NCAA

1 Semester

1/2 credit

Open to Seniors

Prerequisite: None

Senior Writing Seminar provides students the continued development of the writing process through creative and formal assignments. Students write about personal experiences as they create an autobiography. Formal writing is addressed within a research essay utilizing credible databases. Students will practice 5 paragraph essay organization, building and supporting details, and mechanics and grammar skills. Editing and revision will be a focus of the writing process. The classroom is designed to allow the best possible chance of success by each student as lessons are differentiated and accommodated for a variety of learning abilities.

GREAT BOOKS

NCAA

1 Semester

1/2 credit

Open to Seniors

Prerequisite: None

In this course, students will explore a variety of engaging fiction and nonfiction books that match their individual reading levels, abilities, and interests. Class time will include guided and independent reading, with students completing several books throughout the semester. Students will participate in discussions, writing activities, and creative projects to show understanding of what they read.

The course will also focus on building reading and vocabulary skills, learning how to use the IMC and its resources, and developing strategies to talk and write about books. Each unit will include a project where students share what they've learned and recommend books to others.

The goals of this course are to help students become confident, life-long readers, strengthen comprehension and communication skills, and build independence and stamina when reading and completing assignments.

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INTRODUCTION TO ALGEBRA

NCAA

Full Year 1/2 credit per semester

Open to all Freshman

Prerequisite: None

Introduction to Algebra is for students who need more mathematics before entering a formal algebra program. The text teaches basic concepts of mathematics and introduces algebra concepts in a step-by-step approach. Topics include: algebra and whole numbers (representing numbers using letters, replacing variables); using decimals, number theory, rational numbers and fractions; basic operation and rational expressions (evaluating algebraic expression); ratios, proportion, and percents; integers (comparing integers, adding, subtracting, multiply, and divide integers); exponents, square roots, and the Pythagorean theorem; equations from geometry (area, volume, and circumferences); and data, statistics, and probability.

INTRODUCTION TO GEOMETRY

NCAA

Full Year 1/2 credit per semester

Open to Sophomores, Juniors and Seniors

Prerequisite: None

The Introduction to Geometry course is a branch of mathematics that deals with logic, measurement, and the relationships of points, lines, angles, and figures in space. Introduction to Geometry focuses on shapes, sizes, patterns, and positions of figures as they apply to everyday life. This course is designed to reach students with deficits in math using interactive activities, manipulatives, and technology in the classroom. The geometry text presents topics in a straightforward approach in presenting material in a step-by-step approach that is focused on capitalizing on student learning styles.

ALGEBRA 1

NCAA

Full Year 1/2 credit per semester

Open to Sophomores, Juniors and Seniors

Prerequisite: None

Algebra 1 teaches the basic concepts of algebra in a step-by-step approach. The course is specifically designed to meet the needs of students requiring a slower pace and extra practice with algebra and number skills. An emphasis is placed on including instruction using a variety of modalities. Topics in this course include algebra basics, fractions, expression, equations, and inequalities, solving equations and inequalities, writing/graphing equations, functions, and inequalities, percent, measures of central tendency, and probability, and mathematical life skills.

ALGEBRA 2

NCAA

Full Year 1/2 credit per semester

Open to Sophomores, Juniors and Seniors

Prerequisite: None

The content of Algebra 2 is organized around families of functions, with special emphasis on linear and quadratic functions. As students learn about each family of functions, they will learn to represent them in multiple ways--as verbal descriptions, equations, tables, and graphs. Topics include: expressions, equations, properties of real numbers, solving linear equations, solving and graphing linear inequalities, exponents and exponential functions, graphing and writing linear equations and functions. Technology support for both learning algebra and preparing for standardized tests will also be used in class.

PHYSICAL/EARTH SCIENCE

NCAA

Full Year 1/2 credit per semester

Open to Sophomores, Juniors and Seniors

Prerequisite: None

Physical/Earth Science is a course designed to give introductory students an understanding of basic Physical Science concepts. The topics of motion, energy, and matter will be taught and reinforced by analyzing the interaction of these concepts with Earth Science. The Earth Science concepts of planetary systems, weather and physical processes will be related to current events and information along with the relationship humans have with the environment. Lab work will be inquiry based and used to reinforce the concepts presented in class. This framework will create a comprehensive understanding of and appreciation for the physical workings of the Earth. The classroom is designed to allow the best possible chance of success by each student as lessons are differentiated and accommodated for a variety of learning abilities.

BIOLOGY

NCAA

Full Year 1/2 credit per semester

Open to Sophomores, Juniors and Seniors

Prerequisite: None

This biology course meets one of the two required science credits necessary for graduation. The course is designed to give students an introductory knowledge of fundamental biological principles and general understanding of life. The course will cover a range of topics including the organization of organisms, classification of organisms, organization of communities, heredity and genetics of organisms. Students are provided with the opportunity of laboratory exercises that correlate the lecture material, and also stimulate their interests in biology and other sciences. Instruction is individualized to meet the needs of students, and class sizes are small to ensure individual attention to specific needs. Sufficient time is spent on the study and review of topics.

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CIVICS

***NCAA**

Full Year

1/2 credit per semester

Open to all levels

Prerequisite: None

Civics is a two-semester course. It offers the students the chance to investigate a wide range of government actions, purposes, structures and problems at the local, state and national level. Students will study the power structure and decision making process of the different levels of government. Students will study United States Constitution and Illinois Constitution, which serve as an underlying theme throughout the course. Students will study current events to be informed for class discussions and assignments. ***.5 credit max**

UNITED STATES HISTORY

NCAA

Full Year

1/2 credit per semester

Open to Juniors and Seniors

Prerequisite: None

This course is designed as a survey of the history of the United States. It is divided into two separate sections; first semester - "A": Early Indian Cultures to the end of the Progressive Era, second semester - "B": World War I to the present. The course will stress the important aspects of the social, political, military, and economic achievements of earlier generations of Americans. Course requirements may include mapwork, tests, quizzes, book reports, projects, and other assignments made by the instructor.

MODERN HISTORY

NCAA

1 Semester

1/2 credit

Open to Sophomores, Juniors and Seniors

Prerequisite: None

This course is designed to educate students of the events that shaped the United States from WW1 to present times. Students will cover topics such as WW1, WW2, and the Vietnam War. This course will stress the important aspects of the social, political, military, and economic achievements of past and present generations of Americans.

WORLD GEOGRAPHY

NCAA

1 Semester

1/2 credit

Open to Sophomores, Juniors and Seniors

Prerequisite: None

This course is designed to increase the knowledge in the areas of world culture, regions, climates, landforms, conservation of natural resources, topography, and history. Emphasis is placed on geography, population, economics, historical origins, and the culture of specific regions.

DRIVER EDUCATION

1 Semester

1/2 credit

Open to Sophomores, Juniors and Seniors

*Prerequisite: See Note **

The driving age in Illinois is 18. A student may obtain a restricted driver's license at the ages of 16 and 17 if they pass an approved driver education course consisting of 30 hours of classroom and 12 hours of behind the wheel training (6 hours driving and 6 hours observation). O'Fallon Township High School offers students an Illinois State Board of Education approved driver education course.

- Driver Education classroom and behind the wheel driving introduces students to Illinois Rules of the Road, vehicle control procedures, risk management techniques, skills that assist drivers in different environments and decision-making methods to become responsible drivers. Students will apply for permits during the classroom portion of driver education. (Students must be 15 years of age, show proof of age: certified birth certificate or military ID, pay a \$20 fee to the Illinois Secretary of State's Office, pass a written test and pass a vision test 20/40)
- Eligibility for enrollment: Illinois State Law states that students must have successfully passed eight (8) semester hours in the previous two (2) semesters to enroll in driver education. There is a \$250 fee for driver education classroom / behind the wheel training. This fee must be paid before the student will be scheduled for behind the wheel driving.
- Driver Education classroom is a semester class that counts toward a student's grade point average. The classroom phase is offered first semester and the behind the wheel training is offered throughout the school year plus during the summer.
- Behind the wheel driving sometimes occurs concurrently with classroom driver education and sometimes after the classroom portion (this is due to availability of driver education vehicles and the number of students enrolled). Behind the wheel driving lessons must be driven in not less than a 6-week period. (4 weeks allowable in the summer).

HEALTH

1 Semester

1/2 credit

Open to all levels

*Prerequisite: See Note**

Health is an opportunity for the student to gain knowledge about his physical, emotional, and social self. Practical information about the body and diseases, nutrition, health hazards associated with the use of tobacco, alcohol, and drugs are all included. Safety procedures and emergency situations are presented. Reproduction, pregnancy, prevention, and various communicable diseases are units in the course. The class is directed to encourage the students to develop habits that will keep them mentally and

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Brandon Joggerst, Department Chairperson

physically healthy. Also, to enable the students to know when they need medical help and to communicate their problems with professionals.

*Students old enough to enroll in Driver Education their freshman year will enroll in Health their sophomore year; students taking Driver Education sophomore year will enroll in Health their freshman year.

MICROSOFT® OFFICE APPLICATIONS

1 Semester

1/2 credit

Open to Sophomores, Juniors and Seniors

Prerequisite: None

This course is designed to develop awareness and understanding of application software and equipment used by individuals to perform tasks in business, marketing, and management. Document formatting is emphasized as students apply problem-solving skills to hands-on, real-life situations using a variety of software applications. Students will explore topics related to computer concepts, operating systems, telecommunications, and emerging technologies. Business Ethics and workplace skills will be included throughout the course. According to the Illinois Skill Standards, students will apply proper grammar, punctuation, spelling, and proofreading applications. The course will provide instruction in Microsoft® Office applications, including Word, Excel, and PowerPoint, as well as the integration of these programs. Daily lessons will be formatted to enhance the student's knowledge and application of these software programs. *B115*

TECHNOLOGY ESSENTIALS

1 Semester

1/2 credit

Open to freshmen only

Prerequisite: None

This course is designed to develop and enhance the abilities to key by touch, proofread, correct errors, and format a variety of documents used throughout the OTHS curriculum. Students enrolled in Technology Essentials will obtain necessary skills related to the daily use of technology in education. Students will also learn about media literacy and learn the skills needed to access, analyze, and evaluate all forms of communication.

They will learn to properly utilize the OTHS student data drive, develop important file management skills, format documents in Microsoft Word utilizing features in Word and develop the ability to organize work and meet deadlines. *B100*

PERSONAL FINANCE

1 Semester

1/2 credit

Open to Juniors and Seniors

Prerequisite: None

This course is designed to familiarize students to their role as consumers in the free enterprise system. This course

will teach students how to manage their personal resources by making informed choices as consumers in the marketplace. Specific consumer problems that students will encounter during both their school years and adult lives will be discussed. The abilities to make personal financial decisions in the areas of budgeting, record keeping, insurance, credit, investing, and financial institutions and services will be emphasized in the learning activities.

COOPERATIVE OCCUPATIONAL EDUCATION

Full Year

1/2 credit per semester

Open to Seniors

Prerequisite: None

This class provides students the opportunity to participate in work-related classroom instruction. Students will become aware of their present and future role as a worker in today's society. Illinois Learning Standards are included throughout the course. The course will explore the requirements to be employed in today's work world, including resume writing, job interviewing, and the skills to maintain successful employment. Students will develop self-reflection, critical thinking, reading, writing, and communication skills throughout the course. Those skills will better allow students to be informed decision makers, make economic choices, improve vocational skills, and plan for their future. Second semester instruction will focus on the skills required for young adults to live independently and will require students to successfully develop a post-secondary plan. To be eligible to take the additional Cooperative Occupational Experience course, students must be enrolled in this Cooperative Occupational Education course.

COOPERATIVE OCCUPATIONAL EXPERIENCE

2 Semesters

1 credit per semester

Open to Seniors

Prerequisite: None

Students who enroll in the Work Experience Course must also be enrolled in the Cooperative Occupational Education course. This class allows students to be released from school to receive their cooperative education work experience at a job. The classroom is each student's job site. This course provides credit for students who are getting on-the-job experience in the working world. Written training agreements are developed and maintained by the course coordinator. The coordinator, student, and employer must assume compliance with federal, state, and local laws and regulations in the job setting. Students are required to work, on average, a minimum of ten hours per week but no more than 35 and provide proof of hours worked. While the instructor can direct students towards open positions, the student is ultimately responsible for obtaining work placement. Students are also required to maintain

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employment for the entirety of the semester. Failure to obtain employment or employment termination, can result in removal from the class. The Illinois Learning Standards are applied throughout the course.

SPECIAL COURSE OFFERINGS

RSS 9, RSS 10, RSS 11, RSS 12

(Resource Study Skills)

1 or 2 Semesters 1/2 credit per semester

Open to all levels

Prerequisite: None

RSS is a one-semester elective credit class split up by grade level (usually taken a full year at a time). Curriculum differs depending on grade level and is specific to the needs of that age group. (Ex. Junior RSS focuses on ACT test preparation). Further daily instruction focuses on basic study skills that students need for academic success. Students learn about note taking, textbook reading, goal setting, test taking and other study skills appropriate to grade level material. A large amount of class time is also devoted to completing homework, preparing for tests, and individual and group tutoring. Frequent contact is made with parents and with students' academic teachers to foster responsibility and academic success.

ESSENTIAL LIFE SKILLS PROGRAM

COMMUNITY LIVING SKILLS

Full Year 1/2 credit per semester

This course is designed to teach students to function as independently as possible in all areas of the community. Examples are stores, restaurants, community facilities, and community transportation.

CURRENT EVENTS

Full Year 1/2 credit per semester

This course is designed to update students on current news. They will complete questions on material that is learned. Students will complete weather logs by searching the internet. The student is expected to learn and apply information. Instructional tools will include computers, newspaper articles, and News-to-You.

DAILY LIVING SKILLS

Full Year 1/2 credit per semester

Daily Living Skills helps prepare students for the transition from school to independent living. Students work on preparing nutritious meals at their own ability level, caring for clothing, and caring for a home. Other general skills are worked on within the classroom and in the appropriate community environment.

ESSENTIAL ENGLISH SKILLS

Full Year 1/2 credit per semester

This course is directed toward developing basic language skills that will be used in everyday life. Students will practice skills such as reading comprehension, site words, functional writing skills, and spelling.

ESSENTIAL HEALTH SKILLS

1 Semester 1/2 credit

Essential Health Skills covers a variety of lessons surrounding basic health, first aid, nutrition, safety and physical fitness.

ESSENTIAL MATH

Full Year 1/2 credit per semester

This course provides essential math skills used in everyday activities through the use of calculators, restaurant menus, digital and analog clocks, money, and computers.

SELF-ADVOCACY

Full Year 1/2 credit per semester

The course focus is to develop the functional skills necessary to enhance students' independent functioning skills. The course focus includes language arts, math, social sciences, community-based instruction, social/behavioral, and technology skills. This course provides for individual needs based on the yearly Individual Education Plan.

PRE-VOCATIONAL TRAINING

Full Year 1 credit per semester

This is a basic orientation to basic tool uses, practices, and safety in areas such as maintenance, food service,

domestic services and janitorial. The course will give correct or appropriate hands-on usage of these tools through various activities.

Students are instructed in appropriate work behaviors, including following rules and regulations; completing assignments in an accurate, timely manner; and demonstrating problem-solving skills. Students will be taught to maintain a safe and healthy environment. Instruction will involve complying with safety and health rules; selecting correct tools and equipment; utilizing equipment correctly; maintaining a clean and orderly work area; and demonstrating personal hygiene and cleanliness. The primary focus is on the dignity of employment and the role to the student gaining a job and maintaining it. \$200 actual experience at a community work site.

SPECIAL EDUCATION DEPARTMENT

Brandon Joggerst, Department Chairperson

SECONDARY TRANSITIONAL EXPERIENCE PROGRAM (STEP) WORK EXPERIENCE

Full Year 1/2 credit per semester

The goal of this class is for the student to gain part-time employment and maintain that job with acceptable skills.

Areas of concentration include:

1. Developing job skills as required at the training site
2. Maintaining employment for a minimum of three months each semester
3. Demonstrating job punctuality and attendance
4. Performing clerical duties
 - a. Completing job station reports
 - b. Completing training agreements
 - c. Completing time sheets
5. Job problem-solving
 - a. Using effective communication techniques
 - b. Meeting with work study coordinator to monitor on-job performance

The Illinois Learning Standards are applied throughout the course. *S499*

SELF ADVOCACY & SELF-DETERMINATION

Full Year 1/2 credit per semester

The course focus is to enable students with disabilities to apply self-determination and self-advocacy skills in school, home, community, and employment settings. Students will increase self-awareness of personal abilities and develop an understanding of the impact of their own disability on learning and on other areas of life.

INDEPENDENT LIVING SKILLS

Full Year 1/2 credit per semester

This course helps prepare students for the transition from school to independent living. Students work on preparing nutritious meals at their own ability level, caring for clothing, and caring for a home. Other general skills are worked on within the classroom and in the appropriate community environment.

RECREATION AND LEISURE

Full Year 1/2 credit per semester

In this course, students identify and practice the decisions they will make as responsible adults, including how to maintain a healthy lifestyle and enjoy leisure activities. Students explore leisure, physical activity, recreation and reflection. Each of these areas is important for the student to incorporate into free time.

SECONDARY TRANSITIONAL EXPERIENCE PROGRAM (STEP) WORK EXPERIENCE

Full Year 1/2 credit per semester

The goal of this class is for the student to gain part-time employment and maintain that job with acceptable skills.

Areas of concentration include:

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WORLD LANGUAGE DEPARTMENT

Libby Magee, Department Chairperson

WORLD LANGUAGE DEPARTMENT

OTHS offers a four-year program in FRENCH, GERMAN, and SPANISH. Students planning to attend college are encouraged to take a second language beginning at the freshman level. This will allow students to reach the upper-level courses by their junior and senior year to benefit from the Honors and AP® course content and weighted GPA, in addition to the possible college credit that many colleges offer to students who have studied four years of a language. Students in Honors Level 3 classes will have their first opportunity to take the test for potential qualification for the Illinois State Seal of Biliteracy (optional) and students in the fourth year will be well prepared to take the AP® exam in May (optional).

FRENCH 1

NCAA

Full Year

1/2 credit per semester

Open to all levels

Prerequisite: None

Students are encouraged to have strong grammar and reading skills for optimum success in a foreign language.

The major goal of French 1 is to develop basic skills of listening, speaking, reading and writing. A variety of activities are provided to help students use French each day. Students also learn about the daily life of French teenagers.

FRENCH 2

NCAA

Full Year

1/2 credit per semester

Open to all levels meeting prerequisite

Prerequisite: Completion of French 1 with a grade of "C" or better

French 2 reviews and expands upon the skills learned in French 1. Emphasis is placed on grammar, structure, and vocabulary. Activities and exercises are planned to help students gain greater proficiency in reading, speaking, listening, and writing skills.

HONORS FRENCH 3

NCAA

Full Year

1/2 credit per semester

Open to all levels meeting prerequisite

Prerequisite: Completion of French 1 and French 2 with a grade of "B-" or better.

Honors French 3 places primary emphasis on strengthening language skills. The majority of the class is taught in French and students are expected to interact in French as much as possible with the teacher and the other students. Grammar and vocabulary abilities continue to be expanded. Reading materials are selections originally intended for native French speakers.

AP® FRENCH LANGUAGE AND CULTURE

NCAA

Full Year

1/2 credit per semester

SWIC Dual Credit Course

Open to all levels meeting prerequisite

Prerequisite: Completion of French 1, 2 and 3 with a grade of "A" or "B"

AP® French Language and Culture is taught entirely in French and is designed to provide advanced high school students the opportunity to study French at a rigorous college level. The students will read, write, listen, speak, and make cultural comparisons in French. This course will follow the six themes as prescribed by the College Board Advanced Placement® curriculum.

GERMAN 1

NCAA

Full Year

1/2 credit per semester

Open to all levels

Prerequisite: None

Students are encouraged to have strong grammar and reading skills for optimum success in a foreign language.

German 1 is an introduction to the German language and culture. The focus of the course is on building a foundation in skills of listening, speaking, reading, and writing in German. Cultural aspects of German-speaking countries are also introduced. Students participate in a variety of individual, partner, and group activities.

GERMAN 2

NCAA

Full Year

1/2 credit per semester

Open to all levels meeting prerequisite

Prerequisite: Completion of German 1 with a grade of "C" or better

German 2 reviews and continues the development of language skills introduced in German 1. The focus is on gaining greater proficiency in the language and learning more about German culture, including current events, music, literature, and movies. This course is recommended only to those students who earned a grade of "C" or higher in German 1.

HONORS GERMAN 3

NCAA

Full Year

1/2 credit per semester

Open to all levels meeting prerequisite

Prerequisite: Completion of German 1 and German 2 with a grade of "B-" or better.

Honors German 3 is conducted primarily in German, and students are encouraged and expected to speak in German as much as possible in the classroom setting. Language skills are refined as vocabulary and language proficiency is further developed. Students participate in a wide variety of activities for oral communication and write and read at a more advanced level.

WORLD LANGUAGE DEPARTMENT

Libby Magee, Department Chairperson

AP® GERMAN LANGUAGE AND CULTURE

Full Year 1/2 credit per semester

Open to all levels meeting prerequisite

Prerequisite: Completion of German 1, 2, and 3 with a grade of "A" or "B"

AP® German Language and Culture is taught entirely in German and is designed to provide advanced high school students the opportunity to study German at a rigorous college level. The students are expected to speak German at all times in the classroom and will read, write, listen, speak, and make cultural comparisons in German. This course will follow the six themes as prescribed by the College Board Advanced Placement® curriculum.

SPANISH1

Full Year 1/2 credit per semester

Open to all levels

Prerequisite: None

Students are encouraged to have strong grammar and reading skills for optimum success in a foreign language.

The main goal of Spanish 1 is to develop a beginning ability in listening, speaking, reading, and writing Spanish. The secondary purpose is to develop knowledge of structure and cultural awareness. The students participate in a variety of individual, partner, and group activities.

SPANISH 2

Full Year 1/2 credit per semester

Open to all levels meeting prerequisite

Prerequisite: Completion of Spanish 1 with a grade of "C" or better

Within the course, many of the same techniques of language skills are used as in the first year, but they are used to obtain a higher degree of proficiency in the language. In the second year, more emphasis is placed on speaking, grammar and structure of this language, with special emphasis on life in Spanish speaking countries and using the language in context.

HONORS SPANISH 3

Full Year 1/2 credit per semester

Open to all levels meeting prerequisite

Prerequisite: Completion of Spanish 1 and Spanish 2 with a grade of "B-" or better.

This year employs an even stronger emphasis on the speaking and reading aspects, as well as learning the advanced grammar structures of the language. The majority of the class is taught in Spanish and the students are expected to speak in Spanish as much as possible.

AP® SPANISH LANGUAGE AND CULTURE

Full Year 1/2 credit per semester

SWIC Dual Credit Course

Open to all levels meeting prerequisite

Prerequisite: Completion of Spanish 1, 2, and 3 with a grade of "A" or "B"

AP® Spanish Language and Culture is taught entirely in Spanish and is designed to provide advanced high school students the opportunity to study Spanish at a rigorous college level. The students are expected to speak Spanish at all times in the classroom and will read, write, listen, speak, and make cultural comparisons in Spanish. This course will follow the six themes as prescribed by the College Board Advanced Placement® curriculum.

COLLINSVILLE AREA VOCATIONAL CENTER

The Collinsville Area Vocational Center (CAVC) is a two-year, public vocational training center for high school juniors and seniors. CAVC is housed on the campus of Collinsville High School and accepts students from several area high schools. CAVC courses are offered as half-day programs in both the morning and afternoon. OTHS students enrolled at the CAVC will spend half of their school day at OTHS and half of their school day at CAVC. Students can provide their own transportation or use OTHS provided buses. Interested students must complete an application to the CAVC. Students must be on track to graduate and have room in their schedule for a half-day at CAVC.

CAVC PROGRAMS

11 th GRADE PROGRAMS	12 th GRADE PROGRAMS
Auto Body I	

CAVC AUTO BODY 1

Full Year 1.5 credits per semester
Open to Juniors and Seniors
Prerequisite: OTHS Beginning Welding, and OTHS Welding I

Instruction in this course emphasizes safety principles and best practices, including the proper handling of hazardous materials. Students will learn auto body terminology, the function of individual components, and how to use parts manuals to identify replacement parts. The course also covers the use of auto body and plastic/glass fillers, special repair tools, refinishing techniques, and paint preparation procedures. Students gain hands-on experience in repairing automotive bodies and fenders, developing both technical knowledge and practical skills needed to prepare vehicles for final paint application. Activities include writing and calculating damage estimates, removing and installing body panels, trim, and glass, straightening components with hammers, bucks, and jacks, and smoothing surfaces using files, grinders, and fillers. Students also learn to prime and prepare metal, fiberglass, or urethane surfaces for final refinishing. Students will also learn to detail the interior and exterior of vehicles. This is a dual credit course, which provides students with the opportunity to receive college credit for successful completion of this course.

State Course Code: 20116A001

Automotive Mechanical Technology I Aviation Mechanics Building Trades I Clinical Health Occupations *Semester Course* Cosmetology I Criminal Justice I Dental Assistant *Semester Course* Electrical Trades Emergency Medical Technician (EMT) *Semester Course* Food Service I HVAC Landscape Management Precision Machining Technology I Teaching As A Profession Urban Agriculture	All 11 th Grade Programs Plus: Building Trades II Cosmetology II Criminal Justice II Cyber Security I Education Practicum Food Service II Precision Machining Technology II Welding Technology I
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CAVC AUTOMOTIVE MECHANICAL TECHNOLOGY 1

Full Year 1.5 credits per semester
Open to Juniors and Seniors
Prerequisite: OTHS Small Engines

Do you like to work with your hands? Do you want to learn how everything works? Do you like lots of tools? If so, this is the class for you. This course provides an introduction to the automotive industry. Students begin by learning essential shop safety practices and proper use of automotive tools. From there, they gain hands-on experience performing maintenance on modern vehicles — including school cars, student vehicles, and cars brought in by friends. The class begins with the study of brakes, suspension, steering, and alignment systems. Each student will then completely disassemble an engine, inspect and measure its components using precision tools, and reassemble it. Once rebuilt, the engine's fuel and ignition systems are installed, and the engine is tested on a stand. Through this process, students learn every step involved in an engine rebuild and develop diagnostic skills to identify and solve engine problems.

Instruction also covers the core systems found in automobiles and light trucks powered by gasoline, electricity, or alternative fuels. Key topics include engine performance, electrical and computer systems, lubrication, exhaust and emission control, steering and suspension, fuel and cooling systems, braking, and powertrain fundamentals.

State Course Code: 20104A001

CAVC AVIATION MECHANICS

Full Year 1.5 credits per semester

Open to Juniors and Seniors

Prerequisites: OTHS Technical Drawing & OTHS Small Engine Repair

This year-long, 2.5-hour course introduces juniors and seniors to the foundational knowledge and hands-on skills of aircraft maintenance, aligned with FAA Part 147 curriculum standards. Students study general aviation topics such as safety, regulations, and basic physics while gaining practical experience with aircraft structures, electrical systems, hydraulics, and propulsion.

Emphasis is placed on inspection, troubleshooting, and proper maintenance procedures. The course prepares students for entry into postsecondary Aviation Maintenance Technician programs and eventual FAA Airframe and Powerplant (A&P) certification. Graduates will be well-prepared to continue advanced training or pursue high-demand careers in aviation and aerospace.

State Course Code 20113A001

CAVC BUILDING TRADES 1

Full Year 1.5 credits per semester

SWIC Dual Credit Course

Open to Juniors and Seniors

Prerequisites: OTHS Technical Drawing, OTHS Carpentry, OTHS Construction 1, and OTHS Construction 2

This course gives students hands-on experience in the fundamentals of residential construction with a focus on craftsmanship. Projects cover all phases of house construction, from foundation to finish work. Students learn to safely use hand and power tools while gaining skills in framing, insulation, drywall, plumbing, and electrical system installation. Instruction also includes masonry, carpentry, blueprint reading, cost estimating, and building codes. This is a dual credit course, which provides students with the opportunity to receive college credit for successful completion of this course.

State Course Code: 17002A0001

CAVC BUILDING TRADES 2

Full Year 1.5 credits per semester

SWIC Dual Credit Course

Open to Juniors and Seniors

Prerequisite: CAVC Building Trades 1

This course builds on the skills and knowledge gained in Building Trades I and provides students with advanced hands-on experiences in residential construction. Emphasis is placed on craftsmanship, safety, and quality work. Student's complete projects that cover all phases of construction, including the installation, maintenance, and repair of building structures and utilities. Instruction includes plumbing and electrical systems, foundation and footing work, framing, finish carpentry, masonry, and code applications. Learning activities focus on developing advanced technical abilities and job-ready skills for employment in the construction industry. This is a dual credit course that provides students with the opportunity to receive college credit for successful completion of this course.

State Course Code: 17002A002

CAVC CLINICAL HEALTH OCCUPATIONS/CNA

1 Semester 1.5 credits per semester

SWIC Dual Credit Course

Open to Juniors and Seniors

Prerequisites: OTHS Health Occupations and OTHS Medical Terminology

This course prepares students for entry-level work in nursing services through classroom instruction and hands-on clinical experiences. Students learn the essential skills required to perform as nurse assistants under the supervision of registered nurses.

Instruction covers medical terminology, patient care, special feeding techniques, psychological support, and long-term or end-of-life care. Students also study growth and development, hygiene, disease prevention, basic pharmacology, first aid, CPR, and professional ethics. Training includes taking vital signs, assisting with personal care, and maintaining a safe environment.

A forty-hour clinical experience at a local nursing home or hospital is required. **The course is approved by the Illinois Department of Public Health as a Certified Nursing Assistant Training Program, allowing eligible students to take the state certification exam.** Students also earn CPR certification during the course. This is a dual credit course, which provides students with the opportunity to receive college credit for successful completion of this course. Dual credit from Southwestern Illinois College is earned for Nurse Assisting (7 credit hours).

State Course Code: 14051A001

CAVC COSMETOLOGY 1

Full Year 1.5 credits per semester

Open to Juniors and Seniors

Prerequisites: None

Cosmetology 1 introduces students to the foundational knowledge and skills required to become licensed cosmetologists. The course combines theory and hands-on practice in key areas such as tool use, shampooing, chemical applications, hair types, sanitation, hygiene, skin conditions, anatomy and physiology, electricity, professional ethics, nail technology, and esthetics. All instruction aligns with the Barber, Cosmetology, Esthetics, and Nail Technology Act. The knowledge and skills gained in this course prepare students for Cosmetology 2 while earning hours toward state licensure. All coursework, grades, and training hours completed in CAVC's Cosmetology program count toward the 1,500 clock hours required by the Illinois Department of Financial and Professional Regulation (IDFPR). The Cosmetology program is fully approved and licensed by the IDFPR's Division of Professional Regulation and meets all state and federal requirements.

Classes are held off-campus at Precision Point School of Cosmetology in Fairview Heights, Illinois. Students must provide their own transportation. This course meets beyond the regular school day from 12:00 to 4:00 p.m., with additional Saturday sessions offered as needed. See CAVC Director for more information.

State Course Code: 19101A001

CAVC COSMETOLOGY 2

Full Year 1.5 credits per semester

Open to Seniors

Prerequisites: CAVC Cosmetology 1

Cosmetology 2 provides students with continued instruction in both theory and practical application as they advance their skills toward professional licensure. All coursework, grades, and training hours earned through the CAVC Cosmetology program count toward the 1,500 clock hours required by the Illinois Department of Financial and Professional Regulation (IDFPR). The Cosmetology 2 program is fully approved and licensed by the IDFPR's Division of Professional Regulation and meets all state and federal requirements. Classes are held off-campus at Precision Point School of Cosmetology in Fairview Heights, Illinois. Students must provide their own transportation. This course meets beyond the regular school day from 12:00 to 4:00 p.m., with one additional Saturday session each month. See CAVC Director for more information.

State Course Code: 19101A002

CAVC CRIMINAL JUSTICE 1

Full Year 1.5 credits per semester

SWIC Dual Credit Course

Open to Juniors and Seniors

Prerequisites: None

This course introduces students to careers in law enforcement and the criminal justice system. Instruction covers the history and structure of law enforcement, the legal system, report writing, recordkeeping, and basic criminal investigation techniques. Students learn police procedures such as search and seizure, patrol methods, arrests, and traffic control, while also studying private security, community relations, and the three components of the justice system: policing, courts, and corrections. Hands-on learning includes communication and dispatch training, simulations, police demonstrations, and guest speakers. The course also builds employability skills such as report writing, reading legal materials, applying math, practicing safety, and developing teamwork and professionalism. This dual credit course provides students with the opportunity to earn college credit upon successful completion.

State Course Code: 15054A001

CAVC CRIMINAL JUSTICE 2

Full Year 1.5 credits per semester

SWIC Dual Credit Course

Open to Seniors

Prerequisites: CAVC Criminal Justice 1

This course builds on the foundation of Criminal Justice I and provides advanced hands-on training in criminal investigation and law enforcement practices. Students learn to conduct investigations, secure crime scenes, collect and preserve evidence, dust for fingerprints, make casts, and use portable crime lab equipment.

Instruction includes interviewing, report writing, courtroom testimony, traffic control, and law enforcement administration. Students also study police management, community relations, legal rights, and ethical decision-making, with an emphasis on professionalism and integrity. Career exploration opportunities include internships, demonstrations, facility tours, and job shadowing. Employability skills such as communication, teamwork, responsibility, and safety awareness are reinforced throughout the course. This dual credit course allows students to earn college credit upon successful completion.

State Course Code: 15054A002

CAVC CYBER SECURITY I

Full Year 1.5 credits per semester

Open to Seniors

Prerequisites: OTHS Cybersecurity and OTHS Computer Networking

This course introduces students to the core concepts of cybersecurity and foundational information technology. Students learn to identify and assess cyber risks to computers, networks, and software systems while developing strategies to prevent and mitigate these risks. Instruction also covers computer hardware, operating systems, and troubleshooting as preparation for the CompTIA A+ certification. In addition, students explore the legal and ethical aspects of cybersecurity, emphasizing responsible and professional behavior in the digital environment. Successful completion of this course helps prepare students for entry-level roles in information technology and cybersecurity.

State Course Code: 10252A001

CAVC DENTAL ASSISTANT

1 Semester 1.5 credits per semester

Open to Juniors and Seniors

Prerequisites: OTHS Health Occupations and OTHS Medical Terminology

This course provides students with an introduction to dental sciences and career opportunities within the field of dentistry. Students will learn the skills needed to perform entry-level dental assisting and administrative tasks through a combination of classroom instruction and hands-on lab experiences. Instruction emphasizes dental safety practices, proper sanitation and infection control procedures, and the identification and use of common dental instruments and equipment. Students will practice chairside assisting techniques, patient preparation, and basic administrative tasks in a simulated dental office environment.

State Course Code: 14054A001

CAVC EDUCATION PRACTICUM

Full Year 1.5 credits per semester

SWIC Dual Credit Course

Open to Seniors

Prerequisite: CAVC Teaching As A Profession

This course provides students with hands-on work experience in education-related fields. Students are placed in district classrooms at various grade levels based on their chosen education career pathway. Coursework includes assessment strategies, family and community engagement, and scholarship preparation to support postsecondary education plans. Students must have completed, or be concurrently enrolled in, Early Childhood Education or Teaching as a Profession to participate in this course. This dual credit course allows students to earn six college credits through Southwestern Illinois College upon successful completion.

State Course Code: 19152A001

CAVC ELECTRICAL TRADES

Full Year 1.5 credits per semester

SWIC Dual Credit Course

Open to Juniors and Seniors

Prerequisites: OTHS Electronics 1 and OTHS Algebra 1 (completion or concurrent enrollment)

The CAVC Electrical program equips students with skills in residential, commercial, and basic industrial systems. Through hands-on projects, teamwork, and industry exposure, students learn circuits, wiring, troubleshooting, and conduit bending while practicing safety and NEC code compliance. The course prepares students for apprenticeships, entry-level certifications such as NCCER Electrical Level 1 and OSHA 10, and career readiness. Graduates leave with the technical expertise and professional skills needed to pursue further education or start a career in the electrical trade.

State Course Code: 17104A001

CAVC EMERGENCY MEDICAL TECHNICIAN (EMT)

1 Semester 1.5 credits per semester

Open to Juniors and Seniors

Prerequisites: OTHS Health Occupations and OTHS Medical Terminology

This semester-long, 2.5-hour course equips juniors and seniors with the knowledge and skills needed to respond effectively to medical emergencies. Students learn patient assessment, airway management, CPR, trauma care, and safe transport procedures while training with industry-standard equipment. Emphasis is placed on teamwork, communication, and professionalism in high-pressure environments. The course follows state and national EMT curriculum standards and prepares students to take the EMT certification exam. Graduates are prepared for immediate employment in emergency medical services or may continue their education in healthcare fields such as nursing, paramedicine, or other medical professions.

State Course Code: 14055A001

CAVC FOOD SERVICE 1

Full Year 1.5 credits per semester

SWIC Dual Credit Course

Open to Juniors and Seniors

Prerequisites: OTHS Food and Nutrition and OTHS Culinary Careers

This course introduces students to the essential skills and knowledge needed for success in the culinary and food service industry. Students learn culinary terminology, math, safety, and sanitation practices while preparing for an industry-recognized sanitation exam. Hands-on experiences develop competencies in both front- and back-of-house operations, including event planning, customer service, baking and pastry arts, breakfast cookery, and various food service styles. Students gain practical experience using commercial kitchen equipment.

and operating a quick-service restaurant, rotating through roles such as cook, server, cashier, and food preparer. Instruction emphasizes nutrition, catering, and cooking cuisines from diverse cultures. The course also explores career opportunities in the food service industry and aligns with college-level standards. This is a dual credit course, allowing students to earn college credit upon successful completion.

State Course Code: 16052A001

CAVC FOOD SERVICE 2

Full Year

1.5 credits per semester

SWIC Dual Credit Course

Open to Seniors

Prerequisite: CAVC Food Service 1 & Instructor Consent

This course builds on foundational culinary skills with advanced training in food service production, management, and leadership. Second-year students take on supervisory roles such as kitchen manager, dining supervisor, storeroom manager, menu planner, buyer, and head chef. Through the continued operation of a quick-service restaurant, students gain real-world experience managing people, operations, and customer service. Coursework emphasizes operational management, personnel supervision, food cost accounting, inventory control, menu design, and marketing. Students also explore industry trends while refining advanced culinary techniques. Training takes place in facilities that replicate professional food service environments. This is a dual credit course, allowing students to earn college credit upon successful completion.

State Course Code: 16055A001

CAVC HVAC

Full Year

1.5 credits per semester

Open to Juniors and Seniors

Prerequisites: OTHS Technical Drawing

This year-long, 2.5-hour course introduces students to the fundamentals of heating, ventilation, and air conditioning systems. Through hands-on training, students gain experience with sheet metal fabrication, residential furnaces and air conditioners, commercial rooftop units (RTUs), and modern heat pump systems. Instruction emphasizes safety, system operation, troubleshooting, installation, and maintenance. Students also prepare for industry-recognized certifications that strengthen their employability. Designed for juniors and seniors, this course provides a direct pathway to employment or advanced technical training in the HVAC industry while building strong problem-solving and technical skills for a high-demand career field.

State Course Code: 17056A001

CAVC LANDSCAPE MANAGEMENT

Full Year

1.5 credits per semester

Open to Juniors and Seniors

Prerequisites: none

This course introduces students to the science and skills of maintaining healthy landscapes and turf areas. Instruction includes plant science, soil and growing media, plant identification, and landscape design principles. Students learn to apply this knowledge to the design, establishment, and maintenance of lawns, parks, golf courses, sports fields, and other outdoor spaces. Emphasis is placed on safe work practices, proper tool and equipment identification, and routine maintenance of landscaping tools and machinery. Through hands-on projects and outdoor lab work, students gain real-world experience in creating and maintaining attractive, sustainable landscapes.

State Course Code: 18051A001

CAVC PRECISION MACHINING TECHNOLOGY 1

Full Year

1.5 credits per semester

SWIC Dual Credit Course

Open to Juniors and Seniors

Prerequisites: OTHS Technical Drawing and OTHS Drafting Engineering and Design

This course will strongly emphasize advanced layout, measurements, basic bench procedures, and basic machine operation. CNC programming and machining will be introduced with an emphasis on manual G and M code programming. Job opportunities and work-related skills needed in the machining field are taught throughout the course of this class. This course also includes a sequence of tasks planned to provide educational experiences that will enable students to develop advanced-level competencies needed for employment and/or continual education. This includes advanced processes on the lathe, milling machine, and surface grinder. This course will be offered under the dual credit agreement with SWIC offering students the opportunity to earn college credit.

State Course Code: 13203A001

CAVC PRECISION MACHINING TECHNOLOGY 2

Full Year

1.5 credits per semester

SWIC Dual Credit Course

Open to Seniors

Prerequisite: CAVC Precision Machining Technology 1

This course builds on foundational machining skills with a strong focus on advanced layout, precise measurement, bench procedures, and machine operation. Students are introduced to CNC programming and machining, with an emphasis on manual G and M code programming. Instruction includes advanced processes on the lathe, milling machine, and surface grinder, preparing students for real-world applications in the

machining industry. Throughout the course, students also explore career opportunities and develop the professional and technical skills required for employment or continued education. This is a dual credit course offered through Southwestern Illinois College, allowing students to earn college credit upon successful completion.

State Course Code: 13203A002

CAVC TEACHING AS A PROFESSION

Full Year 1.5 credits per semester

SWIC Dual Credit Course

Open to Juniors and Seniors

Prerequisite: OTHS Early Childhood Education

This course prepares students to develop the knowledge and skills needed to teach and guide others effectively. Students gain real-world experience through classroom observations and job shadowing at local education sites.

Coursework includes lesson planning, effective teaching strategies, learning styles, classroom management, and understanding diversity in education. Students also explore a variety of careers in education while building their professional portfolios to support future college and career goals. This is a dual credit course, which provides students with the opportunity to earn 6.0 college credits for successful completion of this course through SWIC.

State Course Code: 19054A001

CAVC URBAN AGRICULTURE

Full Year 1.5 credits per semester

Open to juniors and seniors

Prerequisites: none

This course explores the principles and practices of urban agricultural production with a focus on sustainable growing methods and community impact. Students study urban crop production, harvesting techniques, and management strategies used in city-based farming systems. The course also examines the ethical, social, and environmental aspects of food production and the role of urban agriculture as a social movement. Participation in FFA activities and Supervised Agricultural Experience (SAE) projects is a key component, helping students build leadership skills, explore careers, and apply academic knowledge through hands-on learning.

State Course Code: 18309A001

CAVC WELDING TECHNOLOGY I

Full Year

1.5 credits per semester

SWIC Dual Credit Course

Open to Seniors

Prerequisites: OTHS Beginning Welding, OTHS Welding 1, and OTHS Welding 2

This course provides students with hands-on training in the fundamentals of welding and metal joining, also known as fusion. Students learn the safe operation of oxyacetylene and arc welding processes, including SMAW (stick), GMAW (MIG), and GTAW (TIG).

Through extensive practice, students develop welding skills using butt, lap, and T-joints in flat and horizontal positions. Cutting techniques are also taught using plasma arc, oxyacetylene torches, and automated equipment such as the PlasmaCam. Instruction includes blueprint reading and layout to strengthen students' technical understanding and career readiness in the welding field. This dual credit course allows students to earn six (6) college credits through Southwestern Illinois College upon successful completion.

Students may be able to test into CAVC Welding 2.

State Course Code: 13207A001

FOUR-YEAR PLANNING WORKSHEET

O'FALLON TOWNSHIP HIGH SCHOOL

NOTES:

- 9TH grade students may enroll in a maximum of six (6) courses to fill a seven (7) period day.
- 10th-12th grade students may enroll in a maximum of seven (7) courses with the selection of an Early Bird scheduling option.
- This worksheet is to be used as a guide to help plan your course selections. Please work with your school counselor if you have questions.
- Refer to *Graduation Requirements* for additional information regarding credits and course requirements.

	FRESHMAN		SOPHOMORE	
	SM 1	SM 2	SM 1	SM 2
ENGLISH				
MATH				
SCIENCE				
SOCIAL STUDIES				
P.E.				
HEALTH				
PERSONAL FINANCE				
ELECTIVE				
ELECTIVE				
TOTAL CREDITS				
	JUNIOR		SENIOR	
	SM 1	SM 2	SM 1	SM 2
ENGLISH				
MATH				
SCIENCE				
SOCIAL STUDIES				
P.E.				
HEALTH				
PERSONAL FINANCE				
ELECTIVE				
ELECTIVE				
ELECTIVE				
TOTAL CREDITS				

NCAA PLANNING WORKSHEET

O'FALLON TOWNSHIP HIGH SCHOOL

The following planning guide serves as a tool for parents and students when planning the 16 core courses required for Full Qualifier certification under NCAA Division I Guidelines.

10/7 Requirement: Ten of the 16 core courses must be completed before the seventh semester (senior year), and seven of those ten must be in English, math, or natural/physical science. Students must also meet Core Course GPA and SAT/ACT score requirements.

Meeting eligibility guidelines set by the NCAA, NAIA, and NJCAA is the responsibility of the student and parent/guardian. Information can be found on each organization's website. Students and parents are encouraged to visit the OTHS School Counseling page at www.oths.us for Eligibility Center Guidelines, Approved Core Courses, and Core Course GPA details. Students interested in collegiate athletics should inform their School Counselor early, as course selection beginning freshman year plays a key role in eligibility.

Testing Codes: SAT/ACT scores must be sent directly from the testing agency.

NCAA – 9999 | NAIA – 9876

Prospective Student Athlete 16 Core Course Planning Guide

	<i>Example: Appreciation of Rhetoric</i>	<i>.50</i>	<i>Example: Appreciation of Literature</i>	<i>.50</i>
ENGLISH- 4 YEARS				
MATH- 3 YEARS ALG 1 OR HIGHER				
SCIENCE- 2 YEARS				
ADDITIONAL MATH, ENGLISH, SCIENCE- 1 YEAR				
SOCIAL STUDIES- 1 YEAR				
ADDITIONAL CORE CLASSES OR WORLD LANGUAGE- 4 YEARS				

Please refer to the OTHS Curriculum Guide or the NCAA eligibility center website for a list of approved courses.

Not all courses at OTHS are NCAA approved. Approved courses are noted in the course catalog within each

Department by the designation: **NCAA**