



# **VALLEY CENTER HIGH SCHOOL**

## **2024-2025**

## **CURRICULUM GUIDE**

**Valley Center High School**  
**9600 N Meridian**  
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## PRINCIPAL'S MESSAGE

This Curriculum Guide is intended to assist you in planning your academic school year. Courses at Valley Center High School receive semester credits, and vary from one to two semesters in length. Students enroll in 7 courses each semester. We start the enrollment process based on your choices on your Individual Plan of Study, Xello. We do this so that the schedule is designed around your interests.

**Take special care to enroll in courses that you wish to take and that meet your goals, as schedule changes will be limited to the following:** (1) student requests after summer school credit is earned, (2) teacher recommendation if students are misplaced, do not have prerequisites, or do not have the necessary background to be successful in the course, and (3) discipline purposes. Those requesting teacher changes will need to contact the counseling office.

Please read it carefully. Study the Valley Center High School graduation requirements, the Qualified Admissions Curriculum, the Kansas Scholars Curriculum, the NCAA Division I and Division II Eligibility Standards, and NAIA Eligibility. With your parents and teachers, discuss which courses are best for you. Special problems or concerns should be presented to the counselors and/or administration.

Proper course selection is an important part of a high school education. Because of the Qualified Admissions to 4-year colleges in Kansas, it is important that students who plan to attend college enroll in the approved courses while in high school. Although a foreign language is not a requirement for college admission, two years of the same foreign language is a requirement to be eligible for certain scholarships.

Refer to specific sections of the Curriculum Guide for information about the Class Repeat Policy, Academic Eligibility, Fees and Materials, Classification by Number of Credits, and Exceptions to Full-day Enrollment.

It is my hope that you will find this Curriculum Guide to be of assistance in selecting appropriate courses. As educators, it is our job to help students reach beyond themselves. **Students, we urge you to include your parents and guardians in the enrollment process. Parents and Guardians,** we urge you to assist your student in working hard and accepting the challenges found within the Valley Center High School environment. If you have questions regarding enrollment, graduation, post-secondary education, financial aid, scholarships, or extended illness and injury please call the counseling office at 316-755-7072, to speak with one of the counselors.

#MakeTodayCount,

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Principal Valley Center High School  
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## ACADEMIC ELIGIBILITY

According to the Kansas High School Activities Association, in order for students to be eligible for activities, they must meet scholarship and enrollment conditions. KSHSAA 13-1-3:

a. Scholarship-The student shall have passed at least five new subjects (those not previously passed) of unit weight (0.5), or its equivalent, the previous semester or the last semester of attendance.

b. Enrollment-The student shall be enrolled in and attending a minimum of five new subjects (those not previously passed), of unit weight (0.5), or its equivalent, during the present semester.

## COURSE ENROLLMENT

All enrollments are subject to Teacher/Administrative approval.

## EXCEPTIONS TO FULL DAY ENROLLMENT

Students may not enroll in less than a full day (7 hours) of course work at VCHS unless they meet the criteria for Senior Release or are enrolled in one of the following as part of their full day program: Work Study, Vo-Tech Training, College Study or Internship.

## FEES AND MATERIALS

Some classes require fees and materials in addition to the general enrollment fee. These classes are noted in the course descriptions "Supplies Needed" section. Fees are set at a date prior to the beginning of school in the fall and are usually published in the "Back to School" edition of the local newspaper.

## REPEATING REQUIRED CLASSES

If a student fails both semesters of a required course, the student must complete the course failed with a passing grade before enrolling in a more advanced class. If a student fails only one semester of a required course, the student may enroll in two courses of same subject as recommended by their counselor. (Exception: To enroll in a math class, a student must successfully complete both semesters of the previous course with a passing grade.) Seniors may enroll in required courses to meet graduation requirements without being limited by course sequence. Students may repeat classes at the high school, requesting a different teacher when possible, or by enrolling in summer school or after-school classes at The Learning Center.

## SCHEDULE CHANGES

- Individual schedules are built from student requests during pre-enrollment in the spring. Once the master schedule has been established, it is very difficult to change individual schedules.
- All schedule changes must be requested within the **first week** of the semester.
- Schedule change forms are located in the guidance office.
- All schedule changes will require instructor, counselor, principal, and parent approval.
- In courses dropped after the **first week** of the semester, you will receive "WF" on your transcript for the semester in that course **and will receive no credit**. You will be expected to continue regular attendance at school and may be assigned to another teacher for supervision.

Administrative schedule changes for discipline purposes may be made during the semester. Students will remain eligible for credit if a schedule change allows the student to remain in the course with a different teacher.

## WITHDRAW WITH "WF"

Students have **one week** from the first day of the semester in which to request a schedule change. Students are not allowed to make a schedule change following the one-week time period. Courses in which a student drops after the **first week** of the semester, will result in receiving a "WF" on their transcript for the semester in that course **and will receive no credit**. Students will be expected to continue regular attendance at school and may be assigned to another teacher for supervision.

## CLASSIFICATION BY NUMBER OF CREDITS

The number of credits students has earned having a passing grade of "D" or above will classify them at grade level. Courses in which the student earns the grade of "F" or "WF", will not count for credit. Students will be classified as follows:

Students with 0-6 credits are classified: Freshman

Students with 6.5-12.5 credits are classified: Sophomore

Students with 13-18.5 credits are classified: Junior

Students with 19 or more credits are classified: Senior

This policy affects the student's involvement in school life because eligibility for activities and privileges are based on classification. This is also a way to keep students and parents informed as to progress towards graduation. Students may be reclassified after completion of summer school.

## EARLY GRADUATION

Seniors wishing to graduate at the end of fall semester, to go on to college or continue a post-secondary training program, must make application to do so in the spring, or by the end of the first week of the fall semester. See your counselor for an application. The early graduation application includes student, parent, and counselor signatures. The student and parent will also provide letters identifying reasons for early graduation and plans after high school.

## OFF-SITE COLLEGE CLASSES FOR HIGH SCHOOL CREDIT

Students may take courses by arrangement at a community college or 4-year college/university. A college class of 3 credit hours will be accepted for .5 credits at the high school. Junior students may enroll in one 3-credit hour class per semester. Seniors may enroll in two 3-credit hour classes per semester. Prior approval of the counselor and principal is needed.

## SENIOR RELEASE

Seniors who have completed at least 23 credits by the end of their 7th semester of high school may request Senior Release for part of the day for their last semester of high school. These seniors must meet with their counselor at the end of the fall semester, complete a graduation plan, and have signed parent permission. Students participating in KSHSAA sanctioned activities must be enrolled in five courses at their high school. Students with senior release are not allowed to be on campus during the release time.

## SUMMER SCHOOL CREDIT

Summer school is offered at Valley Center High School, in the Credit Recovery lab. Valley Center High School students are encouraged to attend summer school to repeat courses failed. High school subjects at any accredited summer school program will be accepted for credit. Counselors will write letters of recommendation to any school for any student needing or wanting to take summer school. Applications are available in the Guidance Office.

## EDGENUNITY LAB

The Credit Recovery lab, located within the Valley Center High School, is designed to assist high school students who may need support with credit recovery. Students will work independently to complete coursework. The following programs are available:

- On-site, scheduled coursework as part of the student's regularly scheduled school day
- Summer School – Students may complete previously failed courses.

## THE LEARNING CENTER

The Learning Center is a school designed to assist those students who need specialized learning option in order to complete the requirements for earning a Valley Center High School diploma. The Learning Center provides instruction through a virtual school environment. **Valley Center High School Administration must recommend students for attendance to The Learning Center.** All applicable applications and contracts must be agreed upon prior to enrollment in this program.

## CLUBS AT VCHS

Art Club	Letterwomen's Club
Auto Club	Marvel, Magna & Anime
Chess Club	NFL (National Forensics League)
Clay Target Team	NHS (National Honor Society)
DECA	PRIDE/GSA Club
Drama Club	Prom Committee
Dungeons & Dragons Club	Robotics
EESV (Empowerment and Educated Student Voices)	SADD/SAFE (Students Against Destructive Decisions)
Environmental/Clean Up Club	Scholar's Bowl
ESports	Science Club
FBLA (Future Business Leaders Association)	STEM (Science, Technology, Engineering & Math)
FCA (Fellowship of Christian Athletes)	Skills USA
FCCLA (Family, Career & Community Leaders of America)	Spanish Club
Friendship Club	Student Council
HOSA-Future Health (Health Occupation Students of America)	Table Tennis
Improv Club	Varsity Club
Journalism Club	Word Nerds-Creative Writing & Analytical Literature
Knitting Club	

## ACTIVITIES AT VCHS

Baseball	Debate	Scholars Bowl	Track & Field
Basketball	Drama	Soccer	Unified Bowling
Bowling	Football	Softball	Vocal Music
Cheerleading	Forensics	Student Council	Volleyball
Cross Country	Golf	Swimming & Diving	Wrestling
Dance Team	Marching Band/Pep Band	Tennis	Yearbook

## VALLEY CENTER HIGH SCHOOL GRADUATION REQUIREMENTS

**Twenty-six (26) credits are required for graduation. Credits earned in grades 9 through 12 are counted towards graduation. Passing grades of "D", or above, must be earned, for credit to be granted. All students must pass the following REQUIRED CLASSES:**

### **1. English (4 credits)**

Freshman English  
Sophomore English  
Junior English  
Senior English

### **2. Science (3 credits) - two of which must be a lab science and one must be Biology\***

Freshman: Physical Science\*  
Sophomore: a lab course, Chemistry\* or Biology\*  
Junior/Senior: Chemistry\*, Physics\*, Biology\* or other elective science  
\* = Lab Science

### **3. Mathematics (3 credits)**

Freshman: Pre-Algebra, Algebra I or Geometry  
Sophomore: Algebra I, Geometry, Algebra II or Pre-Calculus  
Junior/Senior: Geometry, Algebra II, or Pre-Calculus, Calculus, elective or college math

### **4. Social Science (3 credits)**

Sophomore: World History  
Junior: U.S. History  
Senior: U.S. Government and 0.5 of additional social studies elective

### **5. Physical Education (1 credit)**

Freshman: Physical Education/Health (9<sup>th</sup> grade required for graduation-must be repeated if failed)

### **6. Fine Arts/Speech (1 credit)**

Fine Arts/Speech (1 credit) 0.5 credit is earned by taking Speech, Debate or Forensics, Communications in the Workplace or College Credit Speech, and an additional .5 credit must be earned by taking one eligible course from the following curricular areas: Vocal Music, Instrumental Music, Art, Drama, Journalism, Woodworking/Construction, Apparel Production, or an additional .5 credit of Debate or Forensics.

### **7. Consumer and Personal Finance (0.5 credit)**

0.5 credit is earned by taking Consumer and Personal Finance.  
(Students in graduating classes 2021-2023 may also earn this credit by meeting the previous Information Technology requirement of 0.5 credit by taking Web Page Design I, Interactive Media, Computer Programming, Microsoft Office Certification, Drafting, Architectural Design, or Computer Graphics)

### **8. Elective credits**

10.5 elective credits

## **CUM LAUDE**

Effective with the graduating Class of 2019, Valley Center High School will no longer recognize Valedictorians and Salutatorians. Rather we will recognize students according to the following Cum Laude system:

- Cum Laude 3.5 – 3.6999 GPA
- Magna Cum Laude 3.7 – 3.8999 GPA
- Summa Cum Laude 3.9 GPA or higher

For any student meeting the criteria for one of the above tiers, we will also distinguish those who completed the Kansas Honor Scholars Curriculum set forth by the Kansas Board of Regents, graduate with a cumulative GPA of 3.5 or higher, and score a 26 or higher composite on the ACT. These particular students will be honored and recognized using the title of "Honor Scholar."

# VALLEY CENTER HIGH SCHOOL GRADUATION REQUIREMENTS

## Class of 2028

**Twenty-six (26) credits are required for graduation. Credits earned in grades 9 through 12 are count towards graduation. Passing grades of "D", or above, must be earned, for credit to be granted. All students must pass the following REQUIRED CLASSES:**

**1. English (4 credits)**

Freshman English  
Sophomore English  
Junior English  
Senior English

**2. Science (3 credits) - two of which must be a lab science and one must be Biology\***

Freshman: Physical Science\*  
Sophomore: a lab course, Chemistry\* or Biology\*  
Junior/Senior: Chemistry\*, Physics\*, Biology\* or other elective science  
\* = Lab Science

**3. Mathematics (3 credits)**

Freshman: Pre-Algebra, Algebra I or Geometry  
Sophomore: Algebra I, Geometry, Algebra II or Pre-Calculus  
Junior/Senior: Geometry, Algebra II, or Pre-Calculus, Calculus, elective or college math

**4. Social Science (3 credits)**

Sophomore: World History  
Junior: U.S. History  
Senior: U.S. Government and 0.5 of additional social studies elective

**5. Physical Education (1 credit)**

Freshman: Physical Education/Health (9<sup>th</sup> grade required for graduation-must be repeated if failed)

**6. Fine Arts (1 credit)**

1 credit from the following curricular areas: Vocal Music, Instrumental Music, Art, Drama, Journalism, Woodworking/Construction, Apparel Production, or an additional 1.0 credit of Debate or Forensics.

**7. Speech (0.5 credit)**

0.5 credit is earned by taking Speech, Debate or Forensics, Communications in the Workplace or College Credit Speech

**8. Financial Literacy (0.5 credit)**

0.5 credit is earned by taking Financial Literacy

**9. STEM elective (1.0 credit)**

1.0 credit earned by taking computer science, advanced math, advanced science, robotics, advanced CTE or advanced technology.

**10. Elective credits**

9 elective credits driven by IPS planning

To meet new state of Kansas graduation standards, students will also be required to complete two post-secondary assets. These can fulfill either the career and real-world criteria or academic criteria. Examples include: youth apprenticeship, 40+ community hours, client-centered project, workplace learning experience, industry recognized certifications, seal of biliteracy, CTE Scholar, Eagle Scout or Gold Scout, 4H Key award, 2+ HS Athletics/Activities, or 90% attendance in HS. ACT Composite of 21 or higher, WorkKeys level silver or higher, 9+ college hours, State Assessment Scores 3 or 4 for math, ELA or science, ASVAB, Senior Project/Senior Exit interview, SAT score of 1480 or higher, Completing the Board of Regents Curriculum, or AP score of 3+. Students must also complete the FAFSA or officially opt out. Counselors will work with students to track and document all graduation requirements.

## **KANSAS REGENTS QUALIFIED ADMISSIONS FOR HIGH SCHOOL GRADUATES**

Freshman applicants, under the age of 21, who graduate from an accredited high school, will be guaranteed admission to six state universities by meeting the Qualified Admissions requirements designated by each university, as follows:

### **For acceptance into ESU, FHSU, PSU and WSU:**

- ACT 21+ (SAT1060)  
**OR**
- 2.25+ cumulative GPA

### **For acceptance into KSU:**

- ACT 21+ (SAT1060)  
**OR**
- 3.25+ cumulative GPA

### **For acceptance into KU:**

- ACT 21+ (SAT1060) **AND** Cumulative GPA 2.0+  
**OR**
- 3.25+ cumulative GPA

### **ALL institutions require:**

- Cumulative GPA 2.0+ for College Credits earned in High School



**KANSAS REGENTS RECOMMENDED CURRICULUM**  
**FOR SCHOLARSHIP CONSIDERATION**  
**(KANSAS HONOR SCHOLARS REQUIRED CURRICULUM)**

As a Kansas high school graduate, you may be eligible to be considered for the state-sponsored scholarship programs.

To be eligible to be considered for one of these state sponsored scholarships, you must **COMPLETE ALL THE REQUIRED COURSES FOR THE QUALIFIED ADMISSIONS CURRICULUM**, plus an additional three units, as follows:

Note: 1 unit = 1 year or 2 semesters

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**NATURAL SCIENCE**

**To be eligible for scholarship consideration, you must take all three of the following courses:**

Biology  
Chemistry  
Physics

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**MATH**

**1 additional unit (For a total of 4 units)**

In addition to Algebra I, Algebra II, and Geometry, you are required to complete at least one unit of advanced mathematics selected from:

Analytic Geometry  
Trigonometry  
Advanced Algebra  
Probability and Statistics  
Functions  
Calculus

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**FOREIGN  
LANGUAGE**

**2 units required**

You must complete two high school units in one foreign language.

State Scholar **designation** is based upon an index ranking which is a mathematical product of the seventh semester cumulative GPA and ACT Composite score. Therefore, students must meet two criteria to be **eligible** for State Scholar consideration:

- Take the ACT Assessment between April 1 of the sophomore year and December 31 of the senior year, and
- Complete the Kansas Scholars Curriculum.

**Awards are based on financial need.**

**KANSAS ETHNIC MINORITY SCHOLARSHIP**

This program is designed to assist financially needy, academically competitive students who are identified as members of any of the following ethnic/racial groups: African American, American Indian or Alaskan Native, Asian or Pacific Islander, or Hispanic.

The minimum academic requirements include **one** of the following: 1) ACT score 21 or SAT of 990; 2) Cumulative high school GPA of 3.0; 3) High school rank in upper 33%; 4) Completion of Kansas Scholars Curriculum; 5) Selection by National Merit Corporation in any category or; 6) Selection by College Board as a Hispanic Scholar. Applicants must complete the state application form and have their high school counselor complete the high school information form.

## NCAA CLEARING HOUSE INITIAL ELIGIBILITY

### Important Information about Division I

**NCAA Division I full Qualifier:** Students will need to meet the following requirements to receive athletics aid, practice and compete their first year:

#### 16 core courses in the following areas:

4 years of English

3 year of mathematics (Algebra I or higher)

2 years of natural/physical science (one must be a lab science)

1 year of additional English, math or natural/physical science

2 years of social sciences

4 years of additional core courses from areas above, or from foreign language, non-doctrinal religion or philosophy

**Minimum required GPA:** minimum required GPA of **2.300** in those 16 core courses.

**Core-course progression:** Must complete **10** core courses before seventh semester of high school (e.g., senior year). Of the **10** course courses completed, seven must be in the English, math or science. These **10** course courses become “locked in” for the purpose of GPA calculation. A repeat of one of the “locked in” courses will not be used if taken after the seventh semester begins.

#### Graduate from high school.

Students should register with the eligibility center by visiting the eligibility center Website at [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net) during their Junior year.

The full competition sliding scale for full qualifier, academic redshirt and non-qualifier can be found at [www.eligibilitycenter.org](http://www.eligibilitycenter.org) under Resources.

**\*Schedule a conference with your counselor immediately if you plan to participate in athletics at a Division I or Division II school.**

# Valley Center's Kansas Career Pathways

## AVIATION

AVIATION
Introductory Courses
Intro to Industrial Technology *
Technical Courses
Hand and Power Tools Aviation Fundamentals – DC Drafting/CAD I - DC
Application Courses
Engineering Internship

## BUSINESS

BUSINESS ENTREPRENEURSHIP & MANAGEMENT
Introductory Courses
Business Essentials Microsoft Certification Academy
Technical Courses
Accounting – DC Advanced Microsoft Certification Academy Business Communications Business Management - DC Consumer and Personal Finance Economics Entrepreneurship Marketing
Application Courses
Business Internship

BUSINESS FINANCE
Introductory Courses
Business Essentials
Technical Courses
Accounting – DC Business Communications Consumer and Personal Finance Economics (Business) Entrepreneurship
Application Courses
Advanced Accounting - DC Finance Internship

MARKETING
Introductory Courses
Business Essentials Business Communications Microsoft Certification Academy
Technical Courses
Marketing Accounting I - DC Business Communications Business Management Economics (Business) Entrepreneurship Web Page Design
Application Courses
Marketing Applications Management - DC Marketing Internship

DC (Dual Credit Course)

\* Middle School Course

## DESIGN, PRODUCTION, & REPAIR

CONSTRUCTION AND DESIGN
Introductory Courses
Intro to Industrial Technology *
Technical Courses
Architecture Design I - DC Architecture Design II - DC Carpentry I/NCCER - DC Drafting/CAD I - DC Drafting/CAD II - CATIA - DC Woodworking Principles
Application Courses
Advanced Materials Technology - Internship Carpentry II/NCCER - DC Furniture Cabinetry and Fabrication - DC

ENGINEERING & APPLIED MATHEMATICS
Introductory Courses
Introduction to Engineering & Design Chemistry I
Technical Courses
Drafting/CAD I - DC Drafting/CAD II - CATIA - DC Principles of Engineering Robotics - DC
Application Courses
Computer Integrated Manufacturing-Automation - DC Engineering Design and Development Engineering Internship

MANUFACTURING
Introductory Courses
Introduction to Industrial Technology *
Technical Courses
Computer Aided Manufacturing I (CAM I) - DC Computer Aided Manufacturing II (CAM II) - DC Drafting/CAD I - DC Drafting/CAD II (CATIA) - DC
Application Courses
Advanced Materials Technology - Internship

MOBILE EQUIPMENT MAINTENANCE
Introductory Courses
Introduction to Industrial Technology *
Business Essentials
Technical Courses
Automotive Technology I Entrepreneurship
Application Courses
Automotive Technology II – DC Automotive Technology III – DC Transportation Technology Internship

## FAMILY AND CONSUMER SCIENCE

FAMILY, COMMUNITY & CONSUMER SERVICES
Introductory Courses
Introduction to Family and Consumer Sciences *
Career and Life Planning
Technical Courses
Consumer and Personal Finance Family Studies Human Growth and Development Nutrition and Wellness Culinary Essentials
Application Courses
Community Connections Internship

<b>RESTAURANT &amp; EVENT MANAGEMENT</b>
<b>Introductory Courses</b>
Introduction to Family and Consumer Sciences *
Business Essentials
Career and Life Planning
<b>Technical Courses</b>
Culinary Essentials
Culinary Arts I
Entrepreneurship
Marketing
<b>Application Courses</b>
Community Connections Internship

## HEALTH SCIENCES

<b>BIO MEDICAL</b>
<b>Introductory Courses</b>
STEM *
Biology I
Chemistry I
<b>Technical Courses</b>
Human Anatomy and Physiology - DC
Robotics – DC
Biology II - DC
<b>Application Courses</b>
BioMedical Internship

<b>HEALTH SCIENCES</b>
<b>Introductory Courses</b>
Biology I
Chemistry I
Health Sciences Exploration
<b>Technical Courses</b>
Biology II - DC
Care of Athletes
Medical Terminology - DC
Human Anatomy and Physiology - DC
Nutrition and Wellness
<b>Application Courses</b>
Certified Nurse Aid/Allied Health – DC
Health Sciences Internship

## FINE ARTS, TECHNOLOGY, AND COMMUNICATIONS

<b>DIGITAL MEDIA</b>
<b>Introductory Courses</b>
Business Essentials
Microsoft Certification Academy
<b>Technical Courses</b>
21 <sup>st</sup> Century Journalism
Art & Design Fundamentals
Intermediate 2D Design
Advanced 2D Design
Intro to Video Production
Photo Imaging
<b>Application Courses</b>
Yearbook
Advanced Video Production
Digital Media Internship

<b>GRAPHIC DESIGN</b>
<b>Introductory Courses</b>
Intro to Drawing *
Microsoft Certification Academy
<b>Technical Courses</b>
Art & Design Fundamentals
Intermediate 2D Design
Advanced 2D Design
Intermediate Computer Graphics
Advanced Computer Graphics
Photo Imaging
<b>Application Courses</b>
Graphic Design Internship

<b>WEB AND DIGITAL COMMUNICATIONS</b>
<b>Introductory Courses</b>
Microsoft Certification Academy
<b>Technical Courses</b>
Intermediate 2D Design
Advanced 2D Design
Intermediate Computer Graphics
Advanced Computer Graphics
Computer Programming
Interactive Media
Web Page Design I
<b>Application Courses</b>
Web and Digital Internship

## PUBLIC SERVICES

<b>TEACHING AND TRAINING</b>
<b>Introductory Courses</b>
Career and Life Planning
Intro to Family and Consumer Sciences *
<b>Technical Courses</b>
Family Studies
Human Growth and Development
Teaching as a Career
<b>Application Courses</b>
Teaching Internship

## OFF CAMPUS PROGRAMS

<b>WSU Tech – Block Programs</b>		
Construction Science	Engineering Design	Information Technology
Aviation Maintenance	Architectural Design	Machining
Business	Healthcare	Cyber Security
Climate & Energy Control Technology	Welding	Criminal Justice
Auto Service	Interior Design	Drones
Alt. Fuel Maintenance & Advanced Electronics		
<b>Hutchinson Community College – Newton</b>		
Fire Science	EMT	

## AV COMMUNICATIONS

### **21<sup>st</sup> Century Journalism**

This course promotes the development of skill sets needed today and in the future. Students will explore the role media and the communications industry has in society, develop the technical skills related to journalistic writing and interviewing, and understand ethical and legal issues related to the field. Students will write stories that may be published on the internet or printed.

*Prerequisites: None*

*Length: Semester*

**Course Number: 1863**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

### **Intro to Video Production**

This course provides a basic understanding of producing multimedia projects for a variety of uses. Topics include audio basics, visual basics, video composition, and editing. Using the pre-production, production and post-production process, students will explore the equipment and techniques used to develop a variety of media products.

*Prerequisites: None*

*Length: Semester*

**Course Number: 1878**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

### **Advanced Video Production**

Video Production will include broadcast news shows in addition to PSAs, film shorts, and documentaries. The subject of the presentations must address an authentic need. The focus of the course is to experience the entire process, including planning the presentation, setting up the studio, acting as the videographer and editing to make the show fluid and seamless. Students will use video editing and animation software, such as Adobe Premiere and Adobe After Effects. This course may be repeated for credit.

*Prerequisites: AV Production Fundamentals (and) Instructor approval*

*Length: Year*

**Course Number: 1872/1873**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

### **Yearbook**

Students will produce a printed yearbook, successfully finance it, and produce a multi-media supplement to the yearbook. Students apply some of the technical skills learned in other media classes. They will have the opportunity to use Photoshop, InDesign, Illustrator, and Premiere. Students will develop a production schedule, work as a team to select a theme, write copy and captions, use composition principles of photography and design, and edit audio and video. This course may be repeated for credit. *Application and Instructor permission required.*

*Prerequisites: None*

*Length: Year*

**Course Number: 1870/1871**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

## AVIATION

### **Aviation Fundamentals**

This course introduces aviation fundamentals related to materials, processes, and history of aviation. This is an online course(s) through WSU Tech. Fees may apply.

*Prerequisites: None*

*Length: Semester*

**Course Number: 1486**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

### **Drafting/CAD I**

This entry-level course covers the utilization of drawing equipment, studying different techniques, lettering, geometrical construction, and orthographic projections, which includes sectional views, isometric drawings, and dimensioning. The course uses both CAD and mechanical drafting, and is recommended for industrial or construction careers.

*Prerequisites: None*

*Length: Semester*

**Course Number: 1405**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

### **Hand and Power Tools**

This course provides technical knowledge used in aviation and manufacturing areas related to hand and power tools. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details). Students eligible for college credit must be in grades 10-12.

*Prerequisites: None*

*Length: Semester*

**Course Number: 1480**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

## BUSINESS/WEB & DIGITAL

### **Accounting I**

This course introduces students to concepts/principles affecting the accounting equation. The accounting cycle for a service, proprietorship, merchandising or corporate business, is covered. It provides the skills, knowledge, and attitudes necessary for an individual to conduct personal business or to further an education in the field of accounting. Some computerized accounting is taught, as well. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisites: None*

*Length: Year*

**Course Number: 1035/1036**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Advanced Accounting****Course Number: 1040/1041**

This course includes financial accounting, managerial accounting and financial statement analysis topics. Compared to the traditional, stand-alone financial accounting and managerial accounting courses, this course encompasses more topics and learning outcomes than the traditional financial accounting course, and at least a quarter of the topics and learning outcomes in a traditional managerial course. Students who finish the course will be able to take a test to get college credit for the first accounting course offered at WSU or KSU. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisites: Accounting I**Length: Year**Grade Level: 11-12**Credit: 0.5 per semester***Business Essentials****Course Number: 1015**

This is a core course designed to give students an overview of the business, marketing and finance career cluster occupations. Students will develop an understanding of how academic skills in mathematics, economics, and written and oral communications are integral components of success in these occupations. Students will examine current events to determine their impact on business and industry and legal and ethical behavior, acquire knowledge of safe and secure environmental controls to enhance productivity, determine how resources should be managed to achieve company goals, and identify employability and personal skills needed to obtain a career and be successful in the workplace. As students learn about different types of business ownership, they will interpret industry laws and regulations to ensure compliance, identify principles of business management, and analyze business practices to determine ethics and social responsibilities.

*Prerequisite: None**Length: Semester**Grade Level: 9-12**Credit: 0.5 per semester***Business Management****Course Number: 1904**

This course acquaints students with management opportunities and effective human relations. This course provides students with the skills to perform planning, staffing, financing, and controlling functions within a business. In addition, they will be provided with a macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course will also emphasize problem-based, real-world applications of business concepts and use them to formulate, analyze, and evaluate business decisions. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisite: None**Length: Semester**Grade Level: 10-12**Credit: 0.5 per semester***Computer Programming****Course Number: 1020**

This course will provide students with the knowledge and skills necessary to construct computer programs in one or more languages. Initially, students learn to structure, create, document, and debug computer programs, and as they progress, more emphasis is placed on design, style, clarity, and efficiency. Students may apply the skills they learn to relevant applications such as modeling, data management, graphics, and text processing. Code.org is utilized for this class and focuses on web development, game design, and overall code structure.

*Prerequisite: Algebra II (may be taken concurrently)**Length: Semester**Grade Level: 10-12**Credit: 0.5 per semester***Consumer and Personal Finance****Course Number: 1523**

Students will learn about managing resources to achieve personal and family goals, making informed consumer decisions, creating financial stability, and maintaining a healthy living environment.

*Prerequisites: None**Length: Semester**Grade Level: 10-12**Credit: 0.5 per semester***Entrepreneurship****Course Number: 1071/1072**

Entrepreneurship courses acquaint students with the knowledge and skills necessary to own and operate their own businesses. Topics from several fields form the course content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication. Students will be creating an entrepreneurship project within DECA. DECA is a Career and Technical Student Organization (CTSO) which provides training in business concepts, and focuses on developing leadership, communication, and career skills. It is an integral part of the entrepreneurship curriculum.

*Prerequisites: None**Length: Year**Grade Level: 10-12**Credit: 0.5 per semester***Marketing****Course Number: 1050/1051**

This course introduces students to marketing principles and practices such as branding, promotion, pricing, distribution, economics, social media, and more. Students will have the opportunity to analyze case studies from the real world within already existing businesses. Students will develop skills in communication, leadership, human relations, customer service, and marketing careers as it is an integral part of the business world.

*Prerequisites: None**Length: Year**Grade Level: 10-12**Credit: 0.5 per semester*

**Marketing Management**

This course is a continuation of Marketing I, focusing on skills and information needed for a management position. Emphasis on pricing and purchasing decisions, marketing research, and other variables of product/service planning. Students will complete a written marketing research project throughout the course of the year. Marketing students are required to participate in DECA. DECA is a Career and Technical Student Organization (CTSO), which provides training in business concepts and focuses on developing leadership, communication, and career skills. It is an integral part of the marketing curriculum. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisites: Marketing I*  
*Length: Year*

**Course Number: 1060/1061**

*Grade Level: 11-12*  
*Credit: 0.5 per semester*

**Microsoft Office Certification**

This course will help students become aware of the potential of the computer and digital applications in business, school and everyday life. This course uses a hands-on computer-based approach when using an operating system, word processing and spreadsheet applications, as well as personal information management with email and calendar software. Appropriate Internet searching, etiquette, and safety will be explored. Computer security, threats and maintenance will be discussed. This course will be the platform for Microsoft IT industry credentialing, and fulfills the Technology requirement.

*Prerequisite: None*  
*Length: Semester*

**Course Number: 1088**

*Grade Level: 9-12*  
*Credit: 0.5 per semester*

**Advanced Microsoft Office Certification**

The purpose of this class is to gain additional skills and earn certifications in other Microsoft Office Suites, including versions that are more advanced. Students will choose two programs/levels not covered in year one, which includes Excel Expert, Word Expert, PowerPoint, Access, and Outlook. Near the end of this course, it will be our goal to pass the MOS test given by Microsoft for each of the two chosen programs, allowing students to become MOS certified. Having an MOS certification on your resume, college/scholarship applications, and job applications is just one more way to show your expertise in the area of computer software.

*Prerequisite: Microsoft Office Certification*  
*Length: Semester*

**Course Number: 1090**

*Grade Level: 9-12*  
*Credit: 0.5 per semester*

## **CONSTRUCTION & DESIGN/MANUFACTURING PRODUCTION**

**Advanced Materials Technology**

This is a progressive application level course furthering the study of CNC equipment, composite panel products, veneering, and the processes involved with fabricating goods with these technologies.

*Prerequisites: Furniture and Cabinet Fabrication with grade of C-, or better, (and/or) Instructor approval.*  
*Length: Year*  
*Supplies: Lab fee (and) extra materials/supplies for projects*

**Course Number: 1449/1450**

*Grade Level: 11-12*  
*Credit: 0.5 per semester*

**Advanced Studies in Manufacturing Design**

An advanced level manufacturing design course that provides students with the knowledge and skills related to computer aided design software. In addition, students will use the latest version of CATIA, an aviation industry-based design software. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisites: Drafting/CAD I (or) CAM I*  
*Length: Semester*

**Course Number: 1432**

*Grade Level: 11-12*  
*Credit: 0.5 per semester*

**Architectural Design I**

Students are introduced to engineering and residential/building/industrial trade drafting. Skill development in blueprint reading will also be studied. Traditional drawing methods and CAD will be emphasized in Architecture Design I. Concepts in 3-view drawing, pattern making, pictorial drawing and working drawings will be studied in the engineering portion of this course. Architectural and residential design principles will be the focus of study. Students will design a small residential home and prepare a design and working set of architectural drawings using AutoCAD industry-based software. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details). Students eligible for college credit must be in grades 10-12.

*Prerequisites: None*  
*Length: Semester*

**Course Number: 1428**

*Grade Level: 9-12*  
*Credit: 0.5 per semester*

**Architectural Design II**

This course builds on the foundations and concepts explored in Architecture Design I. The focus of study in Architecture Design II will be advanced concepts of residential and commercial design as they relate to a wide variety of applications in the computer aided design (CAD) world. Students will incorporate theory and design by creating graphic presentations related to industry, construction and commercial building applications. The Auto-CAD/Arch. design software is recognized as a world leading design tool used in the building industry today. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details). Students eligible for college credit must be in grades 10-12.

*Prerequisites: Arch. Design I (or) Drafting/CAD I with grade of C-, or higher*  
*Length: Semester*

**Course Number: 1429**

*Grade Level: 10-12*  
*Credit: 0.5 per semester*

**CAM I****Course Number: 1430**

CAM, Computer Aided Machining, provides students with the knowledge and skills needed to perform Computer Aided Machining activities. Students have the opportunity to understand and utilize CNC machines/software used the industry to create various products. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisites: Any computer aided design course in Arch. or Manufacturing Pathways (Drafting/CAD I (or) Architecture Design I)*

*Length: Semester*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**CAM II****Course Number: 1431**

Computer Aided Machining II is the advanced level course that follows CAM I. Students will learn to do advanced CNC programming of various Manufacturing and Industry based CNC/CAM equipment. In addition, students will learn to use advance design software that will transition to CNC software for machine operation. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisites: CAM I*

*Length: Semester*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Carpentry I****Course Number: 1439/1440**

This is a comprehensive course, designed to instruct students in the basic knowledge and skills required for construction of residential structures, including subfloor, framing, roofing, siding, and setting windows and doors. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisite: Cabinetmaking & Furniture Design I/Woodworking Principles, with grade of C-, or better.*

*Length: Year*

*Supplies Needed: Lab fee and materials and tools not provided in lab.*

*Grade level: 10-12*

*Credit: 0.5 per semester*

**Carpentry II****Course Number: 1441/1442**

This is an advanced course, designed to instruct students in methods and skills pertaining to the construction industry. Curriculum and instruction for this course is modeled after the industry standard National Center for Construction Education and Research (NCCER) program. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisite: Residential Carpentry I / Carpentry I with grade of C-, or better (and/or) Instructor approval.*

*Length: Year*

*Supplies Needed: Lab fee and materials and tools not provided in lab.*

*Grade level: 11-12*

*Credit: 2.0 (2 hours year-long)*

**Drafting/CAD I****Couse Number: 1405**

This entry-level course covers the utilization of drawing equipment, studying different techniques, lettering, geometrical construction, and orthographic projections, which includes sectional views, isometric drawings, and dimensioning. The course uses both CAD and mechanical drafting, and is recommended for industrial or construction careers. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details). *Students eligible for college credit must be in grades 10-12.*

*Prerequisites: None*

*Length: Semester*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Drafting/CAD II****Course Number: 1427**

This advanced drafting course deals with drawings that include technical details and specify dimensions, material and procedures. Drafters fill in technical details, rough sketches, specifications and calculations made by engineers or scientists. Drafters also use technical handbooks, tables, calculators, and computers to complete their work.

*Prerequisites: Drafting/CAD I*

*Length: Semester*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Furniture & Cabinetry Fabrication****Course Number: 1437/1438**

An advanced level application course designed to provide students with experience in constructing cases, cabinets, counters, furniture and interior woodwork. A personally designed student project is required. The time will be divided between theory, written work, and performance in the lab. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisite: Cabinetmaking & Furniture Design I/Woodworking Principles with grade of C-, or better (and/or) Instructor approval.*

*Length: Year*

*Supplies Needed: Extra materials/supplies for projects*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Automotive Technology I****Course Number: 1420/1421**

This is a technical level transportation technology course, designed to provide students with basic theories and information needed to develop an understanding of automotive and light truck vehicles. Students will learn and perform basic maintenance services on personal and customer vehicles.

*Prerequisites: IIT/Middle School Tech*

*Length: Year*

*Supplies Needed: Lab fee (and) materials/parts not available in lab, for repair of personal vehicles.*

*Grade Level: 9-12*

*Credit: 0.5 per semester*



**Automotive Technology II****Course Number: 1422/1423**

This is a comprehensive, application level course designed to provide students with knowledge in the theory of operation, the use of specially tools and equipment, and the performance skills to diagnose and repair various systems of automotive and light truck. Knowledge and Skills obtained in Automotive Technology II will prepare students for entry-level employment in the field of transportation technology. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisites: Automotive Technology I with a grade of "C" or higher or instructor permission. Grade Level: 10-12*

*Length: Year*

*Credit: 0.5 per semester*

*Supplies Needed:* Fees: Possible Lab fees (required PPE/Uniforms). Students are responsible for Materials/Parts in the lab for repair of personal vehicles.

**Automotive Technology III****Course Number: 1443/1444**

This is an advanced, comprehensive, application level course designed to provide students with knowledge in the theory of operation, the use of specially tools and equipment, and the performance skills to diagnose and repair various systems of automotive and light truck. Knowledge and Skills obtained in Automotive Technology III will prepare students for entry-level employment in the field of transportation technology. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Costs vary by program (see course syllabus for details).

*Prerequisites: Automotive Technology II and grade of "C", or higher, in Automotive Technology II Grade Level: 11-12*

*Length: Year*

*Credit: 0.5 per semester*

*Supplies Needed:* Fees: Possible Lab fees(required PPE/Uniforms). Students are responsible for Materials/Parts in the lab for repair of personal vehicles.

**Residential Interior Design****Course Number: 1504**

This course will prepare students for careers or post-secondary programs related to housing and interiors in business and industry. Projects are integrated throughout the course to provide authentic application in design basics, color, lighting, furniture styles and design. Students will have the opportunity to explore and experience career options in the Interior Design and Furnishings Industry.

*Prerequisites: None*

*Length: Semester*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Woodworking Principles****Course Number: 1410/1411**

This course supplies basic information on tools, materials, and procedures used in woodworking occupations. Also provided are hand tool information and supplies knowledge on industrial process. The student is required to complete all activities within a semester. A student project is required. Time will be divided between theory, written work, and performance in the lab.

*Prerequisite: None*

*Length: Year*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

*Supplies Needed: Lab fee (and) materials required for projects.*

## **ENGLISH**

*Each grade level will focus on the use of the six-trait analytical writing model.*

**AP Language & Composition (Advanced Placement)****Course Number: 1835/1836**

Offering a more rigorous curriculum, this course is designed to improve students' proficiency in advanced reading and writing skills. Using the rhetorical analysis of nonfiction and fiction genres, students will hone their composition and critical reading skills. Equivalent to college-level, the course will enable students to become more confident and effective in writing, thus better preparing them for academic and professional writing. To achieve the goals of this curriculum, the course requires expository, analytical, and argumentative writing, usually critically responding to the literature read for class. Through thematic units, students will study and discuss the relationships between subject, author's purpose, audience, and rhetorical strategies. In order to prepare for the AP test in Language and Composition, not only will students complete several timed writings, but they will also respond to multiple choice questions for selected readings. **Required Summer Reading:** Information will be distributed to the student accordingly.

*Prerequisite: Grade of "A" or "B" in Sophomore English*

*Length: Year*

*Grade Level: 11*

*Credit: 0.5 per semester*

**AP Literature (Advanced Placement)****Course Number: 1837/1838**

This 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 way's 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 such smaller scale elements as the use of figurative language, imagery, symbolism, and tone

*Prerequisite: Grade of "A" or "B" in previous semester of English*

*Length: Year*

*Grade Level: 12*

*Credit: 0.5 per semester*

**Applied Junior English****Course Number: 1832/1833**

Applied Junior English teaches students communication skills – reading, writing, mechanics, and speaking – concentrating on universal applications. These courses emphasize the practical analysis and application of communication – using technical reports and manuals, business letters, resumes, and informational texts as examples – rather than emphasize language arts skills as applied to fictional literary materials. This course is recommended for students who are planning on attending a technical college, or are planning on going straight to the workforce upon graduation.

*Prerequisite: Students may not enroll in this course unless they have passed both semesters of Freshman English and one semester of Sophomore English.*

*Length: Year*

*Grade Level: 11*

*Credit: 0.5 per semester*

**Applied Senior English****Course Number: 1847/1848**

Applied Senior English teaches students communication skills – reading, writing, mechanics, and speaking – concentrating on universal applications. These courses emphasize the practical analysis and application of communication – using technical reports and manuals, business letters, resumes, and informational texts as examples – rather than emphasize language arts skills as applied to fictional literary materials. This course is recommended for students who are planning on attending a technical college, or are planning on going straight to the workforce upon graduation.

*Prerequisite: Students may not enroll in this course unless they have passed both semesters of Freshman and Sophomore English, and at least one semester of Junior English.*

*Length: Year*

**Grade Level: 12****Credit: 0.5 per semester****Freshman English****Course Number: 1805/1806**

This course is designed to enhance the students' reading, writing, listening, and speaking skills, as well as give applicable practice through activities that require collaboration and critical thinking. A range of literature from a multitude of time periods and places are presented and explored to enhance the students' perspective of the world and to discuss the themes and challenges still relevant today. Students will be introduced to research writing and will apply the use of MLA guidelines in their compositions. During class, students will be expected to exhibit the behavior of a 21st Century Learner, and will be given many opportunities to grow as a student and as an individual.

*Prerequisite: None*

*Length: Year*

**Grade Level: 9****Credit: 0.5 per semester****Junior English****Course Number: 1830/1831**

This course is designed to enhance the students' reading, writing, listening, and speaking skills that were learned in Sophomore English. Through the analysis of American literature, students will understand how culture and literature influence perspective. In addition to writing informative and narrative essays, students will develop research skills and explore the art of rhetoric through an argumentation unit. During class, students will be expected to exhibit the behavior of a 21st Century Learner, and will be given ample opportunity to grow as a student and as an individual.

*Prerequisite: Students may not enroll in this course unless they have passed both semesters of Freshman English and one semester of Sophomore English.*

*Length: Year*

**Grade Level: 11****Credit: 0.5 per semester****Pre-AP English 9 (Advanced Placement)****Course Number: 1810/1811**

This course offers a challenge to the students who excel in language arts by exploring material beyond that offered through the standard English 9 curriculum. This course equips intrinsically motivated, task-oriented, proficient readers, and disciplined writers with strategies and tools they need to engage in active, high-level learning. The course ensures that students will develop the skills, habits of mind, and concepts they need to succeed in Advance Placement classes in high school and the rigors of college. This course follows a rigorous pace and often requires daily homework; most reading is completed outside of class for in-class analysis. The overall goal for this course is to analyze literature that has greatly affected the academic world, while at the same time developing effective skills as both readers and writers. **Required Summer Reading:** Information will be distributed to the student.

*Prerequisite: Grade of "A" or "B" in 8<sup>th</sup> Grade English*

*Length: Year*

**Grade Level: 9****Credit: 0.5 per semester****Pre-AP English 10 (Advanced Placement)****Course Number: 1820/1821**

This course offers a rigorous curriculum for students who excel in language arts by exploring material beyond that offered through the regular Sophomore English curriculum. This course equips intrinsically motivated and enthusiastic students with the strategies and tools they need to engage in active, high-level thinking and learning. The course is designed to ensure that students will develop the analytical reading and writing skills, study habits, and higher-level thinking abilities necessary to succeed in future AP courses and in future college course work. Students should prepare themselves for reading 20-30 pages a night outside of class. In addition, students will be writing several major papers and numerous small papers throughout the semester. Students should expect approximately 45-60 minutes of homework per night. **Required Summer Reading:** Information will be distributed to student.

*Prerequisite: Grade of an "A" or "B" in Pre AP English 9*

*Length: Year*

**Grade Level: 10****Credit: 0.5 per semester****College Credit Senior English****Course Number: 1008/1009**

In this course, students can earn VCHS Senior English credit concurrently, while earning 6 hours of college credit—English 101 & 102. Requirements to enroll in this course are paying tuition, application fees, enrolling in English Composition 101 during the first semester, and English Composition 102 during the second semester. Students must earn a letter grade of "C", or better, to enroll in the second semester of the course. *College credit prerequisite: 2.0 Cum. GPA and ACT Reading score of 15+, and ACT English score of 18+ or met other minimum college placement requirements.* Students may qualify alternatively by achieving a qualifying score on the Accuplacer. **A qualifying GPA and ACT/Accuplacer score must be earned by the end of the semester.**

The college reserves the right to change qualifying scores for the course.

*Length: 1 or 2 semesters, if both courses taken*

**Grade Level: 11-12****Credit: 0.5 per semester****Senior English****Course Number: 1845/1846**

This course is designed to enhance the students' reading, writing, listening, and speaking skills that were learned in Junior English. Through analysis of British literature, students will demonstrate how culture influences literature and historical perspective. Students will extend their understanding by reading and evaluating current nonfiction texts. In addition to writing informative and narrative essays, students will showcase their research skills through a multimedia research project. During class, students will be expected to exhibit behavior of a 21st Century Learner, and are given many opportunities to grow as a student and as an individual.

*Prerequisite: Students may not enroll in this course unless they have passed both semesters of Freshman and Sophomore English, and at least one semester of Junior English.*

*Length: Year*

**Grade Level: 12****Credit: 0.5 per semester**

**Sophomore English****Course Number: 1815/1816**

This course is designed to enhance the students' reading, writing, listening, and speaking skills that were learned in Freshman English. Students will review literary concepts through a wide range of literature, such as short stories, novels, plays, poetry as well as non-fiction essays, articles, and novels. Students will be expected to research and write about a topic, effectively applying MLA guidelines. During class, students will be expected to exhibit the behavior of a 21st Century Learner, and will be given many opportunities to grow as a student and as an individual.

*Prerequisite: Student must have passed at least one semester of Freshman English.*

*Length: Year*

*Grade Level: 10*

*Credit: 0.5 per semester*

## **FAMILY AND CONSUMER SERVICES/TEACHING**

**Apparel Production I****Course Number: 1500**

This course introduces students to basic sewing and pressing equipment, textiles, introductory level project construction techniques and techniques for constructing edge finishes.

*Prerequisites: None*

*Length: Semester*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Apparel Production II****Course Number: 1501**

This course introduces students to higher-level sewing, serger and pressing equipment, reviews the type of fabric construction, makes an intermediate level project using correct construction techniques. This class may be repeated for credit.

*Prerequisites: Apparel Production I*

*Length: Semester*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Career and Life Planning****Course Number: 1509**

Students will develop skills and strategies, which are helpful to become more focused, productive individuals. The course typically emphasizes goal setting; decision-making; time management; energy and stress management and identification of alternatives choices and coping strategies. Students will also explore various career and lifestyles choices. Career portfolios will be developed.

*Prerequisites: None*

*Length: Semester*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Consumer and Personal Finance****Course Number: 1523**

Students will learn about managing resources to achieve personal and family goals, making informed consumer decisions, creating financial stability, and maintaining a healthy living environment.

*Prerequisites: None*

*Length: Semester*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Family Studies****Course Number: 1520**

Students in this class will learn about the effects of personal life choices - determined by normal and unexpected life changes – and their impact on the well-being of family, career and society life. To study and practice what is involved in making these decisions enables students to make healthier choices that affect the family, the work force, and the community.

*Prerequisites: None*

*Length: Semester*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Human Growth & Development****Course Number: 1524**

Strong, positive parenting skills are critical in today's world. The effect of these skills affects home and employment situations. This class will be beneficial to all students; even those who do not plan on becoming parents.

*Prerequisites: None*

*Length: Semester*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Nutrition and Wellness****Course Number: 1506**

A quality lifestyle impacts physical, emotional, and social health on a daily basis. The nutritional choices made today will affect life expectancy, reproductive health, and risk factors for disease. The ability to competently plan strategies for choosing, acquiring, preparing and storing foods at home will affect overall health and wellness. Emphasis will be placed on personal health decisions. This class will explore the various nutrients and their contribution to health and wellness through lecture, projects, videos and application in cooking groups.

*Prerequisites: None*

*Length: Semester*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Residential Interior Design****Course Number: 1504**

This course will prepare students for careers or post-secondary programs related to housing and interiors in business and industry. Projects are integrated throughout the course to provide authentic application in design basics, color, lighting, furniture styles and design. Students will have the opportunity to explore and experience career options in the Interior Design and Furnishings Industry.

*Prerequisites: None*

*Length: Semester*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Teaching as a Career**

This course will explore the field of education as a teacher, and provide students with information about the challenges and opportunities offered by a career in education. Students will examine and develop lesson plans based on knowledge from research and observation of teachers, in their content area and level of interest. Students will study the learning environment of the classroom, communication with questioning and discussion techniques, and using assessments. Finally, students will explore aspects of the professional side of teaching through observations and dialog with mentor teachers in the content area and level of interest.

*Prerequisites: Career and Life Planning*  
*Length: Year*

**Course Number: 1512/1513**

*Grade Level: 11-12*  
*Credit: 0.5 per semester*

**Textile Production**

This course is for students interested in working with different textiles such as floss and yarn. Students will use different techniques such as knitting, crocheting, cross-stitching, tie dying, and batik as well as simple sewing projects. The student purchases project supplies and materials.

*Prerequisites: None*  
*Length: Semester*

**Course Number: 1515**

*Grade Level: 9-12*  
*Credit: 0.5 per semester*

## **FOREIGN LANGUAGE**

**Spanish I**

Students will learn to read, write, speak, and understand Spanish. Daily participation/attendance is crucial. Students engage in, paired, small group, and whole class activities, developing oral proficiency. Students will learn about various Spanish speaking ethnic groups, cultures, customs, and belief systems. Class is taught using music, video, and a variety of communicative activities. Bringing food to class is occasionally required.

*Prerequisites: None*  
*Length: Year*

**Course Number: 1880/1881**

*Grade Level: 9-12*  
*Credit: 0.5 per semester*

**Spanish II**

Students review foundations learned in Spanish I and develop them further. The format is similar to Spanish I.

*Prerequisite: Spanish I*  
*Length: Year*

**Course Number: 1885/1886**

*Grade Level: 10-11*  
*Credit: 0.5 per semester*

**Spanish III**

Spanish III is taught approximately 75% in Spanish. Students will continue to develop their proficiency in Spanish. The techniques and activities employed in Spanish I & II are developed further, and there is more emphasis on conversation, reading, and discussion of authentic materials. College credit/dual credit is available/optional for students who meet college credit prerequisites. *College credit prerequisite: 2.0 Cum. GPA. Students must have a minimum grade of a C-, or higher, in previous year of Spanish.*

*Prerequisites: Spanish II*  
*Length: Year*

**Course Number: 1890/1891**

*Grade Level: 11-12*  
*Credit: 0.5 per semester*

**Spanish IV**

Spanish IV is taught almost entirely in Spanish. Students continue to develop their proficiency in Spanish. The techniques and activities employed in Spanish 1-3 are developed further, and there will be more emphasis on conversation, reading, and discussion of authentic materials. College credit/dual credit is available for students who meet college credit prerequisites. *College credit prerequisite: 2.0 Cum. GPA. Students must have a minimum grade of a C-, or higher, in previous year of Spanish.*

*Prerequisites: Spanish III*  
*Length: Year*

**Course Number: 1895/1896**

*Grade Level: 12*  
*Credit: 0.5 per semester*

## **HEALTH SCIENCE**

*(Science Credit where designated)*

**Biology I (Lab Science-Science Credit)**

Biology I is a general course in the study of life--classification of plants, animals, and microorganisms, ecological relationships, and man in the biosphere. Lab work and demonstrations are a required part of class endeavors.

*Prerequisites: None*  
*Length: Year*

**Course Number: 1115/1116**

*Grade Level: 10-12*  
*Credit: 0.5 per semester*

**Biology II (Lab Science-Science Credit)**

Biology II is designed foremost as a lab class to explore advanced studies in Molecular Biology, cellular biology and microbiology, genetics and genetic engineering, evolution, ecology and Conservation Biology, and taxonomy. May be taken for college credit.

*College credit prerequisite: 2.0 Cum. GPA*  
*Prerequisites: Biology I*  
*Length: Year*

**Course Number: 1122/1123**

*Grade Level: 11-12*  
*Credit: 0.5 per semester*

**Care of Athletes**

This course will prepare students with the knowledge and skills to understand and perform therapeutic tasks that would be designated by an athletic or fitness trainer. Course content may include but will not be limited to taping and bandaging, proper use of protective padding, treatment modalities, anatomy and physiology, and medical terminology. Students will learn to measure cardio-respiratory endurance, muscular strength and endurance, flexibility, body composition and blood pressure.

*Prerequisites: Health Science Exploration, Human Anatomy & Physiology, (and/or) CNA*  
*Length: Semester*

**Course Number: 1158**

*Grade Level: 10-12*  
*Credit: 0.5 per semester*

**Health Sciences Exploration**

This course exposes students to the variety of opportunities available within the health care industry (e.g., such as nursing, therapy, dental care, administrative services and lab technology). This course provides experiences in the Health Science Education pathway, along with information and knowledge related to the health care industry as a whole.

*Prerequisite: None*

*Length: Semester*

**Course Number: 1162**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**CNA/Allied Health (Certified Nurse Aid/Allied Health)**

This course provides topics of learning related to patient basic care and holds its own certification. Students learn the basic skills of patient care, disease prevention, and health care equipment used by C.N.A. workers. The skills and clinical practices require a minimum number of hours (50 hours) by Kansas health certification agencies. Upon completion of the skills and clinical applications of this course, students will study and take the CNA state certification exam. This course is offered for 5 hours of college credit. *College credit prerequisite: 2.0 Cum. GPA and ACT Reading Score of 15+, or met other minimum college placement requirements.*

*Minimum age of 16 (by start of the semester) for college credit.*

*Length: Semester*

**Course Number: 1163**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Human Anatomy & Physiology (Lab Science-Science Credit)**

This course is for students with an interest in biology. The major part of this course is devoted to Human Anatomy and Physiology, with lab work a regular part of the class endeavor. Current biology topics are stressed to show how biology is an everyday part of life. Students who earn a grade of "C", or better, in the 1st semester of the course may be eligible to enroll in, and earn, 5 dual credit hours. Tuition and fees are required. *College credit prerequisite: 2.0 Cum. GPA*

*Prerequisite: Biology I (and/or) Instructor approval*

*Length: Year*

**Course Number: 1120/1121**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Medical Terminology**

Medical Terminology focuses on element of medical language including common abbreviations. Emphasis is placed on spelling, pronunciation, correct usage and meaning related to body systems and medical science and medical specialties. This class is offered for dual credit and eligible for free tuition and is an online course. This course is offered for 3 hours of college credit.

*College credit prerequisite: 2.0 Cum. GPA.*

*Minimum age of 16 (by start of the semester) for college credit.*

*Length: Semester*

**Course Number: 1167**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

## **HOSPITALITY/RESTAURANT/CULINARY ARTS**

**Culinary Arts I**

This technical level pathway course is designed to help students learn the necessary skills to provide high levels of Restaurant, Food, and Beverages services. In addition, knowledge and work-skills related to commercial and food service establishments is of emphasis. Course topics include: Sanitation and safety procedures, Nutritional and dietary guidelines for food preparation and production, meal planning and professional presentation of food, and essential kitchen skills. This course will be the platform for introducing students to restaurant, food, and beverage services related to industry credentialing from Pre-Pac and AFFAC.

*Prerequisites: Culinary Essentials*

*Length: Semester*

**Course Number: 1532**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Culinary Essentials**

This course integrates the knowledge, skills and practices required for careers in the restaurant industry. Topics include the sources, symptoms and prevention measures for common food illness, meal management, correct use of food preparation equipment, production, and facility management principles. Students will also begin to develop culinary skills for a variety of food products.

*Prerequisites: None*

*Length: Semester*

**Course Number: 1516**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

## **INTERNSHIP**

**BioMedical-Workplace Experience/Internship**

Internship opportunities provide students with work experience in STEM career fields related to their interests. Goals are cooperatively set by the student, teacher, and collaborating business. This course will include classroom activities as well as actual field experiences and/or observations that students may encounter in the workplace. Internships are not necessarily paid.

*Prerequisite: Application submitted by deadline, in spring of junior year (and) panel approval. Completed previous coursework is recommended within the pathway's program of study.*

*Length: Semester (or) Year*

**Course Number: 1156/1157**

*Grade Level: 12*

*Credit: 0.5 per semester*

**Community Connections/Internship**

This is the application level course for the learner to apply technical skills in a professional learning experience outside or within the school environment. Included will be continued development and finalization of the student's portfolio. Career and Community Connections provides the opportunity for learners to focus on career related topics, team building and effectiveness in the world of work and acquiring job-seeking skills and retention needed to advance within the workplace.

*Prerequisite: Application submitted by deadline, in spring of junior year (and) panel approval. Completed previous coursework is recommended within the pathway's program of study.*

*Length: Semester (or) Year*

**Course Number: 1518/1519**

*Grade Level: 12*

*Credit: 0.5 per semester*

**Digital Media/Internship****Course Number: 1311/1312**

Internship opportunities provide students with work experience in the digital media field related to their interests. Goals are cooperatively set by the student, teacher, and employer. This course will include classroom activities as well as actual projects students encounter in the workplace. Additional credit may be available through the CTE Internship Program.

*Prerequisite: Application submitted by deadline, in spring of junior year (and) panel approval. Completed previous coursework is recommended within the pathway's program of study.*

*Length: Semester (or) Year*

*Grade Level: 12*

*Credit: 0.5 per semester*

**Emerging Trends in Transportation Technology/Internship****Course Number: 1424/1425**

This Internship experience provides students work experience in the Mobile Equipment and Maintenance Service arena. The student, teacher, and employer cooperatively set goals. This course will include classroom activities as well as actual field experiences students may encounter in the workplace. Internships are not necessarily paid.

*Prerequisite: Application submitted by deadline, in spring of junior year (and) panel approval. Completed previous coursework is recommended within the pathway's program of study.*

*Length: Semester (or) Year*

*Grade Level: 12*

*Credit: 0.5 per semester*

**Engineering-Workplace Experience/Internship****Course Number: 1451/1452**

Internship opportunities provide students with work experience in STEM career fields related to their interests. Goals are cooperatively set by the student, teacher, and collaborating business. This course will include classroom activities as well as actual field experiences and/or observations that students may encounter in the workplace. Internships are not necessarily paid.

*Prerequisite: Application submitted by deadline, in spring of junior year (and) panel approval. Completed previous coursework is recommended within the pathway's program of study.*

*Length: Semester (or) Year*

*Grade Level: 12*

*Credit: 0.5 per semester*

**Finance-Workplace Experience/Internship****Course Number: 1074/1907**

Internship opportunities provide students with work experience in Finance career fields related to their interests. The student, teacher, and the collaborating business cooperatively set goals. This course will include classroom activities as well as actual field experiences and/or observations that students may encounter in the finance industry. Internships are not necessarily paid.

*Prerequisite: Application submitted by deadline, in spring of junior year (and) panel approval. Completed previous coursework is recommended within the pathway's program of study.*

*Length: Semester (or) Year*

*Grade Level: 12*

*Credit: 0.5 per semester*

**Graphic Design/Internship****Course Number: 1307/1308**

Internship opportunities provide students with work experience in the graphic design field related to their interests. Goals are cooperatively set by the student, teacher, and employer. This course will include classroom activities as well as actual projects students encounter in the workplace. Additional credit may be available through the CTE Internship Program.

*Prerequisite: Application submitted by deadline, in spring of junior year (and) panel approval. Completed previous coursework is recommended within the pathway's program of study.*

*Length: Semester (or) Year*

*Grade Level: 12*

*Credit: 0.5 per semester*

**Health Sciences – Workplace Experience/Internship****Course Number: 1160/1161**

This course provides an opportunity for students to participate in both the classroom and in one or more professional learning experience rotations in each of the five pathways of the Health Science Education career cluster. During rotation opportunities, students will gain knowledge and skills required of all aspects of the healthcare profession. Students must complete at least five (5) rotations during the semester that encompass occupations representing various healthcare fields. Teaching and learning experiences to be included but not limited to portfolio development, documentation of daily shadowing experiences, appropriate communication skills, and proper application of HIPPA rules and regulations. Additional course content may include but is not limited to leadership skills and research of personal career interests in healthcare. Internships are not necessarily paid.

*Prerequisite: Application submitted by deadline, in spring of junior year (and) panel approval. Completed previous coursework is recommended within the pathway's program of study.*

*Length: Semester (or) Year*

*Grade Level: 12*

*Credit: 0.5 per semester*

**Marketing-Workplace Experience/Internship****Course Number: 1052/1053**

Principles of Marketing courses offer students insight into the processes affecting the flow of goods and services from the producer to the consumer. Course content ranges considerably as general marketing principles such as purchasing, distribution, and sales are covered; however, a major's emphasis is often placed on kinds of markets' market identification, product planning, packaging, and pricing; and business management.

*Prerequisite: Application submitted by deadline, in spring of junior year (and) panel approval. Completed previous coursework is recommended within the pathway's program of study.*

*Length: Semester (or) Year*

*Grade Level: 12*

*Credit: 0.5 per semester*

**Teaching Internship/Workplace Experience****Course Number: 1521/1522**

Internship opportunities provide students with work experience in the Education career field. Goals are cooperatively set by the student, teacher, and collaborating business. This course will include classroom activities as well as actual field experiences and/or observations that students may encounter as an educator. Internships are not necessarily paid.

*Prerequisite: Application submitted by deadline, in spring of junior year (and) panel approval. Completed previous coursework is recommended within the pathway's program of study.*

*Length: Semester (or) Year*

*Grade Level: 12*

*Credit: 0.5 per semester*

**Web and Digital Communications/Internship**

Internship opportunities provide students with work experience in the web and digital communications field related to their interests. Goals are cooperatively set by the student, teacher, and employer. This course will include classroom activities as well as actual projects students encounter in the workplace. Additional credit may be available through the CTE Internship Program.

*Prerequisite: Application submitted by deadline, in spring of junior year (and) panel approval. Completed previous coursework is recommended within the pathway's program of study.*

*Length: Semester (or) Year*

**Course Number: 1313/1314**

*Grade Level: 12*

*Credit: 0.5 per semester*

## **LANGUAGE ARTS**

**Creative Writing**

This course is designed for students who love writing, every single day, and analyzing author's works for insights on what constitutes brilliant literature. Students will have complete control over the genre and topic of their writing while being given specific skills to hone and show mastery of. Interspersed throughout are fun writing prompts, mini projects, and group writing. Getting to know classmates is essential since a bulk of the time is spent revising and receiving feedback on pieces written in class. Being able to provide feedback and accept and apply feedback is a crucial skill for being successful in this class.

*Prerequisites: None*

*Length: Semester (class may be repeated for credit with permission)*

**Course Number: 1879**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Debate (Advanced Speech)**

This course, which meets the speech requirement for graduation, providing advanced communication skills. Areas of emphasis include the communication process, interpersonal skills, group processes, and public speaking and reasoning skills needed for competitive debate. Students study informative and persuasive speaking techniques, negative and affirmative responsibilities, research techniques, organization, argumentation and public speaking skills. Students are required to participate in four away and two home debate tournaments. Speaking in front of the class, as well as some evening and weekend commitments are required.

*Prerequisites: Must be academically eligible, and earn a B- or better in previous semester of English.*

*Length: Semester*

**Course Number: 1875**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Advanced Debate**

This course builds on fundamentals learned in Debate. Emphasis is placed on original research, rebuttal skills, and negative strategies. Counterplan and critique theory are introduced. May be repeated for credit with instructor approval. Speaking in front of the class, as well as some evening and weekend commitments are required.

*Prerequisites: Debate, student must be academically eligible, (and) teacher approval.*

*Length: Semester*

**Course Number: 1876**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Communication in the Workplace**

This is a speech course which focuses on key workplace communication practices such as: Small group discussion methods, interpersonal skills, soft skills, conflict resolution & management, product description, sale pitches, interviewing techniques, and workforce application practices. This course is recommended for students who are not planning to attend college, but plan to go straight to the workforce upon graduation. Individual and group presentations in front of the class are required for this course. This course meets the speech requirement for graduation.

*Prerequisites: None*

*Length: Semester*

**Course Number: 1006**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Forensics (Competitive Speech & Drama)**

This course may substitute for the Speech requirement for graduation. Forensics prepares students for participation in competitive situations. They work individually on oral interpretation of short stories and poetry, dramatic interpretation, oratory, extemporaneous and informative speaking, Lincoln-Douglas debate, and Student Congress. Students are required to participate in four away and two home forensics tournaments. Some evening and weekend commitments are required.

*Prerequisites: Student must be academically eligible.*

*Length: Semester*

**Course Number: 1874**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Advanced Forensics**

This course builds on fundamentals learned in Forensics. Emphasis placed on research, speaking skills, character development and performance. The course may be repeated for credit with instructor approval. Some evening and weekend commitments are required.

*Prerequisites: Forensics, student must be academically eligible (and) teacher approval.*

*Length: Semester*

**Course Number: 1877**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Speech**

This course, which meets the speech requirement for graduation, provides basic communication skills. Areas of emphasis include the communication process, interpersonal skills, outlining and organization of speeches, ethical speaking, and public speaking. Speech presentations individually and in groups is a requirement of this course.

*Prerequisites: None*

*Length: Semester*

**Course Number: 1860**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**College Credit Speech**

This course meets the speech requirement for graduation and provides advanced communication skills. Areas of emphasis include the communication process, interpersonal skills, group processes, public speaking and reasoning skills. In this course, students can earn VCHS Speech credit concurrently with earning 3 hours of college credit.

College credit prerequisite: **2.0 Cum. GPA**

Length: Semester

**Course Number: 1005**

Grade Level: 11-12

Credit: 0.5 per semester

## **MATHEMATICS**

*The math classes that are listed below follow the progression of classes available at VCHS for students.  
Students must successfully complete both semesters of the previous course with a passing grade to move onto the next course.  
Students may not enroll in a lower level math course than that of the course successfully completed.*

**Pre-Algebra**

Pre-algebra is a course that provides a smooth path from elementary arithmetic to algebra and from the visual world to geometry. Topics covered include, variables, problem solving, formulas, number systems, equations, solving inequalities, graphing, solving systems of equations, properties of exponents and simplifying radicals. Emphasis placed on interactive techniques used to solve real-world application problems. This class counts for VCHS math credit, but does not count toward Regents Curriculum.

Length: Year

Supplies needed: TI-30 scientific calculator

**Course Number: 1707/1708**

Grade Level: 9

Credit: 0.5 credit per semester

**Algebra I**

The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. Topics covered include analyzing the graph of functions, graphing and writing equations of linear functions, solving systems of equations graphically and algebraically, graphing and solving quadratic functions, properties of exponents and radicals and analyzing data.

Length: Year

Supplies Needed: TI-30 Scientific calculator (or) TI-84 Graphing calculator

**Course Number: 1705/1706**

Grade Level: 9-10

Credit: 0.5 per semester

**Informal Geometry**

This course introduces basic geometry. A variety of topics are covered including but not limited to: properties of triangles (similarity and congruence), properties of perpendicular lines, coordinate geometry, area of polygons, circles and three-dimensional figures. Emphasis is placed on interactive techniques used to solve real-world application problems. This course uses an informal approach, which is not dependent on formal geometric proofs. This class counts for VCHS math credit, but does not count toward Regents Curriculum.

Prerequisite: Algebra I & Teacher Recommendation

Length: Year

Supplies Needed: Scientific calculator

**Course Number: 1713/1714**

Grade Level: 10-12

Credit: 0.5 per semester

**Geometry**

This course is a study of the basic properties of geometry. Topics include points, lines, planes, angles, proofs, logic and reasoning, parallel lines and transversals, coordinate geometry, triangles, quadrilaterals and basic right triangle trigonometry.

Prerequisite: Algebra I

Length: Year

Supplies Needed: TI-30 scientific calculator (or) TI-84 graphing calculator

**Course Number: 1710/1711**

Grade Level: 9-12

Credit: 0.5 per semester

**Honors Geometry**

Rigorous and fast paced, this course is designed for the highly motivated math student. Topics include points, lines, planes, angles, proofs, logic and reasoning, parallel lines and transversals, coordinate geometry, triangles, quadrilaterals, circles and basic right triangle trigonometry.

Prerequisite: Algebra I (and) Teacher Recommendation

Length: Year

Supplies Needed: TI-30 scientific calculator (or) TI-84 graphing calculator

**Course Number: 1722/1723**

Grade Level: 9-10

Credit: 0.5 per semester

**Geometry in Construction A/Geometry in Construction B**

**Course Number: (S1) 1412/1413 AND (S2) 1717/1718**

Geometry in Construction is an integrated way to learn Geometry through the application of construction. The course is a 2-hour block class co-taught by a math and an industrial tech woods teacher. The construction concepts within the course are organized to compliment the skills and the knowledge learned in Geometry lessons. Students will enroll in a double block that includes an hour of Geometry and an hour of construction. During the construction hour, students will be working together to build anything from sawhorses and modular furniture to manufactured housing and tiny homes. Some of the projects built may be a repeat of builds from the Intro to Woods class. The course will provide students the opportunity to immediately apply what they are learning in Geometry to their projects and buildings. Each semester will be worth 1 credit.

Prerequisites: Passing grade in Algebra I

Length: Year

Supplies Needed: Lab fee

Grade Level: 10-12

Credit: 1.0 per semester

**Algebra II**

This is a study of the number system, real and complex. Fundamental operations with polynomials are reviewed and extended. This course is a study of mathematical functions, which includes linear, quadratic, exponential, rational and logarithmic and trigonometric.

Prerequisite: Geometry (or) Informal Geometry (or) Geometry in Construction

Length: Year

Supplies Needed: TI-84 graphing calculator

**Course Number: 1715/1716**

Grade Level: 10-12

Credit: 0.5 per semester



### Honors Algebra II

**Course Number: 1727/1728**

This course is developed for the highly motivated student with high math expectations. A continuation of the skills learned in Algebra I with an in depth study of graphs and their functional equations, logarithms, trigonometry and conic sections. Strong emphasis placed on solving higher order polynomials, higher order systems of equations and manipulation of various polynomial expressions.

*Prerequisites: Geometry (or) Honors Geometry (and) Teacher Recommendation*

*Grade Level: 10-12*

*Length: Year*

*Credit: 0.5 per semester*

*Supplies Needed: TI-84 Graphing calculator*

### Transition to College Algebra

**Course Number: 1760/1761**

This course offers skill-level knowledge of algebra to prepare students for College Algebra. Students review basic algebra concepts, including solving equations and inequalities, graphing linear and non-linear equations and inequalities, solving systems of equations and adding, subtracting, multiplying, dividing and factoring polynomials. In addition, the student will solve equations and inequalities involving absolute values, rational polynomials, exponentials, radicals apply factoring, completing-the-square, and the quadratic formula to solve quadratic equations, graph and identify the equations for conic sections, solve systems of equations using graphical, algebraic technology when appropriate to help solve problems both inside and outside of math.

*Prerequisites: Informal Algebra II (or) Algebra II*

*Grade Level: 11-12*

*Length: Year*

*Credit: 0.5 per semester*

*Supplies Needed: TI-84 Graphing calculator*

### College Algebra

**Course Number: 1750/1751**

In this year-long course students will receive one math credit at VCHS. Additionally, qualified students may enroll concurrently with WSUTech and receive 3 hours of College Algebra credit. Topics studied include: Equations and Inequalities; Functions and Graphs; Polynomial and Rational Functions; Exponential and Logarithmic Functions; Systems of Equations and Inequalities; Matrices and Determinants. Students must earn a grade of "C", or better, in the 1<sup>st</sup> semester of the course to be eligible to enroll in and earn 3 dual credit hours 2nd semester. Tuition and fees are required. *College credit prerequisite: A/B grade in Algebra 2 and 3.0 Cum. GPA (or) ACT Math score of 21+, or met other minimum college placement requirements.*

*Length: Year*

*Grade Level: 12*

*Supplies Needed: TI-84 Graphing calculator*

*Credit: 0.5 per semester*

### Pre-Calculus

**Course Number: 1720/1721**

*First Semester* - During the first semester of this course students will receive one half credit of math at VCHS. Additionally, qualified students may enroll concurrently with WSUTech and receive 3 hours of College Algebra credit for 1st semester. Topics studied include: Equations and Inequalities; Functions and Graphs; Polynomial and Rational Functions; Exponential and Logarithmic Functions; Systems of Equations and Inequalities; Matrices and Determinants. Tuition and fees are required. *College credit prerequisite: A/B grade in Algebra 2 and 3.0 Cum. GPA (or) ACT Math score of 23+, or met other minimum college placement requirements.*

*Second Semester* - During the second semester of this course students will receive one half credit of math at VCHS. Additionally, qualified students may enroll concurrently with WSUTech and receive 3 hours of Trigonometry credit for 2nd semester. This course will enable the student to identify and manipulate trigonometric functions, solve triangles, use and prove identities and solve trigonometric equations. Topics include: Angles and the Trigonometric Functions; Graphs of the Trigonometric Functions; Inverse Trigonometric Functions; Trigonometric Identities; Laws of Sines and Cosines; Vectors; Complex Numbers and Polar Coordinates. Tuition and fees are required. *College credit prerequisite: A/B grade in Algebra 2 and 3.0 Cum. GPA (or) ACT Math score of 23+, or met other minimum college placement requirements.*

*Prerequisites: Algebra II*

*Grade Level: 11-12*

*Length: Year*

*Credit: 0.5 per semester*

*Supplies Needed: TI-84 Graphing calculator*

### AP Statistics

**Course Number: 1730/1731**

This course is an advanced mathematics course. A strong emphasis will be placed on critical thinking skills and problem solving. Students will prepare for taking the AP Exam given in May. Students will be asked to form hypotheses, collect and analyze data, explain methods, interpret results and communicate effectively by showing methods used to obtain answers on homework and testing. Students who earn a grade of "C", or better, in the first semester of the course may be eligible to enroll in, and earn, 3 dual credit hours. Tuition and fees are required. *College credit prerequisite: A or B in College Algebra (or) ACT Math score of 21+, or met other minimum college placement requirements.*

*Prerequisites: Algebra II*

*Grade Level: 11-12*

*Length: Year*

*Credit: 0.5 per semester*

*Supplies Needed: TI-84 Graphing calculator*

### AP Calculus (Advanced Placement)

**Course Number: 1735/1736**

This is a high-level mathematics course, which covers the basic problems of tangent lines to a curve and area under a curve. This course is the culmination of a high school student's preparation for post-secondary math courses and adheres to a national curriculum established by the College Board. Students may choose to take the Advanced Placement Exam in May, and for satisfactory performance will receive college credit. Individual colleges set their own standards and grant different credit depending on what you score on the test. This information is usually posted on the college's website. Students who earn a grade of "C", or better, in the first semester of the course may be eligible to enroll in, and earn, 3 dual credit hours. Tuition and fees are required. *College credit prerequisite: A or B in Pre-Calculus, 3.0 Cum. GPA (or) ACT Math score of 25+, or met other minimum college placement requirements.*

*Prerequisites: Pre-Calculus*

*Grade Level: 12*

*Length: Year*

*Credit: 0.5 per semester*

*Supplies Needed: TI-84 Graphing calculator*

**Financial Literacy**

Financial Literacy provides students with an understanding of the concepts, principles and skills involved in making and applying sound financial decisions. This course emphasizes earning income, spending, saving, investing, managing credit and managing risk.

*Prerequisite: None*

*Length: Year*

**Course Number: 1550**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

## **PERFORMING ARTS**

**Advanced Theater Techniques**

**Course Number: Fall 1859/Spring 1862**

This course is designed to give students the opportunity to design, construct, and implement the various technical needs for VCHS Hornet theater productions. Students will learn the basic of set design and construction, lighting design and implementation, costume design as well as sound and prop design. Students will explore various construction and painting techniques and see their artistic ideas brought to life on the stage. Other areas covered include: stage management, directing, theater networking, and technical theater resume building. This course may be repeated for credit.

*Prerequisites: Intro to Drama*

*Length: Semester*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Band**

**Course Number: 1320/1321**

This course stresses comprehensive musicianship through instrumental performance and a continuation of musical skills and background gained from prior grades. During the fall semester, a large emphasis is placed on Marching Band. Color Guard is part of the overall marching program. During the spring semester, the emphasis is placed on concert ensembles. Due to the nature of Marching Band, summer band camp, sectionals, and rehearsals are held for the full Marching Ensemble as well as early morning rehearsals prior to the start of the normal school day. The Concert Band is the basic ensemble from which the Symphonic Winds, Symphonic Band, Pep Band, Small Ensembles, and Soloists are selected. Attendance at all performances is mandatory. Course may be repeated for credit.

*Prerequisite: Proficiency on a band instrument*

*Length: Year*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Choraleers**

**Course Number: 1340/1341**

This is an audition-selected choir, which performs several times throughout the year. Attendance at all concerts is required. Concert attire is required. Students will provide their own all black dress clothes, with shoulders, midribs, and backs covered, and black dress shoes should be worn. All outfits must comply with the school dress code. More details are outlined in the course syllabus. Class limited to 75 members. Course may be repeated for credit.

*Prerequisite: Must audition for teacher.*

*Length: Year*

*Supplies Needed: 1 Performance Outfit (Approx. \$50-\$100)*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Introduction to Drama**

**Course Number: 1857**

An introductory/overview course in the art of the theater with an emphasis in acting. Students will focus on the elements of theater, on theater's development as an art form, and its importance in society today. Students will be exposed to basic acting skills along with exploring the essential elements of theater, space, story, actor, and audience. Students will also be introduced to some general theater concepts such as improv, monologue work, scene study, audience expectations, theater production values, and the production process. Performances/presentations in front of the class is a requirement for this course.

*Prerequisites: None*

*Length: Semester*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Jazz Ensemble**

**Course Number: 1323/1324**

Jazz Ensemble courses help students develop concepts, techniques, and understanding of playing brass, woodwinds, as well as guitar, electric bass, and keyboards, focusing primarily on jazz ensemble literature, styles, history, and some music theory. Attendance at all performances is mandatory. Course may be repeated for credit.

*Prerequisites: Proficiency, prior knowledge, and experience on a band instrument. Wind, Brass, and Percussion students must co-currently enroll in Band Class. Exceptions would be for Guitar, Bass, or Keyboard. Piano, Guitar, Bass, and Drumset (Percussion) students are strongly recommended to have private instruction with their instrument prior to enrolling.*

*Length: Year*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Madrigals**

**Course Number: 1345/1346**

This is an audition-selected performing ensemble. Concert attire is ordered at the beginning of the school year for singers new to the ensemble. This class is an advanced choir, teacher approved and limited to 28 students. Course may be repeated for credit.

*Prerequisites: Must audition for teacher.*

*Length: Year*

*Supplies Needed: 1 Performance Outfit (Approx. \$50-\$100)*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Mixed Choir****Course Number: 1325/1326**

This is an entry-level choir and the prerequisite for all other choirs. A first year choir student may audition for an upper level choir with the instructor and bypass this course if their skills are advanced for this group. Concert attire is required. Students will provide their own all black dress clothes, with shoulders, midriffs, and backs covered, and black dress shoes should be worn. All outfits must comply with the school dress code. More details are outlined in the course syllabus.

Class limited to 75 members. Course may be repeated for credit.

*Prerequisites: None*

*Length: Year*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Music, Media & Me****Course Number: 1357**

Students will become better consumers of music and media in today's society. Students will learn basic music theory skills, create digital music and video, and will also explore the world of legal downloadable music and learn how to add and edit music to video files. Students will also explore new careers in the music technology field.

*Prerequisite: None*

*Length: Semester*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Music, Media & Me II****Course Number: 1358**

Students will build on basic skills learned in MMM1 by using iPads to create and perform in groups known as iPad Bands. Students will also learn to compose and perform commercial "jingles" for products and local businesses. Students will also be introduced into the life programs on the iMac's and use these programs to create multi-media projects which will be saved to a media portfolio that students can take into the college or job markets as demonstrations of skills learned.

*Prerequisite: Music, Media & Me*

*Length: Semester*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Music Appreciation (DC)**

A background in music is not necessary for enrollment. Emphasis is placed on the development of competence in listening to music through the study of the sources, mediums, elements of music, musical forms, composers, and periods of music. Students will learn how to think critically about music through the lens of music fundamentals, historical context, active listening, and personal perspective. This course is offered for dual enrollment for college credit.

*College Credit Prerequisite: 2.0 Cum GPA*

*Length: Semester*

*Supplies Needed: TBD*

*Grade Level: 10-11*

*Credit: 0.5 per semester*

**Theater Performance****Course Number: Fall 1858/Spring 1861**

Theater Performance is an advanced level acting class that continues developing acting skills from the Introduction to theater course. Students will be exposed to a variety of acting styles along with basic script analysis and character development. Students will also be introduced to theater concepts such as directing, stage movement, improv, theater resumes, and auditioning techniques. Those upperclassmen wishing to direct a one act MUST enroll in the Spring semester of this course to direct. This course may be repeated for credit.

*Prerequisites: Introduction to Drama*

*Length: Semester*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Women's Choir****Course Number: 1365/1366**

This is an audition-selected choir, which performs several times a year. Attendance at all concerts is required. Concert attire is ordered at the beginning of the school year for singers new to the ensemble. Class size limited to 45. Course may be repeated for credit.

*Prerequisite: Must audition for teacher.*

*Length: Year*

*Supplies Needed: 1 Performance Outfit (Approx. \$50-\$100)*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**PHYSICAL EDUCATION****Advanced Strength and Conditioning****Course Number: 1627/1628**

This course involves advanced training programs to optimize individual/team variations in hypertrophy, power development, speed, and agility. The system of Olympic lifts, plyometrics, resistance training, aerobic capacity, and Westside Barbell techniques will be discussed as well as development of annual programs for individual and team sports. Teacher signature required for enrollment.

*Prerequisites: Previous weightlifting class (includes middle school weights) (and) Instructor approval*

*Length: Semester (or) Year*

*Supplies Needed: Gym clothes, locker fee*

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Fitness Essentials****Course Number: 1630/1631**

The purpose of this course is to prepare students for a lifetime of physical activity. Students will participate in individual and group activities that can be done at any phase of their lives. All students enrolled in this course are expected to participate in all daily activities with sufficient effort and fully cooperate with class instructor(s). Example activities: Walking, Badminton, Pickleball, Tennis, Bowling, Racquetball. Repeated enrollment is dependent on passing the course the previous time students took the course.

*Prerequisites: Must have passed 9<sup>th</sup> grade PE (and/or) Instructor approval*

*Length: Semester (or) Year*

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Lifetime Activities**

This class provides students with the knowledge and skills needed to engage in a physically active and healthy lifestyle. In this class, students will work on improving their locomotor skills, learn about and improve the 5 components of health-related fitness, and maintain positive social interactions. Like with all physical education classes, students are expected to participate in all class activities and come prepared for class with proper clothing and foot ware. Students will be given the opportunity to take this class for 1 dual credit hour. Tuition and fees are required.

*Prerequisites: Physical Education/Health grade of "A" and application. Students are selected based on application responses and staff input.*

*Length: Semester (or) Year*

*Supplies Needed: Gym clothes, locker fee*

**Course Number: 1640/1641**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Physical Education/Health**

This is a required class for 9<sup>th</sup> grade students. This course provides young adults with the knowledge and skills needed to engage in a physically active, healthy lifestyle throughout life. Students will learn how to lead healthy lives as they go through different stages in life. The main areas of focus in the course include: Health-Related Fitness, Lifetime Physical Activity, and Health/Wellness Concepts/Skills. Students are expected to suit out, participate, and make-up missed work and activities.

*Length: Year*

*Supplies Needed: Gym clothes, 3-ring binder (1" thick), locker fee*

**Boys Course Number: 1600/1601**

**Girls Course Number: 1602/1603**

*Grade Level: 9*

*Credit: 0.5 per semester*

**Strength and Conditioning**

Designed for students who have interest/desire to improve their overall health and well-being. This course develops a weightlifting and training program for muscular strength and conditioning. The lifting program will consist of core lifts that work the big muscle groups, using lifts such as bench press, squats, and cling, and auxiliary lifts that isolate the individual muscles. There will be some flexibility in the types of programs taught. Some units will cover nutrition, supplements, steroids, and program design. All physical education courses are participation classes. Students are expected to suit out, participate, and make-up missed work and activities. Eligibility for 2<sup>nd</sup> semester enrollment based upon 1<sup>st</sup> semester participation. Gym clothes and locker fee required.

*Prerequisites: Physical Education/Health (or) taken concurrently*

*Length: Semester (or) Year*

**Course Number: 1620/1621**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Team Sports**

This class is a more in-depth study of major sports, recreational, and fitness activities. Students are involved with team sports (volleyball, flag football, basketball, hockey, softball, soccer) and individual activities (golf, badminton, tennis, pickle ball, fishing). This course cannot be taken in the same semester with Lifetime Fitness. Students must maintain good participation in order to repeat the class the following semester/year. Physical education courses are participation classes. Students are expected to suit out, participate, and make-up missed work/activities. **Eligibility for 2<sup>nd</sup> semester is based upon 1<sup>st</sup> semester participation.**

*Prerequisites: Must have passed 9<sup>th</sup> grade PE (and/or) Instructor approval*

*Length: Semester (or) Year*

*Supplies Needed: Gym clothes and locker fee*

**Course Number: 1610/1611**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**SCIENCE****AP Chemistry (Advanced Placement) (Lab Science)**

The course is an equivalent to a general chemistry college course, adhering to national curriculum established by the College Board. Students should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course differs from Chemistry I with respect to textbook used, topics covered, emphasis on chemical calculations/mathematical formulation of principles, and laboratory work. Students should expect to cover more topics, spend more time on homework, and do a variety of experiments in the laboratory. Students may choose to take the Advanced Placement Exam in May, and for satisfactory performance will receive college credit. Individual colleges set their own standards and grant different credit depending on what you score on the test. This information is posted on the college's website. Tuition and fees are required. *College credit prerequisite: 2.0*

**Cum. GPA (and) ACT Math score of 21+, or met other minimum college placement requirements.**

*Prerequisites: B average in Chemistry I (and) Algebra II (or) concurrently enrolled.*

*Length: Year*

**Course Number: 1148/1149**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Astronomy**

This course introduces you to the composition and structure of the universe. Astronomy is the scientific study of the contents of the entire Universe. This course will provide the student with a study of the universe and the conditions, properties, and motions of bodies in space. The content includes, but is not limited to, historical astronomy, astronomical instruments, the celestial sphere, the solar system, the earth as a system in space, the earth/moon system, the sun as a star, and stars.

*Prerequisites: Physical Science*

*Length: Semester*

**Course Number: 1127**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Biology I (Lab Science)**

This course is a general science course regarding the study of life including the introduction to biology, cells and cell processes, genetics, classification of living organisms, ecological relationships and human interactions in the biosphere. Required class work includes labs and demonstrations.

*Prerequisites: None*

*Length: Year*

**Course Number: 1115/1116**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Biology II (Lab Science)**

This course is an advanced study of cellular and molecular biology, microbiology, genetics, evolution, ecology and taxonomy. Emphasis in the lab is placed on the biological functions that define life, including biochemistry, cells and cell processes, reproduction, genetics and phylogeny. Students who earn a grade of "C", or better, in the first semester of the course may be eligible to enroll in, and earn, five dual credit hours. Tuition and fees are required. *College credit prerequisite: 2.0 Cum. GPA.*

*Prerequisites: Biology I*

*Length: Year*

**Course Number: 1122/1123**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Botany**

This course studies plants and their relationship to the environment. In this course, students investigate the growth, reproduction, anatomy, morphology, physiology, biochemistry, taxonomy, genetics, and ecology of plants.

*Prerequisites: Biology I*

*Length: Semester*

**Course Number: 1117**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Chemistry I (Lab Science)**

This course prepares students for entry-level college chemistry. Emphasis is placed on matter and energy relationships, measurement and problem-solving skills, periodic table and properties, chemical bonding and compounds, chemical formulas and equations, gas laws, solution chemistry, acid/base chemistry, organic and nuclear chemistry. Laboratory investigations are an integral part of the course.

*Prerequisites: Physical Science (and) Algebra I*

*Length: Year*

**Course Number: 1125/1126**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Chemistry II (Lab Science)**

This Chemistry course is designed to be a bridge into AP Chemistry. Concepts from Chemistry 1 will be reviewed and reinforced to ensure students have a solid foundation. Subject matter is equivalent to the 1<sup>st</sup> semester of general college chemistry. This class involves a large amount of laboratory work and classroom activities. Students should expect to cover many topics, spend significant time on homework, and do a variety of experiments in the laboratory. Upper level math is not required; however, a student must have a basic knowledge of algebraic concepts. Technical writing will also be a focus as students experiment and work through problem solving activities. **Chemistry II will be offered for college credit through WSU Tech second semester only.** The class will be General Chemistry (CHM 110), includes lecture and lab, and will be worth 5 credits. **College credit prerequisite: 2.0 Cum. GPA, Grade of C or better 1<sup>st</sup> semester, or met other minimum college placement requirements.**

*Prerequisites: Chemistry I*

*Length: Year*

**Course Number: 1135/1136**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Earth Science (Lab Science)**

This course focuses on the understanding of Earth systems in order to learn from the past, understand the present and predict the future. Students will gain knowledge about planet Earth – its composition, features, processes and place in the universe. The student will use hands-on experimentation, activities, and direct instruction to study Oceanography (study of the oceans and water systems), Geology (study of rocks, earthquakes, volcanoes and plate tectonics), & Meteorology (study of the atmosphere, climate and climate change).

*Prerequisite: Physical Science (or) Instructor approval*

*Length: Semester*

**Course Number: 1128**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Human Anatomy & Physiology (Lab Science-Science Credit)**

This course is an advanced science course involving a detailed study of the structure and the function of the human body. Laboratory work includes tissue examination, basic physiological experiments and structural identification of organ systems. Students who earn a grade of "C", or better, in the first semester of the course may be eligible to enroll in, and earn, five dual credit hours. Tuition and fees are required. **College credit prerequisite: 2.0 Cum. GPA**

*Prerequisite: Biology I (and/or) Instructor approval*

*Length: Year*

**Course Number: 1120/1121**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Independent Study in Advanced Biology**

Allows students to learn from self-generated action research. Students are assigned to a teacher's class throughout the day and work independently during class period. The student would network with outside experts in the area of interest and have regular contact with the supervising teacher. Students will be expected to produce and submit their data and results, in proper format, to a panel of high school teachers from various curricular areas as determined by teacher and student based on subjects studied. The project may also be required to be submitted to the Junior Academy of Science competition. Enrollment is limited and application for this class will require the student to submit a project outline. Those selected will be notified.

*Prerequisite: Biology II (or) Human Anatomy & Physiology*

*Length: Semester*

**Course Number: 1132**

*Grade Level: 11-12*

*Credit 0.5 per semester*

**Independent Study in Chemistry (or) Physics**

Allows students to learn from self-generated action research. Students are assigned to a teacher's class throughout the day and work independently during class period. The student would network with outside experts in the area of interest and have regular contact with the supervising teacher. Students will be expected to produce and submit their data and results, in proper format, to a panel of high school teachers from various curricular areas as determined by teacher and student based on subjects studied. The project may also be required to be submitted to the Junior Academy of Science competition. Enrollment is limited and application for this class will require the student to submit a project outline. Those selected will be notified.

*Prerequisite: Chemistry I (or) Physics*

*Length: Semester*

**Chemistry: 1133 Physics: 1134**

*Grade Level: 11-12*

*Credit 0.5 per semester*

**Physical Science (Lab Science)**

This is an introduction to the physical sciences, chemistry and physics. Emphasis is placed on composition, structure, properties, and behavior and interactions of matter in the environment. Changes in matter, laboratory procedures, measurement and dissemination of data are emphasized. Recommended for students who have completed, or are concurrently enrolled, in Algebra I.

*Prerequisites: None*

*Length: Year*

**Course Number: 1130/1147**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Physics (Lab Science)**

Physics is the field of science that deals with matter and energy and their interactions. Mechanics, thermodynamics, waves and sound, and light and optics are covered. Numerous laboratory investigations are performed in which measurements of physical phenomena are taken. Through this data, the student achieves a better understanding of the physical behavior of our world. Small group projects will also be associated with some units so that students can apply knowledge of concepts. Students will be given the opportunity to take this class for 5 dual credit hours, 2<sup>nd</sup> Semester. Tuition and fees are required. *College credit prerequisite: 2.0*

**Cum. GPA (and) ACT Math score of 21+, or met other minimum college placement requirements.**

*Prerequisites: Physical Science, Algebra II, (or) concurrently enrolled.*

*Length: Year*

**Course Number: 1145/1146**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Robotic Technology**

This course will provide students with a real-world engineering experience that incorporates the practical application of science, technology, engineering, and math. It will prepare students to be technologically literate and thus better prepared for college or career. Students will develop leadership, project management, teamwork, and organizational skills that will boost their confidence and competence through self-directed learning, decision-making, abstract thinking, and problem-solving. This course is a project-based STEM program that immerses students in the experience of real-world science and engineering challenges. It includes the history of robots, participation in the B.E.S.T. robotic competition, and the effects of robots in today's society. Some Saturdays and outside class time required. Students must participate in building the robot and in the Robotics competition to pass. Course may be repeated for credit. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Cost of items vary by program (see course syllabus for details).

*Prerequisites: Instructor approval*

*Length: 1<sup>st</sup> Semester*

**Course Number: 1124**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Zoology**

This course is an introduction to various vertebrate and invertebrate animals, their evolutionary relationships, anatomy and physiology, behavior, and ecology.

*Prerequisites: Biology 1*

*Length: 1<sup>st</sup> Semester*

**Course Number: 1119**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

## **SOCIAL STUDIES**

**Current Events**

This course will enable students to study political, economic, and social issues facing the world. This course will focus on current issues, examine selected issues throughout the 21<sup>st</sup> century, and look at historical causes or possible solutions. This course will also reinforce how world issues relate to specific standards that have been addressed in previous courses.

*Prerequisites: None*

*Length: Semester*

**Course Number: 1224**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Independent Study in Social Studies**

Allows students to learn from self-generated action research. Students would be assigned to a teacher's class throughout the day and would work independently during class period. The student would network with outside experts in the area of interest and have regular contact with the supervising teacher. Student will be expected to produce and submit their data and results, in proper format, to a panel of high school teachers from various curricular areas as determined by the teacher and student based on the subject's studies. The project may also be required to be submitted to an organization outside the school such as a veteran's group, local history association, or the State History Day Competition. Enrollment is limited and application for this class will require the student to submit a project outline. Those selected will be notified.

*Prerequisites: World History (and) US History*

*Length: Semester*

**Course Number: 1251**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Psychology**

This course is the study of human behavior and mental processes in order to understand why we act as we do and predict how we may behave in the future. College credit may be available for students meeting college credit prerequisites. *College credit prerequisite: 2.0 Cum. GPA*

*Prerequisites: None*

*Length: Semester*

**Course Number: 1235**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Religions in World History**

This course will investigate some of the world's major religions; Judaism, Christianity; Islam, Hinduism and others. The course looks at how religious beliefs have shaped cultures, inspired great deeds, brought about bitter conflicts, and their overall impact on world history.

*Prerequisites: None*

*Length: Semester*

**Course Number: 1244**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Sociology**

Sociology is a course that provides opportunities to help students develop a strong sense of self-worth and gain more effective communication skills enabling them to interact better with others. Skills in coping with disappointment, anger, conflict, rejection, and loss are studied. College credit/dual credit is available/optional for students who meet college credit prerequisites. *College credit prerequisite: 2.0 Cum. GPA*

*Prerequisites: None*  
*Length: Semester*

**Course Number: 1240**

*Grade Level: 10-12*  
*Credit: 0.5 per semester*

**U.S. Government**

The American government course is an analysis of the American political system with an in-depth look at our national government and the Constitution.

*Prerequisites: None*  
*Length: Semester*

**Course Number: 1218**

*Grade Level: 12*  
*Credit: 0.5 per semester*

**College Credit U.S. Government**

The American government course is an analysis of the American political system with an in-depth look at our national government and the Constitution. College credit/dual credit is available/optional for students enrolled in College Credit United States Government & Politics, who meet college credit prerequisites.

*Prerequisites: None*  
*Length: Semester*

**Course Number: 1222**

*Grade Level: 12*  
*Credit: 0.5 per semester*

**U.S. History**

The 1<sup>st</sup> semester of this required course explores the history of the United States from 1900 to the end of WWII. Focus includes early immigration at the turn of the century, the change of the nation from an agrarian to an industrial society, world conflicts, and the most severe depression that this nation has ever endured. The 2<sup>nd</sup> semester looks at the U.S. as a super power during the last 50 years. Controversial, social, and economic issues on the domestic front are studied, along with the role the government has taken in our present society. The course looks into the growth of military power during post WWII into the Cold War and Vietnam, and our present role as the world's remaining super power.

*Prerequisites: None*  
*Length: Year*

**Course Number: 1207/1210**

*Grade Level: 11*  
*Credit: 0.5 per semester*

**World Geography**

World Geography is a course designed to expose the student to the world around them by exploring the geographic, political, economic, and cultural aspect of our world.

*Prerequisites: None*  
*Length: Semester*

**Course Number: 1250**

*Grade Level: 9-12*  
*Credit: 0.5 per semester*

**World History**

This course covers the time period from the Renaissance through the fall of the Soviet Union in the early 1990s. The course will cover intellectual trends, revolutionary movements, social interactions, political ideologies, economic theories, and geographical impacts. Students will focus on critical events, people, and turning points during these centuries including the Renaissance, imperialism, and twentieth-century issues. The course is rigorous and relevant with instruction that integrates thinking skills, historical processes, and content so that students are able to apply their learning to their own lives. Instruction includes the integration of concepts and principles from history, economics, geography, civics, and the humanities.

*Prerequisites: None*  
*Length: Year*

**Course Number: 1228/1229**

*Grade Level: 10-12*  
*Credit: 0.5 per semester*

## **STEM (SCIENCE, TECHNOLOGY, ENGINEERING & MATH)**

**Computer Integrated Manufacturing (CIM)**

This is a course in the STEM Cluster/Engineering and Applied Science Pathway. In addition, CIM is part of the PLTW High School Curriculum that includes IED and POE courses. This is a technical level course for students who may be interested in pursuing a career in field of engineering within the manufacturing, robotics, and automation arenas. Students will learn about the history of manufacturing, robotics and automation, manufacturing processes, computer modeling, manufacturing equipment, and flexible manufacturing systems. Equipment used in this course includes: CNC mill and lathe, 3-D prototype printer, and plasma cutting systems. Articulated college credit from WSU will be offered to students who continue on to WSU in the Engineering Technology major. This course has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student and/or parent. Costs for these items vary by program (see course syllabus for details). *College credit prerequisite: 2.0 Cum. GPA.*

*Prerequisites: Introduction to Engineering*  
*Length: Year*

**Course Number: 1170/1171**

*Grade Level: 10-12*  
*Credit: 0.5 per semester*

**Engineering and Design Development**

This application/capstone level course is designed for students to work in teams to design and develop an original solution to a valid open-ended technical problem, by applying the engineering design process. Working in teams, students will complete the following throughout the course: Perform research to validate technical problems, define problems, build and test solutions, collaborate with students, staff and industry professionals/mentors, and team-up to present and defend original solutions to outside panel. This course is offered for articulated credit from WSU and possibly other post-secondary institutions.

*Prerequisites: POE (and/or) CIM*  
*Length: Year*

**Course Number: 1172/1173**

*Grade Level: 11-12*  
*Credit: 0.5 per semester*

**Introduction to Engineering Design (IED) (Project Lead the Way)**

Designed as an entry-level course for students interested in STEM education, the major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.

*Prerequisites: None*

*Length: Year*

**Course Number: 1150/1151**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Principles of Engineering (POE) (Project Lead the Way)**

Designed as an intermediate level course for students interested in STEM education, this survey course exposes students to major concepts they'll encounter in a postsecondary engineering program of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions. Articulated college credit from WSU will be offered to students who continue on to WSU in the Engineering Technology major.

*Prerequisites: Introduction to Engineering Design (IED) - PLTW*

*Length: Year*

**Course Number: 1152/1153**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Bio Medical Path****Human Anatomy & Physiology (Lab Science-Science Credit)**

This course is for students with an interest in biology. The major part of this course is devoted to Human Anatomy and Physiology, with lab work a regular part of the class endeavor. Current biology topics are stressed to show how biology is an everyday part of life. Students who earn a grade of "C", or better, in the 1st semester of the course may be eligible to enroll in, and earn, 5 dual credit hours. Tuition and fees are required. *College credit prerequisite: 2.0 Cum. GPA*

*Prerequisite: Biology I (and/or) Instructor approval*

*Length: Year*

**Course Number: 1120/1121**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Robotic Technology**

This course will provide students with a real-world engineering experience that incorporates the practical application of science, technology, engineering, and math. It will prepare students to be technologically literate and thus better prepared for college or career. Students will develop leadership, project management, teamwork, and organizational skills that will boost their confidence and competence through self-directed learning, decision-making, abstract thinking, and problem-solving. This course is a project-based STEM program that immerses students in the experience of real-world science and engineering challenges. It includes the history of robots, participation in the B.E.S.T. robotic competition, and the effects of robots in today's society. Some Saturdays and outside class time required. Students must participate in building the robot and in the Robotics competition to pass. Course may be repeated for credit. This course is available for college credit/dual credit, and has the benefit of paid tuition. When required, books, supplies, and fees are the responsibility of the student/parent. Cost of items vary by program (see course syllabus for details).

*Prerequisites: Instructor approval*

*Length: 1<sup>st</sup> Semester*

**Course Number: 1124**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**VISUAL ARTS****Art Appreciation**

This course is designed to develop a personal appreciation of art. By combining a study of concepts and artist's work, the student should improve ones' judgement and ability to understand art critically. This class is offered for dual credit and is an online course. This course is offered for 3 hours of college credit. *College credit prerequisite: 2.0 Cum. GPA*

*Prerequisite: None*

*Length: Semester*

**Course Number: 9300**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Art & Design Fundamentals**

This art overview course provides a foundation for beginning artists. An emphasis is placed on learning/analyzing/applying the elements and principles of design and how they are used in drawing, painting, ceramics, sculpture & digital media projects. Art & Design Fundamentals is a prerequisite for all other VCHS art courses.

*Prerequisite: None*

*Length: Semester*

*Supplies: 8 ½ x11" sketchbook, 12 pk. Ticonderoga pencils, & 2 large erasers*

**Course Number: 1300**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Intermediate 2D Design**

This graphic design course teaches students to use 2-dimensional media and techniques to effectively communicate ideas and information through visual art. Technique, terminology, problem solving and consideration of audience is the focus of this class as we explore a variety of media including: pencil, charcoal, pastels, pen & ink, watercolor and acrylic paint.

*Prerequisites: Art & Design Fundamentals*

*Length: Semester*

*Supplies: 8 ½ x11" sketchbook, 12 pk. Ticonderoga pencils, & 2 large erasers*

**Course Number: 1301**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Advanced 2D Design**

This advanced level graphic design course will build upon concepts and skills established in both Intermediate 2D Design and Design Fundamentals. Student in this course will work to create a strong portfolio of 2-dimensional art work for personal, college entry, or professional use. Students planning to study art post-secondary may repeat this course for portfolio competition/credit.

*Prerequisites: Art & Design Fundamentals (and) Intermediate 2D Design*

*Length: Semester*

*Supplies: 8 ½ x11" sketchbook, 12 pk. Ticonderoga pencils, & 2 large erasers*

**Course Number: 1302**

*Grade Level: 10-12*

*Credit: 0.5 per semester*



**Intermediate 3D Design**

In this graphic design course students will learn about and create sculptural and functional artworks. Students will utilize drawing, individual and group inquiry, discussion, media experimentation and application in the planning, construction and self-evaluation stages of their projects.

*Prerequisites: Design Fundamentals*

*Length: Semester*

*Supplies: 8 ½ x11" sketchbook, 12 pk. Ticonderoga pencils, & 2 large erasers*

**Course Number: 1303**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Advanced 3D Design**

This advanced level graphic design course will build upon concepts and skills established in both Intermediate 3D Design and Design Fundamentals. Students in this course will work to create a strong portfolio of 3-dimensional art work for personal, college entry or professional use. Students planning to study art post-secondary may repeat this course for portfolio competition/credit.

*Prerequisites: Art & Design Fundamentals (and) Intermediate 3D Design*

*Length: Semester*

*Supplies: 8 ½ x11" sketchbook, 12 pk. Ticonderoga pencils, & 2 large erasers*

**Course Number: 1304**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Intermediate Computer Graphics**

This graphic design course teaches students to use the elements and principles of design coupled with typography to effectively communicate ideas and information through digital art. Skill development, technique, terminology, problem solving and consideration of audience is the focus of this class as we explore a variety of media including: digital drawings, logos, advertisements, magazine layouts, and more using Adobe Illustrator & Adobe Photoshop.

*Prerequisites: Art & Design Fundamentals*

*Length: Semester*

*Supplies: 8 ½ x11" sketchbook, 1 GB (minimum) flash drive*

**Course Number: 1305**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Advanced Computer Graphics/Advanced Photo Imaging**

This advanced graphic design course will build upon concepts and skills established in both intermediate Computer Graphics and Design Fundamentals. Student in this course will work to create a strong portfolio of 2-dimensional art work for personal, college entry, or professional use. Students planning to study art post-secondary may repeat this course for portfolio competition/credit.

*Prerequisites: Art & Design Fundamentals, Intermediate Computer Graphics (and/or) Photo Imaging*

*Length: Semester*

*Supplies: 8 ½ x11" sketchbook, 1 GB (minimum) flash drive*

**Course Number: 1306**

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Hornet Print & Design**

Students will have the opportunity to design/produce various media for a variety of school groups and public organizations. Students learn all aspects of the business from design, production, shop maintenance, quality control, billing, budgeting, public relations, advertising, and correspondence skills. Proceeds from the business help to fund scholarships towards post high school education for graduating seniors. Admittance based on instructor approval and prerequisites.

*Prerequisite: Instructor approval (or) Intermediate Computer Graphics*

*Length: Year*

**Course Number: 1032/1033**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**Photo Imaging**

This graphic design/photography course will focus on the use of Digital DSLR cameras. Students will learn about camera settings, production of correct exposure, composition, depth of field, lighting, alternative camera angles and image editing software to produce high quality portraits, landscapes, digital storytelling, still life photographs and surreal photo manipulation projects. An online portfolio of their photographs will be kept during this course.

*Prerequisites: Art & Design Fundamentals*

*Length: Semester*

*Supplies: 8 ½ x11" sketchbook, 1 GB (minimum) flash drive*

**Course Number: 1309**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

## **OTHER COURSE OFFERINGS**

**College and Career Ready**

This course is open to Grades 10-12 with the understanding that actual enrollment is prioritized to Grades 11-12. The course outcomes would focus on specific components of what it means to be college ready, including, but not limited to: ACT preparation, financial literacy, college entrance exams and scholarship applications, career exploration, employability, and resume writing.

*Prerequisite: None*

*Length: Semester*

**Course Number: 1073**

*Grade Level: 10-12*

*Credit: 0.5 per semester*

**College Study**

Dual credit is available to students who qualify to take college level classes as a high school student. The grade earned will be posted on the student's transcript. Classes must be approved by the counselor or building principal and must be beyond the curriculum offered here at the high school. The classes must be appropriate to the student's academic, social, and personal development levels. Students must turn into counseling office an enrollment verification form at the beginning of the semester and a college transcript-showing grade earned at the end of each semester class.

*Length: Semester*

*Supplies: Cost of tuition and books*

**Course Number: 1010/1011**

*Grade Level: 11-12*

*Credit: 0.5 per 3 hrs. college credit*

**Gifted Seminar**

Course enables students to pursue curriculum that is individually designed. Course content is based on the student's individual educational plan. Class activities also include strategies of higher-level learning, on-line college search, community service, and portfolio development. Course may be repeated.

*Prerequisite: Gifted program placement*

*Length: Semester*

**Course Number: 1945/1946**

*Grade Level: 9-12*

*Credit: 0.5 per semester*

**Library Media Science****Course Number: 1925/1926**

Course gives students an understanding of the library media center, to develop skills necessary for library science, and to prepare them for library media science work. Students are exposed to all aspects of library media and will be introduced to types, history, arrangement, and policies of libraries. Students participate in the review, ordering, and processing library media materials. Students will receive an A or F, based on their work ethic, professionalism and attendance.

*Prerequisite: Application and Librarian approval*

*Length: Semester (or) Year*

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Office Aide****Course Number: 1920/1921**

Students are utilized on an as-needed basis with final selection process determined by the building administrators. Students receive grades based on quality of work, attendance and tardiness, and other office duties. Students will receive an A or F, based on their work ethic, professionalism and attendance. **Must have a 2.5+ Cumulative GPA, and cannot be failing any scheduled classes.**

*Prerequisite: Application (and) Administrative approval*

*Length: Semester (or) Year*

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Peer Mentorship****Course Number: 1952/1953**

The Peer Mentorship class is a cross-age peer mentoring program, where students support students in the classroom setting. Classroom settings can be in a number of different classes at VCHS, from core content to CTE classrooms. Teachers/staff will be available to provide extra context, structure, and support including engaging activities and ongoing match supervision. **Student must have a minimum 2.5+ Cumulative GPA, and cannot be failing any scheduled classes.**

*Prerequisite: Application (and) Administrative approval*

*Length: Semester (or) Year*

*Grade Level: 11-12*

*Credit: 0.5 per semester*

**Teacher Assistant (TA)****Course Number: 1977/1978**

TA's work in the classrooms with a teacher. Student receives grade based on quality of work, attendance and tardiness, and other classroom duties. TA's may assist teachers by completing word processing activities, filing in the classroom, errands on-site, delivering messages, making bulletin boards, setting up labs, and by tutoring students in the classroom. Students will receive an A or F, based on their work ethic, professionalism and attendance.

*Prerequisite: Application, C average in subject area (and) Instructor approval.*

*Length: Semester (or) Year*

*Grade Level: 12*

*Credit: 0.5 per semester*

**WSU Tech/Hutchinson Community College (Career Technical Skill Training)****Course Number: 1964/1965**

Students may enroll in block courses designed to provide technical skill training for various careers. Students must work with their counselor to ensure all graduation requirements are met. Students attend VCHS and attend WSU Tech to complete the school day. Program areas available include Automotive Technology, IT systems, Machining, CATIA, HVAC, Welding, Fire Science, EMT, and many more. Course offerings may change each year. Students who enroll in any course for college credit may be required to meet minimum ACT, ASSET, or other placement assessment score. See Guidance Office for details.

*Prerequisite: Application (and) on target with required classes for graduation.*

*Length: Year*

*Supplies Needed: Books & supplies*

*Grade Level: 11-12*

*Credit: Varies*

**Work Experience****Course Number: 1193**

This elective is available to seniors in their 2<sup>nd</sup> semester who have completed at least 23.5 credits at the conclusion of their 7<sup>th</sup> semester. Eligible seniors may elect to use up to 2 hrs of the school day to earn .5 credit of Work Study or 4 hours of each school day to earn 1 credit. Students must work 90 hrs for each .5 credit earned. Students must regularly submit pay stubs to accumulate 90 hrs. and employer must agree to complete an eval. for each .5 credit. Termination of employment will result in a failing grade.

*Prerequisite: Application (and) 23.5 credits (and) completion of first semester of senior year.*

*Length: Semester*

*Grade Level: 12*

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