

# **Plano High School**



## **Course Description Guide**

### **2019-2020**

## Table of Contents

Plano School District Information	4
Introduction	5
Schedule Changes	6
Grades	6
Honor Roll	6
District Grading Scale	6
Grade Point Average & Class Rank	6
Weighted Courses	6-7
AP Capstone Diploma	7
STEAM Diploma	7
STEM Diploma	7-8
Graduation Requirements/Transfer Credits	8
Class Status	8
Transfer Requirements	9
Request for Transcripts	9
Extra-Curricular Eligibility	9-10
Extra-Curricular Opportunities	10
Activities and Clubs	10-12
Physical Examination Requirement	12
College Credit Articulation Agreement	12-13
IVVC Requirements	13
<b>Courses:</b>	
AP Capstone Courses	14
English Department Flow Chart	14

English Courses	14-17
ESL Courses	18-19
Math Department Flow Chart	19
Math Courses	19-22
Science Department Flow Chart	22
Science Courses	22-25
Social Sciences Department Flow Chart	25
Social Sciences Courses	25-28
Physical Education-Health-Drivers Ed Courses	28-29
Fine Arts Department	
Art Courses	30-33
Foreign Language Flowchart	33
Foreign Language Courses	33-34
Music Courses	34-36
Theatre Courses	36-37
Vocational Education and Electives	
Business Computer Department Flow Chart	38
Business Courses	38-41
Family Consumer Sciences Courses	41-42
Applied Technology Courses	42-43
Indian Valley Vocational Center (IVVC)	43-64
Miscellaneous Courses	64-65



## **Plano High School**

Plano CUSD #88

704 West Abe Street

Plano, IL 60545

FAX: (630) 552-8824

Phone: (630) 552-3178

<http://www.plano88.org/schools/planohighschool>

### **Board of Education**

Mr. Tim Campbell  
Mr. Jim Ward  
Mr. Michael Jernigan  
Mrs. Kim Velazquez

Mr. Kyle Klatt  
Mr. Tim Waldrop  
Mrs. Estela Martinez

### **Superintendent**

Mr. Tony Baker

### **Assistant Superintendent**

Dr. Tracy Thurwanger

### **Director of Assessment and ELA Services**

Mrs. Abby Alvarez

### **PHS Administration**

Mr. Jim Seput – Principal  
Mrs. Julie Adelman – Asst. Principal for Student Services  
Mr. Brennan Denny -- Asst. Principal for Curriculum and  
Instruction  
Mr. Jim Schmidt – Athletic Director

### **Student Services**

Mrs. Lauren Elgersma – Counselor  
Ms. Courtney Voise - Counselor  
Ms. Kelly DeGarmo - Social Worker  
Ms. Callie Rezin - Social Worker

*"You Reap What You Sow"*

**Plano Community Unit School District # 88**  
**Mission Statement**

*Preparing students for successful lives by inspiring  
excellence in every student, everyday!*

**Plano High School - Purpose Statement**

*To meet the individual needs of students by  
developing skills that are necessary to have a  
successful life after high school.*

**Introduction**

This Course Description Guide has been compiled with the cooperation of the faculty of Plano High School and Indian Valley Vocational Center to aid our students in planning their courses of study while in high school. What you learn both inside and outside the classroom and the record you make for yourself will largely determine what you will be able to do with your life. At each stage of your high school career, you should seriously consider your goals and develop a program of study to prepare you for further education in your life's work.

This guide has been designed to help you, your parents, and your counselor plan a program of study appropriate for you. You, however, must carry the responsibility for this planning. Remember that you, as the student, have the primary responsibility. Use this guide to answer such important questions as:

1. Am I meeting the requirements for graduation?
2. Am I meeting the requirements for entrance to a college or vocation?
3. Am I choosing courses that challenge and interest me?

**Registration Procedure**

- Use this guide as a reference to the courses of study offered at Plano High School.
- Do preliminary planning within a four-year period, beginning with 9<sup>th</sup> grade course selection. Review the requirements for graduation to make sure they are included in your four-year plan.
- Meet with the counselor to review the proposed schedule and four-year plan.

**Course Selection**

When reading the course descriptions contained in this guide, please note that many courses have prerequisite requirements. If a course has a prerequisite, the prerequisite must be successfully completed prior to registering for the course.

**The Symbol (\*\*) in front of a course description denotes that the class is new for this year**

## Schedule Changes

Students have the opportunity and responsibility to plan a realistic educational program for the following year. Students should study course descriptions, make use of counselor recommendations, and discuss plans with their parents. Parents and students should give serious consideration to this matter before choosing courses because students will be expected to remain in the selected courses. School administrators employ instructors and build a schedule based upon student requests. Once pre-registration has been completed and the master schedule developed, changes in a student's schedule will be made only if clearly warranted. Reasons for changing a schedule may include:

- Conflict in scheduling, which cannot be resolved
- Attendance or failure to attend summer school
- Clerical error on schedule
- Health reasons
- Change from one level to another based on approval

Even where one of the above circumstances applies, students will only be allowed to make a course change if there is space available. **After the first five days of each semester, students are NOT permitted to make a course change.**

## Grades, Grade Point Average, and Class Rank

Plano High School uses a grading system that reflects the student's cumulative grade average and their percentage earned. This will include a letter grade based on the percentage earned: A = 100 - 90 (superior), B = 89 - 80 (very good), C = 79 - 70 (average), D = 69 - 60 (poor), and F = 59 - 0 (failure) based directly on the student's cumulative grade average and percentage earned throughout the semester. The following course grades will not count towards student GPA: WCC summer school for high school credit, Driver's Education course taken privately, correspondence courses, and FLEX courses.

In order to determine grade point average, letter grades are given numerical equivalents in all courses. Grade point average is then determined by dividing the sum of the numerical grades by the number of credits attempted. Letter grades are given the following numerical values: A = 4 points, B = 3 points, C = 2 points, D = 1 points.

Honors and Advanced Placement (AP) courses are given a higher numerical equivalent. Letter grades are given the following numerical values: A = 5 points, B = 4 points, C = 3 points, D = 2 points. It is important to note that even though a D in an Honors course may be weighted to count the same as a C in a regular course, this D may negatively impact a student on selection decisions at some colleges and universities.

## Weighted Courses

AP Biology  
AP Calculus – AB  
AP Calculus - BC  
AP Capstone Research  
AP Capstone Seminar  
AP Chemistry  
AP Computer Science Principles  
AP Human Geography  
AP Literature and Composition  
AP Language and Composition  
AP Music Theory

AP Physics  
AP Psychology  
AP Spanish Language  
AP Spanish Literature  
AP Statistics  
AP Studio Art  
AP U.S. Government & Politics  
AP U.S. History  
AP World History  
Accounting II  
Algebra II Honors

Art—2D Studio  
Art—3D Studio  
Band Honors  
Biology Honors  
Chemistry Honors  
English I Honors  
English II Honors

Geometry Honors  
Independent Music Honors  
Mixed Chorus Honors  
Pre-Calculus  
Professional Theatre Arts Studio  
Spanish IV Honors

### **AP Capstone Diploma**

Students wishing to earn an AP Capstone diploma must do the following (as determined by College Board):

1. 1.0 Credit of AP Capstone Seminar
2. Pass the AP Capstone Seminar Exam with a score of 3 or higher
3. 1.0 Credit of AP Capstone Research
4. Pass the AP Capstone Research Exam with a score of 3 or higher
5. 4.0 Credits of AP coursework, in addition to AP Capstone Seminar and AP Capstone Research
6. Pass at least 4 AP Exams, in addition to the AP Capstone Seminar and AP Capstone Research Exams, with scores of 3 or higher.

This honorary diploma celebrates a student's dedication to Advanced Placement course work and achievement, beginning with the Class of 2017.

### **STEAM Diploma**

Students wishing to earn a Science, Technology, Engineering, Arts and Math diploma must do the following:

1. 4.0 Credits of Science (Minimum of 1.0 AP Biology, AP Chemistry)
2. 4.0 Credits of Mathematics (Minimum of 1.0 AP Calculus or AP Statistics)
3. Minimum of 1.0 Technology credit (Business & Technology Department)
4. Minimum of 0.5 Fine Arts credit (Art, Music or Theater)
5. Minimum of 0.5 Industrial Technology credit
6. IVVC credit may take the place of the Industrial Technology credit

This honorary diploma celebrates a student's dedication to STEM and the Fine Arts, effective for the Classes of 2017-2019.

### **STEM Diploma**

Students wishing to earn a Science, Technology, Engineering and Math diploma must do the following:

1. 4.0 Credits of Science including at least 1.0 AP Science course
2. 4.0 Credits of Mathematics including at least 1.0 AP Math course
3. 3.0 Credits of Technology including Technology Applications I and II, Computer Programming, and AP Computer Science Principles
4. 1.0 Credit of Introduction to Applied Technology
5. 1.0 Credit of Engineering Design
6. 3.5 or higher cumulative GPA

This honorary diploma celebrates a student's dedication to STEM; beginning with the Class of 2020, this diploma replaces the STEAM diploma.

**Graduation Requirements**

<b>Subject Area:</b>	<b>Credit Requirement:</b>
English	4.00 (4 years)
Math	3.00 (3 years)
Science	3.00 (3 years)
Social Science	3.50 (3.5 years)
Career and Technical Education	1.50
<i>Consumer Economics (.5)</i>	
<i>Tech Apps (1.0)</i>	
Physical Education	4.50
<i>Physical Education (3.5)</i>	
<i>Drivers Education (.5)</i>	
<i>Health (.5)</i>	
Fine Arts / Foreign Language	2.00 (2 years)
<u>Electives***</u>	<u>7.50</u>
TOTAL:	29.00 credits

\*\*\* Transfer students will have the number of electives reduced depending on number of possible transfer credits from previous school.

**Transfer Credits**

The counselor and principal will apply credit earned in these courses towards graduation requirements provided the courses were pre-approved. Students will be allowed to transfer a total of 2 credits from correspondence classes or summer high school credit classes towards graduation requirements provided an official transcript indicating the grade is submitted to the guidance office. This does not include credits transferred in from other accredited high schools. College level courses at 100 or above taken at Waubensee Community College will count as .5 credit providing the class is at least 3 semester credit hours.

Each student should check with the counselor annually to make sure that he/she is making satisfactory progress toward meeting graduation requirements.

**Class Status Credit Hours**

Sophomore = 7.50                      Junior = 15.00                      Senior = 22.00

**Transfer Requirements**

A student who **completes the required registration process** and wishes to enroll 0-20 days prior to semester/final exams and is:

- under 17 and/or has special needs will NOT receive credit for classes unless the previous institution issues credit
- over 17 and/or has no designated special needs MAY BE DENIED ENROLLMENT until the first day of the next semester

A student who is **unable to document attendance in another school for 10 or more days prior to registration/enrollment at Plano High School** and is:

- under 17 and/or has special needs may enroll, but MAY NOT receive credit
- over 17 and/or has no designated special needs MAY BE DENIED ENROLLMENT

### Request for Transcripts

Students under the age of 18 must have parent signature on the transcript release form found in Student Services or Main Office. Students 18 or over may release the transcript by using their own signature. Transcripts will not be released if a signed form is not on file. Records may be sent to another high school without parent or student permission; however, special education files must have parental consent to be released. Parents and students are able to request a copy for personal review. Transcripts must be official and certified with the school seal to be sent to colleges, places of employment, or other use. Please allow **TWO** business days for transcript requests to be completed.

### Extra-Curricular Eligibility

In order to be eligible to participate in the extracurricular programs at Plano High School, students must not have attained the five-point limit the previous semester (Fs = 2 points and Ds = 1 point). In addition, a student must not attain five points on a weekly basis. It is understood that the student will have earned a cumulative number of credits during his/her time at Plano High School that will enable him/her to graduate on time with his/her class. Points will be assigned as follows based on weekly grades and the final semester grade (F's = 2 points and D's = 1 point).

The school will mandate that any athlete that is receiving 4 points or more will attend Mandatory Athletic Study Hall (M.A.S.H.). This study hall will occur every Wednesday and Thursday during our sports seasons. If an athlete does not attend this study hall, then they are not allowed to practice and could face a suspension.

The student/athlete must meet the following number of credits in order to remain eligible:

<b>By the beginning of:</b>	<b>Student must have accumulated:</b>
2 <sup>nd</sup> semester senior year	24 credits
1 <sup>st</sup> semester senior year	20 credits
2 <sup>nd</sup> semester junior year	16 credits
1 <sup>st</sup> semester junior year	12 credits
2 <sup>nd</sup> semester sophomore year	8 credits

NOTE: Prior to 2<sup>nd</sup> semester sophomore year, students are required to earn 4 credits (pass 8 classes) each semester in order to remain eligible.

A student may also be ineligible due to unpaid fees. If an athlete is ineligible for a total of three weeks in a sport season, the athlete will be dismissed from the team by the athletic director. **See the Athletic Handbook for more information.**

## Extracurricular Opportunities

Baseball  
Basketball (Boys & Girls)  
Bowling (Boys & Girls)  
Cheerleading  
Cross Country (Boys & Girls)  
Dance  
Football

Golf (Boys & Girls)  
Soccer (Boys & Girls)  
Softball  
Track & Field (Boys & Girls)  
Volleyball  
Wrestling

## Activities and Clubs

**Anime Club** - Anime Club invites lovers, connoisseurs, and skeptics of the Japanese Anime and Manga to meet in an inclusive and welcoming environment to watch, discuss, and learn more about all things Anime. Club members can expect to engage in viewings of anime shows and movies, friendly debates about anime culture, and playing games and activities all based around Anime themes and Japanese culture.

**Art Club** – Enables students to experience the luxury of a larger block of time to work on their artwork or on group projects. Anyone can join Art Club. Those with no present art expertise are encouraged to investigate some of the neat things that can be done in the Art Department. See Mr. Tardi for more information.

**Chess Club** - Students learn the mechanics of chess while having fun. Throughout the season there are various meets against other schools in which we participate. See Mr. Dean for more information.

**Class Officers** – Expected to participate in all class activities and provide positive leadership. These activities include homecoming, fund-raising, and class Olympics. In addition, at the junior level, officers will be responsible for helping with concession stands and prom. Senior officers have to make decisions about graduation and related senior activities. Officers will be expected to attend committee meetings.

**Family Focus Youth Development** —This after school program is designed to provide ongoing academic support, preparation for standardized testing and college/career readiness and it open to anyone. Students participate in homework time and activity time. Activities offered throughout the year may include art lessons, photography, cooking, baking, Junior Achievement, Robotics, a campus crawl offered to participants during Spring Break and summer enrichment. All activities are free to participants. Light meals and transportation are provided to program participants throughout the school year.

**Fellowship of Christian Athletes** - Fellowship of Christian Athletes is a student led group that meets monthly to play games, listen to guest speakers, and discuss faith through fellowship. It is open to all students. See Mr. Kunz for more information.

**Future Educators of America (FEA)** – Anyone interested in teaching or coaching as a career should join. Focus is not only on learning to be teachers but show appreciation to staff and work with district staff with students. See Ms. Hiltzeman for more information.

**Improv Crew** – Improv Crew is open to any student interested in improvisational theatre and comedy. No experience is necessary. Everyone is welcome and you can join in at any point during the year. See Mr. Sturn for more information.

**Interact Club** - Interact is a branch of the Plano Rotary, and the purpose of the club is to put service above self. The students complete service projects to help individuals and the community. The student's role is to make their school and community a better place. Through service activities, Interact club members learn the importance of developing leadership skills and personal integrity, demonstrating helpfulness and respect for others, and advancing international understanding and goodwill. Students will also learn to collaborate with a diverse group of students as well as problem solve. See Ms. Voise for more information.

**International Thespian Society** – Troupe #1535 – students who devote considerable time and effort to the PHS Theatre program will be invited to be members of the International Thespian Society, the world's largest honor society for theatre students. The designation "Thespian" includes student members who excel in technical and production fields as well as performance in their high school theatre. See Mr. Sturn for more information.

**Intramurals** – Variety of activities and sports that can be played at a semi-competitive level, to allow for great physical activity and promotion of lifelong activities.

**Madrigals** – PHS presents an annual Madrigal dinner. Our performance includes student participation as singers, actors, instrumentalists and behind-the-scenes help. Our Madrigal dinner is held in December. Students are selected for participation by audition or by the director. See Ms. Webb for more information.

**Modern Media** – This club works to create live and archived webcasts for school events and athletic activities. See Mrs. Tyler for more information.

**National Honor Society** – NHS is based on teacher recommendations for sophomores, juniors, and seniors during the spring of the school year. Students are considered for the society if they have a minimum of a 3.25 GPA. The staff on the basis of service, leadership and character then rates students. NHS spends many hours assisting with various school and community service projects. See Mrs. Chatman for more information.

**National Hispanic Institute** - NHI is a leading organization that fosters future community leaders for the expanding Latino community throughout the United States and Latin America. NHI creates experiences that engage achieving high school and college age youth in community leadership roles that advance our quality of life. This club is open to all students. Please contact Mrs. Garcia for more information.

**PHS Theatre** – Students interested in working on plays or musicals should become involved with PHS Theatre. Auditions are held each semester for the Fall and Spring plays, and students may apply for technical crew positions if they are interested in behind-the-scenes work. See Mr. Sturn for more information.

**Scholastic Bowl** – Scholastic bowl is an academic competition in which students answer questions taken from the following areas: science, math, social studies, literature, fine arts, language arts, and miscellaneous or vocational education.

**Snowball** – Kendall County Operation Snowball is a 3-day retreat held twice each year. Students from Plano, Oswego, Yorkville, and Newark plan each experience. The emphasis is on peer leadership and the prevention of common problems. The philosophy of snowball is "Together we can make a positive difference." All students are encouraged to attend, to be part of the planning group, and finally to be a member of the Snowball staff.

\*This is not affiliated with Plano High School.

**Student Council** – Student Council representatives are selected on the basis of application, teacher recommendation and class elections. The group organizes all homecoming activities, school blood drives, fundraisers, and other activities, which would assist in improving the overall school climate. See Mrs. Lebel or Ms. Dalzell for more information.

**Talent Show** – Come out to demonstrate your talents and skills! The Talent Show takes place in the spring semester after the Spring play. Anyone is welcome to audition; we will hold one rehearsal and one performance. See Mr. Sturn for more information.

## Physical Examination Requirement

### **Notice to Parents and 8<sup>th</sup> Grade Students**

The Illinois School Code requires all ninth grade students to have a current physical examination dated within one year of entry recorded on the approved State of Illinois Department of Human Services Certificate of Child Health Examination form completed in its entirety. The physical must be signed by a physician, advanced nurse practitioner or physician assistant before it is accepted. In addition, a complete record of immunization dates your child received for an A cellular Tdap, polio, measles, mumps, rubella, varicella and hepatitis B are required. The immunization record must be signed by a healthcare provider who gave or can verify the immunization dates. All documentation should be turned into the school nurse prior to the start of school.

### **Sports Physicals**

Physicals are required for students engaged in sports. The IHSA sports physical, which satisfies the requirement for participating in sports at a high school level, is effective for 365 calendar days. The state mandated physical will satisfy this requirement provided it covers the entire academic school year. **Physicals documented on IHSA forms will not satisfy entrance into 9<sup>th</sup> grade.** Sports physicals should be turned into the athletic department prior to your child beginning practice.

## College Credit Articulation Agreements

Waubonsee Community College grants college credit when learning experiences at the high school level duplicate those at the college level. Articulated credit enables students to receive advanced course placement, to save time and money, and avoid duplication of curriculum already learned in high school. Students must earn an “A” or “B” in the high school class and apply for credit within two years of graduation. Following is a list of courses at Plano High School for which articulation credit can be earned. See your career/technical instructor or counselor for the “College Credit Articulation Forms.” For more information call the VALEES office at (630) 466-2474 or visit [www.VALEES.org](http://www.VALEES.org).

### **PHS Courses**

Accounting II  
Technology Applications I  
Technology Applications II

### **Indian Valley Vocational Center Classes**

Auto Body Repair I and II	Drafting and Design I & II	Health Occupations- CNA
Automotive Mechanics II	Early Childhood Development I & II	Law Enforcement I
Construction Technology II	Fire Science I & II	Welding and Fabrication I & II
Computer Technology (Maintenance & Repair) I	Graphic Design & Digital Tec I & II	
Culinary Arts II	Health Occupations-Exploring	
	Medical Careers	

### ***The process for awarding credit includes:***

- 1) Earn an “A” or “B” in the specified high school course(s).
- 2) Apply to WCC for articulated credit within two years of the date of high school graduation.

## Indian Valley Vocational Center (IVVC) Requirements

A limited number of students are allowed to attend IVVC from Plano High School. Students interested in participating in IVVC are prioritized by the following criteria. Space is limited.

<p><b>#1 Senior</b> entering the <b>second year</b> of a <b>two-year program</b></p>	<ul style="list-style-type: none"> <li>a) Successfully completed <b>first year</b> same program at IVVC</li> <li>b) Returned all necessary <b>paperwork</b> in a timely manner</li> <li>c) Not missed more than <b>12 days</b> junior year (exception: major illness)</li> <li>d) Earned credits for graduation at the end of the year</li> <li>e) <b>Cannot be an early graduate</b></li> </ul>
<p><b>#2 Senior</b> entering a <b>one-year program</b></p>	<ul style="list-style-type: none"> <li>a) Passed the first year of a two-year program</li> <li>b) Not missed more than <b>12 days</b> at IVVC and PHS junior year (exception: major illness)</li> <li>c) Earned credits for graduation at the end of the year</li> <li>d) <b>Cannot be an early graduate</b></li> </ul>
<p><b>#3 Junior</b> entering the <b>first year</b> of a <b>two-year program</b></p>	<ul style="list-style-type: none"> <li>a) Successfully completed <b>related classes</b> at PHS</li> <li>b) Not missed more than <b>12 days</b> sophomore year (exception: major illness)</li> <li>c) Earned credits to be a <b>junior</b></li> </ul>
<p><b>#4 Senior</b> entering the <b>first year</b> of a <b>two-year program</b></p>	<ul style="list-style-type: none"> <li>b) Successfully completed <b>related classes</b> at PHS</li> <li>c) Not missed more than <b>12 days</b> junior year (exception: major illness)</li> <li>d) Earned credits for graduation at end of year</li> <li>e) <b>Cannot be an early graduate</b></li> </ul>
<p><b>#5 Senior</b> entering for the <b>second year</b> but <b>changing programs</b></p>	<ul style="list-style-type: none"> <li>a) Successfully completed <b>junior year at IVVC</b></li> <li>b) Not missed more than <b>12 days</b> at IVVC and PHS junior year (exception: major illness)</li> <li>c) Earned enough credits to graduate at end of the year</li> <li>d) <b>Cannot be an early graduate</b></li> </ul>

## AP Capstone Courses

### AP Seminar (22107A000)

2 Semesters = 1.0 Credit

Prerequisite: Grade 11 AND selection committee recommendation

This is a **weighted** course. The AP Seminar course is an inquiry-based course that focuses on engaging students in cross-curricular discussions designed to explore real-world topics and issues from multiple perspectives. The course provides students with a framework that allows students to develop, practice, and sharpen their critical and creative-thinking skills as they make connections between issues and their own lives. Through a series of scaffolding units centered around specific themes and the ideas and skills of QUEST, students will work individually and in collaborative teams to analyze the credibility of arguments and critique specific lines of reasoning. Using a variety of sources discussing the same issue, students will develop questions that drive unique student-developed solutions. Students will craft written arguments as well as present their arguments using multi-media tools.

### AP Research (01106A000)

2 Semesters = 1.0 Credit

Prerequisite: Grade 12 AND successful completion of AP Seminar

This is a **weighted** course. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

## English Department Flow Chart

**(4 Credits Required)**

Freshman	Sophomore	Junior	Senior
English I (H)	English I (H)	English III	English IV
		AP Language and Composition	AP Language and Composition
			AP Literature
			Electives Modern Journalism Speech Communications

**English electives must be taken concurrently with another English course.**

## English Courses

### AP English Language and Composition (01005A000) (NCAA Approved)

2 Semesters = 1 credit

Grade 11 or 12

This is a **weighted** course. Students will read a variety of prose written for different contexts and purposes. The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammar choices. Additionally, students read and

analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. **Students who enroll in this class are expected to take the AP Language and Composition Exam. *Summer Reading Requirement***

### **AP English Literature and Composition (01006A000) (NCAA Approved)**

2 Semesters = 1 credit

Grade 12

This is a **weighted** course. Students will carefully read and critically analyze imaginative literature. The AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as much smaller-scale elements as the use of figurative language, imagery, symbolism and tone. **Students who enroll in this class are expected to take the AP Literature and Composition Exam. *Summer Reading Requirement***

### **English I (01001A000) (NCAA Approved)**

2 Semesters = 1 credit

Grade 9

This course includes elements of literature, grammar, composition, and vocabulary. Students will read deeply, write using evidence, and develop the critical-thinking skills needed to be successful in high school, college, and beyond by exploring the "Coming of Age" theme. Reading, writing, speaking and collaborative skills will be developed through reading novels, short stories, memoirs, poetry and viewing film.

### **English I Honors (01001A000) (NCAA Approved)**

2 Semesters = 1 credit

Grade 9

This is a **weighted** literature-based course. It develops students' grammar, composition, and vocabulary skills through writing and reading. This course includes elements of literature, grammar, composition, and vocabulary. Students will read deeply, write using evidence, and develop the critical-thinking skills needed to be successful in high school, college, and beyond by exploring the "Coming of Age" theme. Reading, writing, speaking and collaborative skills will be developed through reading a novel, short stories, memoirs, poetry and viewing film. Independent novels will be studied throughout the course. ***Summer reading assignment may be required.***

### **English II (01002A000) (NCAA Approved)**

2 Semesters = 1 credit

Grade 10

This course includes elements of literature, grammar, composition, and vocabulary and focuses on cultural commentary and the makeup of culture and identity. The goals of English II will be accomplished through reading informational texts, essays, novels, plays, and various other types of literature. Students will then create artifacts to demonstrate mastery and skill growth. Students will read deeply, write using evidence, and develop the critical-thinking skills needed to be successful in high school, college, and beyond.

### **English II Honors (01002A000) (NCAA Approved)**

2 Semesters = 1 credit

Grade 10

This **weighted** course emphasizes advanced critical thinking skills in the analysis of literature and the development of the writer. This course includes elements of literature, grammar, composition, and vocabulary and focuses on cultural commentary and the makeup of culture and identity. The goals of English II will be accomplished through reading informational texts, essays, novels, plays, and various other types of literature. Students will then create artifacts to demonstrate mastery and skill growth. Students will read deeply, write using evidence, and develop the critical-thinking skills needed to be successful in high school, college, and beyond. ***Summer reading assignment may be required.***

### **English III (01003A000) (NCAA Approved)**

2 Semesters = 1 credit

Grade 11

This course presents advanced work in composition and reading. English III focuses on America, the American Dream, and the pursuit of happiness through reading different literature and creating artifacts to develop reading, writing, and speaking and listening skills. Students will read deeply, write using evidence, and develop the critical-thinking skills needed to be successful in high school, college, and beyond.

#### **English IV (01102A000) (NCAA Approved)**

2 Semesters = 1 credit

Grade 12

English IV focuses on various perspectives found in fictional and non-fictional works. Through uses of various genres and media, students will explore these perspectives and criticisms. Students will work to create artifacts that show mastery of the skills addressed in each activity. Students will read deeply, write using evidence, and develop the critical-thinking skills needed to be successful in high school, college, and beyond.

#### **Foundations of English 1, 2, 3, 4 (01001A000, 01002A000, 01003A000, 01004A000)**

2 Semesters = 1 credit

Grade: 9, 10, 11, 12

*Prerequisite: IEP Team Recommendation*

This four year English program is designed to support students as they read a variety of texts to identify key ideas, details and structures with the goal of summarizing information and evaluating theme. Students will produce a written product using the standardized writing process. In addition, students will analyze the author's attitude through various characteristics of tone, analyze various works by identifying the structure of the text, use of rhetoric in an argument and evaluating the effectiveness of the intended argument and finally, interpret and analyze literary and informative texts.

#### **Resource Lab 1, 2, 3, 4**

2 Semesters = 1 credit

Grade: 9, 10, 11, 12

*Prerequisite: IEP Team Recommendation*

This enrichment course focuses on developing reading skills with an emphasis on building vocabulary, literal comprehension, and fluency. In addition, the course explores the elements of short stories, such as plot, setting, and character development. Finally, there is a focus on making and supporting inferences and predictions using details from the story.

#### **Functional English 1, 2, 3, 4**

2 Semesters = 1 credit

Grade: 9, 10, 11, 12

*Prerequisite: IEP Team Recommendation*

This course teaches reading comprehension, writing, vocabulary, and functional activities. Students will participate in class discussions, group work projects, improve their use of technology and will be engaged in hands-on writing manipulatives. Skills learned will be applied in community based activities.

#### **Functional Comp and Writing 1, 2, 3, 4**

2 Semesters = 1 credit

Grade: 9, 10, 11, 12

*Prerequisite: IEP Team Recommendation*

This course teaches reading comprehension, writing, vocabulary, and functional activities. Students will participate in class discussions, group work projects, improve their use of technology and will be engaged in hands-on writing manipulatives. Skills learned will be applied in community based activities.

#### **Individual English 1**

2 semesters= 1 credit

Grade 9

*Prerequisite: IEP recommendation*

This year long special education course is designed to support students as they read a variety of texts to identify key ideas, details, and structures with the goal of summarizing information and evaluating theme. Students will produce a written product using the standardized writing process.

### **Individual English II**

2 semesters=1 credit

Grade 10

Prerequisite: IEP Recommendation

This year long special education course is designed to support students as they analyze the author's attitude through various characteristics of tone. Through writing, students construct writing products using materials and sources to formulate a central idea, maintain a coherent focus, and elaborate with relevant research examples

### **Individual English III**

Credits 2 semesters=1 credit

Grade: 11

Prerequisite: IEP team Recommendation

This year long special education course is designed to support students as they analyze the author's attitude through various characteristics of tone. Through writing, students construct writing products using materials and sources to formulate a central idea, maintain a coherent focus, and elaborate with relevant research examples.

### **Individual English IV**

Credits 2 semesters=1 credit

Grade 12

Prerequisite: IEP Team Recommendation

This year long special education course is designed to support students as they interpret and analyze literary and informative texts. They will synthesize information and evidence from diverse media sources to communicate findings in various well-organized and audience appropriate formats.

### **Modern Journalism (11101A000)**

2 Semesters = 1 credit

Grade 12

This **elective** class is for students who enjoy all aspects of writing and wish to improve their writing skills and abilities. The course will incorporate many different types of writing, which includes but is not limited to: social media posting, website postings, broadcast journalism, and newspaper articles. While still including reading, the course will develop those skills, which are necessary for the writing process. These skills will focus heavily on creative development, use of literary elements, writing structure, and revision. Students who take this course will be required to submit work for publication, and they will support the Modern Media Club.

### **Reading, Writing and Comprehension Skill Building Lab (01009A000)**

1 Semester = 0.50 elective credit, 2 Semesters = 1.0 elective credit

Grade 9, 10, 11 and 12

This class will be run concurrently with English I, II, III, or IV based on teacher and/or IEP team recommendation. Students will continue to work on acquiring and improving their reading, writing and comprehension skills, using research based intervention programs with regular progress monitoring. This class will count as an elective credit, either 0.5 or 1.0 credit, based on teacher, Guidance Counselor or Case Manager/Special Education team recommendations.

### **Speech Communications (011554000) (NCAA Approved)**

1 Semester = 0.5 credit

Grade 12

In this **elective** course, the student will be able to respond thoughtfully to diverse perspectives, synthesize comments, claims, and evidence made on all sides of the issue; evaluate speaker's point of view, reasoning and use of evidence and rhetoric, assessing the stance, premises, links among ideas, word choice, points of emphasis, and tone used; present information, findings supporting evidence, conveying a clear and distinct perspective; adapt a speech to a variety of context and tasks; present the following speeches: personal anecdote, mock awards acceptance speech, informative speech, persuasive speech, impromptu speech, debate.

## English as Second Language (ESL)

### **ESL Emerging (WIDA Screener $\leq$ 2.9 Literacy) (01008A000) Open to 9-10-11-12**

1 Year = 1 Credit

Prerequisite: Placement in ESL Emerging through language screening.

This year-long course is for high school students with limited English proficiency and is intended to expand vocabulary, grammar, speaking, listening, reading, and writing skills. Students learn beginning reading and speaking skills through intensive vocabulary instruction, the application of reading strategies and critical thinking within structured discussion. Writing instruction reinforces critical thinking and also targets grammar, mechanics, sentence structure and paragraph development. This course is not approved as an NCAA course.

### **ESL Intermediate (WIDA Screener 3.0-3.9 Literacy) (01008A000) Open to 9-10-11-12**

1 year = 1 Credit

Prerequisite: Placement in ESL Intermediate through screening, teacher recommendation, or the successful completion of ESL Emerging.

This year-long course is for students ready to further develop their English proficiency and is intended to expand vocabulary, grammar, speaking, listening, reading, and writing skills. Students study vocabulary related to academic core content, apply reading strategies to increasingly complex texts, continue to practice critical thinking within structured discussion, and begin to adhere to standard writing conventions. This course is not approved as an NCAA course.

### **ESL Advanced (WIDA Screener 4.0-5.0 Literacy) (01008A000) Open to 9-10-11-12**

1 year = 1 Credit

Prerequisite: placement in ESL Advanced through screening, teacher recommendation, or the successful completion of ESL Intermediate.

This year-long course is for students who are expanding their knowledge of English expanding vocabulary, grammar, speaking, listening, reading, and writing skills. Students study vocabulary highly specific to academic core content, apply reading strategies to complex texts, expand critical thinking skills through discussion, and adhere to standard writing conventions. This course is not approved as an NCAA course.

### **English I (01001A000) (ENG103E)**

1 year = 1 Credit

This course corresponds to the skills and content taught in English 9-10 and is designed to develop the reading, writing, and oral presentation skills required for success in the mainstream classroom in all subjects and in a post secondary education setting. Students will be encouraged to further develop independence in reading literary works and academic texts, in writing essays and narratives, and applying learning strategies and research skills in preparation for the rigor of college. Students will be required to respond critically to print and media works. This course is not approved as an NCAA course.

### **English II (01002A000) (ENG203E)**

1 year = 1 Credit

This course corresponds to the skills and content taught in English 9-10 and is designed to develop the reading, writing, and oral presentation skills required for success in the mainstream classroom in all subjects and in a post secondary education setting. Students will be encouraged to further develop independence in reading literary works and academic texts, in writing essays and narratives, and applying learning strategies and research skills in preparation for the rigor of college. Students will be required to respond critically to print and media works. This course is not approved as an NCAA course.

### **English III (01003A000) (ENG303E)**

1 Year = 1 Credit

This course corresponds to the skills and content taught in English 11-12 and is designed to develop the reading, writing, and oral presentation skills required for success in the mainstream classroom in all subjects and in a college setting. Students will be encouraged to further develop independence in reading literary works and academic texts, in writing essays and narratives, and applying learning strategies and research skills in

preparation for the rigor of college. Students will be required to respond critically to print and media works. This course is not approved as an NCAA course.

**English IV (01102A000) (ENG423E)**

1 Year = 1 Credit

This course corresponds to the skills and content taught in English 11-12 and is designed to develop the reading, writing, and oral presentation skills required for success in the mainstream classroom in all subjects and in a post secondary education setting. Students will be encouraged to further develop independence in reading literary works and academic texts, in writing essays and narratives, and applying learning strategies and research skills in preparation for the rigor of college. Students will be required to respond critically to print and media works. This course is not approved as an NCAA course.

**Math Department Flow Chart (3 Credits Required; 4 Credits Recommended)**

\*Students must earn credits in Algebra 1, Geometry, and Algebra 2 in order to graduate

Freshman	Sophomore	Junior	Senior
Algebra I	Geometry (H)	Algebra II (H)	AP Statistics
Geometry (H)	Algebra II (H)	Probability of Statistics	AP Calculus AB
Algebra II (H)	Probability of Statistics	Pre-Calculus	AP Calculus BC
	Pre-Calculus	AP Calculus AB	Pre-Calculus
		AP Statistics	Probability of Statistics
			College Prep Math

**Math Courses**

*Scientific calculators are required for all courses – (The T1-30 is recommended)*

**Algebra I (02052A000) (NCAA Approved)**

2 Semesters = 1 credit

This beginning course in Algebra is designed to take students well versed in basic math and introduce them to such concepts as real number operations, solving & graphing linear and quadratic equations, rational expressions, polynomials, powers and roots, and practical applications of all of the above. Students successfully completing this course will be ready for Geometry and Algebra II. Objectives are to develop good study habits, abstract thinking, and the ability to work problems in logical sequential order and become prepared for other math and science courses. *Required materials include a T1-30 calculator.*

**Algebra II (02056A000) (NCAA Approved)**

2 Semesters = 1 credit

Prerequisite: Geometry or Geometry Honors

This class reviews many of the topics of Algebra I, such as solving equations, graphing, factoring, and problem solving however, this class goes much further, exploring systems of equations, exponents, graphing quadratic equations, and real world problem-solving. Logarithms, complex numbers, and matrices will be explored as a means of solving problems involving such concepts as population growth, and compound interest. We will complete a course similar to a college level Algebra course. This class will significantly enhance a student's chance to score well on both the ACT and SAT exams. *Required materials include a scientific calculator.*

### **Algebra II Honors (02056A000) (NCAA Approved)**

2 Semesters = 1 credit

Prerequisite: Geometry or Geometry Honors

This is a **weighted** course. It will explore the same topics and curriculum as the standard Algebra II course, but will place further emphasis on problem-solving and test-taking strategies. This course will ultimately lead to a four-year math cycle that will culminate in the student's ability to take an Advanced Placement Calculus course. *Required materials include a scientific calculator.*

### **AP Calculus – AB (02124A000) (NCAA Approved)**

2 Semesters = 1 credit

Prerequisite: Pre-calculus

This is a **weighted** course. It is a standard first-semester college calculus course. The students will learn the techniques, concepts and applications of limits, differentiation and integration. These concepts will be studied graphically, analytically, numerically and verbally. **Students are expected to take the Advanced Placement exam.** *Required materials include a graphing calculator.*

### **AP Calculus - BC (02125A000) (NCAA Approved)**

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AB to different types of equations and introduces the topic of sequences and series. This course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. You will learn how to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations.

### **AP Statistics (02203A000) (NCAA Approved)**

2 semesters = 1 credit

Prerequisite: Algebra II

This is a **weighted** course. This full year course will introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data--describing patterns and departures from patterns; Sampling and Experimentation--planning and conducting a study; Anticipating Patterns--exploring random phenomena using probability and simulation; and Statistical Inference--estimating population parameters and testing hypotheses. Students who successfully complete this course and the AP exam may receive college credit or advanced placement in statistics at the college level. **Students are expected to take the Advanced Placement exam.**

### **Foundations of Math 1, 2, 3, 4**

2 Semesters = 1 credit

Grade: 9, 10, 11, 12

Prerequisite: IEP Team Recommendation

This course is designed to provide foundations in essential math skills. Some of the topics include place value, basic operations, rounding, basic geometry, problem solving, decimals, fractions and pre-algebra concepts. Instruction is individualized as needed.

### **Functional Math 1, 2, 3, 4**

2 Semesters = 1 credit

Grade: 9, 10, 11, 12

Prerequisite: IEP Team Recommendation

The students will develop basic math skills to allow independent functioning in the community. The course will be designed to meet the goals of the student's individual education plan. Areas of concentration will include basic computation skills, measurement skills and time and money concepts.

This course emphasizes transition-based consumer and basic math skills. Skills will include money/budgeting, time, patterns, and number concepts. The students will learn skills that will functionally assist them with math in the workplace, math at home, and math to be used while shopping.

### **Geometry (02071A000) (NCAA Approved)**

2 Semesters = 1 credit

Prerequisite: Algebra I

Geometry covers the study and measurement of segments, lines, and shapes. It also involves the study of 2 and 3 dimensional figures, calculating segment lengths, angle measures, as well as areas and volumes. Emphasis is placed on real-life problem solving, as well as developing a logical approach to problem solving. This class will prepare the student to take trigonometry or pre-calculus. *Required materials include a T1-30 calculator, a compass, and a protractor.*

### **Geometry Honors (02072A000) (NCAA Approved)**

2 Semesters = 1 credit

Prerequisite: Algebra I

This is a **weighted** course. It will explore the same topics and curriculum as the standard Geometry course, but will place further emphasis on problem-solving and test-taking strategies. This course will ultimately lead to a four-year math cycle that will culminate in the student's ability to take an Advanced Placement Calculus course. *Required materials include a T1-30 calculator.*

### **Individual Geometry**

2 Semesters = 1 credit

**Placement determined by IEP team**

This course focuses on the following state goals: #6 Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division, patterns, ratios, and proportions). Topics include basic computation, measuring, fractions, decimals, ratios, percents, calculations, word problems, pre-algebra and geometry concepts, and practical applications for math in the work place.

### **Individual Advanced Algebra**

2 Semesters = 1 credit

**Placement determined by IEP team**

This course focuses on the following state goals: #6 Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division, patterns, ratios, and proportions). Topics include basic computation, measuring, fractions, decimals, ratios, percents, calculations, word problems, pre-algebra and geometry concepts, and practical applications for math in the work place. Review of Algebra topics (solving equations and word problems, graphing and writing linear equations of a line), this course involves solving systems of linear equations and inequalities, exponent rules, simplifying polynomials, factoring, quadratic equations, and introduction to trigonometry topics.

### **Math Skills Lab (02999A000)**

1 or 2 Semester(s) = 0.50 or 1.0 elective credit

This course is designed to provide additional support and practice for the Algebra I course. Hands-on and traditional activities, methods, and techniques will challenge students to apply concepts learned in the Algebra I course. This class must be taken concurrently with another math class. Placement based on recommendation from teachers, guidance counselor, special education team or case manager.

### **Pre-Calculus (02110A000) (NCAA Approved)**

2 Semesters = 1 credit

Prerequisite: Algebra II or Algebra II Honors

This is a **weighted** course. In-depth techniques and applications are used to prepare students for more advanced course work. Technology is used as a facilitating tool to integrate and explore mathematical concepts. A scientific calculator is required (TI 83+ or a TI 84+ graphing calculator is recommended).

### **Probability and Statistics (02201A000)**

2 Semesters = 1 credit

This class is being offered to students who have successfully completed their high school math requirement of three credits but wish to continue their mathematics education. The course will include an introduction to the study of probability, problem solving through the use of statistical analysis, and gathering and interpreting data. Topics covered

include data classification, measures of central tendency, probability distributions, confidence intervals, and hypothesis testing. The students will be expected to gather, explore, and analyze data so that they may draw conclusions based on their analysis.

**College Prep Math: Quantitative Literacy and Statistics (02201A001)**

Grade 12

2 semesters = 1 credit

Prerequisite: Credit in any level of Algebra I, Geometry, and Algebra II

Math course framework designed to prepare and transition students directly into college and career pathways requiring general education college level math competencies in quantitative literacy and statistics. The competencies within each domain should include, but are not limited to: numeracy (operation sense, estimation, measurement, quantitative reasoning, basic statistics, and mathematical summaries), application based algebraic topics, and functions and modeling. Upon completion students should be able to: demonstrate proficiency and understanding in basic numeracy competencies in whole numbers, integers, fractions, and decimals, use estimation and explain/justify estimates, apply quantitative reasoning to solve problems involving quantities or rates, use mathematical summaries of data such as mean, median, and mode, use and apply algebraic reasoning as one of multiple problem-solving tools, and use functions and modeling processes. Course to be delivered through authentic application, problem based instruction designed to build mathematical conceptual understanding and critical thinking skills.

**Science Department Flow Chart (3 Credits Required; 4 Credits Recommended)**

Freshman	Sophomore	Junior	Senior
Biology (H)	Chemistry (H)	Physics	Physics or AP Physics
		Forensic Science	Forensic Science
		AP Physics	AP Biology
		AP Chemistry	AP Chemistry
		AP Biology	Anatomy and Physiology

**Science Courses**

**Anatomy & Physiology (03054A000) (NCAA Approved)**

2 Semesters = 1 credit

All major body systems will be studied in detail. Dissections and other labs are a large part of this course. This course is an excellent foundation for college-level anatomy coursework. This course is strongly recommended for students considering health and/or life science occupations including physical and occupational therapy, sports medicine, physical trainers, nursing, coaching, etc.

**AP Biology (03056A000) (NCAA Approved)**

2 Semesters = 1 credit

This **weighted** course parallels a college freshman Biology course and depending on the student's score on the College Board AP Exam at the end of the year, could count as college credit (check with the college you plan to attend). This course is fast-paced, challenging, and intended for college-bound students. Emphasis will be on the four big ideas found in the AP Biology framework created by the College Board. Students who

successfully complete this course and the AP exam may receive college credit or advanced placement in biology at the college level. **Students are expected to take the Advanced Placement exam.**

### **AP Chemistry (03106A000) (NCAA Approved)**

2 Semesters = 1 credit

This **weighted** course parallels a college freshman Chemistry course and depending on the student's score on the College Board AP Exam at the end of the year, could count as college credit (check with the college you plan to attend). This course is fast-paced, challenging, and intended for college-bound students. Emphasis in chemical concepts including scientific method and measurement, basic chemical principles, language of chemistry, knowledge of chemical reactions and change of state, as well as mathematical concepts that apply, throughout the course. Students who successfully complete this course and the AP exam may receive college credit or advanced placement in chemistry at the college level. **Students are expected to take the Advanced Placement exam.**

### **AP Physics (03163A000) (NCAA Approved)**

2 Semesters = 1 credit

Prerequisite: successful completion of or concurrent enrollment in Algebra II, Algebra II Honors or Pre-Calculus

This **weighted** course focuses on the big ideas typically included in the first semester of an algebra-based, introductory college-level physics sequence and provides students with enduring understandings to support future advanced course work in the sciences. Through inquiry-based learning, students will develop critical thinking and reasoning skills, as defined by the AP Science Practices. Students will cultivate their understanding of physics and science practices as they explore various topics including kinematics, dynamics, harmonic motion, electrostatics, mechanical waves and sound and more. Students who successfully complete this course and the AP exam may receive college credit or advanced placement in physics at the college level. **Students are expected to take the Advanced Placement exam.**

### **Biology (03051A000) (NCAA Approved)**

2 Semesters = 1 credit

This is an introductory course in the biological sciences. It focuses on biology content, while improving problem solving and lab skills. Topics include scientific method, organization of life, genetics, DNA replication, protein synthesis, ecology, evolution, and taxonomy.

### **Biology Honors (03052A000) (NCAA Approved)**

2 Semesters = 1 credit

Biology Honors is a **weighted** class. This course is more in-depth, is taught at faster pace, and includes more projects. This is an introductory course in the biological sciences. It focuses on biology content, while improving problem solving and lab skills. Topics include scientific method, organization of life, cell division, genetics, DNA replication, protein synthesis, biochemistry, ecology, evolution, and taxonomy.

### **Chemistry (03101A000) (NCAA Approved)**

2 Semesters = 1 credit

Chemistry is an introductory course in chemical concepts including scientific method and measurement, basic chemical principles, language of chemistry, knowledge of chemical reactions and change of state, as well as mathematical concepts that apply throughout the course. This course will provide a foundation for college chemistry coursework and other related courses. **Students need a scientific calculator.**

### **Chemistry Honors (03102A000) (NCAA Approved)**

2 Semesters = 1 credit

Chemistry Honors is a **weighted** class designed for students who can handle a more in-depth approach and faster pace of instruction. Chemistry Honors is an introductory course in chemical concepts including scientific method and measurement, basic chemical principles, language of chemistry, knowledge of chemical reactions and change of state, as well as mathematical concepts that apply throughout the course. This course will provide a foundation for college chemistry coursework and other related courses. **Students need a scientific calculator.**

### **Forensic Science (22999A000) (NCAA Approved)**

1 semester = .5 credit

### **Prerequisite: Biology and Chemistry**

This course will be a lab-based, hands-on course. It involves components from all of the sciences, especially anatomy, biology, chemistry, and physics. It teaches students to use critical thinking, deductive reasoning, laboratory techniques and problem-solving skills and apply them to real-life situations and criminal law cases. This course will focus on the collection and analysis of crime scene evidence (such as serology, fingerprinting, document forgery, ballistics and trace evidence) and explore lab analysis techniques (such as chromatography, fingerprinting, and hair and footprint analysis). The students will be required to clearly and concisely explain the results of labs and techniques used, as well as explain the significance of the results in lab reports. By the end of this course, students will be able to: 1) Determine and perform the most appropriate method of testing samples while obtaining the most accurate results; 2) Evaluate the scientific accuracy of various fields of forensic science; and 3) Predict and appropriately communicate the results of evidence collection and evaluation.

### **Introduction to Earth Science (Ind.) (03001A000)**

2 Semesters = 1 credit

Prerequisite: IEP Team Recommendation

Earth Science is a hands-on laboratory science course in which students collect and interpret real-time data to study major earth systems. Specific topics include geology, plate tectonics, earth history, astronomy, meteorology, and oceanography. Problem solving and critical thinking are utilized to gain an understanding of events happening in the real world. This laboratory-oriented course prepares students for further coursework in chemistry, physics, and earth science.

### **Individual Physical Science**

2 Semesters = 1 credit

Prerequisite: IEP Team Recommendation

This is a year-long special education class, which focuses on scientific methodology, the role of science in society, and the basic principles of chemical, physical and earth sciences. This course will include laboratory work. Instruction is individualized as needed.

### **Foundations of Biology**

2 Semesters = 1 credit

Grade: 9, 10, 11, or 12

Prerequisite: IEP Team Recommendation

This course focuses on the study of life. This is a year-long course that will examine the chemistry of life, the biosphere, populations, cell structure and function, DNA and inheritance, evolution and classification. Emphasis is placed on scientific methodology. Recurring themes include ecology, genetics and evolution. Instruction is individualized as needed. This class can be taken once for credit.

### **Foundations of Physical Science**

2 Semesters = 1 credit

Grade: 9, 10, 11, or 12

Prerequisite: IEP Team Recommendation

This course focuses on scientific methodology, the role of science in society and the basic principles of chemical, physical and earth sciences. Instruction is individualized as needed. This class can be taken once for credit.

### **Foundations of Earth Science**

2 Semesters = 1 credit

Grade: 9, 10, 11, or 12

Prerequisite: IEP Team Recommendation

This course focuses on the physical constitution of earth and its atmosphere. Instruction is individualized as needed. This class can be taken once for credit.

### **Functional Science / Home Management 1, 2, 3, 4**

2 Semesters = 1 credit

Grade(s): 9, 10, 11, 12

Prerequisite: IEP Team Recommendation

This course is designed to increase understanding of topics by using scientific reasoning and practice. This program will allow practical application of the skills taught in the classroom through community-based experiences. The community trips will access the community to promote the development of recreational and daily living skills.

**Physics (03151A000) (NCAA Approved)**

2 Semesters = 1 credit

Prerequisite: successful completion of or concurrent enrollment in Algebra II or Algebra II Honors

Physics is a class that focuses on the study of matter and energy through hands-on laboratory activities and lecture. This course offers an overview of scientific method, mechanics, heat, sound, light, electricity and magnetism. Trigonometry principles will be used in this class. **Students need a scientific calculator**

**Social Sciences Flow Chart**

Freshman	Sophomore	Junior	Senior
Human Geography	World History	US History	Government
AP Human Geography	AP World History	AP US History	AP Government and Politics
		Electives • AP Psychology	Electives • AP Psychology • AP US History • Intro. to Psych (.5) • Sociology (.5)

**Social Sciences Courses**

**AP Government and Politics – U.S. (04157A000) (NCAA Approved)**

2 Semester = 1.0 credit

This **weighted** course parallels a college freshman U.S. Government and Politics course and depending on the student's score on the College Board AP Exam at the end of the year, could count as college credit (check with the college you plan to attend). In this class, we will discuss our American government and all its components. Topics such as the three branches of government, origins and early forms of U.S. government, landmark Supreme Court rulings, and current political events will be covered. The student will also have to take and pass the U.S. Constitution and Illinois Constitution exams in order to graduate. **Students will be expected to take the Advanced Placement Examination. Five hours of community service are required for successful completion of this class. This course fulfills a graduation requirement.**

**AP Human Geography (04004A000) (NCAA Approved)**

2 Semesters = 1.0 credit

This **weighted** course parallels a college freshman Human Geography course and depending on the student's score on the College Board AP Exam at the end of the year, could count as college credit (check with the college you plan to attend). In this course students will study the world's physical features, how they blend with social systems, and affect economics, politics, and human interaction. Students will also use map/charts to analyze historical documents. Students will learn the countries of the world and how countries interact with each other. **Students will be expected to take the Advanced Placement Examination.**

### **AP Psychology (04256A000) (NCAA Approved)**

2 Semesters = 1.0 credit

This **weighted** course parallels a college freshman Psychology course and depending on the student's score on the College Board AP Exam at the end of the year, could count as college credit (check with the college you plan to attend). In this class, we will discuss Psychology and all its components. ***Students will be expected to take the Advanced Placement Examination. Five hours of community service are required for successful completion of this class.***

### **AP U.S. History (04104A000) (NCAA Approved)**

2 Semesters = 1 credit

This **weighted** course parallels a college freshman U.S. History course and depending on the student's score on the College Board AP Exam at the end of the year, could count as college credit (check with the college you plan to attend). This class helps students understand major themes that have made the U.S. a world leader today. This class will investigate the social aspects of various time periods, developing an understanding of how these time periods were a reflection of the past and how they affected the immediate future. ***Students will be expected to take the Advanced Placement Examination. This course fulfills a graduation requirement.***

### **AP World History (04057A000) (NCAA Approved)**

2 semesters = 1.0 credit

This **weighted** course parallels a college freshman World History course and depending on the student's score on the College Board AP Exam at the end of the year, could count as college credit (check with the college you plan to attend). AP World History is structured around the investigation of key course themes and concepts in six different chronological periods, from 8000 B.C.E. to the present, emphasizing the development of historical thinking skills. ***Students will be expected to take the Advanced Placement Examination.***

### **Foundations of Human Geography**

2 Semesters = 1 credit

Grade: 9, 10, 11, or 12

Prerequisite: IEP Team Recommendation

This course focuses on the study of places and the relationships between people and their environments. Instruction is individualized as needed.

This class can be taken once for credit.

### **Foundations of World History**

Credits 2 semesters=1 credit

Grades 9, 10, 11, 12

Prerequisite IEP Team Recommendation

This class begins with the origins of human life before written history and proceeds to the fall of the Roman Empire. Important topics will include early civilizations, first empires, influence of Greece and Rome in our society, and the spread of Christianity.. This class focuses on the period from the Middle Ages until recent world history, including the Cold War and terrorism. We will also discuss the early inhabitants at the Americas, Exploration, French and Russian Revolutions, Industrial Revolution, Imperialism, and the World Wars Instruction is individualized as needed

### **Foundations of US History**

Credits 2 semester=1 credit

Grades 9, 10, 11, 12

Prerequisite IEP Team Recommendation

This course reviews the founding of the nation, the history of our Presidents, and studies major historical events as they relate to America's past and present. Students will be expected to produce projects and assignments, which demonstrate understanding through the use of texts, supplemental materials and teacher-generated curriculum. Instruction is individualized as needed.

### **Foundations of Government**

Credits 1 semester-.5 credit

Grades 9, 10, 11, 12

Prerequisite IEP Team Recommendation

This course studies the executive, legislative and judicial branches of government at the Federal, State and Local levels. Students will gain an understanding of their country's legal system, as well as the rights and responsibilities of a citizen of the United States and the State of Illinois during the semester. Students will be expected to pass the required tests on the U.S. Constitution, Illinois Constitution, as well as show an understanding of the Declaration of Independence and Flag Codes through projects with the use of supplemental materials and teacher-generated curriculum. Instruction is individualized as needed.

### **Functional History / Community 1, 2, 3, 4**

2 Semesters = 1 credit

Grade: 9, 10, 11, 12

Prerequisite: IEP Team Recommendation

This course is designed to increase awareness of the local community, state, nation, and world; discuss current events; research topics of interests; and increase understanding of the functions of government. This program will allow practical application of the skills taught in the classroom through community-based experiences. The community trips will access the community to promote the development of recreational and daily living skills.

### **Human Geography (04049A000) (NCAA Approved)**

2 semesters = 1.0 credit

Human Geography is a course to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and application

### **Introduction to Psychology (04254A000)**

1 Semester = 0.50 credit

The course helps students better understand their own behavior, the behavior of others, and the ways in which conditions influence human behavior. Students are introduced to career opportunities in psychology. Students also examine the ways that brain chemistry and structures influence behavioral conditions such as aggression, stress, sleep, and others. Furthermore, students examine the journey of personal development from the early childhood years through the teenage years. Students will also be taught the processes involved in learning, with emphasis on classical and operant conditioning. In addition, students examine the process of personality development and the ways in which personalities are measured and tested. Students also examine the conditions and treatments of multiple personality disorders and the autism spectrum. Lastly, students learn the procedures used to conduct psychological experiments

### **Sociology (04258A000) (NCAA Approved)**

1 Semester = 0.50 credit

Sociology is the study of human relationships. In this course we will discuss multiple topics including racism, discrimination, family matters, violence in America, disabilities, and religion. Comprehension of material is measured through discussion, cooperative learning projects, and hands-on activities.

### **U.S. Government (04161A000) (NCAA Approved)**

1 Semester = 0.50 credit

In this class, we will discuss our American government and all its components. Topics such as the three branches of government, origins and early forms of U.S. government, landmark Supreme Court rulings, and current political events will be covered. The student will also have to take and pass the U.S. Constitution and Illinois Constitution exams in order to graduate. **Five hours of community service are required for successful completion of this class. This course is required to graduate.**

### **U.S. History (04101A000) (NCAA Approved)**

2 Semesters = 1 credit

This is a year-long course covering the colonization through World War II. Students will be required to complete numerous activities including tests and group projects. Students will be required to write a detailed research paper. **This course is required to graduate.**

## **World History (04049A000) (NCAA Approved)**

2 Semester = 1.0 credit

This class begins with the origins of human life before written history and proceeds to the fall of the Roman Empire. Important topics will include early civilizations, first empires, influence of Greece and Rome in our society, and the spread of Christianity. Students will be introduced to map/chart reading, political systems, and governments. This class focuses on the period from the Middle Ages until recent world history, including the Cold War and terrorism. We will also discuss the early inhabitants at the Americas, Exploration, French and Russian Revolutions, Industrial Revolution, Imperialism, and the World Wars. Students will be introduced to map/chart reading and political systems and governments.

## **Physical Education - Health - Driver Education**

### **Athletic Strength and Conditioning I**

This course is designed to teach students who are in sports the proper etiquette, protocol, form, and technique in a weight room or agility training setting. Students will learn the basics of the weight room and focus on building a base for understanding of and performance of lifts important to their sport. After an introductory unit, students will work through a sport specific program that will continue on to Athletic Strength and Conditioning II.

### **Athletic Strength and Conditioning II**

Prerequisite: Athletic Strength and Conditioning I

This course is designed to continue the education and progress made in Athletic Strength and Conditioning I. The knowledge gained from the previous course should lead to a higher level of success with proper etiquette, protocol, form, and technique in a weight room or agility training setting. Students will strengthen their mastery of weight room basics and increase the base for understanding of and performance of lifts important to their sport. Students will conduct research about goal setting in the weight room, and create a plan to reach those goals by the end of their high school career. This course will feature sport specific training.

### **Athletic Strength and Conditioning III**

Prerequisite: Strength and Conditioning II

This course is designed to continue the education and progress made in Athletic Strength and Conditioning II. The knowledge gained from the previous course should lead to a higher level of success with proper etiquette, protocol, form, and technique in a weight room or agility training setting. Students will strengthen their mastery of weight room basics and increase the base for understanding of and performance of lifts important to their sport. Students in this course will also begin to understand the basics of planning a workout program, a skill that will help them be healthy for the rest of their lives. This course will feature sport specific training.

### **Athletic Strength and Conditioning IV**

Prerequisite: Athletic Strength and Conditioning III

This course is designed to continue the education and progress made in Athletic Strength and Conditioning III and prepare senior athletes for the demands of a collegiate strength and conditioning. In this course, students will see the final product of work over their 4 years in this course. They will revisit goals and the plan that was created their sophomore year, and self-evaluate their performance, determining factors that lead to improvement or lack of improvement. They will also have opportunities to research careers in strength and conditioning, and become familiar with the National Strength and Conditioning Association and their work in this field.

## **Collaborative PE (08007A000)**

2 Semesters = 1 credit

**Prerequisite: Teacher Recommendation**

*Grade 10-12*

A physical education program in which teaching methods are designed to meet the unique needs of any individual student. It is a cooperative program in which emphasis is placed on increasing the students' skill movement, increasing their current fitness levels, and encouraging and promoting a more active lifestyle. This course is designed for a small group atmosphere. The smaller class sizes will enable the instructor to make appropriate individual adaptations. Students

will also work closely with their peers. A cooperative/leadership program is established for an increased learning experience for all students.

### **Driver Education (08152A000)**

1 Semester = 0.50 credit

**Prerequisite: Passing grade in 8 courses during previous 2 semesters including 2 semesters of PE**  
**Grade 10**

The first phase of this course is to provide educational experience to give students the skills, knowledge, and proper attitudes necessary for the efficient and safe operation of the motor vehicle. Phase two gives each student behind-the-wheel driving experience in a dual control automobile. Students receive a maximum of 6 hours driving practice. **Attendance is mandatory.** Excessive absences may result in a student failing the class. *This course must be taken in conjunction with a 0.5 PE course. **This course is a graduation requirement.***

**Fee: A fee will be charged for Driver's Ed and must be paid before students begin the class.**

### **Fitness Physical Education (08005A000)**

1 or 2 Semesters = 0.5 or 1 credit

**Grade 10-12**

This is an alternate choice of PE for fitness driven individuals. This course is focused on the principles of fitness (Cardio-respiratory, flexibility, strength, endurance and body composition). Student will progress in all forms of fitness. Attaining individual fitness goals throughout the semester will be emphasized. This course will focus on alternative forms of fitness including but not limited to yoga, aerobics, muscle toning as well as other current fitness trends.

### **Health (08051A000)**

1 Semester = 0.50 credit

**Grade 10**

The physical, social, mental/emotional health of human beings is studied in this one semester required course. The structure and systems of the body, infectious and lifestyle diseases, mental disorders, aspects of fitness, hazards of substance abuse, nutrition information, and decision-making are among the topics covered. **This course is required to graduate.**

### **Introduction to Physical Education (08001A000)**

2 Semesters = 1.0 credit

**Grade 9**

This course introduces concepts for personal development in health-related fitness and physical skills. These include cardiovascular exercise, body composition, strength, endurance, and flexibility, which will be the basis for the four-year physical education program. This course focuses on introducing the foundation for health education, rules of the games and activities, basic health concepts, and basic resistant training techniques. Student must be physically cleared for physical activity.

### **Physical Education (08001A000)**

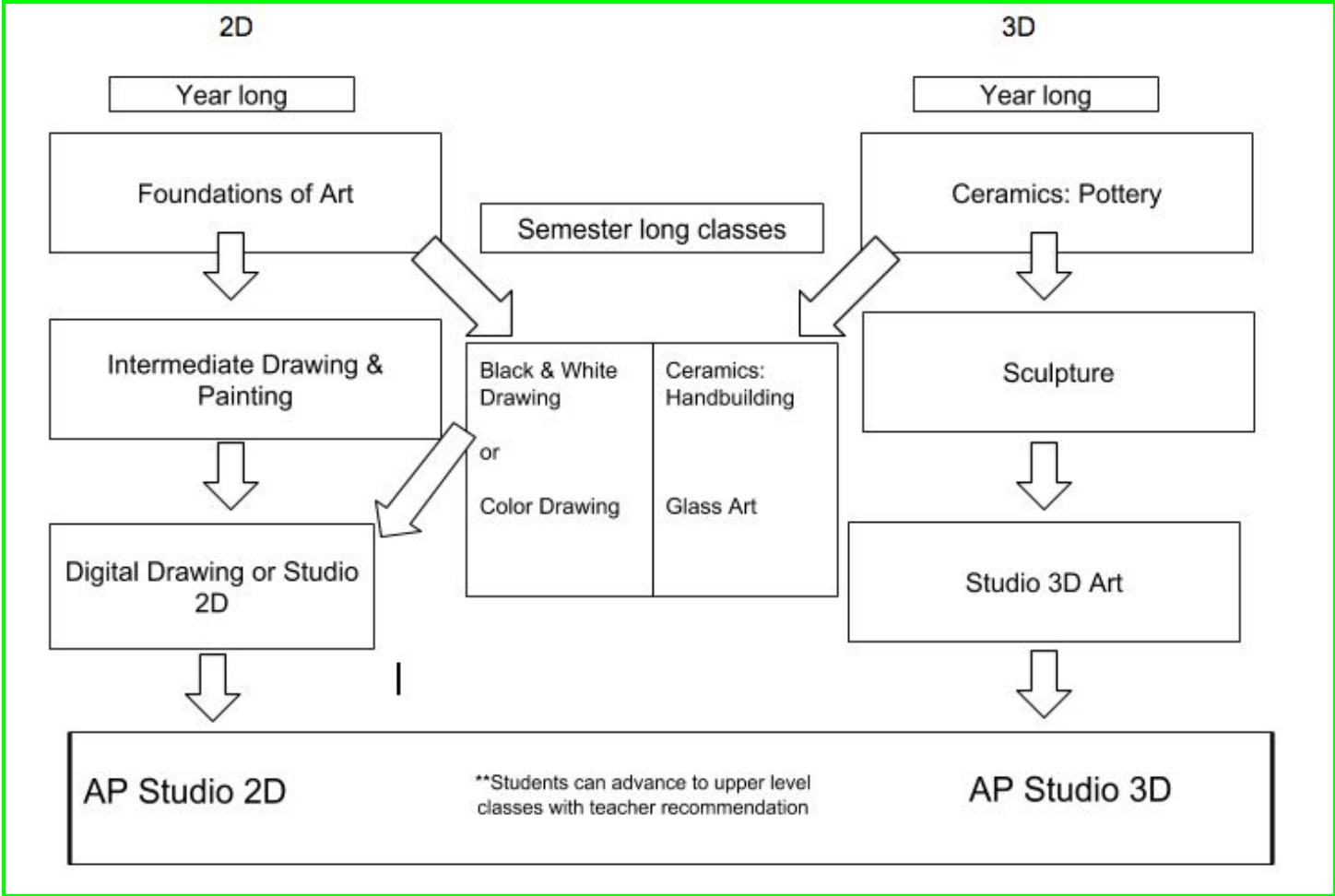
1 or 2 Semesters = 0.5 or 1 credit

**Grade 10-12**

Physical education is required by the State of Illinois. It is the goal of the Physical Education Department that our students gain a knowledge and appreciation of the worth of physical fitness that will contribute to an individual's quality of life. By offering a variety of team and individual recreational sports activities, we hope to encourage carryover into participation as an adult. Activities are designed to allow group interaction to enhance the social and emotional development of the students. *Requirements include participation and PE uniform.*

**Fine Arts**  
**Art – Foreign Language – Music – Theater**

**ART**



**AP Studio: 2D Design (05174A000)**

2 Semesters = 1 credit

Prerequisite: Successful completion of Foundations of Art and Studio Art

The AP Studio Art course is for students interested in a rigorous and focused study in art. Students will develop a quality portfolio that demonstrates a mastery of concept, composition and execution in 2D design. This course is based on a student creating a body of work that demonstrates quality, concentration and breadth. This portfolio will be submitted to the College Board for college credit. The course will meet for a full year on the academic model (8 meetings every two weeks.) As in any college level course students will be expected to spend a considerable amount of time outside of class in order to complete assignments and doing homework and sketchbook assignments.

### **AP Studio: 3D Design (05175A000)**

2 Semesters = 1 credit

Designed for students with a serious interest in art, AP Studio Art: 3-D Design courses enable students to refine their skills and create artistic works to be submitted to the College Board for evaluation. Given the nature of the AP evaluation, the courses typically emphasize quality of work, attention to and exploration of a particular visual interest or problem, and breadth of experience in the formal, technical, and expressive aspects of the student's art. AP Studio Art: 2-D Design Portfolio is a three-dimensional Advanced Placement Studio Art course that holds many similarities to the AP Studio Art 2D course. The course deals with three-dimensional artistic applications such as metalworking, sculpture, model, and ceramics. Like AP Studio Art 2D, the focus on the design of the artwork itself as opposed to its composition.

### **Ceramics: Handbuilding (05159A000)**

1 Semester = .5 credit

*Prerequisite: Foundations of Art*

Students will explore the creative medium of clay, clay sculpture, and the ceramic arts. As they learn and develop various hand building skills, students will be challenged to create various 2-D and 3-D ceramic artworks. Projects will include decorative and functional ceramic pieces, while also providing room for creative freedom to produce personal works of ceramic art. Decoration techniques including staining, painting, under glazing, and glazing will be included as well.

### **Ceramics: Pottery (05159A000)**

2 Semesters = 1 credit

*Prerequisite: Foundations of Art*

Students will explore the medium of clay and pottery. As they learn and develop various hand building and wheel throwing skills, students will be challenged to create various 3-D ceramic artworks. Projects will include decorative and functional ceramic pieces, while also providing room for creative freedom to produce personal works of ceramic art. Decoration techniques including staining, painting, under glazing, and glazing will be included as well. The student's only required material is a sketchbook.

### **Intermediate Drawing & Painting (05155A000)**

2 Semesters = 1 credit

*Prerequisite: Foundations of Art*

This is an intermediate course for those who want to improve their artistic skills and techniques as well as broaden their knowledge with a focus on drawing and painting. The course will explore the understanding of anatomy in the arts, still-life, portraits, landscapes, cartoon/comics, and illustration. Drawing media include pencil, graphite, oil pastels, soft pastels, conte-crayon, and charcoal. Paintings may include oils, acrylics, tempera, and watercolors. Art history/Artist studies will be included in this course. **This course is required in order to be eligible for 2-D Studio-Portfolio recommendation. Sketchbook, kneaded eraser, and pencils are recommended.**

### **Black and White Drawing (05156A000)**

1 Semester = .5 credit

*Prerequisite: Foundations of Art*

This is an intermediate course that focuses on the study of drawing techniques using black and white media. The course is designed to develop the skill of drawing using pencil, charcoal, marker, conte' crayon, and ink. The course will focus on the following subjects: portraits, anatomy, architecture, comics, concept art, still-life, and life drawing. Sketchbooks are recommended.

### **Color Drawing (05156A000)**

1 Semester = .5 credit

*Prerequisite: Foundations of Art*

This is an intermediate course that focuses on the use of color and mixed media in art. The course is designed to develop the skill of drawing and painting with the use of color and various media. Drawing and painting media will include colored pencil, marker, chalk, oil pastel, soft pastel, paint, and conte' crayon. This course will focus on the following subjects: Cartooning, landscape art, botanical art, old master painting, and mixed media projects.

### **Digital Drawing (based on iPad Pro/Apple Pencil Grant \$\$) (05199A000)**

2 Semester = 1 credit

*Prerequisite: Completion of Foundations and any Intermediate Course*

#### **Teacher Recommendation Required**

This is an advanced course that focuses on digital drawing using an iPad Pro/Apple Pencil. The course is designed to develop the skill of drawing and painting digitally using a program called Procreate. The iPad allows artists the ability to use hundreds of various media in a digital studio. Students must complete Foundations of art and Intermediate to be considered for this course. Teacher recommendation is preferred.

### **Foundations of Art (05154A000)**

2 Semesters = 1 credit

This class is intended for any student who has an interest in hands-on art and wants to explore a variety of art mediums and techniques. Two and three-dimensional art experiences will include drawing, painting, art history, and sculpture. Individual artists will be studied independently, by each student. Students will be introduced to the Elements of Art, and will also cover the Principles of Design. This class is the prerequisite for most other art classes. **A sketchbook, kneaded eraser, and pencils are required.**

### **Glass Arts (05999A000 )**

1 Semester = .5 credit

Students will focus on the art of glass by creating a variety of works. Throughout the course, students will create glass mosaics, stained glass works and smaller sculptures. Students will be challenged to use their own interests to establish various works.

### **Sculpture (05158A000)**

2 Semester = 1 credit

*Prerequisite: Foundations of Art*

Students will be introduced to three-dimensional artwork and will explore a continuous discussion about sculpture art. Contemporary and classic sculpture artists will be studied and students will use these artists, and their own interests, as inspirations to create their own sculptural works of art. Various forms of creating sculpture art through projects, including plaster and wax casting, paper mache, clay sculpture, wire, paper, foam, plastic, and found objects. Throughout the course, students will build their sculpture making skills and gain an understanding of the difference between 2-D and 3-D art, as well as form, and elements of art can be utilized to create a successful sculpture.

### **Studio 2-D Art (05170A000)**

2 Semesters = 1.0 credit

*Prerequisite: Successful completion of Intermediate Drawing & Painting AND teacher recommendation*

This is a **weighted** course. Studio is a yearlong class, which involves independent study in an area chosen by the student and teacher. This class is recommended for the self-motivated student. A sketchbook must be kept by the student recording use of time in and out of class. Creativity and drive is necessary for acceptance into this class. Student will develop a total of 2 Professional Portfolios throughout the duration of this course. Independent art history/inspiration research is required.

### **Studio 3-D Art (05170A000)**

2 Semesters = 1.0 credit

*Prerequisite: Successful completion of Ceramic Arts AND teacher recommendation*

This is a **weighted** course. Studio is a yearlong class, which involves independent study in an area chosen by the student and teacher. This class is recommended for the self-motivated student. A sketchbook must be kept by the student recording use of time in and out of class. Creativity and drive is necessary for acceptance into this class. Student will develop a total of 2 Professional Portfolios throughout the duration of this course. Independent art history/inspiration research is required.

## Foreign Language

Freshman	Sophomore	Junior	Senior
Spanish I	Spanish II	Spanish III	Spanish IV (H)
Heritage Speakers I	Heritage Speakers II	AP Spanish Language	AP Spanish Language
			AP Spanish Literature

\*Initial level is determined by placement test results

### **AP Spanish Language and Culture (06112A000) (NCAA Approved)**

2 Semesters = 1 credit

This **weighted course** is designed to provide advanced high school students with a rich and rigorous opportunity to study the language and culture of the Spanish-speaking world and is equivalent to a college Spanish course. This course takes a holistic approach to language proficiency. The AP Spanish Language and Culture course strives to promote both fluency and accuracy in language use and not to overemphasize grammatical accuracy at the expense of communication. In order to best facilitate the study of language and culture, the course is taught in Spanish. **Students will be expected to take the Advanced Placement Examination.**

### **AP Spanish Literature and Culture (06113A000) (NCAA Approved)**

2 Semesters = 1 credit

This **weighted course** is designed to provide advanced high school students with a rich and rigorous opportunity to study the language and culture of the Spanish-speaking world and is equivalent to a college Spanish course. This course takes a holistic approach to language and literature. The AP Spanish Literature and Culture course strives to promote both fluency and comprehension in Spanish Literature. In order to best facilitate the study of literature and culture, the course is taught in Spanish. **Students will be expected to take the Advanced Placement Examination.**

### **Heritage Speakers I (06106A000) (NCAA Approved)**

2 Semesters = 1 credit

Prerequisite: Achievement of 70% or better on placement test

This is a course taught completely in Spanish and designed for students who have a high functioning background in Spanish. It is equivalent to English I. This course concentrates on the written and linguistic aspect of the language. The course will include culture, history, art, drama, literature and other areas of interest. Successful completion of this course provides a student with the skills to accurately read and write Spanish.

Este curso está enseñado completamente en español y está diseñado para los estudiantes que tienen una historia en español. Este curso se concentra en los aspectos escritos y lingüísticos del idioma. El curso incluye cultura, historia, arte, teatro, literatura y otros aspectos de interés. La terminación exitosa de este curso provee un/una estudiante con las habilidades para leer y escribir español.

### **Heritage Speakers II (06106A000) (NCAA Approved)**

2 Semesters = 1 credit

Prerequisite: Heritage Speakers I

This is a course taught completely in Spanish and designed for students who have a high functioning background in Spanish. It is equivalent to English II. This course covers culture, history, art, literature and promotes writing skills in Spanish.

**Spanish I (06101A000) (NCAA Approved)**

2 Semesters = 1 credit

This course is designed for the student with minimal competency or no previous exposure to Spanish. Basic vocabulary and grammatical concepts will be introduced and integrated for a basic competency of the four communication skills. Individual and group activities will provide the means for the student's interactions. Culture involving customs, geography, history and the people of Spanish-speaking countries will be explored. Students will be assessed in terms of written and oral proficiency related to individual/group activities, assignments, quizzes and tests.

**Spanish II (06102A000) (NCAA Approved)**

2 Semesters = 1 credit

Prerequisite - Successful completion of Spanish I

This is a continuation of Spanish I. The format and assessment are the same for Spanish II and focuses on more challenging skills and knowledge.

**Spanish III (06103A000) (NCAA Approved)**

2 Semesters = 1 credit

This course is a continuation of Spanish II. Vocabulary and advanced grammatical concepts will be introduced in order to increase the ability to communicate. Cultural topics and projects will also be introduced. Exposure to Spanish literary works will enable the student to read, understand, and speak utilizing previously learned vocabulary and grammar in context. Students will be assessed in terms of oral and written proficiency related to group participation, assignments, quizzes and tests.

**Spanish IV (06104A000) (NCAA Approved)**

2 Semesters = 1 credit

This course is a continuation of Spanish III and is a college-level preparatory. Vocabulary and advanced grammatical concepts will be introduced in order to increase the ability to communicate. There will be a greater focus on cultural issues and literary works. Other aspects of the Spanish culture will be explored which includes music, dance, art, and theater. Students will be assessed in terms of oral and written proficiency, projects, assignments, tests and quizzes.

**Spanish IV Honors (06104A000) (NCAA Approved)**

2 Semesters = 1 credit

In addition to the course description and expectations of Spanish IV, Spanish IV Honors students will be expected to complete the workbook "Spanish Verb Tenses" by Dorothy Richmond outside of class. Students will be allowed to consult the teacher outside of class time for any questions. Parts I, all units and Part II, Unit 1, will be expected for first semester and Part II, units 2-6 and Part III, all units, for second semester. Successful completion of this book will help prepare a student who is planning to study Spanish in college.

<b>Music Courses</b>
----------------------

**AP Music Theory (05114A000)**

2 Semesters = 1.0 weighted credit

Throughout the course, students listen to musical works attentively and analytically, developing their musical memory and their ability to articulate responses to formal, stylistic, and aesthetic qualities of the works. Performance — using singing, keyboard, and students' primary performance media — should also be a part of the learning process. Although sight singing is the only performance skill that is directly tested by the AP Exam, training in all these areas will develop the aural skills that are tested. Once again, fluency and quickness with basic materials are essential.

***Students will be expected to take the Advanced Placement Examination.***

**Collaborative Choir/Music (05149A000)**

2 Semesters = 1.0 credit

This class provides music education in a setting where teaching methods are designed to meet the unique needs of any individual student. It is a cooperative program in which emphasis is placed on increasing the student's musical vocabulary, increasing their current level of musicality, developing rhythmic skills, singing in a group, and playing different instruments. This course is designed for a small group atmosphere. The smaller

class sizes will enable the instructor to make appropriate individual adaptations. Students will also work closely with their peers. A cooperative/leadership program is established for an increased learning experience for all students.

### **Concert Band (05102A000)**

*2 Semesters = 1 credit*

Prerequisite: Middle school band or director approval.

Students may not take only one semester of band unless given specific written permission by the band director. This includes scheduling issues. This class includes marching band, pep band, and concert band. Participation in concerts, contest, and athletic events is required. Optional activities offered with this class include IMEA, jazz band, madrigals, freshman/sophomore honor bands.

### **Honors Independent Music Study (05109A000)**

1 Semester = 0.50 weighted credit

*Grade 11-12*

In addition to the requirements for Independent Music Study, students will complete a composition portfolio, complete additional writing assignments, use Finale software, work on music theory concepts and ear-training, submit an original composition to the IMEA, and perform an original solo/ensemble composition at the concert in May. **This class may be repeated.**

### **Honors Chamber Choir (05110A000)**

2 Semesters = 1 credit

Grades 11-12

Prerequisite: Students must have participated in high school mixed choir for at least one year with a final grade of 80% or higher. This class can only be taken once. Audition Required.

In addition to the requirements for Mixed Choir, students in this **weighted class** will complete 2 additional projects each semester that may include, but are not limited to the following activities: auditioning for the IMEA Senior Music Festival; participating in private lessons with a weekly journal of rehearsals, new techniques, and strategies; participating in a college music festival; attending 8 vocal/instrumental music performances at area high schools and writing a comparison paper; etc.

### **Honors Symphonic Band (05102A000)**

2 Semesters = 1 credit

Grades 11-12

Prerequisite: Students must have participated in high school band for at least one year with a final grade of 80% or higher and completed a mandatory audition. This class meets with the symphonic band class. This class may only be taken once. In addition to the requirements for Band, students in this **weighted class** will complete 2 additional projects with accompanying written portfolio each semester that may include but are not limited to the following activities: auditioning for the IMEA Senior Music Festival; participating in private lessons with a weekly journal of rehearsals, new techniques, and strategies; participating in a college music festival; attending 8 vocal/instrumental music performances at area high schools and writing a comparison paper; etc.

### **Independent Music Study (05109A000)**

1 Semester = 0.50 credit

*Grade 10-12*

This class is open to all students. This class provides students with the opportunity to study an instrument for a semester such as piano or guitar. Students focus on learning correct instrument technique and how to incorporate reading music while playing the instrument. In addition to studying an instrument, students complete a study in music theory of Western music. We utilize the Alfred and Kostka and Payne series of music theory materials. This class individualizes instruction to begin music education per student at their assessed level of skills.

### **Concert Choir (05110A000)**

2 semesters = 1 credit

This choir is open to all students. No previous vocal training is necessary. Classroom focus will be on tone quality and intonation. Students will learn to sing a variety of music in unison, two, and three-part harmony. Participation in concerts is mandatory. Optional activities include Madrigals and IMEA.

**Chamber Choir (05110A000)**

2 Semesters = 1 credit

*Prerequisite: Audition*

*Grade 10-12*

Students will learn to sing a variety of music in three and four part harmony. Participation in concerts is mandatory. Optional activities include Madrigals, IMEA, and I-8 honor choir festival.

**Music Appreciation I (1900-Present) (05116A000)**

*1 Semester = 0.50 credit*

This class is open to all students. Course of study will include music history from the 1950s through present day. Students will learn the introductory basis of music theory and general music knowledge.

**Music Appreciation II (1000-1900) (05116A000)**

*1 Semester = 0.50 credit*

This class is open to all students. Course of study will include music history from the Medieval Era through the early 1900s. Students will learn the introductory basis of music theory and general music knowledge.

**Symphonic Band (05102A000)**

2 Semesters = 1 credit

*Prerequisites: Concert Band or director approval*

Students may not take only one semester of band unless given specific written permission by the band director. This includes scheduling issues. This class includes marching band, pep band, and concert band. Participation in concerts, contest, and athletic events is required. Optional activities offered with this class include the I8 Conference Honor Band, various college band festivals, IMEA, jazz band, madrigals, freshman/sophomore honor bands, and solo and ensemble contest.

<b>Theatre Courses</b>
------------------------

**Acting I – The Basics (05055A000)**

1 Semester = 0.50 Credit

Students will learn the fundamentals of acting through improvisation and scripted material. Students will learn about believability, focus, intentions, and how to build a character. Much of the class will be hands-on learning based on participation, but some research, written work and reading will also be required.

**Acting II – Techniques (05055A000)**

1 Semester = 0.50 Credit

*Prerequisite: Acting I*

Students will build on the knowledge acquired during Acting I and perform multiple scenes, monologues and various other special projects throughout the semester. At the end of the course, students will show their culminated knowledge in a final show. Research, written work and reading will be required as students delve deeper into different acting styles and techniques.

**Acting/Directing Studio: One Acts (05057A000)**

1 semester = 0.50 credit

*Prerequisite: Acting I and Technical Theatre I*

Students will direct and perform in several one-act plays to be presented in two one-act festivals over the semester. All students will be expected to direct one show and act in two shows. A considerable amount of analysis of scripts and dedication to rehearsal will be required in this class. This class may be repeated.

**Advanced Theatre Production (05099A000)**

1 semester = 0.50 credit

*Prerequisite: Acting/Directing Studio: One Acts*

Students will present one full-length play. The play is performed in a full production for a paying audience. Students are required to assume all roles necessary for the production, including technical tasks, so there are positions for both actors and tech people. This class takes the theoretical lessons acquired in the prior classes and applies them under rigorous deadlines. This play will be separate from the extracurricular show presented each semester and gives students another opportunity to perform a full-length show. This class may be repeated.

### **Film Studies I (05059A000)**

1 semester = 0.50 credit

Students will review the history of the American cinema from its early beginnings to the start of the modern blockbuster era. . Students will view films from a variety of genres including silent, comedy, thriller, musical, western, and film noir. Students will analyze each film with discussion question packets. The following films that will be shown are: A Trip to the Moon, Singin' in the Rain, Citizen Kane, The Searchers, The Godfather, Chinatown, and Star Wars: A New Hope as well as others decided each semester and various other short clips of other films to demonstrate different techniques and genre styles. Students will be required to give a detailed written critique of one of the films shown.

### **Film Studies II (05059A000)**

1 semester = 0.50 credit

*Prerequisite: Film Studies I*

The second section of the course will focus on video production. Students will use the elements learned from Films Studies I and incorporate them into their own productions. Further techniques of editing, cinematography, direction, sound, and screen writing will be taught. Students will be required to make a two-three minute film. Students will go through the film process from the creation of a story in pre-production, to filming and lighting in production, to editing and sound in post-production. . In addition, students will be required to produce a second video in the style of an established genre. The end of the course will culminate with students creating original scripts and producing a 5-7 minute video that adapt scenes for the screen.

### **Professional Theatre Arts Studio (05056A000)**

2 semesters = 1.0 credit

*Prerequisite: Either Acting I and II OR Technical Theatre I and II*

This class is for actors AND technicians, who want to further their theatre craft in preparation for the professional theater world. Students in this weighted class will take part in various special projects throughout the year that reflect what they want to focus on within the course. This class will require a substantial commitment outside of the class, as participation in extracurricular productions is required as well as watching at least one professional theater show.

### **Technical Theatre I (05056A000)**

1 semester = 0.50 credit

Students learn hands-on about theatrical set building. Students will learn about basic set design and tools, and assist with building the theatrical sets used in the extracurricular plays. In addition, students will focus on safety precautions revolving around the tools associated with theatre. Though most of the class is hands-on, some written work and reading is required.

### **Technical Theatre II (05056A000)**

1 semester = 0.50 credit

*Prerequisite: Technical Theatre I*

Students will concentrate on the major areas of theatre technology and production. Students will learn how to research and design sets, scenery, lights, sound, and costumes and learn about the roles and responsibilities of the Stage Manager, Production Manager and House Manager. Students will learn about all areas of Technical Theatre and specialize in one or two areas. **Participation in extracurricular productions is required.**

## Business & Technology

Freshman	Sophomore	Junior	Senior
Technology Applications	Computer Graphics	Multimedia / Web Page Production	Multimedia / Web Page Production
	Computer Programming	Gaming	Gaming
	Accounting I	AP Computer Science	AP Computer Science
		Desktop Publishing	Desktop Publishing
		Computer Maintenance	Computer Maintenance
		Independent Computer Projects	Independent Computer Projects
		Accounting I	Accounting I
		Accounting II	Accounting II

\* DENOTES SIGNED ACCEPTABLE USE POLICY FOR INTERNET USE REQUIRED

### Accounting I (12104A001)

2 Semesters = 1 credit

*Grade 10-12*

Accounting is a fast-paced business education course designed to introduce the fundamentals and skills of double entry bookkeeping and to prepare students for entry-level positions involving bookkeeping skills. This course goes through three Accounting cycles: Sole Proprietorships, Partnerships, and Corporations. Topics include interpreting transactions for each type of business, journalizing transactions, posting from a General Journal to a General Ledger, posting from Special Journals to a General Ledger, creating a variety of Financial Reports from posted data, depreciation, bad debts, payroll, cash register, accrued expenses, notes, and interest. All units go through practice sets and some simulated projects are incorporated when possible. Basic math functions and logical thinking are necessary. *You must be enrolled as a junior or senior and maintain a "B" average to be able to articulate Accounting I and Accounting II credits at Waubensee Community College.*

### Accounting II (12104A002)

2 Semesters = 1 credit

*Grade 11-12*

This is a **weighted** course. Accounting II is a business education skill-level course that builds upon the foundation established in Accounting I. This course is planned to help students develop deeper knowledge of the principles of accounting with more emphasis being placed on financial statements and accounting records. Topics covered are departmentalized accounting, accounting control systems, general accounting adjustments, corporation accounting, management accounting, cost accounting, and a variety of other accounting systems. Students will develop a comprehensive understanding of the educational training, aptitudes and skills necessary for professional accounting careers. *You must be enrolled as a junior or senior and maintain a "B" average to be able to articulate Accounting I and Accounting II credits at Waubensee Community College.*

### AP Computer Science Principles (10161A000)

2 Semesters = 1 credit

*Prerequisite: Successful completion of Computer Programming*

This **weighted course** offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. **Students will be expected to take the Advanced Placement Examination.**

### **Computer Graphics\* (10202A002)**

1 Semester = 0.50 credit

**Prerequisite: Technology Applications/Information II**

*Grade 10-12*

This course covers digital image computer software, progressing from the beginning to the advanced level. Students learn techniques and features, with emphasis on composition and color, through a number of projects. Image scanning, manipulation, editing, repairing and color correction are also covered. This course also includes discussion of how graphic designers and photographers enhance their images. Students use Macintosh platform and digital cameras. This course presents an introduction to computers and their use in the field of advertising design.

### **Computer Graphics II\* (10202A002)**

1 Semester = .50 credit

*Grade 10-12*

**Prerequisite: Computer Graphics I**

This course will explore methods and techniques for drawing and creating computer generated graphics like those used in advertising, marketing, web and traditional promotional communications. Students will add the vector-based Adobe Illustrator software program to their bank of computer skills. This is a project based course recommended for students with interested in advertising, marketing, web design, computer animation and/or graphic design careers.

### **Computer Maintenance (10252A001)**

1 Semester = 0.50 credit

**Prerequisite: 2.0 Credits in any PHS computer course.**

*Grade 11-12*

Computer Maintenance teaches routine maintenance techniques for the microcomputer. They will be introduced to techniques for diagnosing and solving a variety of computer problems involving both hardware and software. They will install software as well as peripheral equipment. Students will practice their skills by helping troubleshoot computer problems as they arise throughout Plano District #88 schools. The work provides a valuable service to Plano District #88 schools while also being a great learning experience for the students themselves.

### **Computer Programming (10152A001)**

1 Semester = 0.50 credit

*Grade 10-12*

Computer Programming is designed to be an introduction to both the text-style programming language of BASIC and the block-style programming language of Scratch. Variables, BASIC statements, logic, loops, nested loops, data files, and flowcharting are some of the topics included in the numerous programs students shall write during the semester. A unit on robotics will also be incorporated into this class. Students will construct robotic models and then program them to accomplish a variety of tasks. Other units studied in this course shall include the binary and hexadecimal numbering systems and logic gates. This course is a required prerequisite for both Gaming and Advanced Placement Computer Science Principles.

### **Consumer Economics (22210A000)**

1 Semester = 0.50 credit

*Grade 11*

Consumer economics covers many basic economic concepts. It also focuses on the skills needed to succeed at managing personal finances in the future. This course prepares students for living independently. This knowledge provides each student with the tools they need to thrive in the real world. The information covered includes: consumer rights and protections, careers, taxes, budgeting, banking, credit, insurance, automobiles, housing, and basic living needs. **This course is required for graduation.**

**Consumer Economics (Individual)**

1 Semester = 0.50 credit

**Prerequisite: Must have IEP**

Grade 11

This course covers topics to help the student become an informed consumer including banking, credit, housing, income tax, insurance, advertising and shopping. Effort, ability and individual differences are always taken into consideration when determining grades.

**Desktop Publishing/Print Production (Code)**

1 Semester = 0.50 credit

Grade 10 -12

Prerequisite: Computer Graphics I

Students will learn page layout/design using the Adobe InDesign software. This class will create & print flyers, posters, newsletters, books, magazines, newspapers, business cards, etc. The class will use their knowledge to create posters, signs, programs, etc. to be used throughout District #88.

**Gaming (10152A001)**

1 Semester = 0.50 credit

**Prerequisite: Computer Programming**

Grade 11-12

Students enrolled in this class will utilize a programming environment that allows students to learn basic computer science concepts while creating animated movies and simple video games. Students will control the behaviors of 3D objects and characters in a virtual world. The application used in this course will be Alice, an interactive interface developed at Carnegie Mellon University. Students will drag and drop graphic tile to create a program where the instructions correspond to standard statements in a production oriented programming language such as Java and C++.

**Independent Computer Projects\* (10254A000)**

1 Semester = 0.50 credit

**Prerequisite: Instructor Approval**

Grade 11-12

This one-semester course is designed for juniors and seniors who are committed to pursuing a career in the field of computer technology. This course uses knowledge from previous technology courses such as Computer Maintenance, Computer Programming, Gaming, or AP Computer Science Principles to narrow down students' interests and prepare them for college. A student may choose more in-depth study of topics such as advanced computer maintenance, networking, an additional computer programming language such as Python, or the creation of a technology makerspace project. Both the college-bound and vocational-oriented student will benefit from this course. This class may be repeated.

**Microsoft Office Specialist (10005A001)**

2 Semesters = 1.0 credit

**Prerequisite: Technology Application/Information Processing I and II**

This course builds upon the word processing, spreadsheet and presentation skills obtained in Technology Applications and takes students to the next level. The primary focus of this course will be the advanced exploration and utilization of Microsoft Word, Excel and PowerPoint. Students will be prepared and presented with the opportunity to take the Microsoft Office Specialist (MOS) certification exam at the end of the course. In the worldwide job market, Microsoft Office Specialist (MOS) certification is highly regarded and is the primary tool companies use to validate the proficiency of their employees in the latest productivity tools and technology, helping them select job candidates based on globally recognized standards for verifying skills. Both college-bound and vocationally-oriented students benefit from this course.

**Multi-Media/Webpage Production (10202A001)**

2 Semesters = 1.0 credit

**Prerequisite: Computer Graphics, Signed Acceptable Use Policy for Internet**

Grade 10-12

In this course students will develop an understanding of the techniques and technologies used in various multimedia fields and applications. Instruction will include hands-on skills involving graphic design, digital video production and Web publishing. Students will use various hardware peripherals and software such as PowerPoint, iMovie, GarageBand and iWeb for completing projects.

### **Technology Application/Information Processing I\* (12005A001)**

1 Semester = 0.50 credit

Technology Application/Information Processing is the first level in a student's computer/office careers education. This course introduces students to the hardware components of a computer system and word processing software, allowing them to develop keyboarding skill and formatting specific documents (letters, tables, reports, forms) which require decision-making regarding acceptability, arrangement and English usage. Additional content includes a basic understanding of punctuation and proofreading, online information available via the Internet and learn key aspects of using the Internet. Instruction will emphasize proper keyboarding technique and speed-building. Students will develop an ethical work behavior, positive working relationships with others, and responsibility for their own work.

***This course is required for graduation.***

### **Technology Application/Information Processing II\* (10004A001)**

1 Semester = 0.50 credit

***Prerequisite: Technology Application/Information Processing I***

Technology Application/Information Processing II builds on the concepts of Technology Application/Information Processing I. Students develop an awareness and understanding of the application of information processing concepts, software and equipment to accomplish tasks typically performed in computer/office/business careers. Instruction in this course focuses on building word processing skills, exploring and utilizing spreadsheet, database, and presentation software. ***This course is required for graduation.***

## **Family and Consumer Science (FACS) Courses**

### **Child Development (19052A001)**

2 Semesters = 1.0 credit

This class emphasizes learning experiences to help students gain knowledge and understanding of the intellectual, physical, social and emotional development of children from conception through early childhood. First semester will include many hands on projects for reproduction and prenatal development including the electronic baby. Second semester offers the opportunity to develop a positive understanding of the growth and development of children and parenting skills. Projects then will focus on the development of children and include planning for age appropriate activities and observation of children. It is beneficial to both the future parent and for those interested in child related careers.

### **Baking and Pastry Arts (16054A002)**

1 Semester = 0.5 credit

Prerequisite: Culinary Boot Camp

Do you enjoy watching "Cake Boss" or the creative side of cooking? Students in this course will apply the food science principles learned in the pastry arts classroom as they prepare a variety of recipes in the lab. Areas of interest are quickbreads, yeast breads, cookies, cakes, cake decorating, pies, pastry and specialty desserts. The focus is on all aspects of food prep, sanitation, basic and advanced techniques matched to the student's ability, creativity, recipe development and presentation.

### **Culinary Boot Camp (16054A002)**

2 Semesters = 1 credit

Interested in learning how to cook? Whether your plan is cooking to survive or practicing to become a professional chef, this class is a great opportunity to develop lifelong culinary skills – and eat what you made in class! Food science principles and culinary techniques are applied as students prepare a variety of recipes in the lab. Career exploration in related fields of study will be incorporated along with a focus on the diet structured according to the MyPlate.gov and RDA recommendations.

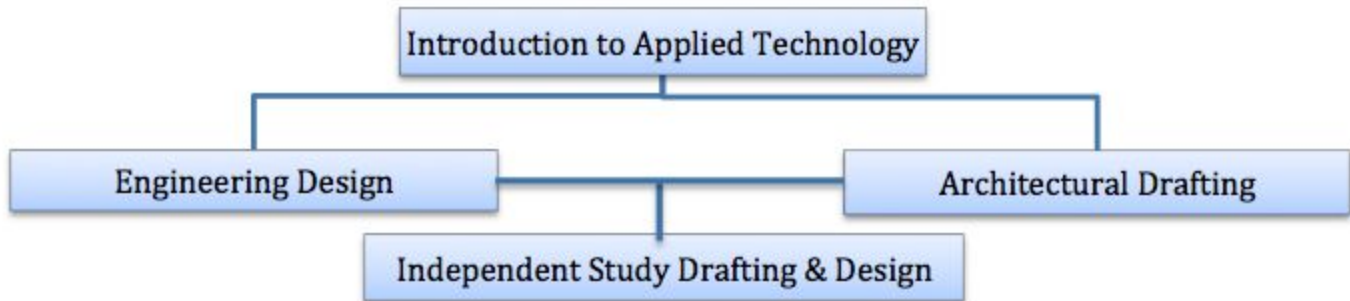
### **Global Foods (16054A002)**

1 Semester = 0.5 credit

Prerequisite: Culinary Boot Camp

Go on a culinary tour of the world! In this course, students will prepare foods from the United States, Italy, Mexico, France, China, Germany and more. This course will provide the student the opportunity to experience how food and its preparation varies by region and by country. Students will also learn about grilling & cooking to entertain.

## Applied Technology



### **Introduction to Applied Technology (21052A002)**

1 OR 2 semesters = 0.5 – 1.0 Credit

Grades 9-12

This course is a modular class dedicated to students interested in technology that revolves around the Paxton-Patterson Action Lab (PAL) stations. Students move through 15 different modules over the course of 2 semesters and learn the basics of how each module applied to their daily lives. The class is full of enjoyable activities with a hands-on based approach. The modules include activities like racing a CO2 car, designing a virtual house, launching a rocket, wiring a circuit, 3D printing an object, or even controlling a robot. Please ask a guidance counselor for more information on each module.

### **Engineering Design (21054A001)**

2 Semesters = 1.0 Credit

Grades 10-12

Prerequisite: 2 Semesters of Introduction to Industrial Technology. "C or better" is preferred

In this course, students will access open-ended real-world design problem, and use brainstorming tips, teamwork strategies, research links, and media to solve it. Engineering design problems will challenge students to think, build, and act like an engineer. While this is only part of the course, the other portion is based around Paxton-Patterson Career Plus (CP) module stations. In different Units (Alternative Energy, Construction Technology, Environmental Technology, CAD Drafting, 3D Printing, and Woodworking) students work in teams to explore an open-ended problem, imagine solutions, collaborate, and create a final project. The class is full of enjoyable activities like using a solar panel, exploring acid rain effects, working with a laser level, and taking an in depth approach at AutoCAD

### **Architectural Drafting I and II (21102A001)**

1 or 2 Semesters = .5 or 1.0 Credit

Grades 10-12

Prerequisite: 2 Semesters of Introduction to Industrial Technology. "C or better" preferred

This is a one or two semester course created for students with an interest in pursuing a career in Architecture. The course covers general architectural techniques, history of architecture, home styles, construction methods, and planning and drafting floor plans. Using various drafting tools and techniques from traditional board drafting to Computer Aided Drafting (CAD) students will have to become an Architect and produce a set of residential drawings (floor plans, elevation drawings, foundation plans, roof plans, and site plans) from a client's description. The main objective of this class is to learn the fundamentals of Architecture through correct instruction, guidance, and practice to become a chief architect.

## **Independent Study Drafting and Design**

1 Semester = .5 credit

Grade 12

Prerequisite: 2 semester of ALL Applied Technology courses and Instructor recommendation.

This one semester course is designed for seniors who are committed to an Architecture or Engineering college career. This class uses previous knowledge from the previous courses to narrow down their interests and prepare them for college. It takes basic AutoCAD skills and uses them in Engineering program Inventor and Architectural program Revit. Here students design and create 3D houses and parts with ease.

# **Indian Valley Vocational Center (IVVC)**

## **AUTO BODY REPAIR I (20116A001)**

Grades: 11, 12

Auto Body I is the first year of a two-year sequence.

Units of study - Industry careers, parts of the vehicle, tools and their uses, basic repairs and painting, panel replacement, plastic repair and basic welding.

Tasks you will complete:

- Review work orders and create repair plans
- Clean and detail vehicle for customer delivery
- Communicate with instructor and students regarding repairs
- Prepare areas for repair
- Prime and paint repaired surfaces
- Wet sand and buff vehicles

Skills/abilities you need to be successful - mechanical aptitude, active listening, complex problem solving, critical thinking

Certification you may be eligible to receive upon successful completion -

- SP/2 Safety Certification
- Upon completion of the 2 year program, students have the ability to complete I-CAR Pro-level 1 platinum certification in Non-Structural Repairs and Refinishing.

Related careers - Auto Body Technician, Refinish Technician (painter), Insurance Adjuster, Paint Company Representative, Vocational/technical Instructor, Salvage Yard Technician, Dealership Parts Counter Person

**Dual Credit** - KCC CRT 111 - Intro to Collision Repair (4 credits)

**Articulated Credit** - KCC CRT 111 - Intro to Collision Repair (4 credits)

## **AUTO BODY REPAIR II (20116A002)**

Grade: 12

Required: 70% or higher in Auto Body Repair I

Auto Body II is the second year of a two-year sequence.

Units of study - Industry careers, parts of the vehicle, tools and their uses, basic repairs and painting, panel replacement, plastic repair, basic welding, estimating and custom paint techniques.

Tasks you will complete -

- Review work orders and create repair plans
- Communicate with instructor and students regarding repairs
- Work as job lead to complete repairs
- Prime and paint repaired surfaces
- Match and blend colors for proper finish
- Masking vehicles
- Vehicle preparation for final paint
- Estimating repairs and costs

Skills/abilities you need to be successful - mechanical aptitude, active listening, complex problem solving, critical thinking

Certification you may be eligible to receive upon successful completion -

- SP/2 Safety Certification
- Upon completion of the 2 year program, students have the ability to complete I-CAR Pro-level 1 platinum certification in Non-Structural Repairs and Refinishing.

Related careers - Auto Body Technician, Refinish Technician (painter), Insurance Adjuster, Paint Company Representative, Vocational/technical Instructor, Salvage Yard Technician, Dealership Parts Counter Person

**Dual Credit** - KCC CRT 112 - Non-Structural Repairs (4 credits)

**Articulated Credit** - WCC ABR 115 - Basic Auto Repair (4 credits)  
KCC CRT 112 - Non-Structural Repairs (4 credits)

### **AUTOMOTIVE TECHNOLOGY I (20104A001)**

Grades: 11, 12

Automotive Technology I is the first year of a two-year sequence.

Units of study - Basic automotive repair for tires, brakes, steering, electrical, suspension and alignments through classroom and practical shop exercises

Tasks you will complete -

- Identify basic hand tools and shop equipment
- Proper setup and operation of automotive lifting equipment
- Removal and installation of wheels and tires
- Repairing brake systems including replacement of worn out parts
- Identifying steering system types and related components
- Identify types of suspension systems and their components
- Performing front and four wheel alignment

Skills/abilities you need to be successful - effective communication skills, ability to follow instructions, ability to work as part of a team, problem-solving skills, patience and confidence, mechanical aptitude, ability to adapt to change

Certification you may be eligible to receive upon successful completion -

- SP/2 Safety Certification

Related careers - Automotive service technician, Automotive service writer, Auto parts counter person

**Articulated Credit** - KCC AMT 110 - Automotive Brake Systems & AMT 120 - Suspension, Alignment & Brake Systems (8 credits total)

### **AUTOMOTIVE TECHNOLOGY II (20104A002)**

Grade: 12

Required: 70% or higher in Automotive Technology I

Automotive Technology II is the 2nd year of a two-year sequence.

Units of study - Basic engine repair, basic engine performance and diagnostic skills including use of scan tool, automatic transmission identification and proper maintenance, basic heating and air conditioning diagnosis and repair, manual drive train identification and maintenance

Tasks you will complete:

- Basic engine teardown, parts identification and reassembly
- Automatic transmission maintenance and basic repairs
- Scan tool operation and basic engine performance diagnosis, including retrieving engine fault codes
- Inspect and replace hub bearings
- Service rear differential
- Perform cooling system service and thermostat replacement
- Identify air conditioning components and learn basic theory of operation
- Perform engine compression and leak down test
- Remove and replace spark plugs
- Inspect and test relays

Skills/abilities you need to be successful - deductive reasoning, able to make decisions and problem solve, mechanical aptitude, knowledge of tools, hand and electrical diagnostic tools, and meters, troubleshooting

Certification you may be eligible to receive upon successful completion -

- SP/2 Safety Certification

Related careers - Automotive service technician, Automotive service advisor, Automotive service manager, Warranty administrator, Field service engineer, Automotive mechanical engineer, Automotive electrical engineer, Parts professional, Dealership parts manager, Dealership salesperson, Dealership general manager

**Articulated Credit** - WCC AUT 100 - Fundamentals of Automotive Technology (2 credits)

## **CERTIFIED NURSE ASSISTANT (14051A001)**

Grades: 11, 12

Prerequisite: Good attendance record

Certified Nurse Assistant is a stand-alone one-year program.

Units of study - Healthcare system, communication, infection control, safety, bed making, admission/discharge/transfers, growth and development, nutrition, body systems, positioning/transferring residents, patients with special needs, death and dying, dementia, home health, rehabilitation

Tasks you will complete -

- Perform 21 required CNA skills
- Clinical experience at local nursing home
- Provide physical support to assist nursing home residents to perform daily living activities, such as getting out of bed, bathing, dressing, using the toilet, standing, walking, or exercising
- Measure and record food and liquid intake or urinary and fecal output, reporting changes to nursing staff
- Record vital signs, such as temperature, blood pressure, pulse, or respiration rate
- Lift or assist others to lift patients to move them on or off beds
- Record height and weight of patients
- Change bed linens or make beds
- Wash, groom, or shave nursing home residents to prepare them for surgery, treatment, or examination

Skills/abilities you need to be successful - service orientation, active listening, social perceptiveness, critical thinking, reading/oral comprehension, static strength, reasoning, flexibility, arm-hand steadiness

Certification you may be eligible to receive upon successful completion -

- Illinois Department of Public Health Certified Nursing Assistant

Related careers - Registered Nurse, Licensed Practical Nurse, Phlebotomist, Med Tech, Vet Tech, Dental Assistant, Dental Hygienist, Medical Assistant, Surgical Tech, Surgical Assistant, Xray Tech, Occupational Therapy Assistant, Counselor, Social Worker, Physical Therapy Assistant, Massage Therapist, Dietary Aide, Respiratory Therapy, Pharmacy Tech

**Dual Credit:** KCC NUR 100 - Basic Nurse Assistant Training (7 credits)

**Articulated Credit:** WCC NAS 101 - Basic Nurse Assistant Training (7 credits)

## **COMPUTER PROGRAMMING I (10152A001)**

Grades: 11, 12

Computer Programming 1 is the first year of a two-year sequence.

Units of study - Functional programming, object oriented programming, computational concepts, computer engineering, robotics, automation, game development, digital sculpting/modeling, and animation

Tasks you will complete -

- Develop problem solving skills through code to solve problems

- Use digital clay to sculpt objects in Blender as well as Unreal Engine
- Design 2D, 3D, 2.5D games using the Unreal Engine as well as Blender
- Use 3D modeling to create digital animation
- Complete regular assignments; both by yourself and within groups
- Use data to create, import and edit spreadsheets as well as documents

Skills/abilities you need to be successful - participation in all projects, work well within a team, understanding of algebraic concepts and algorithms, good note taking skills and analytical thinking

Certification you may be eligible to receive upon successful completion -

- Java Level 1- Java Oracle Institute
- MOS Excel - Microsoft Standards
- MOS Word - Microsoft Standards
- Game Design as defined by industry standards

Related careers - Computer/Electrical Engineering, Computer Programmer (C++, Java, Python), Game Environment Developer, Unreal Engine Developer, 3D/2D Model Designer, Blender Developer, Data Entry, Word Processor, Office Management Systems

### **COMPUTER PROGRAMMING II (10152A002)**

Grade: 12

Required: 70% or higher in Computer Programming I

Computer Programming 2 is the second year of a two-year sequence.

Units of study - Functional programming, object oriented programming, computational concepts, computer engineering, robotics, automation, game development, digital sculpting/modeling, and animation

Tasks you will complete -

- Develop problem solving skills through code to solve problems
- Use digital clay to sculpt objects in Blender as well as Unreal Engine
- Design 2D, 3D, 2.5D games using the Unreal Engine as well as Blender
- Use 3D modeling to create digital animation
- Complete regular assignments; both by yourself and within groups
- Use data to create, import and edit spreadsheets as well as documents
- Support first year students with assignments and projects
- Take leadership role in regards to various class projects

Skills/abilities you need to be successful - participation in all projects, work well within a team, understanding of algebraic concepts, able to type for extended periods of time, good note taking skills, good listener

Certification you may be eligible to receive upon successful completion -

- Java Level 1- Java Oracle Institute
- MOS Excel - Microsoft Standards
- MOS Word - Microsoft defined standards

- Game Design as defined by industry standards
- IT-PMI\*\*
- Business Level Novice\*\*

\*\*Dependent upon future career aspirations

Related careers - Computer/Electrical Engineering, Computer Programmer (C++, Java, Python), Game Environment Developer, Unreal Engine Developer, 3D/2D Model Designer, Blender Developer, Data Entry, Word Processor, Office Management Systems

### **COMPUTER TECHNOLOGY I (10252A001)**

Grades: 11, 12

Computer Technology I is the first year of a two-year sequence.

Units of study - Desktop, laptop, and PC technology, computer components, basic wired and wireless technologies, function and installation of data networks and components

Tasks you will complete -

- Identify internal computer hardware and components
- Format hard drives and install operating systems
- Identify all types of networks and how to install them
- Diagnose and repair problems with all devices and networks

Skills/abilities you need to be successful - reading skills, basic math skills, written and verbal communication skills, basic knowledge of technology

Certification you may be eligible to receive upon successful completion -

- A+ Hardware certification COMP-TIA

Related careers - Technology help desk technician, Hardware technician, Network engineer, Systems administrator, Network security administrator

**Articulated Credit:** WCC CIS 105 - Introduction to Windows (1 credit)

### **COMPUTER TECHNOLOGY II (10252A002)**

Grade: 12

Required: 70% or higher in Computer Technology I

Computer Technology II is the second year of a two-year sequence.

Units of study - Wired and wireless technologies, function and installation of data networks and components, configuration of network connectivity, using and configuring routers, switches and firewall appliances

Tasks you will complete -

- Identify network hardware and components
- Configure routers through operating systems
- Identify all types of networks and how to install them
- Diagnose and repair problems with all network devices and components

- Operate IVVC Help Desk

Skills/abilities you need to be successful - reading skills, basic math skills, written and verbal communication skills, basic knowledge of technology

Certification you may be eligible to receive upon successful completion -

- A+ Network certification COMP-TIA

Related careers - Technology help desk technician, Hardware technician, Network engineer, Systems administrator, Network security administrator.

### **CONSTRUCTION TRADES I (17002A001)**

Grades: 11, 12

Construction Trades I is the first year of a two-year sequence.

Units of study - The design process, shop & tool safety, construction terminology, construction methods and techniques, building codes & covenants, CAD (Computer Aided Drafting), customized designs for clients, cost estimating, surveying & excavation, basic framing principles, basic exterior finishing principles, basic electrical principles, basic HVAC principles, basic plumbing principles

Tasks you will complete -

- Follow established safety rules/regulations and maintain a safe and clean environment
- Study specifications in blueprints, sketches, or building plans to prepare project layout and determine dimensions and materials required
- Measure and mark cutting lines on materials, using a ruler, pencil, chalk, and marking gauge.
- Select and order lumber or other required materials

Skills/abilities you need to be successful - hard work ethic, ability to work in hot/cold weather and able to handle physically demanding work, ability to work as part of a team, adaptability and flexibility, sound judgment, courage, decisiveness, quick reactions and the ability to stay calm in difficult circumstances, willingness and ability to learn

Certification you may be eligible to receive upon successful completion -

- OSHA 10 Safety Training

Related careers - Architect, Carpenter, CAD Technician, Designer, Electrician, HVAC Technician, Plumber, Various construction trades careers

### **CONSTRUCTION TRADES II (17002A002)**

Grade: 12

Required: 70% or higher in Construction Trades I

Construction Trades II is the second year of a two-year sequence.

Units of study - Shop & tool safety, construction terminology, advanced construction methods and techniques, building codes & covenants, CAD (Computer Aided Drafting), customized designs for clients, cost estimating, surveying & excavation, advanced framing principles, advanced exterior finishing principles, advanced electrical principles, advanced HVAC principles, advanced plumbing principles, job shadowing opportunities, internship possibilities

Tasks you will complete -

- Follow established safety rules/regulations and maintain a safe and clean environment
- Study specifications in blueprints, sketches, or building plans to prepare project layout and determine dimensions and materials required

- Measure and mark cutting lines on materials, using a ruler, pencil, chalk, and marking gauge
- Select and order lumber or other required materials
- Lead a team of students in construction projects

Skills/abilities you need to be successful - hard work ethic, ability to work in hot/cold weather and able to handle physically demanding work, ability to work as part of a team, adaptability and flexibility, sound judgment, courage, decisiveness, quick reactions and the ability to stay calm in difficult circumstances, willingness and ability to learn

Certification you may be eligible to receive upon successful completion -

- OSHA 10 Safety Training

Related careers - Architect, Carpenter, CAD Technician, Designer, Electrician, HVAC Technician, Plumber, Various construction trades careers

## **COSMETOLOGY I & II**

Grades: 11, 12  
 SIS #: 19101A001  
 19101A002

Cosmetology is two-year sequence taught off-site at Debutantes in Dekalb or Hair Professionals in Oswego or Sycamore.

Units of study - Basic training, practical chemical application/hair treatment, hair styling/hairdressing, shop management, sanitation and interpersonal relations, esthetics, and nail technology

Tasks you will complete -

- Keep workstations clean and sanitize tools, such as scissors and combs
- Bleach, dye, or tint hair, using applicator or brush
- Cut, trim and shape hair or hairpieces, based on customers' instructions, hair type and facial features, using clippers, scissors, trimmers and razors
- Schedule client appointments
- Shampoo, rinse, condition, and dry hair and scalp or hairpieces with water, liquid soap, or other solutions
- Comb, brush, and spray hair or wigs to set style

Skills/abilities you need to be successful - active listening, speaking, service orientation, near vision, arm-hand steadiness, finger dexterity, manual dexterity

Certification you may be eligible to receive upon successful completion -

- IL Department of Financial and Professional Regulations cosmetology license

Related careers - Barber, Beautician, Cosmetologist, Hairdresser, Hairstylist, Manicurist/Pedicurist, Esthetician

## **CULINARY ARTS I (16052A001)**

Grades: 11, 12

Culinary Arts I is the first year of a two-year sequence.

Units of study - Sanitation, Knife Skills, Nutrition, Customer Service, Intro to Baking and Cooking Methods, Culinary Math and Measuring, Culinary Professionalism

Tasks you will complete -

- Clean and sanitize work areas, equipment, utensils, dishes, or silverware
- Store food in designated containers and storage areas to prevent spoilage
- Portion and wrap the food, or place it directly on plates for service to patrons
- Take and record temperature of food and food storage areas, such as refrigerators and freezers
- Prepare a variety of foods, such as meats, vegetables, or desserts, according to customers' orders, recipes or Chef's instructions, following approved procedures
- Execute recipes for consistency and cost controls
- Prepare, present and evaluate food using culinary language to describe flavor, texture and overall presentation

Skills/abilities you need to be successful - active listening, coordination, service orientation, social perceptiveness, arm-hand steadiness, manual dexterity, verbal and nonverbal communication, finger dexterity, basic math and measuring, ability to stand for long periods, time management

Certification you may be eligible to receive upon successful completion -

- ServSafe Food Handler and Food Manager Certification

Related careers - Certified Executive Chef, Chef, Instructor, Cook, Executive Sous Chef, Line Cook, Server, Front of House Manager, Purchasing Manager, Banquet Manager

### **CULINARY ARTS II (16055A001)**

Grade: 12

Required: 70% or higher in Culinary Arts I

Culinary Arts II is the second year of a two-year sequence.

Units of study - Sanitation, Knife Skills, Nutrition, Customer Service, Baking and Decorating Cooking Methods, Culinary Professionalism, Recipe and Menu Development, Food Costing and Portioning, Purchasing and Inventory Controls, Culinary Leadership/Management

Tasks you will complete -

- Monitor sanitation practices to ensure that employees follow standards and regulations
- Check the quality of raw or cooked food products to ensure that standards are met
- Estimate amounts and costs of required supplies, such as food and ingredients
- Instruct cooks or other workers in the preparation, cooking, garnishing, or presentation of food
- Supervise or coordinate activities of cooks or workers engaged in food preparation
- Engage in providing excellent customer service
- Develop menus with appropriate recipes and costing
- Communicate effectively with team members, customers and community business partners
- Operate a Point of Sale System with accuracy

Skills/abilities you need to be successful - quality food production, customer service, manage peers, monitoring food quality, coordination, self management, social perceptiveness, strong verbal communication, problem solving, information prioritization and arrangement, professional conflict resolution

Certification you may be eligible to receive upon successful completion -

- ServSafe Food Handler and Food Manager Certification

Related careers - Certified Executive Chef, Chef, Instructor, Cook, Executive Sous Chef, Line Cook, Server, Front of House Manager, Purchasing Manager, Banquet Manager

**Articulated Credit:** JJC HOSP 120 - Exploring the Hospitality Industry (3 credits)

### **EARLY CHILDHOOD EDUCATION I (19054A001)**

Grades: 11, 12

ECE I is the first year of a two-year sequence where you will interact with children in a fully run student-taught preschool.

Units of study - Health, nutrition, safety, observation and guidance, family and community relationships, personal and professional development, child development from birth to 12 years, preschool social, emotional, physical, cognitive, and language development, preschool types, child development theories, establishing classroom limits, curriculum development

Tasks you will complete -

- Establish and enforce rules for behavior and procedures for maintaining order
- Organize and lead activities designed to promote physical, mental, and social development, such as games, arts and crafts, music, storytelling, and field trips
- Teach basic skills, such as colors, shape, number and letter recognition, personal hygiene, and social skills
- Observe and evaluate children's performance, behavior, social development, and physical health
- Read books to entire classes or to small groups

Skills/abilities you need to be successful - comfortable speaking to peers, parents and children, selecting and using appropriate training/instructional methods and procedures, instructing, active listening, establishing and maintaining interpersonal relationships, originality

Certification you may be eligible to receive upon successful completion -

- Gateways to Opportunity Level 1 Certification

Related careers - Social and Human Service Assistants, Kindergarten Teachers, except Special Education, Self-Enrichment Education Teachers, Teacher Assistants, Nannies, Preschool Teacher, Children's Librarian, Child Advocacy, Counselor, Social Worker

**Articulated Credit:** WCC ECE 102 - Career Explorations in Early Childhood (3 credits)

### **EARLY CHILDHOOD EDUCATION II (19055A001)**

Grade: 12

Required: 70% or higher in Early Childhood Education I

ECE II is the second year of a two-year sequence where you will interact with children in a fully run student-taught preschool.

Units of study - Responsibilities of parenting, encouraging learning and brain development from 1 to 3 and 4 to 6, children's health and safety, family challenges, children with special needs, child abuse and neglect, child care options, participating in early childhood education, careers in early education, theories and theorists, internship opportunities in local schools

Tasks you will complete -

- Establish and enforce rules for behavior and procedures for maintaining order
- Organize and lead activities designed to promote physical, mental, and social development, such as games, arts and crafts, music, storytelling, and field trips
- Teach basic skills, such as colors, shapes, number and letter recognition, personal hygiene, and social skills
- Observe and evaluate children's performance, behavior, social development, and physical health
- Read books to entire classes or to small groups
- Lead and conduct parent teacher conferences with preschool parents
- Be a positive role model to first year students
- Give constructive criticism to peers

Skills/abilities you need to be successful - comfortable speaking to peers, parents and children, selecting and using appropriate training/instructional methods and procedures, instructing, active listening, establishing and maintaining interpersonal relationships, originality

Related careers - Social and Human Service Assistants, Kindergarten Teachers, except Special Education, Self-Enrichment Education Teachers, Teacher Assistants, Nannies, Preschool Teacher, Children's Librarian, Child Advocacy, Counselor, Social Worker

Articulated Credit: WCC ECE 101 - Introduction to Early Childhood Education (3 credits)

KCC ECE 110 - Foundations of Early Childhood Education (3 credits)

### **EMERGENCY MEDICAL RESPONDER (14002A003)**

Grades: 11, 12

Emergency Medical Responder is a stand-alone junior or senior program but can also be part of the Emergency Medical Services two-year sequence.

Units of study - EMS professional culture, workforce safety and wellness, communications, anatomy and physiology, patient assessment and stabilization, airway management, emergency preparedness and disaster planning

Tasks you will complete -

- Treat medical emergencies
- Inform medical professionals regarding patient conditions and care
- Monitor patient progress or responses to treatments
- Record patient medical histories
- Prepare plans that outline operating procedures to be used in response to disasters or emergencies, such as hurricanes, nuclear accidents, and terrorist attacks, and in recovery from these events
- Ride-alongs with local fire departments

Skills/abilities you need to be successful - effective communication skills, integrity, composure and a reassuring manner, ability to follow instructions, ability to work as part of a team, problem-solving skills, patience, understanding and sensitivity, confidence and resilience, adaptability and flexibility, sound judgment, courage, decisiveness, quick reactions and the ability to stay calm in difficult circumstances, critical thinking

Certification you may be eligible to receive upon successful completion -

- American Heart Association BLS CPR
- FEMA NIMS 100, 200, 700, 800
- IL Emergency Medical Responder Certification

Related careers - EMT, Paramedic, Firefighter, Emergency Services Director, Hazard Mitigation Officer, Public Safety Director

### **EMERGENCY MEDICAL TECHNICIAN (14055A001)**

Grade: 12

Emergency Medical Technician is a stand-alone senior only program but can also be part of the Emergency Medical Services two-year sequence. Units of study - EMS professional culture, workforce safety and wellness, medical, legal and ethical issues, communications, anatomy and physiology, medical terminology, patient assessment, trauma management, medical emergency management, pharmacology, airway management, shock management and resuscitation, EMS operations and the team approach to health care

Tasks you will complete -

- Treat medical emergencies
- Operate diagnostic or therapeutic medical instruments or equipment
- Inform medical professionals regarding patient conditions and care
- Monitor patient progress or responses to treatments
- Record patient medical histories
- Analyze patient data to determine patient needs or treatment goals
- Administer non-intravenous medications
- Clinical experience at local emergency room
- Ride-alongs with local fire departments

Skills/abilities you need to be successful - effective communication skills, integrity, composure and a reassuring manner, ability to follow instructions, ability to work as part of a team, problem-solving skills, patience, understanding and sensitivity, confidence and resilience, adaptability and flexibility, sound judgment, courage, decisiveness, quick reactions and the ability to stay calm in difficult circumstances, critical thinking

Certification you may be eligible to receive upon successful completion -

- American Heart Association BLS CPR
- IL State EMT-B License or NREMT Certification

Related careers - ER Tech, Medical Assistant, Paramedic, Firefighter, Nurse, Physician Assistant

Articulated Credit: WCC EMT 120 - Emergency Medical Technician - Basic (9 credits)

## **ESTHETICS & FIRST AID (14002A002)**

Grades: 11, 12

**Esthetics & First Aid is a stand-alone one year course at the high school level. It satisfies two of four** pre-admission requirements for the Kishwaukee College Esthetics Certificate program.

Units of study - Administering basic first aid, adult, child, and infant CPR, history of esthetics and career opportunities available to Licensed Estheticians, professionalism, proper communication, infection control, draping and the physical components of the esthetics environment

Tasks you will complete -

- Examine clients' skin, using magnifying lamps or visors when necessary, to evaluate skin condition and appearance
- Cleanse clients' skin with water, creams, or lotions
- Demonstrate how to clean and care for skin properly and recommend skin-care regimens
- Select and apply cosmetic products, such as creams, lotions, and tonics
- Sterilize equipment and clean work areas

Skills/abilities you need to be successful - active listening, service orientation, critical thinking, social perceptiveness, near vision, speech clarity and recognition, arm-hand steadiness, finger/manual dexterity, attention to detail

Certification you may be eligible to receive upon successful completion -

- Two classes toward the Illinois Department of Financial and Professional Regulations Licensed Esthetician Certificate

Related careers - Dermatologist, Plastic Surgeon, Spa/Salon/Resort Skincare Specialist, Make-up Artist, Skincare Product Marketing, Purchasing or Consulting

Dual Credit: KCC EST 100 - Introduction to Esthetics (1 credit)

KCC PE 162 - First Aid & Emergency Response (3 credits)

## **FIRE SCIENCE I (15152A001)**

Grades: 11, 12

Fire Science I is the first year of a two-year sequence.

Units of study - OSFM Basic Operations Firefighter curriculum: cognitive and psychomotor components to Basic Operations Firefighter, Fire Service Vehicle Operator, Technical Rescue Awareness, Basic First Aid, AHA CPR and AED and NIMS 100 and 700

Tasks you will complete -

- Function safely and ethically as a basic firefighter within the organization of the fire department
- Identify hazards and take proper safety measures to operate at an emergency scene by applying knowledge of fire behavior, building construction, and communications
- Safely and effectively operate in an IDLH atmosphere using self contained breathing apparatus
- Use a portable extinguisher to properly extinguish all classes of fire
- Use various types of ropes and knots in an emergency scene setting

- Utilize the proper fire hose, appliances, nozzles, stream and water supply to extinguish fires
- Gain access to structures to perform rescues through proper forcible entry and ladder usage
- Properly ventilate a structure to facilitate rescues and fire extinguishment using ladders and ventilation tools and techniques
- Perform a scene size-up considering risk and savable victims, and use proper technique to search a structure and remove victims
- Apply the techniques of fire extinguishment including wildland fires from both an offensive and defensive attack
- Describe the role of fire prevention and fire protection systems on public safety
- Utilize knowledge of situational awareness, rapid intervention teams, and scene hazards to operate safely and survive on the fire ground

Skills/abilities you need to be successful - effective communication skills, integrity, composure, and a reassuring manner, ability to follow instructions, ability to work as part of a team, problem-solving skills, patience, understanding, and sensitivity, confidence and resilience, adaptability and flexibility, sound judgment, courage, decisiveness, quick reactions, and the ability to stay calm in difficult circumstances, willingness and ability to learn on a continued basis, interest in promoting community safety, education, and risk prevention

Certification you may be eligible to receive upon successful completion - Must be employed by a Fire Department and 18 years old to challenge OSFM state exams.

- Office of the State Fire Marshal Basic Operations Firefighter
- Office of the State Fire Marshal Technical Rescue Awareness
- Office of the State Fire Marshal Fire Service Vehicle Operator
- American Heart Association CPR and AED
- National Incident Management System 100 and 700

Related careers - Volunteer firefighter, Probationary firefighter, Contract firefighter, Industrial firefighter

Dual Credit: WCC FSC 105 - Basic Operations Firefighter Module A (4 credits); FSC 115 - Basic Operations Firefighter Module B (4 credits); FSC 118 - Basic Operations Firefighter Module C (4.5 credits); and FSC 215 - Technical Rescue & Vehicle Operations (.5 credit).

Articulated Credit: WCC FSC 105 - Basic Operations Firefighter Module A (4 credits); FSC 115 - Basic Operations Firefighter Module B (4 credits); FSC 118 - Basic Operations Firefighter Module C (4.5 credits) and FSC 215 - Technical Rescue & Vehicle Operations (.5 credit).

## **FIRE SCIENCE II (15152A002)**

Grade: 12

Required: 70% or higher in Fire Science I

Fire Science II is the second year of a two-year sequence.

Units of study - OSFM Advanced Technician Firefighter curriculum: the cognitive and psychomotor relevant to a journeyman firefighter, OSFM Vehicle Machinery Operations, Hazardous Materials Awareness/Operations, and Rope Operations, NIMS 200 and 800

Tasks you will complete -

- Demonstrate the need for the Incident Command System
- Demonstrate how to complete a basic NFIRS incident report

- Demonstrate how to determine developing hazardous building conditions
- Demonstrate operating hose testing equipment and nozzles
- Demonstrate using a Pitot tube and gauge to read and record flow GPM, static pressures and flow pressures
- Demonstrate operating power plants, power tools, and lighting equipment
- Demonstrate the ability to operate hand and power tools and special forcible entry/exit needs
- Demonstrate the ability to operate hand and power tools for forcible entry
- Demonstrate the role of the advanced firefighter in ventilation operations
- Demonstrate attack techniques and coordinate fire attack for various types of structure fires
- Demonstrate the ability to identify the components of a fire suppression and detection system
- Demonstrate assembling a Rapid Intervention Team (RIT) with proper tools and equipment to function as a RIT team when a mayday is called
- Demonstrate the ability to assist rescue teams and establish public barriers when assigned

Skills/abilities you need to be successful - In addition to Fire Science 1, ability to assist substitute instructor in absence of Chief Pruski, ability to lead class in daily roll call (attendance, Pledge of Allegiance, LODD bell ceremony), ability to lead a class company during individual skills and company scenarios, Class Honor Guard

Certification you may be eligible to receive upon successful completion - Must be employed by a Fire Department and 18 years old to challenge OSFM state exams.

- Office of the State Fire Marshal Advanced Technician Firefighter
- Office of the State Fire Marshal Hazardous Materials Awareness/Operations
- Office of the State Fire Marshal Vehicle Machinery Operations
- Office of the State Fire Marshal Rope Operations
- National Incident Management System 200 and 800

Related careers - Volunteer firefighter, Probationary firefighter, Contract firefighter, Industrial firefighter, Fire Service Officer, Fire Fighting Instructor, Specialty Certifications (Technical Rescue and Hazardous Materials)

Dual Credit: WCC FSC 125 - Advanced Technician Firefighter (4 credits); FSC 150 - Vehicle Machinery Operations (3 credits) and FSC 120 Hazardous Materials Operations (3 credits).

Articulated Credit: WCC FSC 125 - Advanced Technician Firefighter (4 credits); FSC 150 - Vehicle Machinery Operations (3 credits) and FSC 120 Hazardous Materials Operations (3 credits).

### **GRAPHIC DESIGN I (11154A001)**

Grades: 11, 12

Graphic Design I is the first year of a two-year sequence.

Units of study - Basic computer use, basic illustrating software (Illustrator), photo editing software (Photoshop, Bridge), publishing software (InDesign), basic equipment use for mock-up tools, presentation tools, vinyl cutter, vinyl and heat transfer equipment, basic use of a digital camera

Tasks you will complete -

- Determine arrangement of illustrative material and select style and size of type
- Create designs, concepts, and sample layouts, based on knowledge of layout principles and color theory
- Develop graphics and layouts for product illustrations
- Use computer software to generate new images
- Use computer software to edit photographs
- Review final layouts and suggest improvements as needed to peers
- Maintain organized portfolio of images, photos, or previous work products
- Prepare illustrations or rough sketches of material
- Use digital cameras, filters and tripods
- Determine desired images and picture composition, selecting and adjusting subjects, equipment, and lighting to achieve desired effects
- Adjust apertures, shutter speeds, and camera focus based on a combination of factors such as lighting, field depth and subject motion
- Transfer photographs to computers for editing, archiving, and electronic transmission

Skills/abilities you need to be successful - active listening, critical thinking, speaking in front of peers/clients, group work, reading comprehension, active learning, decision making, time management, following instructions, creativity, coordination

Related careers - Advertising, Desktop Publisher, Art Director, Photographer, Multimedia Artist, Project Management, Promotions Manager, Artist, Creative Director, Creative Manager, Design Director, Designer, Graphic Artist, Graphic Designer, Online Producer, Production Artist, Publications Designer

Articulated Credit: WCC GRD 160 - Computer Illustration (3 credits)

## **GRAPHIC DESIGN II (11154A002)**

Grade: 12

Required: 70% or higher in Graphic Design I

Graphic Design II is the second year of a two-year sequence.

Units of study - Computer use, advanced illustrating software (Illustrator), photo editing software (Photoshop), publishing software (InDesign), equipment use for mock-up tools, presentation tools, vinyl cutter, vinyl and heat transfer equipment, advanced use of a digital camera, customer service

Tasks you will complete -

- Determine arrangement of illustrative material and select style and size of type
- Confer with clients to discuss and determine job specifications
- Create designs, concepts, and sample layouts, based on knowledge of layout principles and color theory
- Develop graphics and layouts for product illustrations
- Use computer software to generate new images
- Use computer software to edit photographs
- Review final layouts and suggest improvements as needed to peers
- Maintain organized portfolio of images, photos, or previous work products
- Prepare illustrations or rough sketches of material, discuss with clients or instructor and make necessary changes
- Draw and print illustrations and other artwork using computer
- Research new software or design concepts
- Study illustrations and photographs to plan presentation of materials, products or services (when necessary)

- Act as a mentor / role model to first year students
- Use digital cameras, filters and tripods
- Determine desired images and picture composition, selecting and adjusting subjects, equipment, and lighting to achieve desired effects
- Adjust apertures, shutter speeds, and camera focus based on a combination of factors such as lighting, field depth and subject motion
- Transfer photographs to computers for editing, archiving, and electronic transmission

Skills/abilities you need to be successful - active listening, critical thinking, speaking in front of peers/clients, group work, reading comprehension, active learning, decision making, time management, following instructions, creativity, coordination

Related careers - Advertising, Desktop Publisher, Art Director, Photographer, Multimedia Artist, Project Management, Promotions Manager, Artist, Creative Director, Creative Manager, Design Director, Designer, Graphic Artist, Graphic Designer, Online Producer, Production Artist, Publications Designer

Articulated Credit: WCC GRD 170 - Digital Image (3 credits)

### **HEALTH OCCUPATIONS (14002A002)**

Grades: 11, 12

Health Occupations is a stand-alone one year course.

Units of study - Infection control, safety, CPR, medical terminology, healthcare communication, legal issues/ethics, basic anatomy, nutrition in healthcare

Tasks you will complete -

- Job Shadowing of various local healthcare facilities including hospital departments - OB, Med-Surg units, Diagnostic Imaging, Surgical, ER; dental offices; veterinary clinics, EMT ride alongs
- Vital Signs
- Medical Terminology
- Communicating effectively in a healthcare setting

Skills/abilities you need to be successful - work well in a team based atmosphere, active listening, effective communication skills, displays professionalism

Certification you may be eligible to receive upon successful completion -

- CPR certification

Related careers - CNA, RN, Phlebotomist, Med Tech, Vet Tech, Dental Assistant, Dental Hygienist, Medical Assistant, Surgical Tech, Surgical Assistant, X-ray Tech, Occupational Therapy Assistant, Counselor, Social Worker, Physical Therapy Assistant, Massage Therapist, Dietary Aide, Respiratory Therapy, Pharmacy Tech

Dual Credit: WCC COM 125 - Communication Strategies for Health Careers (2 credits)

Articulated Credit: WCC HIT 105 - Medical Terms for Health Occupations (1 credit)

## **LAW ENFORCEMENT I (15051A003)**

Grades: 11, 12

Law Enforcement I is the first year of a two-year sequence.

Units of study - History of Law Enforcement, tools used in law enforcement, criminal law and offenses, Illinois Vehicle Code, including DUI and accidents, search and seizure, use of force, combat tactics and force mitigation, courts and courtroom procedures, crime scene investigations, firearms training, investigate crimes in progress

Tasks you will complete -

- Record facts to prepare reports that document incidents and activities
- Review facts of incidents to determine if criminal act or statute violations were involved
- Gather information
- Drill and ceremony used by military
- Identify elements of a crime
- Utilize resources to complete projects
- Defend one's personal space
- Respond to simulated crimes in progress
- Simulate effective detainment of suspects and offenders
- Conduct simulated searches of both people, property and vehicles

Skills/abilities you need to be successful - integrity, dependability, self-control, active listening, critical thinking, public speaking, one-to-one speaking, conflict resolution, reading comprehension, judgment and decision making, time management, writing, active learning, negotiation

Related careers - Sheriff, State Police, Conservation Officer, Federal Agent, Process Server, Bailiff, Parole Officer, Correctional Officer, Security Guard, Forensic Specialist, Detective, Private Investigator, Emergency Medical Tech, SWAT Officer, Juvenile Officer

Articulated Credit: WCC CRJ 105 - Criminal Justice Career Exploration (2 credits)

## **LAW ENFORCEMENT II (15051A004)**

Grade: 12

Required: 70% or higher in Law Enforcement I

Law Enforcement II is the second year of a two-year sequence.

Units of study - Investigating violent crimes, interviewing and interrogation, investigating crimes against children, investigating crimes against property, investigating terrorism, search and seizure, use of force, combat tactics and force mitigation, courts and courtroom procedures, crime scene investigations, firearms training

Tasks you will complete -

- Record facts to prepare reports that document incidents and activities
- Review facts of incidents to determine if criminal act or statute violations were involved.
- Gather information
- Identify elements of a crime
- Utilize resources to complete projects

- Defend one's personal space
- Respond to simulated crimes in progress
- Simulate effective detainment of suspects and offenders
- Conduct simulated searches of both people, property and vehicles

Skills/abilities you need to be successful - integrity, dependability, self-control, active listening, critical thinking, public speaking, one-to-one speaking, conflict resolution, reading comprehension, judgment and decision making, time management, writing, active learning, negotiation

Related careers - Sheriff, State Police, Conservation Officer, Federal Agent, Process Server, Bailiff, Parole Officer, Correctional Officer, Security Guard, Forensic Specialist, Detective, Private Investigator, Emergency Medical Tech, SWAT Officer, Juvenile Officer

### **SPORTS MEDICINE I (14062A001)**

Grades: 11, 12

Recommended: 70% or higher in Biology I, genuine interest in Science

Sports Medicine I is the first year of a two-year sequence.

Units of study - History of Sports Medicine, careers in Sports Medicine, sport law, confidentiality, insurance, anatomical terminology & direction, emergency treatment in sport, injury, illness & healing, documentation, lower extremity injuries, axial injuries, upper extremity injuries, basic nutrition, introduction to Exercise Science concepts, fitness concepts

Tasks you will complete -

- Demonstrate an understanding of the musculoskeletal system and its components
- CPR & first aid treatments
- Taping of the foot, ankle, knee, hand, wrist, thumb & fingers
- Supportive wrapping of the knee, hip and shoulder
- Crutch and sling fitting
- Conduct an initial assessment of an athlete's injury or illness to provide emergency or continued care
- Follow basic fitness guidelines
- Demonstrate proper technique in various exercises

Skills/abilities you need to be successful - active listening, critical thinking, monitoring, speaking, active learning, deductive reasoning, oral comprehension

Certification you may be eligible to pursue upon successful completion -

- Personal Training Certification (18 and older)

Related careers - Certified Athletic Trainer, Physical Therapist & Assistant, Occupational Therapist & Assistant, Fitness Instructor, Personal Trainer, Nurse, Sports Medicine Physician, Chiropractor

**\*\*Most of these occupations require post-secondary education**

Dual Credit: WCC PED 150 - Basic Prevention & Care of Athletic Injuries (3 credits)

## **SPORTS MEDICINE II (14062A001)**

Grade: 12

Required: 70% or higher in Sports Medicine I, genuine interest in Sports Med career

Sports Medicine II is the second year of a two-year sequence.

**\*\*Students will participate in an internship rotation. Must have reliable transportation.\*\***

Units of study - Anatomy review, advanced medical terminology, basic exercise physiology concepts, advanced evaluation/assessment techniques, personal training client assessment, program design, therapeutic modalities

Tasks you will complete -

- Apply practical skills mastered in SM I at internship sites
- Identify and use proper medical terminology in workplace
- Demonstrate accountability and responsibility through internship
- Facilitate communication between IVVC, home school and internship
- Abide by all internship policies and procedures
- Show a clear path of steps after high school
- Demonstrate a deeper knowledge of exercise science
- Prepare a professional resume
- Participate in mock interviews

Skills/abilities you need to be successful - active listening, critical thinking, monitoring, self initiative, active learning, deductive reasoning, oral comprehension, time management, superb communication

Certification you may be eligible to pursue upon successful completion -

- Personal Training Certification (18 and older)

Related careers - Certified Athletic Trainer, Physical Therapist & Assistant, Occupational Therapist & Assistant, Fitness Instructor, Personal Trainer, Nurse, Sports Medicine Physician, Chiropractor

**\*\*Most of these occupations require post-secondary education**

## **WELDING & FABRICATION I (13207A001)**

Grades: 11, 12

Welding & Fabrication I is the first year of a two-year sequence.

Units of study - Shop safety, MIG welding, oxy acetylene welding, shielded metal arc welding, stick welding, blueprint reading, layout and fabrication processes

Tasks you will complete -

- Weld components in flat and horizontal positions
- Operate safety equipment and use safe work habits
- Lay out, position, align, and secure parts and assemblies prior to assembly, using straightedges, combination squares, calipers, and rulers

- Recognize, set up, and operate hand and power tools common to the welding trade, such as shielded metal arc and gas metal arc welding equipment
- Select and install torches, torch tips, filler rods, and flux, according to welding chart specifications or types and thicknesses of metals
- Ignite torches or start power supplies and strike arcs by touching electrodes to metals being welded, completing electrical circuits
- Analyze engineering drawings, blueprints, specifications, sketches, work orders, and material safety data sheets to plan layout, assembly, and welding operations
- Chip or grind off excess weld, slag, or spatter, using hand scrapers or power chippers, portable grinders, or arc-cutting equipment
- Remove rough spots from work pieces, using portable grinders, hand files, or scrapers
- Prepare all material surfaces to be welded, ensuring that there is no loose or thick scale, slag, rust, moisture, grease, or other foreign matter
- Dismantle metal assemblies or cut scrap metal, using thermal-cutting equipment, such as flame-cutting torches or plasma-arc equipment

Skills/abilities you need to be successful - respectful & highly motivated, ability to follow instructions, ability to work as part of a team, problem-solving skills, willingness and ability to learn, hand and eye coordination, very detail oriented and organized, ability to work independently in the shop, dependability, manual dexterity, mathematics/measuring

Certification you may be eligible to receive upon successful completion -

- OSHA-10 Safety Certification

Related careers - Ironworker, Pipefitter, Boilermaker, Assembler/Fabricator, Steam Fitter, Machinist, Tool and Die Maker, Sheet Metal Worker, Underwater Welder, Maintenance Welder, Sub Arc Operator, Construction Worker, Machine Operator

## **WELDING & FABRICATION II (13207A002)**

Grade: 12

Required: 70% or higher in Welding & Fabrication I

Welding & Fabrication II is the second year of a two-year sequence.

Units of study - Overhead and vertical welding positions, variable diameter and thicknesses of pipe, specialized TIG welding processes in aluminum and stainless steel

Tasks you will complete -

- Weld components in flat, horizontal, vertical, and overhead positions
- Operate safety equipment and use safe work habits
- Select and install torches, torch tips, filler rods, and flux, according to welding chart specifications or types and thicknesses of metals
- Analyze engineering drawings, blueprints, specifications, sketches, work orders, and material safety data sheets to plan layout, assembly, and welding operations
- Clamp, hold, tack-weld, heat-bend, grind or bolt component parts to obtain required configurations and positions for welding
- Determine required equipment and welding methods, applying knowledge of metallurgy, geometry, and welding techniques
- Monitor the fitting, burning, and welding processes to avoid overheating of parts or warping, shrinking, distortion, or expansion of material
- Operate manual or semi-automatic welding equipment to fuse metal segments, using processes such as gas tungsten arc, gas metal arc, flux-cored arc, plasma arc, shielded metal arc, resistance welding, and submerged arc welding
- Analyze engineering drawings, blueprints, specifications, sketches, work orders, and material safety data sheets to plan layout, assembly, and welding operations

- Develop templates and models for welding projects, using mathematical calculations based on blueprint information
- Repair products by dismantling, straightening, reshaping, and reassembling parts, using cutting torches, straightening presses, and hand tools
- Calculate dimensions or tolerances, using instruments such as micrometers or vernier calipers
- Machine parts to specifications, using machine tools, such as lathes, milling machines, shapers, or grinders

Skills/abilities you need to be successful - respectful & highly motivated, ability to follow instructions, ability to work as part of a team, problem-solving skills, willingness and ability to learn, hand and eye coordination, very detail oriented and organized, ability to work independently in the shop, dependability, manual dexterity, mathematics/measuring

Certification you may be eligible to receive upon successful completion -

- OSHA-10 Safety Certification

Related careers - Ironworker, Pipefitter, Boilermaker, Assembler/Fabricator, Steam Fitter, Machinist, Tool and Die Maker, Sheet Metal Worker, Underwater Welder, Maintenance Welder, Sub Arc Operator, Construction Worker, Machine Operator

Articulated Credit: WCC WLD 100 - Survey of Welding (3 credits); WLD 115 - Oxy-Fuel Welding & Cutting (3 credits); and WLD 120 - Shielded Metal Arc Welding I (3 credits)

**JJC - Joliet Junior College**

**KCC - Kishwaukee Community College**

**WCC - Waubensee Community College**

## Miscellaneous Course

### **WCC Class Option (22999A000)**

*1 Semester = 0.50 credit*

Prerequisite: **Grade 12**; Must be eligible to graduate

Class for seniors that wish to take college level course through Waubensee Community College. Will not count towards GPA. **Students will receive dual credit for the course.**

### **Resource**

1 semester= .5 Elective Credit

Students are given specialized and direct academic, behavioral, and social-emotional support to ensure success in the educational setting.

Prerequisite: Placement by educational team recommendation only. May be repeated for credit.

### **English Enrichment I - (Grades 9-10)**

1 Semester = .5 Elective Credit

Students will receive small group and individualized academic support. There will be a heavy emphasis on foundational vocabulary, grammar, reading and writing skills found in language intensive courses such as English and History. The student will receive an elective credit for the course. Prerequisite: Educational team recommendation required. May be repeated for credit.

**English Enrichment II - (Grades 11-12)**

1 Semester = .5 Elective Credit

Students will receive small group and individualized academic support. There will be a heavy emphasis on foundational vocabulary, grammar, reading and writing skills found in language intensive courses such as English and History. The student will receive an elective credit for the course. Prerequisite: Educational team recommendation required. May be repeated for credit.