Course Guide

USD 232
2019-2020

De Soto High School
Home of the Wildcats
35000 W. 91st Street
De Soto, Kansas 66018
913-667-6250

Mill Valley High School
Home of the Jaguars
5900 Monticello Road
Shawnee, Kansas 66226
913-422-4351
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USD 232 Graduation Requirements
25 Credits Total

Courses may only count toward one category. See course guide for more information about courses. Courses marked with “MV”, are offered at Mill Valley only and courses marked with “D”, are only offered at De Soto. Courses are a yearlong (1 credit) unless otherwise noted.

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<thead>
<tr>
<th>English Language Arts</th>
<th>Social Science</th>
<th>Fine Arts</th>
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<tbody>
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<th>English 10</th>
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|-------------------|--------------------------|--------------------|--------------------------|---------------------|-------------|---------------|---------------|---------------|----------------|---------------------|----------------------|

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<th>Argumentation &amp; Debate Fund (D)(.5)</th>
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<th>Advanced Debate (.5)</th>
<th>Forensics (.5)</th>
<th>Advanced Forensics (.5)</th>
<th>Drama (.5)</th>
<th>Advanced Drama (.5)</th>
<th>Repertory Theatre</th>
<th>AV Production Fundamentals (.5)</th>
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</table>

<table>
<thead>
<tr>
<th>Science</th>
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| Biology | Honors Biology | AP Biology | Chemistry | Honors Chemistry | AP Chemistry | Physical Science | Environmental Science (MV) (.5) | AP Environmental Science | Plants & the Environment (MV) (.5) | Kansas Natural History (D) | Marine Science (MV) | Zoology (MV) | Environmental Res & Wildlife Science | Human Anatomy & Physiology | Physics | AP Physics 1 | AP Physics 2 (MV) |
|---------|----------------|---------|---------|-----------------|-------------|----------------|--------------------------|--------------------------|-------------------------------|----------------|-------------|--------------------------------|-----------------|----------|---------------|---------------|

<table>
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<tr>
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<thead>
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<th>Art I (.5)</th>
<th>Art II (D)(.5)</th>
<th>Survey of Fine Crafts (MV)(.5)</th>
<th>Drawing (.5)</th>
<th>Painting (MV)(.5)</th>
<th>Ceramics (MV)(.5)</th>
<th>Sculpture (.5)</th>
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Continued on next page
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<thead>
<tr>
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<td>Creative Writing II (.5)</td>
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<tr>
<td>Music Theory (.5)</td>
<td>Computer Graphics</td>
<td>Sports Literature (MV) (.5)</td>
<td>AP World History: Modern</td>
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<tr>
<td>AP Music Theory</td>
<td>Graphic Design Workplace Exp (MV)</td>
<td>AP Psychology</td>
<td>Current Social Issues (MV) (.5)</td>
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<tr>
<td>Music Composition (.5)</td>
<td>Marketing</td>
<td>Archeology &amp; Artifacts (.5)</td>
<td>Sociology of Community Service (MV) (.5)</td>
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<td>Business Essentials (.5)</td>
<td>Sports &amp; Entertainment Marketing (.5)</td>
<td>Archeology Research &amp; Restoration (.5)</td>
<td>Team Sports (.5)</td>
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<tr>
<td>Accounting</td>
<td>Web Page Design</td>
<td>Sociology of Community Service (MV) (.5)</td>
<td>Lifetime Sports (.5)</td>
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<tr>
<td>Investing (MV)(.5)</td>
<td>Marketing Applications</td>
<td>Team Sports (.5)</td>
<td>Strength &amp; Conditioning (.5)</td>
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<td>Consumer &amp; Personal Finance (.5)</td>
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<td>Advanced Strength &amp; Conditioning (.5)</td>
<td>Cardio Fitness (.5)</td>
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<td>Advanced Accounting</td>
<td>Game Design &amp; Authoring the Web (D)</td>
<td>Digital Electronics (D)</td>
<td>Residential Carpentry II</td>
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<tr>
<td>Emerging Technologies (D)</td>
<td>AP Computer Science Principles (D)</td>
<td>Business Law (MV) (.5)</td>
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<td>EDTEC Classes (2)</td>
<td>Human Growth and Development (.5)</td>
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<td>Interior Design (.5)</td>
<td>Washburn Tech Classes (1-4)</td>
<td>Family Studies (.5)</td>
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<tr>
<td>Research &amp; Design in Building Trades (MV)</td>
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<td>Nutrition and Wellness (.5)</td>
<td>Nutrition and Wellness (.5)</td>
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<tr>
<td>Research &amp; Design for Pre-Construction</td>
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<td>Leadership Service in Action (MV) (.5)</td>
<td>Leadership Service in Action (MV) (.5)</td>
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<td>21st Century Journalism (.5)</td>
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<td>Career Connections (.5)</td>
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<td>Community Connections (.5)</td>
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<td>Teaching as a Career</td>
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<td>Teacher Internship</td>
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<td>Graphic Design (MV)</td>
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<td>Senior Symposium (D)(2)</td>
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<td>Career and Life Planning (.5)</td>
<td>Career and Life Planning (.5)</td>
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</table>
Kansas Board of Regents Admissions Requirements
Graduates MUST meet the following requirements in order to gain admission to one of the six Kansas Board of Regents Institutions (Emporia State University, Fort Hays State University, Kansas State University, Pittsburg State University, University of Kansas* and Wichita State University).

1. Achieve one of the following: Score a composite of 21 on the ACT; or an SAT score of 980 or above; or Graduate in the top 1/3 of your graduating class (during the 7th or 8th semester)

AND

2. Earn at least a 2.0 GPA on a 4.0 scale in the Qualified Admissions Curriculum.
   - 4 credits English
   - 3 credits natural science (one credit must be Chemistry or Physics)
   - 3 approved credits math (including Integrated Math III or higher) with the ACT math benchmark or 4 approved math credits
   - 3 credits social science
   - 3 additional approved credits

AND

3. Achieve a 2.0 GPA or higher on any college credit taken in high school (if applicable).

*The University of Kansas has additional requirements. See their website (www.ku.edu) for more details.

Kansas Scholars Curriculum
Students who complete the Kansas Scholars Curriculum will receive a certificate from the Kansas Board of Regents and be considered for scholarships through the Kansas State Scholars Program.
   - 4 credits English
   - 3 credits natural science (one credit each in Biology, Chemistry and Physics)
   - 4 credits math including Integrated Math III and higher
   - 3 credits social science
   - 2 credits foreign language (must have two years of one language)

College Entrance Recommendations
Students who plan to enter a two-year or four-year college should check the admission requirements at the institutions in which they are interested.
Important Information
Regarding NCAA Eligibility:

Register online during the spring of your SOPHOMORE year at the NCAA Eligibility Center Website (www.eligibilitycenter.org). Also check with your counselor for the NCAA Guide for the College-Bound Student-Athlete pamphlet for more information.

Division I Requirements

1. Complete 16 core courses:
   - 4 years of English
   - 3 years of math (Integrated Math I and higher)
   - 2 years of natural or physical science (including one year of lab science)
   - 1 additional year of English, math, or natural/physical science
   - 2 years of social science
   - 4 years of additional courses from any category above OR foreign language

2. Complete 10 of your 16 core courses, including seven in English, math or natural/physical science before the start of your seventh semester.

3. Complete the 16 NCAA-approved core courses in eight academic semesters or four consecutive academic years from the start of ninth grade.

4. Earn an SAT combined score or ACT sum score that matches your core-course GPA (minimum 2.300) on the Division I full qualifier sliding scale.

Division II Requirements

1. Complete 16 core courses:
   - 3 years of English (will increase to 4)
   - 2 years of math (Integrated Math I and higher)
   - 2 years of natural or physical science (including one year of lab science)
   - 3 extra years of English, math, or natural/physical science
   - 2 years of social science
   - 4 years of additional core courses from any category above OR foreign language

2. Earn an SAT combined score or ACT sum score that matches your core-course GPA (minimum 2.200) on the Division II full qualifier sliding scale.
Ways to Earn College Credit While Still in High School

Advanced Placement
Certain advanced courses in the high school program are designated Advanced Placement (AP). The AP examinations given each May, on a standardized national test day, are scored by the Education Testing Service. Each examination receives an overall score on a five-point scale:

- 5 points = extremely well qualified
- 4 points = well qualified
- 3 points = qualified
- 2 points = possibly qualified
- 1 point = no recommendation

Each college decides which AP examination scores it will accept. Some colleges accept scores of 3 or better and give the student credit as if that person had taken one or more basic courses in the subject tested. In some cases, credit is not given, but the necessity of taking basic courses is waived. Students can check individual college AP credit policies by using the College Search on the College Board website.

It is recommended that college bound students consider taking one or more AP courses. Research shows students completing one or more AP courses, regardless of their grade, do better in college than those never taking AP courses. The current cost is approximately $94 per AP exam.

Dual Credit Enrollment (Johnson County Community College and Baker University)

JCCC: The College Now program for high school sophomores, juniors, and seniors is offered in cooperation with Johnson County Community College. A student must complete a JCCC application, assessments as required, and provide payment for tuition. A high school transcript is not required at the time of enrollment. College Now classes are aligned with the curriculum at JCCC, but are taught in the high school classroom. For more information, go to www.jccc.edu/collegenow.

Baker University: Baker Concurrent Credit Classes are college classes taken by qualified high school students that concurrently count toward high school graduation and college degree courses. Partner high schools work with Baker to seek approval for particular instructors and courses within the school. Baker and the high school both transcript the students’ grades. Students from a partner high school district who are in an approved Concurrent Credit Class and have a cumulative high school GPA of 3.0 or higher are eligible to earn Baker credit. Eligible students must be recommended by their high school counselor. www.bakeru.edu/concurrent-credit/

Washburn Tech: The Washburn Tech dual-credit classes are college classes taken by juniors and seniors on the high school campus via online course work. The student must complete the Washburn Tech Admissions process. Technology and textbook fees will be collected by the program. Students who take these classes are students interested in attending Washburn University or Washburn Tech after high school. www.washburntech.edu

Wichita State: Courses are offered in the area of engineering through Wichita State for concurrent credit. Students who are in the engineering pathway will be provided information from their instructors to earn college credit. www.wichita.edu/admissions/ugrad/concurrent.php
Quick Step

Quick Step is for high school students who want to enroll in classes on the Johnson County Community College campus. 10th - 12th graders may enroll in JCCC courses. Students interested in the Quick Step program should contact their counselor for procedures.

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Advanced Placement exam available</th>
<th>JCCC credit available</th>
<th>Baker University credit available</th>
<th>WU Tech credit available</th>
<th>Wichita State credit available</th>
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<tbody>
<tr>
<td>AP Biology</td>
<td>X</td>
<td>X (MVHS)</td>
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<tr>
<td>AP Physics 1</td>
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<tr>
<td>AP Physics 2</td>
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<td>X (MVHS)</td>
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<td>AP Environmental Science</td>
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<td>Basic Electricity</td>
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<td>Energy Loads and Calculations</td>
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<td>Advanced Systems Technology</td>
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<tr>
<td>Graphics Technology</td>
<td></td>
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</table>
### Advanced Placement vs. Dual Enrollment Credit

<table>
<thead>
<tr>
<th></th>
<th>Advanced Placement Credit</th>
<th>JCCC College Now Credit</th>
<th>Baker University</th>
<th>Wichita State University</th>
<th>Washburn Tech</th>
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<tbody>
<tr>
<td>Cost</td>
<td>$94 per exam</td>
<td>$93 per credit hour</td>
<td>$110 per credit hour</td>
<td>$25 application $50 per credit hour</td>
<td>$10-$20 per credit hour Program fees may apply</td>
</tr>
</tbody>
</table>

#### Transferring Credit

- Accepted by almost all US colleges & universities including highly selective schools. The way the credit reflects on the transcript varies by institution. Can earn a letter grade, credit only or advancement to the next level.
- Transfers to most state schools in and outside of Kansas.
- Check transfer credit policy of the institutions you are interested in.

#### How Credit is Earned

- Achieving a score of 3, 4, or 5 on the AP exam in May. Check individual courses credit policy at [www.collegeboard.org/ap/creditpolicy](http://www.collegeboard.org/ap/creditpolicy)
- Check transfer credit policy of the institutions you are interested in.

#### Amount of Credit Earned

- Can depend on the score. Higher scores can earn more credit.
- The credit hours assigned to the course. Usually 3 or 5 credit hours.
- The credit hours assigned to the course. Usually 3 or 5 credits.
- The credit hours assigned to the course. Usually 3 or 5 credits.

*Important – Students should check individual college credit policies for the institutions in which they are interested.

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### GPA Calculation and Weighted Grades

USD 232 implements a weighted grading system to recognize and reward academic work in selected Honors, AP, and approved Dual Credit courses. To compute grade point average, the total number of points earned is divided by the total number of credits attempted (not the total credits earned). Averages are figured cumulatively, that is, the total points for all semesters of school work are divided by the total number of credits attempted for all semesters.

Students transferring into USD232 will receive weighted grade credit only for courses designated as weighted courses by USD 232.

The weighted grading system will be used to determine USD232 student honors and distinctions, including class rank. Transcripts will reflect both weighted and unweighted grade point averages.

Note: the weight of each course is identified in the course description heading and course information table.

<table>
<thead>
<tr>
<th>Letter grade</th>
<th>Standard GPA</th>
<th>Honor courses: Partial Weight (PW)</th>
<th>AP and Dual Credit sources: Full Weight</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
<td>4.5</td>
<td>5.0</td>
</tr>
<tr>
<td>B</td>
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<tr>
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### Schedule Change Policy

It is essential that you choose your courses carefully. If you have questions about your course selection, visit with your counselor. Your school’s student handbook/course selection form states the schedule change policy.
WHAT IS DEGREE IN 3?
Degree in 3 is a partnership between the De Soto School District, Johnson County Community College, and the KU Edwards Campus that allows you to earn college credits in high school, complete an associate's degree one year after graduating, and finish your bachelor’s degree two years later.

HIGH SCHOOL TIMELINE
8th-10th Grade
Develop your academic plan with your high school counselor. Consider selecting up to 30 college credits from the College Now courses offered through your high school.
10th-12th Grade
Apply and be admitted to JCCC. Complete approximately 30 college credits from College Now and Quick Step through JCCC.
12th Grade: Feb. 1
Apply to JCCC for degree. Complete the FAFSA and apply for financial aid and scholarships at JCCC.

JCCC TIMELINE
Spring, Senior Year in High School
Attend New Student Orientation at JCCC, in-person or online. Meet with JCCC Counselor to discuss summer and fall courses, and how to stay on track to earn your degree. Utilize the JCCC/KU Edwards Transfer Guide.
Fall Semester
Meet with JCCC Counselor to plan spring classes and stay on track for May graduation. Meet with KU Edwards Academic Success Coach to plan transfer to KU Literature, Language, and Writing program.
Spring Semester
Apply for admission to KU Edwards by Feb. 1. Complete the FAFSA and apply for financial aid and scholarships at KU Edwards.

KU TIMELINE
Spring/Summer before KU enrollment
Attend New Student Orientation at KU Edwards.
Fall Semester 1
Meet with KU Edwards Academic Success Coach. Start thinking about career paths and internship opportunities.
Spring Semester 4
Apply for graduation by March 1.

Available Programs

| BACHELOR OF ARTS/BACHELOR OF GENERAL STUDIES IN LITERATURE, LANGUAGE, AND WRITING (BA/BGS) | BACHELOR OF ARTS/GENERAL STUDIES IN PUBLIC ADMINISTRATION (BA/BGS) |
| BACHELOR OF ARTS/GENERAL STUDIES IN LAW & SOCIETY (BA/BGS) | BACHELOR OF BUSINESS ADMINISTRATION (BBA) |
| BACHELOR OF SCIENCE IN MOLECULAR BIOSCIENCES (BS) | BACHELOR OF SCIENCE IN EXERCISE SCIENCE (BS) |
| BACHELOR OF APPLIED SCIENCE IN BIOTECHNOLOGY (BAS) | |

See your counselor for more information.
### English Language Arts

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</table>

#### English 9

**CAG100**

Credit: 1

This course includes a balance of reading, writing, listening, and speaking skills. Students read novels, plays, short stories, poetry and non-fiction. Students will compose Narrative, Expository, Persuasive, and Technical writings. The class includes the study of literary terms, vocabulary and conventions, as well as the application of research skills.

#### Honors English 9

**CAH101**

Credit: 1

This rigorous course is intended to introduce and prepare students for Advanced Placement courses and exams. This course covers a multitude of genres including literature (poetry, drama, short stories, non-fiction, and novels), writing (narrative, persuasive, technical, and expository), and grammar and vocabulary usage. Students will be analyzing various writings that will enhance student’s critical thinking skills, as well as write critical writing pieces.

#### English 10

**CAG200**

Credit: 1

This course covers a multitude of genres including literature (poetry, drama, short stories, non-fiction, and novels), writing (narrative, persuasive, technical, and expository), and grammar and vocabulary usage.

#### Honors English 10

**CAH201**

Credit: 1

This rigorous course is intended to introduce and prepare students for Advanced Placement courses and exams. This course covers a multitude of genres including literature (poetry, drama, short stories, non-fiction, and novels), writing (narrative, persuasive, technical, and expository), and grammar and vocabulary usage. Students will be analyzing various writings that will enhance student’s critical thinking skills, as well as write critical writing pieces.

#### English 11

**CAG300**

Credit: 1

This course studies grammar, vocabulary, expository, persuasive, technical and narrative writing, and American literature. The literature includes short stories, speeches, plays, novels, letters, and poetry by American authors. Each quarter, students explore the literature through reading, writing, discussion and projects. Students also practice speaking skills, researching skills and reading independently.

#### AP Language & Composition

**CAP350**

Credit: 1

This rigorous course is intended to prepare students to take the AP English Language and Composition exam. AP English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer’s purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The course requires that students be able to think, read, and write critically and creatively at an advanced level.
English 12

CAG400

Credit: 1

This class studies British literature from Anglo Saxon times to the present. Grammar and mechanics are reviewed. Formal composition skills are highly emphasized and focus on expository, persuasive, narrative and technical writing. Projects, portfolios, and class presentations encourage both written and oral communication. A research paper will be required for this course.

Creative Writing I

CAG801

Credit: .5

This introductory course offers student writers the opportunity to create written ideas in a number of different areas. Types of work created through out the semester vary from poetry to short stories. Student writers receive instructor and peer feedback while expressing individual creative thoughts.

AP Literature & Composition

CAP450

Credit: 1

This rigorous course is intended to prepare students to take the AP Literature and Composition exam. AP Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a works structure, style, and themes as well as such smaller scale elements as use of figurative language, imagery, symbolism, and tone. Student writings include impromptu essays, extended essays, and reader responses with an emphasis on literary analysis.

Creative Writing II

CAG803

Prerequisite: Creative Writing I

Credit: .5

This course expands upon the skills learning in Creative Writing. Topics will include genre writing, play writing, and advanced composition of poetry and short fiction. Student writers receive feedback from peers and the instructor while learning to improve their creative writing through the revision process.

Sports Literature

CAG802

Credit: .5

This course focuses on exploring universal themes found in the literature of sports such as gender equity, adversity, perseverance, defeat, integrity, and values. Students will be required to respond to literature as well as to films and music studied in class connecting themes discussed. The genres of literature read will be poetry, short story, essay, editorial, and novel. Students will write within the following areas: editorial, persuasive, and narrative.
### Mathematics

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#### Integrated Mathematics I

Grade 9

MAG110 Credit: 1

The fundamental purpose of Integrated Math I is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Mathematics I uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied.

#### Honors Integrated Mathematics I

Grade 9

MAH112 Credit: 1

The purpose of the Honors Integrated Math courses is to prepare students to take Advanced Placement and dual credit courses for college credit. Students who enroll in honors courses are expected to take the subsequent honors classes in the course series. The fundamental purpose of Integrated Math I is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, organized into units, deepen and extend understanding of linear relationships, in part by contrasting them with exponential phenomena, and in part by applying linear models to data that exhibit a linear trend. Mathematics I uses properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge from prior grades. The final unit in the course ties together the algebraic and geometric ideas studied.

#### Integrated Mathematics II

Grade 9-10

MAG210 Credit: 1

The focus of Integrated Math II is on geometric concepts and the quadratic function family. Students will explore the basics of geometry including terminology, angle relationships, similarity and congruence of polygons, right triangle trigonometry and properties and theorems of triangles, quadrilaterals, and circles. Additionally, students will focus on quadratic expressions, equations, and functions and applications of these concepts to physics. Students compare quadratic characteristics and behavior to those of linear relationships from Integrated Math I. Extension of the set of rational numbers to real and complex numbers is introduced for the solving of quadratic equations.

#### Honors Integrated Mathematics II

Grades 9-10

MAH212 Credit: 1

Prerequisite: Integrated Math I or Honors Integrated Math I

The intent of the honors curriculum is to prepare students to take the Advanced Placement and dual-credit courses. Students who enroll in honors courses are expected to take the subsequent honors classes. Honors Integrated Math II students cover all of the Integrated Math II concepts at a deeper level of understanding, and they may cover some additional content including concepts such as higher degree polynomials, rational equations and expressions, and matrices.
Integrated Mathematics III  
Grades 11-12

MAG310  
Credit: 1

Prerequisite: Integrated Math II or Honors Integrated Math II Mathematics III provides students an opportunity to pull together and apply the accumulation of learning from previous courses. Content in this course is grouped into four critical areas, organized into units. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational, and radical functions. Students expand their study of right triangle trigonometry to include general triangles. And, finally, students bring together all of their experience with functions and geometry to create models and solve contextual problems. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

Intermediate Algebra  
Grade 12

MAG302  
Credit: 1

Prerequisite: Integrated Math III and/or teacher placement The fundamental purpose of this course is to formalize and extend the mathematics the students have learned. The course deepens and extends understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards apply throughout the course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. Enrollment in this course will be based upon teacher recommendation.

Applications of Math  
Grade 12

MAG800  
Credit: 1

Prerequisite: Teacher placement This course places an emphasis on problem solving techniques and practical real life math applications and is designed to help students strengthen their basic math skills. It does not prepare students for a college level math course. This course does not fulfill a Board of Regents requirement.

AP Statistics  
Grades 10-12

MAP600  
Credit: 1

Prerequisite: Integrated Math III or Pre-Calculus This rigorous course is intended to prepare students for the AP Statistics exam. AP Statistics includes collecting, analyzing, and drawing conclusions from data. The student will describe data patterns and departure from patterns, use sampling and experimentation to plan and conduct studies, explore random phenomena using probability and simulations, estimate population parameters and test hypotheses. TI-83 calculator required.

Pre-Calculus  
Grades 10-12

MAG401  
Credit: 1

Prerequisite: Honors Integrated Math II or Integrated Math III Topics in this course will include a more in depth look at quadratic and polynomial equations with real and complex solutions, exponential and logarithmic equations and functions, and trigonometric functions rational expressions. Other topics include transformations, probability including permutations and combinations, sequences and series, limits, vectors, conics, and trigonometry through advanced trigonometric identities.

AP Calculus AB  
Grades 11-12

MAP500  
Credit: 1

Prerequisite: Pre-Calculus This rigorous course is intended to prepare students for the AP Calculus exam. AP Calculus is primarily concerned with developing the students’ understanding of the concepts of calculus and providing experience with its methods and applications. This course emphasizes a multi-representational approach to calculus, with concepts, results and problems being expressed graphically, numerically, analytically and verbally.

AP Calculus BC  
Grades 11-12

MAP550  
Credit: 1

Prerequisite: AP Calculus AB This rigorous course is intended to prepare students for the AP Calculus exam. AP Calculus is primarily concerned with developing the students’ understanding of the concepts of calculus and providing experience with its methods and applications. This course emphasizes a multi-representational approach to calculus, with concepts, results and problems being expressed graphically, numerically, analytically and verbally.

College Algebra  
Grades 10-12

MAG700  
Credit: 1

Prerequisite: Integrated Math III This course focuses on the study of functions and their graphs, techniques of solving equations and the recognition and creation of patterns. Students will analyze and graph basic algebraic relations and exponential and logarithmic functions; solve equations and inequalities, including polynomial equations, exponential equations, logarithmic equations, systems of linear equations and systems of linear inequalities; and analyze and create algebraic and numerical patterns.
## Science

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### Biology

SCG200  
Fee $10 Per Year  
Credit: 1  
Biology is the study of living things and how they interact with their environment. This introductory course is designed for students who desire an overview of biology. Laboratory experiences include microscopic work, technology applications, dissection and basic laboratory skills.

### Honors Biology

SCH200  
Fee $10 Per Year  
Credit: 1  
This rigorous course is intended to introduce and prepare students for Advanced Placement courses and exams. This course is designed for students who desire a comprehensive survey of Biology, the study of living things and how they interact with their environment. The class is designed to provide students with a solid foundation needed for success in future life science courses. Laboratory experiences include microscopic work, technology applications, dissection and basic laboratory skills.

### AP Biology

SCP290  
Fee $10 Per Year  
Credit: 1  
Prerequisite: Biology and Chemistry  
This rigorous course is intended to prepare students for the AP Biology exam. This course will provide students with the conceptual framework, factual knowledge and analytical skills necessary to deal critically with the rapidly changing science of Biology. The goals of the course are to help students develop a conceptual framework for modern Biology and gain an appreciation of science as a process through lab experiences.

### Chemistry

SCG300  
Fee $10 Per Year  
Credit: 1  
Prerequisite: Biology and concurrent enrollment in Integrated Math II  
(Not recommended for students taking Integrated Math II Support)  
The class is designed to provide students with a solid foundation in chemical knowledge and principles needed for success in college chemistry. Topics covered include atomic structure, periodic properties of elements, chemical bonding, molecular structure, chemical equations, stoichiometry, gas laws, and acid/base chemistry.
### Honors Chemistry
**SCH301**  Credit: 1  Fee $10 Per Year  
This rigorous course is intended to introduce and prepare students for Advanced Placement courses and exams. The class is designed to provide students with a solid foundation in chemical knowledge and principles needed for success in college chemistry. Topics covered include atomic structure, periodic properties of elements, chemical bonding, molecular structure, chemical equations, stoichiometry, gas laws, and acid/base chemistry. This course covers more topics, in greater depth, than Chemistry. Lab work is more involved, and independent learning are emphasized.

### Physical Science
**SCG100**  Credit: 1  Fee $10 Per Year  
Physical Science is a laboratory based class that introduces basic chemistry and physics principles and allows the student to apply those principles to their environment. Classroom activities serve as a basis for developing math, science and inquiry skills needed for further study in science. The student will become familiar with laboratory equipment, techniques and procedures, as well as gathering and interpreting data. This course is not intended for students who have successfully completed Chemistry.

### AP Environmental Science
**SCP600**  Credit: 1  Fee $10 Per Year  
Prerequisite: Biology  
Equivalent to a one semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry and geography.

### Kansas Natural History
**SCG602**  Credit: 1  Fee $10 Per Year  
Prerequisite: Biology  
This is a field course that should attract students who desire to gain a better appreciation for the plants and animals native to the area in which we live. Included in the curriculum are studies of both terrestrial and aquatic habitats, identification of various groups of organisms and population survey.

### Marine Science
**SCG202**  Credit: 1  Fee $10 Per Year  
Prerequisite: Biology  
This course is designed to enlighten students as to the potential they may hold for a career in Marine Science. Emphasis will be placed upon the physical aspects of the oceans, as well as the living. The marine inhabitants will be studied at great length.

### Zoology
**SCG250**  Credit: 1  Fee $10 Per Year  
Prerequisite: Biology  
Zoology offers curricular diversity to students. This course includes selected topics in animal biology such as taxonomy and evolution, animal physiology, and ecology. Laboratory research skills are developed in the classroom and outdoors.

### Environmental Resources & Wildlife Science
**SCG203**  Credit: 1  Fee $10 Per Year  
Prerequisite: Biology  
This is an advanced level course that builds on Environmental Science and other life science classes. It is an application level course that is part of the Kansas CTE Biochemistry pathway. This course will provide strong emphasis on field and classroom research, laboratory investigations, and real-life application in the field of environmental science through partnerships with outside businesses. Students will gain a solid foundation for pursuit of a potential career in a field related to environmental science. Potential topics include: sustainability, conservation, ecology, soils, water resources, fisheries, plants, forestry, wildlife, air quality, waste, energy, and environmental careers.
### Social Science

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<thead>
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<th>Course Title</th>
<th>Credit</th>
<th>Weight</th>
<th>KS Regents</th>
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<td>Archeology &amp; Artifacts</td>
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<td>Sociology of Community Service</td>
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<td>X</td>
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<td>Application</td>
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</table>

### World Geography

0.5 Credit

This course involves a study into the structure and function of the human body. Eleven body systems will be investigated through a problem-based learning approach. Major emphasis will be placed on learning how these systems work.

### Honors World Geography

0.5 Credit

Prerequisite: Regents

### Civics

0.5 Credit

### Honors Civics

0.5 Credit

Prerequisite: Regents

### World History

1 Credit

### AP European History

1 Credit

Prerequisite: Pre-Calculus

### US History

1 Credit

### AP US History

1 Credit

Prerequisite: Integrated Math III or concurrent enrollment

### AP US Government & Politics

0.5 Credit

Prerequisite: Pre-Calculus

### Political Participation

0.5 Credit

### Constitutional Law

0.5 Credit

### AP World History: Modern

1 Credit

### Current Social Issues

0.5 Credit

### Psychology

0.5 Credit

### AP Psychology

1 Credit

### Archeology & Artifacts

0.5 Credit

### Archeology Research & Restoration

0.5 Credit

### Sociology of Community Service

0.5 Credit

### Human Anatomy/Physiology

SCGS00 Fee $10 Per Year Credit: 1

This course involves a study into the structure and function of the human body. Eleven body systems will be investigated through a problem-based learning approach. Major emphasis will be placed on learning how these systems work.

### Physics

SCG400 Fee $10 Per Year Credit: 1

Prerequisite: Biology and Integrated Math II

This class is designed to provide students with a solid foundation in the knowledge and principles of physics. It is a valuable preparation for college physics. Topics covered include motion in one and two dimensions, forces, vectors, momentum, gravitation, work and energy changes, waves, sounds light and optics, electricity and electromagnetism.

### AP Physics 1

SCP401 Fee $10 Per Year Credit: 1

Prerequisite: Integrated Math III or concurrent enrollment

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

### AP Physics 2

SCP402 Fee $10 Per Year Credit: 1

Prerequisite: AP Physics 1 and Pre-Calculus

AP Physics II is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.
<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Code</th>
<th>Credit</th>
<th>Description</th>
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<tr>
<td>World Geography</td>
<td>Grade 9</td>
<td>SSG801</td>
<td>.5</td>
<td>Students will examine different regions and cultures of the world while developing skills critical to success in secondary social studies, such as historical thinking, analyzing primary sources, interpreting maps and graphs, evaluating evidence to draw conclusions, and organizing the components of an argument.</td>
</tr>
<tr>
<td>Civics</td>
<td>Grade 9</td>
<td>SSG803</td>
<td>.5</td>
<td>Students will examine the historical development of governance, with an emphasis on evaluating the functions, structure, and cultural impact of government in the United States. The development of skills critical to success in secondary social studies, such as historical thinking, analyzing primary sources, interpreting maps and graphs, evaluating evidence to draw conclusions, and organizing the components of an argument will be emphasized.</td>
</tr>
<tr>
<td>Honors World Geography</td>
<td>Grade 9</td>
<td>SSH802</td>
<td>.5</td>
<td>This rigorous course is intended to introduce and prepare students for Advanced Placement courses and exams. Students will examine different regions and cultures of the world while developing skills critical to success in secondary social studies, such as analyzing primary sources, interpreting maps and graphs, evaluating evidence to draw conclusions, and organizing the components of an argument. Recommended for students with strong study skills and capable of independent learning.</td>
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<tr>
<td>Honors Civics</td>
<td>Grade 9</td>
<td>SSH804</td>
<td>.5</td>
<td>This rigorous course is intended to introduce and prepare students for Advanced Placement courses and exams. Students will examine the historical development of governance, with an emphasis on evaluating the functions, structure, and cultural impact of government in the United States. The development of skills critical to success in secondary social studies, such as analyzing primary sources, interpreting maps and graphs, evaluating evidence to draw conclusions, and organizing the components of an argument will be emphasized. Recommended for students with strong study skills and capable of independent learning.</td>
</tr>
<tr>
<td>World History</td>
<td>Grade 10</td>
<td>SSG102</td>
<td>1</td>
<td>With an emphasis on western civilization, students will explore the emergence of the modern world, beginning with the Renaissance era and concluding with the Cold War. Students will be expected to engage in the historical thinking process, analyze primary source documents, evaluate the consequences of past decisions and communicate ideas and arguments related to historical concepts.</td>
</tr>
<tr>
<td>AP World History: Modern</td>
<td>Grades 10-12</td>
<td>SSP400</td>
<td>1</td>
<td>AP World History is designed to be the equivalent of a two-semester introductory college or university world history course. In AP World History students investigate significant events, individuals, developments, and processes in six historical periods from 1200 CE to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures.</td>
</tr>
<tr>
<td>AP European History</td>
<td>Grade 10</td>
<td>SSP102</td>
<td>1</td>
<td>This rigorous course is intended to prepare students for the AP European History exam. The study of European History since 1450 introduces students to cultural, economic, political, and social development that played a fundamental role in shaping the world in which we live.</td>
</tr>
<tr>
<td>Political Participation</td>
<td>Grade 12</td>
<td>SSG401</td>
<td>.5</td>
<td>This senior level course will be divided into two main units of study. The first unit will focus on understanding “political science.” Students will explore how political beliefs are formed. They will learn how each unique personal experience shapes values and how these values shape beliefs. Students will evaluate the different values of liberals, conservatives, libertarians, and moderates and how these values will shape each belief on specific topics. The second unit of study will be political application. Students will be completing hands on projects where they evaluate how political science has been applied and can be identified in almost all aspects of life (Music, Film, Literature, TV, News, etc.).</td>
</tr>
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</table>
US History
Grade 11
SSG300
Credit: 1
This course provides a chronological narrative of U.S. History beginning in the late 19th century through the 20th century while exploring major themes that have shaped our modern nation during that period. Students also will develop reading comprehension, critical thinking, and composition skills through student centered activities.

Constitutional Law
Grade 12
SSG402
Credit: .5
This course will examine the origins of individual rights guaranteed in the U.S. Constitution and how those rights have changed over time through rulings of the Supreme Court. This course will also serve as an introduction to the study of law as students will learn how to apply legal reasoning to analyze individual cases and evaluate the Court’s decisions. Topics of study will include freedom of speech, freedom of religion, the right to bear arms, search and seizure, individual rights in a criminal trial, privacy rights, and due process.

AP US History
Grade 11
SSP350
Credit: 1
This rigorous course is intended to prepare students for the AP US History exam. In this class students will gain a vast knowledge of U.S. History ranging from precolonial America to the 21st century, emphasizing important social, political, economic and cultural forces that have shaped our nation. Students will learn to assess historical materials and weigh the evidence and interpretations presented in historical scholarship to compose analytical essays.

Current Social Issues
MVHS Only
Grades 10-12
SSG800
Credit: .5
In this elective course, students will analyze issues currently confronting our nation and the world, evaluate multiple action plans to address each issue, and ultimately argue and defend their own positions on each issue. Through structured cooperative learning activities and independent research, students will analyze information from multiple sources and perspectives in print and electronic media. Throughout the course activities, students will develop critical thinking as well as written and oral communication skills.

AP US Government & Politics
Grade 12
SSP450
Credit: .5
This rigorous course is intended to prepare students for the AP Government exam. In this college level course students will analyze and evaluate the various components of the United States political system, including the public policy making process. Topics of study include American political culture, constitutional principles, historical origins of the U.S., inter-government relations, political parties, public opinion, interest groups, the role of media in politics, and federal bureaucracy.

Psychology
Grades 10-12
SSG601
Credit: .5
An introductory survey course based on exploring and analyzing human behavior and cognition. Topics of study include psychological perspectives, research methods, biological bases of behavior, principles of learning, human development, personality theories, and social psychology.

AP Psychology
Grades 11-12
SSP600
Credit: 1
This rigorous course is intended to prepare students for the AP Psychology exam. This college level course introduces students to the systematic and scientific study of the behavior and cognition of human beings, exposes students to each major subfield within psychology, and enables students to examine the methods psychologists use in their science and practice.

Archeology Research & Restoration
Grades 11-12
SSH903
Credit: .5
Prerequisite: Archeology & Artifacts
This course is designed for students who have successfully completed Archeology & Artifacts course. It is intended to meet the needs of students who wish to do more historical research and work with in-depth Museum and Archeology Projects.

Sociology of Community Service
MVHS Only
Grade 12
SSG700 (fall)  SSG701 (spring)
Credit: .5
Prerequisite: Application
Using a sociological perspective, students will examine various social issues such as gender roles, aging, race and ethnic relations, family and marriage and institutional reforms. Students will focus on how these issues affect society today and their impact for the future. Students will apply this knowledge through various community service activities throughout the area while studying these issues.
# Physical Education/Health

<table>
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<tr>
<th>Course Title</th>
<th>Credit</th>
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<td>Audition</td>
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*Students may enroll in a maximum of two P.E. courses per semester*

**Boys/Girls Physical Education**

**Grade 9**

PEG101/102 Fee for CPR  
Credit: 1  
This activity class is directed toward core skills and strategies in team and dual sports, with an emphasis on proficiency in personal fitness. Examples of areas covered are flag football, volleyball, soccer, basketball, softball, badminton, tennis, weight training, jogging, fitness evaluation, and CPR certification. During physical education classes, all freshman students participate in an online alcohol prevention program, AlcoholEdu® for High School. Developed by prevention experts at EverFi, this interactive course delivers a science-based, interactive prevention experience about alcohol and focuses on healthy decision-making strategies for youth. This course is required for graduation and is the prerequisite for all of the electives in PE.

**Health**

**Grade 1**

PEG500  
Credit: .5  
This class will cover concepts related to health promotion and disease prevention so that students are able to make appropriate life style choices. Health units covered are: nutrition; prevention and control of disease; injury prevention and safety; personal health; mental and emotional health; substance use, misuse, abuse, and addiction; environmental health; family life and sexuality; consumer health; and community health.

**Team Sports**

**Grades 10-12**

PEG200-both fall or spring  
Prerequisite: Boys/Girls Physical Education  
This is a more competitive class designed to increase a student’s physical fitness level and athletic skill through the following activities: flag football, soccer, softball, volleyball, team handball, basketball and other indoor and outdoor team sports. The class will consist of daily conditioning and team activities.

**Advanced Strength & Conditioning**

**Grades 10-12**

PEG312 (fall) PEG 313 (spring)  
Prerequisite: Strength & Conditioning  
This course is extremely high in intensity and is designed to meet the needs of highly motivated students. Areas of physical fitness that will be stressed include: Muscular Strength, Core Strength, Flexibility, Endurance, Cardiovascular Endurance, and Body Composition. Instruction will focus on strength, flexibility and aerobic conditioning. This course will include stretching, lifting, sprinting, jogging, plyometric, anaerobic conditioning and aerobic conditioning.

**Cardio Fitness**

**Grades 10-12**

PEG400 (fall) and PEG401 (spring)  
Prerequisite: Boys/Girls Physical Education  
This class provides opportunities for students to attain a healthy level of physical fitness. The class will stress health related fitness components and utilize equipment to benefit cardiovascular, strength, and flexibility. Supplemental activities may include cycling, yoga, Pilates, and dumb bell workouts.
### Lifetime Sports

**Grades 10-12**

**PEG301**—both fall or spring  
Fee: $20  
Credit: .5  
Prerequisite: Boys/Girls Physical Education  
This less-competitive class is designed to provide an opportunity for students to participate in a variety of activities that will enable them to lead active and healthy lives. Activities include: Jogging, disc golf, golf, archery, badminton, pickle ball, aerobics, bowling, social dance, softball, volleyball, tennis, and other indoor and outdoor games.

### Dance

**Grades 9-12**

**PEG202**  
Prerequisite: Audition  
Dance team is designed to teach and develop several types of dance techniques, music interpretation and choreography skills. Performances during the fall season include pep assemblies, home football games and local competitions. Winter and spring seasons include pep assemblies, home basketball games, dance competitions, and other special events. A spring show is scheduled as a finale for the year. Additional practices may be scheduled, as needed. One audition for the dance team is held in the spring for the following year. This course will also provide an opportunity to compete in regional and national competitions.

### Art

<table>
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<th>Course Title</th>
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**Art I**

**Grades 9-12**

**ARG101**  
Fee: $20 Per Semester  
Credit: .5  
This introductory art course covers: Art Production, Aesthetics, Art Criticism, & Art History. An emphasis will be placed on learning and applying the Elements & Principles of art in order to create a vocabulary that allows for the creation of, connections with, and an understanding of the arts.

**Ceramics**

**Grades 9-12**

**ARG301**  
Fee: $20 Per Semester  
Credit: .5  
Prerequisite: Art I  
This course covers the production and history of both functional and non-functional ceramic ware. Students will learn hand-building methods, including pinch, slab, coil, and extruded forms. The elements of art and principles of design are stressed as they apply to form and surface decoration.
Prerequisite: Art I
This course serves to enhance the student's creative experience in art production, aesthetics, art criticism, and art history. An emphasis will be placed on learning and applying the elements and principles of art in order to create a vocabulary that allows for the recreation of, connections with, and an understanding of the arts.

**Survey of Fine Crafts**
ARG500  Fee: $20 Per Semester  Credit: .5
MVHS Only  Grades 9-12
Students will explore and develop skills required for producing artisan crafts. Students will develop problem solving skills as they communicate with the world around them through various media including: jewelry making, batik, basketry, enameling, glass fusing, fiber techniques, wood carving, wood burning, mosaics, and duct tape.

**Drawing**
ARG400  Fee: $20 Per Semester  Credit: .5
Grade 9-12
Prerequisite: Art I
Students will be introduced to "Drawing on the Right Side of the Brain" by Betty Edwards which will strengthen their drawing ability. Students will view and discuss the works of the great masters from art history as well as explore a variety of media, styles, and subjects as they create several original drawings.

**Painting**
ARG200  Fee: $20 Per Semester  Credit: .5
Grade 9-12
Prerequisite: Drawing
This course introduces the novice and advanced painter alike to the essential concepts and techniques of painting. There will be an emphasis on perceptual work including still life, nature elements, and self-portrait. We will explore the ability to create space through expressive, symbolic and descriptive techniques. Topics covered include color mixing, paint application, and styles of painting.

**Advanced Painting**
ARG210  Fee: $20 Per Semester  Credit: .5
Grade 9-12
Prerequisite: Painting
Advanced Painting is an advanced course that provides students with a sequence of conceptual painting problems based upon past and contemporary artistic practices. Through studio projects that engage broad topics in painting, students will begin to define their own personal interests and develop their own style and voice. This course leads students to develop a greater level of conceptual knowledge and technical skill, which prepares them for the self-generated problems in AP Art. Studio projects will be augmented by critical readings, art slides and visits to contemporary art exhibitions.

**Graphic Design**
CTG522  Fee: $40 Per Year  Credit: 1
Grade 9-12
MVHS Only
Graphic Design emphasizes design elements and principles in the purposeful arrangement of images to communicate a message. The focus is on creating art products such as advertisements, product design and identity symbols.

**Sculpture**
ARG300  Fee: $20 Per Semester  Credit: .5
Grade 9-12
Prerequisite: Art I
This course provides a three dimensional approach to problem-solving through a variety of media and materials, such as paper, plywood, clay, plaster, wood, wire, metal, and stone. Techniques learned include modeling, carving, assemblage, and casting. The history of sculpture is covered as well.

**Advanced Sculpture**
ARG303  Fee: $20 Per Semester  Credit: .5
Grade 10-12
Prerequisite: Sculpture
This course is a continuation of Sculpture I. More complex technical processes are emphasized. Assignments stress independent aesthetic problem-solving and allow opportunities for unlimited personal and creative decision making.

**Advanced Drawing**
ARG410  Fee: $20 Per Semester  Credit: .5
Grade 10-12
Prerequisite: Drawing
Students will continue to strengthen their drawing skills with strong emphasis on observational drawing, figure drawing, and drawing from the imagination. Conceptual and compositional skills will be stressed as students explore and master a variety of media. Students will develop their own final unit of study for this advanced class.

**Advanced Ceramics**
ARG302  Fee: $20 Per Semester  Credit: .5
Grade 10-12
Prerequisite: Ceramics
This course is a continuation of clay methods in Ceramics I and will introduce students to the potter’s wheel. Emphasis is placed on research and experimentation in clay and glazes. Assignments provide opportunity for unlimited personal and creative decision making and will allow students to excel in the medium.

**AP Studio Art**
ARP150  Fee: $40 Per Year  Credit: 1
Grade 12
Prerequisite: Drawing and Painting-MVHS or Art II-DHS
This rigorous course is intended to prepare students for the AP Studio Art exam. The AP Studio Art is designed for students who are seriously interested in the practical experience of art. Students will develop an art portfolio. The AP Studio Art exam is not based on a written exam; instead, students submit either a 2-D, 3-D, or drawing portfolio at the end of the school year.

**Graphic Design Fundamentals**
CTG525  Fee: $20 Per Semester  Credit: .5
Grade 9-11
MVHS Only
Graphic Design Fundamentals is an introduction to design elements and principles in the purposeful arrangement of images and to communicate a message. The focus is on learning typography, composition and visualization in order to create art products such as posters, flyers and other print media.

**Graphic Design Workplace Experience**
CTG526  Fee: $40 Per Year  Credit: 1
Grade 11-12
Prerequisite: Graphic Design
Graphic Design Workplace Experience will take the tools and software that you used in Graphic Design and apply them to "real world" applications. We will meet with clients and gain an understanding of problem solving for real projects considering production processes and clients' needs. We will develop a digital portfolio of projects to prepare you for submissions to college and to prepare you for job interviews.
<table>
<thead>
<tr>
<th>Performing Arts: Communications</th>
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<tbody>
<tr>
<td>Course Title</td>
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<tr>
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</tr>
<tr>
<td>Communications</td>
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<td>Argumentation &amp; Debate Fundamentals</td>
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<tr>
<td>Stagecraft</td>
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<tr>
<td>Repertory Theatre</td>
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</table>

**Communications**
Grades 9-12
SDG100
Credit: .5
This course emphasizes communication skills. The course will cover interpersonal and intrapersonal skills and public speaking techniques. Each student will prepare and present speeches.

**Argumentation & Debate Fundamentals**
DHS Only
Grades 9-12
SDG201
Credit: .5
Prerequisite: Debate
Argumentation and Debate Fundamentals is a semester-long course offered both fall and spring semesters at DHS. The purpose of this course is to teach students fundamentals of argumentation and debate, introduce various types of debate, promote research, critical thinking, and case writing skills, and provide students opportunities to practice and implement skills through inter-squad scrimmage opportunities. No weekend travel or competition is required for this course outside of class; however, students will be required to assist with judge recruitment and work when we host our home competitive debate (fall) or forensics (spring) tournament taking place that semester. Students who successfully complete this class, conclude they enjoy debate and would like to be part of the competitive squad in the future could use this class as a prerequisite to Debate I (policy debate) or Forensics (Public Forum or Lincoln-Douglas) during future semesters.

**Debate**
Grades 9-12
SDG200
Credit: .5
Debate is a first-semester co-curricular competitive speech course that develops advanced communication and critical thinking skills. Students taking debate must have strong reading abilities, the ability to speak quickly, and be comfortable accessing and utilizing shared digital files via a laptop computer. In this course, students will conduct extensive research and prepare arguments for and against a pre-determined resolution. Debate is a co-curricular class and all students enrolled in this course are considered members of their High School’s Competitive Debate Team. Students in debate must participate in at least three public speaking competitions during the semester. These competitions take place at neighboring schools on Fridays and Saturdays outside of class time. Students must meet KSHSAA eligibility requirements for interscholastic competition and represent themselves and the squad in a respectful manner at all times.

**Advanced Debate**
Grades 10-12
SDG201
Credit: .5
Prerequisite: Debate
Advanced Debate is a first-semester co-curricular speech course that continues the study of argumentation, persuasion, critical thinking and performance of debate started in the prerequisite Debate class. Students enrolled in this co-curricular class are considered members of their High School’s Competitive Debate Team and will spend time both in and outside of class conducting research, preparing for and competing in at least four competitions at neighboring schools on Fridays and Saturdays outside of class time. Students enrolled in this course must meet KSHSAA eligibility requirements for interscholastic competition and represent themselves and the squad in a respectful manner at all times.
Forensics

Grades 9-12

SDG300
Credit: .5
Forensics is a performance-based class that meets during second semester. Students enrolled in this co-curricular class are considered members of the Forensics Team and will be preparing both in and outside of class to speak, present, and/or perform in a tournament competition. This course covers the fundamentals of forensics which include oral interpretation, humorous interpretation, informative speaking, original oratory, extemporaneous speaking, Lincoln Douglas and Public Forum debate and duet acting. Students will select and perform play cuttings and performance material for at least three Forensics tournaments which are usually scheduled on Saturdays. Students must meet KSHSAA eligibility requirements for interscholastic competition and represent themselves and the squad in a respectful manner at all times.

Advanced Forensics

Grades 10-12

SDG301
Credit: .5
Prerequisite: Forensics
Advanced Forensics is a second-semester course that will take the study of Forensics to more advanced levels. This is a co-curricular class designed for those students who have already completed the Forensics prerequisite. Students in this class will contribute competitively in multiple events as well as help create performance files for the squad. Students may choose from events including oral interpretation, humorous interpretation, informative speaking, original oratory, extemporaneous speaking, Lincoln Douglas and Public Forum debate and duet acting. As members of the Forensics Team, students will select and perform play cuttings and performance material for at least four Forensics tournaments which are usually scheduled on Saturdays. Students must meet KSHSAA eligibility requirements for interscholastic competition and represent themselves and the squad in a respectful manner at all times.

Drama

Grades 9-12

SDG400
Credit: .5
This course covers basic acting and improvisation skills as well as theatre appreciation. Students are expected to learn basic stage terminology, stage concepts, and fundamental skills used in acting.

Advanced Drama

Grades 9-12

SDG401
Credit: .5
Prerequisite: Drama
Advanced drama is for those students who have mastered the basics of presentation and character development and who are ready to apply those skills to more demanding material and more polished performances. Advanced drama will also build on the basic techniques used in acting and increase the skill set to include the technical theatre skills necessary for the production of a play. Students who successfully pass this class will learn various monologue styles and apply techniques that will be useful as they prepare for future auditions. As part of this preparation students will also be introduced to theatre history and the various styles of theatre performance that have been prevalent in different periods. The final project of this class will be the staging of a play with all of the technical aspects performed and designed by the students.

Stagecraft

Grades 10-12

SDG403
Credit: .5
Stagecraft allows students to develop skills in designing and constructing theatrical related scenery. This course will help to develop student skills and understanding of planning and building structures used in theatre sets.

Repertory Theatre

Grades 10-12

SDG404
Credit: 1
Prerequisite: Audition
This class is by audition only for students in grades 10-12. This is a performance-centered course of study, which will enhance the theater arts education of the total theater student. Students will advance their knowledge of acting techniques, directing skills, scene study, analysis of dramatic literature and criticism, design, playwriting and evaluating theater performances. This will be accomplished through the production of full and one-act plays, which will be both teacher and student produced, designed and directed. In addition, students would pursue independent, required projects. There will be at least one evening performance required each semester.
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*Band is a year-long commitment. Enrollment in a first and second semester course is expected.*

**Choir Foundations**

MUG200
Credit: 1
This choir is a beginner ensemble for any student with no prior singing experience at the high school level. The primary focus of this choir will be developing music literacy skills, rehearsal skills and continuing to help the voice develop. In addition to 4 required evening performances, this group will perform at one of our KSHSAA choral festivals.

**Wildcat Chorale**

DHS Only
MUG205
Credit: 1
This choir is an intermediate, unauditioned ensemble for SATB (Soprano, Alto, Tenor and Bass) voice parts who have prior high school singing experience. Primary focus will be on building on musicianship skills while developing the voice. In addition to 4 required evening performances, this ensemble will perform with De Soto Voice at KSHSAA Large Group Festival.

**Jag Chorale**

MVHS Only
MUG202
Credit: 1
Prerequisite: Audition
This choir is an advanced, auditioned ensemble for SATB (Soprano, Alto, Tenor and Bass) voice parts who have prior high school singing experience. All Jag Singer members must be enrolled in Jag Chorale. Primary focus will be on building on musicianship skills while developing the voice. In addition to 4 required evening performances, this ensemble will perform at KSHSAA Large Group Festival.

**Symphonic Band**

Grades 9-12
MUG109
Credit: .5
Prerequisite: Audition
The Symphonic Band is part of the marching band during the beginning of the year. Following marching season, the symphonic band is formed to include any high school students who is a member of the high school’s band program. Advanced concert band literature is performed during the remaining part of the school year. Members of the symphonic band are eligible for participation in solo and ensembles, pep band and jazz band. Offered only in the spring semester.
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<th>Course Name</th>
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<th>Fee</th>
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<td>Prerequisite: Audition</td>
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<td>Chamber Choir</td>
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<td>Prerequisite: Audition</td>
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<td>Freshman Band</td>
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<td>$20</td>
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<tr>
<td>Concert Band</td>
<td>Grades 9-12</td>
<td>.5</td>
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<td>Prerequisite: Audition</td>
</tr>
<tr>
<td>Jazz Band</td>
<td>Grades 9-12</td>
<td>1</td>
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<td>Prerequisite: Concurrent enrollment in band</td>
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<tr>
<td>Percussion Ensemble</td>
<td>Grades 9-12</td>
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<tr>
<td>History of Rock &amp; Roll</td>
<td>Grades 9-12</td>
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<td>Multi-Media Music</td>
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<td>Music Theory</td>
<td>Grades 10-12</td>
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</table>

**Treble Choir**

This choir is an intermediate, unauditioned ensemble for treble voices (Soprano and Alto only) who have prior high school singing experience. Primary focus will be on building on musicianship skills while developing the voice. In addition to 4 required evening performances, this group will perform at one of our KSHSAA choral festivals.

**Chamber Choir**

This choir is an advanced, auditioned ensemble of SATB (Soprano, Alto, Tenor and Bass) voices. This choir will perform various genres of music, including jazz, madrigals, multicultural and other styles as needed. Members will perform outside of class time in area concerts, KSHSAA Regional and State contests, Kansas Music Educations Association (KMEA) district auditions and will serve as ambassadors of the choir department for school sporting events and area functions.

**Wildcat Marching Band**

Marching Band is intended to develop students' technique for playing brass, woodwind, and percussion instruments and cover appropriate band literature styles, primarily for marching performances. Offered only in the fall semester.

**Freshman Band**

Freshman Band is an ensemble for freshmen at De Soto High School. In the fall, students will receive an introduction into marching techniques while performing in pregame and in the stands at football games. At the end of the fall semester and throughout the spring semester, students will prepare intermediate-level literature while emphasizing the development of music fundamentals and ensemble skills. Freshman Band is available to freshmen who have completed 8th grade band or have received prior instructor approval to enroll.

**Silver Band**

This performance group is intended for primarily 9th grade students with prior band experience. Students will participate in limited marching band in the fall and perform concert band literature the remainder of the school year. Members of Silver Band are eligible for participation in solo and ensembles, pep band, and jazz band. Offered only in the fall semester.

**Blue Band**

This band is primarily open to students in 10th-12th grade that play a wind or percussion instrument. Ninth grade students may audition for placement in this ensemble. The first part of the semester is focused on marching band related activities. Following marching season, this band works on advanced concert band literature. Offered only in the fall semester.

**Concert Band**

The Concert Band is comprised of any high school band student who has had prior band experience. Students participate in marching band experience in the fall semester and perform concert band literature the remainder of the school year. Members of this band are eligible for participation in solo and ensembles, pep band and jazz band. Offered only in the spring semester.

**Jazz Band**

This performance group is intended for primarily 9th grade students with prior band experience. Students will participate in limited marching band related activities. Following marching season, this band works on advanced concert band literature. Offered only in the spring semester.

**Percussion Ensemble**

In this class students will explore the world of percussion. Students will receive both individual and group instruction on all percussion instruments. The percussion ensemble will perform with the high school band on several concerts throughout the semester. This course is co-curricular, meaning that in addition to the regular classroom activities, students will be required to perform outside of the school day. Students need not have any prior experience playing a percussion instrument to enroll in this course.

**History of Rock & Roll**

A survey of the history of Rock and Roll in 20th century America, including social issues, composers, performers and listening.

**Multi-Media Music**

In this course students will learn to experience music through the use of multi-media technology. This hands on course will include units on the elements of music: performing music, creating music, development of music, critical listening, audio recording and reinforcement, music in our world, and music in our daily lives. No previous musical experience is required, only a desire to learn more about music.

**Music Theory**

The intent of this course is to teach students the basic knowledge of the fundamentals of music theory. Students will be expected to learn notation; rhythm and meter, scales; intervals and keys, chords; form, and composition. Activities include developing aural skills, music analysis, historical practices, rhythmic and melodic dictation, and sight singing. Experience singing or playing and instrument is necessary for successful completion of this course.
**Music Appreciation**  
**MVHS Only**  
**Grades 10-12**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
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<tbody>
<tr>
<td>MUG300</td>
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</table>

This course is for students who are interested in the study of music history and how music reflects society. Students will learn to apply the fundamentals of music to the following musical eras: Renaissance, Baroque, Classical, Romantic, Music of Stage and Screen, Jazz, Pop, and Rock.

**Prerequisite:** Instructor Permission

**Applied Instrumental Music**  
**Grades 9-12**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUG302/MUG302</td>
<td>.5</td>
</tr>
</tbody>
</table>

The intent of this course is to allow students to prepare music that is specific for their instruments. Students will explore solos, etudes and technical exercises written specifically for their instrument. Students will be expected to perform a solo or in an ensemble at the KSHSAA sponsored Regional solo and Ensemble competition. This class will also serve the student wishing to learn how to play a new instrument. The instrument must be acquired by the student.

**Music Composition**  
**Grades 10-12**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUG320</td>
<td>.5</td>
</tr>
</tbody>
</table>

Prerequisite: Music Theory or AP Music Theory

This class is designed to give students an opportunity to create original music compositions. Students will study numerous compositional techniques from the common practice period and 20th century music. Using these techniques they will be guided through specifics assignments allowing for individual growth in each area.

**AP Music Theory**  
**Grades 11-12**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUP350</td>
<td>1</td>
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</tbody>
</table>

Prerequisite: Recommend Music Theory

This rigorous course is intended to prepare students for the AP Music Theory exam. AP Music Theory is designed for the advanced music student seeking mastery of music outside the normal performance medium. This full year course is equivalent to a college level music theory class. The course is designed to develop a student’s ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. Students will develop oral, sight singing, written, compositional and analytical skills in this course.
### Optional Courses

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT Test and College Preparation</td>
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<td></td>
<td>X</td>
<td>X</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Work Experience</td>
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<tr>
<td>Peers in Learning</td>
<td>.5 or 1.0</td>
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<td>X</td>
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<tr>
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<td>X</td>
<td></td>
<td></td>
<td>Application</td>
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</table>

**ACT Test and College Preparation**

Grades 10-11

MSG915  Fee: $20 Per Semester  Credit: .5

The ACT Test and College Prep course is an elective designed to help students, bound for a 4-year college, understand the ACT testing process, utilize testing strategies, and improve study skills necessary for success in college. The goal is to increase student levels of preparedness for being successful on the ACT test and provide an opportunity for students to utilize study skills needed for college coursework. Curriculum will be reviewed in Math, Science, English, and Reading, specific to the content covered on the test. Practice ACT tests will be required with some tests administered outside of class so that the ACT mandated testing conditions can be simulated. Students are encouraged to complete this course the semester prior to taking the actual ACT test.

**Teacher’s Aide**

Grade 12

MSG200  Credit: .25

Prerequisite: Application

Seniors wishing to be a Teacher’s Aide must complete an application and submit it to the Counseling Department. In order to be eligible, students must have and maintain a 3.0 GPA, be on target for graduation, have good attendance (fewer than 10 absences by the deadline date), and be in good standing with the school. Selected students will be assigned to a department.

**Work Experience**

MVHS Only  Grade 12

MSG900  Credit: .25

Second semester only. Job verification required.

This course gives seniors a chance to understand the different possibilities of employment in the work force, and also to provide them with skills necessary for future job success. Job verification is required for enrollment.

**Peers in Learning**

Grades 11-12

MSG920/MSG919  Credit: .5 or 1

Prerequisite: Application

Students in this course will work with same age students with disabilities in a classroom setting. This will benefit students who are seeking a career in the education and/or health fields.
### World Languages

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit</th>
<th>Weight</th>
<th>KS Regents</th>
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<th>NCAA</th>
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<th>College Credit</th>
<th>NCAA</th>
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<td>X</td>
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<td>Spanish III</td>
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<td>X</td>
<td>X</td>
<td>X</td>
<td>Spanish IV</td>
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</table>

### Course Descriptions

#### French I

**WLG101** Grades 9-12

This course covers the basics in conversational French vocabulary, grammar, geography, and understanding of other cultures. Students will study verbs in the present and near future tenses, elementary grammar concepts, and idiomatic constructions. There will be an emphasis on all four skills of learning a foreign language: listening, speaking, reading, and writing, as well as a cultural awareness.

#### French II

**WLG102** Grades 10-12

Prerequisite: French I

This course reviews basic grammar and vocabulary from French I and continues to an intermediate level of study of grammar, geography, and cultural awareness. Conversational skills will still be at a novice level. Students will study verbs in the present, past, and future tenses and idiomatic constructions. All four skills of learning a foreign language; listening, speaking, reading, and writing will be stressed.

#### French III

**WLG103** Grades 11-12

Prerequisite: French II

This course reviews the basics in conversational French, vocabulary, and grammar. Students will study verbs in the present, past, future, and various compound tenses, as well as more advanced grammar and idiomatic constructions. French history, geography, and culture are studied in the target language. All four skills of listening, speaking, reading, and writing are emphasized. Students should be able to communicate at an intermediate level.

#### French IV

**WLG104** Grades 12

Prerequisite: French III

This course reviews the basics in conversational French, vocabulary, and grammar. Students will study verbs in the present, past, future, and various compound tenses, as well as more advanced grammar and idiomatic constructions. French history, geography, and culture are studied in the target language. All four skills of listening, speaking, reading, and writing are emphasized. Students should be able to communicate at an intermediate level.

#### Spanish I

**WLG201** Grades 9-12

This course covers the basics in conversational Spanish vocabulary, grammar, geography, and understanding of other cultures. Students will study verbs in the present and near future tenses, elementary grammar concepts, and idiomatic constructions. There will be an emphasis on all four skills of learning a foreign language: listening, speaking, reading and writing, as well as a cultural awareness.

#### Spanish II

**WLG202** Grades 9-12

Prerequisite: Spanish I

This class reviews the basic vocabulary and grammar from Spanish I. The four language skills and cultural awareness will continue to be emphasized to an advanced novice level. Students will study verbs in the present, past and near future tenses. More advanced grammar and idiomatic constructions will be introduced as well as a greater volume of vocabulary.
<table>
<thead>
<tr>
<th>Course</th>
<th>Grade Levels</th>
<th>Credit</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanish III</td>
<td>Grades 10-12</td>
<td></td>
<td>Spanish II</td>
<td>This class begins where Spanish II ends. A variety of activities incorporate several new verb tenses with new units of vocabulary. In addition, short readings enhance reading comprehension as well as cultural awareness. Students should exhibit an acceptable degree of proficiency at the beginning intermediate level in the four basic skills of listening, speaking, reading, and writing in the target language.</td>
</tr>
<tr>
<td>Spanish IV</td>
<td>Grades 11-12</td>
<td></td>
<td>Spanish III</td>
<td>Students will interact at the high intermediate level in the skills of listening, reading, writing and at the low to middle intermediate level in speaking. A review of all verb tenses will be included in addition to reading short stories and poetry. Students will also continue active participation in the language while continuing to learn about the target culture.</td>
</tr>
<tr>
<td>AP Spanish Language &amp; Culture</td>
<td>DHS Only</td>
<td></td>
<td>Spanish IV</td>
<td>Promotes students' proficiency in the interpersonal, interpretive, and presentational modes of communication in Spanish. This course is designed to provide students with various opportunities to further improve proficiency in listening, speaking, reading, and writing skills to be ready for the AP Spanish Language and Culture Examination. This course provides another avenue to earn college credit by completing the equivalent of Spanish V coursework and demonstrating proficiency on the AP exam.</td>
</tr>
</tbody>
</table>
### USD 232 Offers 11 Pathways:

- Biochemistry
- Business Finance
- Construction & Design
- Digital Media
- Engineering & Applied Mathematics
- Family, Community & Consumer Services
- Graphic Design
- Marketing
- Programming & Software Development (DHS only)
- Teaching/Training
- Web & Digital Communications (DHS only)

### Eudora-De Soto Technical Education Center Offers Four Additional Pathways:

- Comprehensive Agriculture Science
- Health Science
- Mobile Equipment Maintenance
- Restaurant & Event Management

### Washburn Tech Offerings:

- Basic Electricity
- Energy Loads and Calculations
- Health Occupations
- Advanced Systems Technology
- Information Systems Technology
- Graphics Technology
# Biochemistry

<table>
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<tr>
<th>Course Title</th>
<th>Credit</th>
<th>Weight</th>
<th>College Credit</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Prerequisite</th>
<th>Intro Level</th>
<th>Technical Level</th>
<th>Application Level</th>
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<tbody>
<tr>
<td>Chemistry</td>
<td>1</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Marine Science (MVHS)</td>
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<td>Biology</td>
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<tr>
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<td>Computer Graphics and Application</td>
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<tr>
<td>Environmental Resources and Wildlife Science</td>
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<td></td>
<td></td>
<td></td>
<td>Chemistry</td>
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</tr>
</tbody>
</table>

**Chemistry**  
Grades 10-12  
SCG300  
Fee $10 Per Year  
Credit: 1  
Prerequisite: Biology and concurrent enrollment in Int. Math II  
(Not recommended for students taking Integrated Math II Support)  
The class is designed to provide students with a solid foundation in chemical knowledge and principles needed for success in college chemistry. Topics covered include atomic structure, periodic properties of elements, chemical bonding, molecular structure, chemical equations, stoichiometry, gas laws, and acid/base chemistry.

**Human Anatomy/Physiology**  
Grades 11-12  
SCG500  
Fee $10 Per Year  
Credit: 1  
Prerequisite: Biology and Chemistry  
This course involves a study into the structure and function of the human body. Eleven body systems will be investigated through a problem based learning approach. Major emphasis will be placed on learning how these systems work.

**Emerging Technologies**  
DHS Only  
Grades 10-12  
CTG524  
Fee $40 Per Year  
Credit: 1  
Prerequisite: Computer Graphics and Application  
Students will be exposed to the emerging technology of 3D rendering software and printing. The course will be project-based and students will create objects and artworks using unfired clay and metals. The course will expose students to topics in the fields of engineering, metalsmithing, and art.

**Marine Science**  
MVHS ONLY  
Grades 10-12  
SCG202  
Fee $10 Per Year  
Credit: 1  
Prerequisite: Biology  
This course is designed to enlighten students as to the potential they may hold for a career in Marine Biology. Emphasis will be placed upon the physical aspects of the oceans, as well as the living. The marine inhabitants will be studied at great length.

**AP Environmental Science**  
Grade 11-12  
SCP600  
Fee $10 Per Year  
Credit: 1  
Prerequisite: Biology  
Equivalent to a one semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry and geography.

**Environmental Resources & Wildlife Science**  
Grades 11-12  
SCG  
Fee $10 Per Year  
Credit: 1  
Prerequisite: Chemistry  
This is an advanced level course that builds on Environmental Science and other life science classes. It is an application level course that is part of the Kansas CTE Biochemistry pathway. This course will provide strong emphasis on field and classroom research, laboratory investigations, and real-life application in the field of environmental science through partnerships with outside businesses. Students will gain a solid foundation for pursuit of a potential career in a field related to environmental science. Potential topics include: sustainability, conservation, ecology, soils, water resources, fisheries, plants, forestry, wildlife, air quality, waste, energy, and environmental careers.
Business Essentials

CTG210
Credit: .5
This course is a core course designed to peak student interest in the fields of Business Management, Marketing, and Finance. Units covered include Management, Finance, Economics/Marketing, Accounting and Corporate Ethics. Upon completion of this course students will have the background knowledge necessary to succeed in a Management, Finance or Marketing Pathway specific course.

Accounting

CTG221
Credit: 1
Prerequisite: Business Essentials
This course will provide the introduction of fundamental accounting principles and procedures used in business. Students will understand the principles of debits and credits, journalizing transactions, posting to ledgers, and determining profit or loss. Students will also learn to create formal financial statements to be used for the reporting of net income or net loss.

Consumer & Personal Finance

CTG422
Credit: .5
This course provides students with an understanding of the concepts and principles involved in managing one’s personal finances. Topics include savings and investing, credit, insurance, taxes and social security, spending patterns, budget planning, contracts and consumer protection.

Business Law

CTG211
Credit: .5
Prerequisite: Business Essentials
This course identifies and promotes the skills needed in law and law-associated professions. Topics include the origins, ethics, structures and institutions of law. Several types of law will be explored, including criminal, civil, consumer, contract, property, agency, employment, family and environmental law. Students will learn about landmark US Supreme Court cases that have set the precedent for future court cases.

Investing

CTG231
Credit: .5
Prerequisite: Business Essentials
Investing emphasizes the formulation of business and individual investment decisions by comparing and contrasting the investment qualities of cash, stock, bonds, and mutual funds. Students will review annual reports, predict growth rates, and analyze trends, money market accounts, loans, investments, and negotiable instruments.

Advanced Accounting

CTG233
Credit: 1
Prerequisite: Accounting
This course will build upon accounting concepts previously learned during the first-year course while expanding on new topics such as accounting for a merchandising business organized as a corporation and additional accounting procedures. Strong emphasis is placed on using technology with accounting concepts.
## Construction & Design

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credit</th>
<th>Weight</th>
<th>College Credit</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Prerequisite</th>
<th>Intro Level</th>
<th>Technical Level</th>
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<tbody>
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### Residential Carpentry I, Grades 9-12
CTG110
- Fee: $65 Per Year
- Credit: 1
- This hands-on course instructs students in the knowledge and skills to repair common household problems and plan and complete home improvement projects. Students will have the opportunity to earn OSHA certification which is included in the fee.

### Woodworking, Grades 10-12
CTG112
- MVHS Only
- Fee: $40 Per Year
- Credit: 1
- Prerequisite: Residential Carpentry I
- Woodworking courses introduce students to the various kinds of woods used in industry and offer experience in using selected woodworking tools. Students construct multiple projects and prepare a bill of materials. Correct and safe use of tools and equipment is emphasized. As students advance, they focus on learning the terminology necessary to use power tools successfully, developing skills to safely use these tools in the workshop and becoming familiar with various kinds of wood-finishing materials.

### Residential Carpentry II, Grades 10-12
CTG111
- Fee: $65 Per Year
- Credit: 1
- Prerequisite: Residential Carpentry I
- This hands-on course will instruct students in knowledge and skills in rough construction and finish work. Students will work in teams to complete a finished construction product. Students will have the opportunity to earn OSHA certification which is included in the fee.

### Drafting/CAD, Grades 9-12
CTG101
- Fee: $20 Per Year
- Credit: 1
- This course is designed to build basic mechanical and computer drafting skills. Students will learn basic conventions of drafting including sketching, plate layout, measuring, scaling, orthographic drawings, dimensioning, isometric drawings, 3-D modeling, and sectional drawings.

### Architectural Design, Grades 10-12
CTG123
- Fee: $20 Per Year
- Credit: 1
- Prerequisite: Drafting/CAD
- This course focuses on the elements of architecture including historical styles of architecture, calculating/estimating building costs, producing building plans, drawing elevations, drawing wall sections, and researching plots. Some drawings are completed in CAD. This class culminates in a small scale model of a residential building design.

### Interior Design, Grades 11-12
CTG121
- Fee: $10 Per Sem
- Credit: .5
- Prerequisite: Architectural Design
- This year-long class is an advanced course in the Architecture pathway. It will instruct students in skills necessary to design interior spaces that apply design elements and principles for residential, special needs, commercial, and industrial uses. Topics include: client’s needs, legislated codes, historic considerations, trends, and public policy.

### Research & Design in Building Trades, Grades 11-12
CTG130
- MVHS Only
- Fee: $20
- Credit: 1
- Prerequisite: Residential Carpentry I & application
- This course will focus on design and construction principles which include management and Green Building skills. Students will design and draw house plans as well as assemble a model of their home design. Students will also have the opportunity to work on independent projects, or projects requested by the instructor or the district.

### Research & Design for Pre-Construction, Grade 12
CTG131
- Fee: $20 Per Year
- Credit: 1
- Prerequisite: Interior Design or Concurrent Enrollment
- This course will focus on advanced design and architecture principles which include working with clients, estimating and budgeting for construction, creating and managing sheet sets, new techniques and materials, and advanced 3D modeling. Students will design and model a home for a client, completing all stages in the design process and leave the course with a full home design for their portfolio.
<table>
<thead>
<tr>
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<th>Credit</th>
<th>Weight</th>
<th>College Credit</th>
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### 21st Century Journalism Grades 9-11
CTG801 Credit: .5
Students will become better communicators in this class, which emphasizes writing, critical thinking and technology skills. We will explore the role media and the communications industry has in society as well as the ethical and legal issues related to the field. Students will develop technical skills related to journalistic writing, editing and interviewing. This course is a prerequisite for a position on the yearbook or newspaper staff.

### Audio/Video Production Fundamentals Grades 9-12
CTG807 Fee: $20 Per Semester Credit: .5
Audio/Video Production Fundamentals provides a basic understanding of producing video for a variety of uses. Core of study will focus on communication skills, public speaking and creating videos using Adobe Premiere Pro. Other topics include analyzing the pre-production, production and post-production process, as well as exploring the equipment and techniques used to develop a quality video production.

### Photo Imaging Grades 9-12
CTG800 Fee: $20 Per Semester Credit: .5
Students will learn about the equipment, software and hardware necessary to master the basics in digital photography. Students will demonstrate understanding and use of camera techniques as well as photo manipulation and graphic design software. This is a project-based course. This course is a prerequisite for a position on the yearbook or newspaper staff.

### Graphic Design Fundamentals MVHS Only Grades 10-12
CTG525 Fee: $20 Per Semester Credit: .5
Graphic Design Fundamentals is an introduction to design elements and principles in the purposeful arrangement of images and to communicate a message. The focus is on learning typography, composition and visualization in order to create art products such as posters, flyers and other print media.
### Graphic Design

**CTG522**  
Fee: $40 Per Year  
Credit: 1  
Graphic Design will focus on creativity and the design process with an emphasis on creative thinking and problem solving. We will create art products such as compositions, branding and logo design, package design, corporate brochures and advertising. We will learn and incorporate the production processes with our projects and know the differences between spot printing and process printing.

### Video Production II

**CTG811**  
Fee: $20 Per Year  
Credit: 1  
Prerequisite: Video Production I + Application  
Video Production II applies experiences gained in Video Production I by allowing students to focus on production teams and orchestrate projects from setting the objectives to the post-production evaluation. Students will produce various videos including independent films, PSA's and commercials as well as any video requested by staff, administration and/or district. Students must be highly motivated to complete projects outside of class time.

### Digital Media Design & Production II: Yearbook II

**CTG804**  
Credit: 1  
Prerequisite: Yearbook I  
This advanced section of yearbook production is designed to give students even more experience in using technology to create professional looking publications. Students will take on leadership roles on the staff, including editor in chief, photo editor, copy editor or section editor. They will be responsible for staff management, theme development and other administrative duties on the staff. Students will be expected to attend after school and evening work sessions and to sell advertisements to businesses in order to help finance the publication.

### Digital Media Design & Production I: Newspaper I

**CTG805**  
Credit: 1  
Prerequisite: 21st Century Journalism or Photo Imaging + Application  
Students will study and apply the elements of reporting, interviewing, editing, advertising, layout, photography and computerized desktop publishing. The class members will work cooperatively with the school district and the community to produce both the printed and online version of the student newspaper. Students must be willing to expand their knowledge level, to regularly contribute written articles, to make appropriate journalistic and artistic choices. Students will be expected to attend after school and evening work sessions and sell advertisements to businesses in order to help finance the publication.

### Video Production I

**CTG810**  
Fee: $20 Per Year  
Credit: 1  
Prerequisite: Audio/Video Production Fundamentals + Application  
Video Production applies the technical skills learned in Audio Video Production Fundamentals by allowing students to orchestrate projects from setting the objectives to the post-production evaluation. The complexity of the presentation is not the focus of the course, but the experience of the entire process, including planning the presentation, setting up the studio, and acting as videographer and editor. Students must be highly motivated to complete projects outside of class time.

### Digital Media Design & Production I: Yearbook I

**CTG803**  
Credit: 1  
Prerequisite: 21st Century Journalism or Photo Imaging + Application  
Students will study and apply the principles of magazine journalism including theme development, reporting, photography and layout in the production of the yearbook. Students will be challenged to expand their knowledge level, to become skilled in the use of computerized desktop publishing, to make appropriate journalistic and artistic choices. Students will be expected to work on the publication after school and evenings and to sell advertisements to businesses in order to help finance the publication.

### Digital Media Design & Production III: Yearbook III

**CTG834**  
Credit: 1  
Prerequisite: Yearbook II  
Students will take on leadership roles on the staff, including editor in chief, photo editor, copy editor or section editor. They will be responsible for staff management, theme development, and other administrative duties on the staff. Students will be expected to attend after school and evening work sessions and to sell advertisements to businesses in order to help finance the publication.

### Digital Media Design & Production II: Newspaper II

**CTG806**  
Credit: 1  
Prerequisite: Newspaper I  
This advanced section of newspaper production is designed to provide students more experience in using technology to create a professional looking print and online student newspaper. Students will take on leadership roles on the staff, including editor in chief, photo editor, copy editor or section editor. They will be responsible for staff management, theme development, page and magazine redesign, and other administrative duties on the staff. They will also lead the staff by teaching conflict resolution, motivating new staff members to succeed and encouraging all staff to work together towards a common goal. Students will be expected to attend after school and evening work sessions and to sell advertisements to businesses in order to help finance the publication.
<table>
<thead>
<tr>
<th>Course</th>
<th>Grade Levels</th>
<th>Credit</th>
<th>Fee</th>
<th>Prerequisites</th>
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<td>order to help finance the publication.</td>
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</table>

| Digital Media Design & Production I:      | 10-12        | 1      | $20 Per Year | Audio/Video Production Fundamentals + Application                          |
| Broadcast I                              |              |        |              | Digital Media Design and Production I will provide students with the         |
|                                           |              |        |              | opportunity to apply the fundamental techniques learned in Audio/Video      |
|                                           |              |        |              | Production Fundamentals course through the production of multi-media        |
|                                           |              |        |              | broadcast projects for public presentation (MVTV). Other topics include     |
|                                           |              |        |              | developing a production schedule, working as a team, utilizing composition   |
|                                           |              |        |              | principles and embedding audio, video or other content in digital formats.  |

| Digital Media Design & Production II:     | 11-12        | 1      | $20 Per Year | Broadcast I + Application                                                  |
| Broadcast II                             |              |        |              | Digital Media Design and Production II (Broadcast) will apply the           |
|                                           |              |        |              | experiences gained in Digital Media Design and Production I (Broadcast).    |
|                                           |              |        |              | Students will complete several major media production projects and act in   |
|                                           |              |        |              | leadership positions on the MVTV news team. Students must be highly        |
|                                           |              |        |              | motivated to complete projects outside of class time.                      |

| Digital Media Project Management          | 11-12        | 1      | $20 Per Year |                                                                          |
|                                           |              |        |              | Students who enroll in Independent Study for broadcast, yearbook or       |
|                                           |              |        |              | newspaper would be the students who would enroll in this new course.     |
|                                           |              |        |              | Project Management will give students more formal competencies to meet as  |
|                                           |              |        |              | they complete their responsibilities as leaders in broadcast or print      |
|                                           |              |        |              | journalism.                                                              |
## Engineering and Applied Mathematics

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<th>Intro Level</th>
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<th>Application Level</th>
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### Engineering Design

**Grades 9-12**

- **CTG600**
  - Fee: $20 Per Year
  - Credit: 1

This course introduces student to the engineering design process. Working in teams they learn how to use sketching as a means to communicate their ideas as well as the geometry that is used in parametric modeling, assembly, and motion constraints. Students will explore the production and marketing of products.

### Principles of Applied Engineering

**Grades 10-12**

- **CTG601**
  - Fee: $20 Per Year
  - Credit: 1

Prerequisite: Engineering Design

This course explores the wide variety of careers in engineering and technology and looks at various technology systems and manufacturing processes. Using activities, projects and problems, students learn first-hand how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people.

### Digital Electronics

**DHS Only**

- **CTG602**
  - Fee: $20 Per Year
  - Credit: 1

Students use computer simulation to learn about the logic of electronics as they design, test, and actually construct circuits and devices. Students design circuits to solve open-ended problems, assemble their solutions, and troubleshoot them as necessary.

### Computer Integrated Manufacturing

**MVHS Only**

- **CTG630**
  - Fee: $20 Per Year
  - Credit: 1

Prerequisite: Engineering Design

Computer Integrated Manufacturing courses involve the study of robotics and automation. Building on computer solid modeling skills, students may use computer numerical control (CNC) equipment to produce actual models of their three-dimensional designs. Course topics may also include fundamental concepts of robotics, automated manufacturing, and design analysis.

### Engineering Design & Development

**Grade 12**

- **CTG631**
  - Fee: $20 Per Year
  - Credit: 1

Prerequisite: Engineering Design

Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an engineering research course in which students work in teams to design and develop an original solution to a valid open-ended technical problem by applying the engineering design process.
### Family, Community & Consumer Services

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#### Career and Life Planning

**CTG400**  
Credit: .5  
Students will explore skills and strategies helpful in being more focused and productive individuals. This course emphasizes goal setting, career path decision, educational opportunities, employability skills, stress and time management. Students will participate in mock interviews, educational planning, and job shadow experiences. Students will need to provide transportation to their desired job shadow.

#### Human Growth and Development

**CTG420**  
Credit: .5  
This course provides students with knowledge about the physical, mental, emotional, and social growth and development of humans from conception to old age, with a special emphasis on birth through school age. Students will participate in a project with the “Baby, Think It Over.”

#### Family Studies

**CTG421**  
Credit: .5  
This course emphasizes building and maintaining healthy interpersonal relationships among family members and others in society. Topics include (but are not limited to) communication, dating, marriage, responsible parenting, and family units. Students will be introduced to the Empathy Belly during this course.

#### Consumer & Personal Finance

**CTG422**  
Credit: .5  
This course provides students with an understanding of the concepts and principles involved in managing one’s personal finances. Topics include savings and investing, credit, insurance, taxes and social security, spending patterns, budget planning, contracts and consumer protection.

#### Nutrition & Wellness

**CTG423**  
Fee: $20 Per Semester  
Credit: .5  
Nutrition and Wellness provides students with knowledge and skills related to food preparation, nutrition, and dietary guidelines. Students will receive hands on meal preparation experiences in the nutrition lab focusing on how to meet nutritional needs and requirement for healthy living.

#### Leadership Service in Action

**CTG426**  
Prerequisite: Application  
Credit: .5  
Students will evaluate their leadership skills to identify and strengthen weaknesses, and enhance strengths. The students will apply mastered and developing leadership skills in a variety of situations to support the mission of the school.

#### Career Connections

**CTG433**  
Prerequisite: Career and Life Planning and application  
Credit: .5  
During this course, students would explore potential future careers in human services, research postsecondary institutions or certifications that lead to those careers, and plan their high school journey based on that knowledge. Students will complete an internship in the course and are responsible for transportation.

#### Community Connections

**CTG432**  
Prerequisite: Career & Life Planning and application  
Credit: .5  
Community Connections courses provide community based/school based learning experiences mainly within the family and consumer sciences classroom. Learning goals are set by the student, teacher and community partners to create experiences to enhance the development of the 21st century skills.
**Graphic Design**

<table>
<thead>
<tr>
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**Photo Imaging**  
Grades 9-12  
CTG800  
Fee: $20 Per Semester  
Credit: .5  
Students will learn about the equipment, software and hardware necessary to master the basics in digital photography. Students will demonstrate understanding and use of camera techniques as well as photo manipulation and graphic design software. This is a project-based course. This course is a prerequisite for a position on the yearbook or newspaper staff.

**Computer Graphics**  
Grades 9-12-MVHS  
CTG523  
Credit: 1  
Computer Graphics will teach students how to create meaningful, eye-appealing graphics using a variety of strategies and techniques. The Image-editing tools available in Photoshop will give us the ability to retouch, enhance and add special effects. Basic animation will also be introduced.

**Graphic Design Workplace Experience**  
MVHS Only  Grades 11-12  
CTG526  
Fee: $40 Per Year  
Credit: 1  
Prerequisite: Graphic Design  
Graphic Design Workplace Experience will take the tools and software that you used in Graphic Design and apply them to “real world” applications. We will meet with clients and gain an understanding of problem solving for real projects considering production processes and clients needs. We will develop a digital portfolio of projects to prepare you for submissions to college and to prepare you for job interviews.

**Graphic Design Fundamentals**  
MVHS Only  Grades 10-12  
CTG525  
Fee: $20 Per Semester  
Credit: .5  
This class will serve as an introduction class to graphic design and will allow students to study in the graphic design pathway. This course is required by the state to have the graphic design pathway.

**Graphic Design**  
MVHS Only  Grades 9-12  
CTG522  
Fee: $40 Year  
Credit: 1  
Graphic Design emphasizes design elements and principles in the purposeful arrangement of images to communicate a message. The focus is on creating art products such as advertisements, product design and identity symbols.
## Marketing

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### Business Essentials

Grades 9-11

CTG210

Credit: 0.5

Business Essentials is an introduction core course designed to peak student interest in the fields of Business Management, Marketing, and Finance. Units covered include Management, Finance, Economics/Marketing, Accounting and Corporate Ethics. Upon completion of this course students will have the background knowledge necessary to succeed in a Management, Finance or Marketing Pathway specific course.

### Marketing

Grades 10-12

CTG320

Credit: 1

Prerequisite: Business Essentials

Marketing focuses on the wide range of factors that influence the successful flow of goods and services from the producer to the consumer. Through a variety of projects, students will come to understand the operations of for profit companies and will have an opportunity to run the school store (DHS), and be able to market school programs and extracurricular events (DHS). Course topics include market research, the purchasing process, distribution systems, inventory control, salesmanship, sales promotions, supply, demand and price and business management.

### Computer Graphics

Grades 9-12

CTG523

Credit: 1

Computer Graphics will teach students how to create meaningful, eye-appealing graphics using a variety of strategies and techniques. The image-editing tools available in Photoshop will give us the ability to retouch, enhance and add special effects. Basic animation will also be introduced.

### Web Page Design

Grades 9-12

CTG520

Credit: 1

Web Page Design teaches students how to create a web site and how to develop web pages. Students will use HTML, Adobe Dreamweaver, Adobe Photoshop, and other Adobe CS4 applications to design creative and attractive products. Topics include, but not limited to, using CSS, tables, links, forms, and navigations bars.
# Programming & Software Development

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## Web Page Design

Grades 9-12  
CTGS20  
Credit: 1  
Web Page Design teaches students how to create a web site and how to develop web pages. Students will use HTML, Adobe Dreamweaver, Adobe Photoshop, and other Adobe CS4 applications to design creative and attractive products. Topics include, but not limited to, using CSS, tables, links, forms, and navigation bars.

## AP Computer Science A

DHS Only  
Grades 11-12  
CTPS01  
Credit: 1  
Prerequisite: AP Computer Science Principles  
The course introduces students to computer science with fundamental topics that include problem solving, design strategies, and methodologies, organization of data (i.e., data structures), approaches to processing data (algorithms), analysis of potential solutions and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems.
### Teacher/Training

<table>
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<tr>
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</table>

#### Career and Life Planning

**CTG400**  
Credit: .5  
Students will explore skills and strategies helpful in being more focused and productive individuals. This course emphasizes goal setting, career path decision, educational opportunities, employability skills, stress, and time management. Students will participate in mock interviews, educational planning, and job shadow experiences. Students will need to provide transportation to their desired job shadow.

#### Human Growth and Development

**CTG420**  
Credit: .5  
This course provides students with knowledge about the physical, mental, emotional, and social growth and development of humans from conception to old age, with a special emphasis on birth through school age. Students will participate in a project with the "Baby, Think It Over."

#### Family Studies

**CTG421**  
Credit: .5  
This course emphasizes building and maintaining healthy interpersonal relationships among family members and others in society. Topics include (but are not limited to) communication, dating, marriage, responsible parenting, and family units. Students will be introduced to the Empathy Belly during this course.

#### Teaching as a Career

**CTG440**  
Credit: 1  
Prerequisite: Career and Life Planning, or Human Growth and Development and application  
Teaching as a Career introduces students to the principles of teaching and learning by understanding the roles and responsibilities of educators. Students will observe and model techniques of imparting knowledge and information. These course will expose students to classroom management, student behavior, school leadership, and assessment strategies, by pairing students with a master teacher in the district. Students will need to provide transportation to their teaching placements.

#### Teacher Internship

**CTG441**  
Credit: 1  
Prerequisite: Teaching as a Career  
Students examine and practice teaching strategies, classroom management, professionalism, and lesson development by participating in a teaching internship. Students will be paired with a master teacher at their desired grade level in the district during the duration of the course. Students will need to provide transportation to their internship.
Web & Digital Communications

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Web Page Design
CTG520 Credit: 1
Web Page Design teaches students how to create a web site and how to develop web pages. Students will use HTML, Adobe Dreamweaver, Adobe Photoshop, and other Adobe CS4 applications to design creative and attractive products. Topics include, but not limited to, using CSS, tables, links, forms, and navigations bars.

Computer Graphics
CTG523 Credit: 1
Computer Graphics will teach students how to create meaningful, eye-appealing graphics using a variety of strategies and techniques. The image-editing tools available in Photoshop will give us the ability to retouch, enhance and add special effects. Basic animation will also be introduced.

Animation
CTG521 DHS Only Credit: 1
Prerequisite: Computer Graphics
In this project-based course, students will explore Flash’s drawing, animation and audio capabilities and build interactive content that can be shared over the Internet. Students will learn how to create interesting motion graphics. They will learn about the aesthetics of design, motion and sound. By constructing user interactive projects, students will be challenged to think in a non-linear way. Students will learn to use a combination of logical reasoning, critical thinking and artistic creativity.

Graphic Design
CTG522 MVHS Only Fee: $40 Per Year Credit: 1
Graphic Design emphasizes design elements and principles in the purposeful arrangement of images to communicate a message. The focus is on creating art products such as advertisements, product design and identity symbols.

Emerging Technologies
CTG524 DHS Only Fee: $40 Per Year Credit: 1
Prerequisite: Computer Graphics and Application
Students will be exposed to the emerging technology of 3D rendering software and printing. The course will be project-based and students will create objects and artworks using unfired clay and metals. The course will expose students to topics in the fields of engineering, metalsmithing, and art.

Game Design
CTG532 DHS Only Credit: 1
Prerequisite: Animation
A practical introduction to game design and game prototyping, design iteration, and user testing. Students will learn how to use popular game development software to create engaging, interactive games in a variety of styles. Challenging hands-on projects that teach all elements of successful game development will be provided.
## Eudora/De Soto Technical Education Program

*Program fees apply. Payable to Eudora School District.*

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### Comprehensive Agriculture Science

#### Animal Science

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<td>Animal Science imparts information about the care and management of domestic and farm animals. The course covers animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students will study particular species (swine, cattle, horses, fowl, dogs, and so on), and learn how to care for and maintain livestock and pets as a more inclusive study.</td>
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### Floriculture & Greenhouse Management

<table>
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<tr>
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<tr>
<td>VEG903</td>
<td>Grades 11-12</td>
<td>Plant identification and floral design are necessary knowledge skills along with the selection of greenhouse plants and management of greenhouses for production of plants and flowers in the industry.</td>
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## Health Science

### Health Careers II  
**VE601  Credit: 1**  
Health Careers II provides students with an orientation to the health care industry and refines their health care-related knowledge and skills. Topics covered include an overview of health care delivery system, patient care, including assessment of vital signs, body mechanics, diet; anatomy and physiology; identification and use of medical equipment and supplies; medical terminology, hygiene and disease prevention; first aid and CPR procedures; laboratory procedures; and ethical and legal responsibilities.

### Medical Terminology  
**VE602  Credit: 1**  
Medical Terminology students will learn how to identify medical terms by analyzing their components. This course emphasizes defining medical prefixes, root words, suffixes, and abbreviations. A primary focus includes an emphasis in developing both oral and written skills in the language used to communicate within health care professions.

### Culinary Arts I  
**VE500  Credit: 1**  
Culinary Arts I focuses upon skills recognized as important to the field of culinary arts. Topics include plating, garnishes, soups, sauces, and main dish presentation. Bakery and desserts will be introduced, but not the main focus of this course. Catering experiences will be included as well as observations of personnel already in the field. Significant time will be devoted to skill development necessary for food production or a culinary kitchen.

### Restaurant & Event Management  

#### Culinary Essentials  
**VE501  Credit: 1**  
Culinary Essentials is a comprehensive course providing students with knowledge and skills related to commercial and institutional food service establishments. Course topics include sanitation and safety procedures, nutrition and dietary guidelines, food preparation and production, as well as meal planning & presentation. It may also include both “back-of-the-house” and “front-of-the-house” experiences, and may therefore cover reservation systems, customer service, and restaurant/business management.

#### Culinary Arts II  
**VE510  Credit: 1**  
Culinary Arts II will focus on the skills required when developing an understanding of the diversity and uniqueness of foods across the globe. Topics may range from specific regions of the United States, to the different cultures and food habits around the world. Particular attention will be made to keep the experiences as real as possible using authentic ingredients, procedures and equipment. An entrepreneurship experience will also be part of this course.

#### Culinary Applications  
**VE511  Credit: 1**  
Culinary Applications applies the skills needed in the culinary arts profession. It includes the application of skills within a school-based, community-based experience or work-based internship and will cover an introduction of all aspects of the foodservice business. Students will also set cooperatively with the student, parents, teacher, and employers where applicable. The course includes classroom instruction, laboratory experiences, and main dish presentation. Bakery and desserts will be introduced, but not the main focus of this course. Catering experiences will be included as well as observations of personnel already in the field. Significant time will be devoted to skill development necessary for food production or a culinary kitchen.

### Event Planning & Management  
**VE502  Credit: 1**  
Event Planning and Mgt. provides students with the knowledge and skills relate to the even planning and implementation process. It will include establishing client relations, the importance of communication, planning process, resource management, quality service, and staffing issues.

### Foundations of Travel and Tourism  
**VE512  Credit: 1**  
Foundations of Travel & Tourism assists students in charting a career path in one of the world’s largest industries: travel and tourism. It will look at the different segments of the tourism industry and explore careers that the industry offers. It looks at the economic impact and the ramifications of development to the economy. Students will also explore emerging trends and the impact of technology.
<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Equipment Maintenance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto Collision I</td>
<td>11-12</td>
<td></td>
</tr>
<tr>
<td>VE300</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Auto Collision I is a comprehensive, technical level course designed to instruct students in the knowledge and skills common to the Collision Repair Industry.</td>
<td></td>
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<tr>
<td>Custom Refinishing I</td>
<td>11-12</td>
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</tr>
<tr>
<td>VE400</td>
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</tr>
<tr>
<td>Custom Refinishing I is a comprehensive, application level course designed to provide students with the skills needed to perform diagnosis and repair in the Custom Refinishing Industry. This course is a first semester course, one hour in length and is blocked together with another one hour length course, Auto Collision II.</td>
<td></td>
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<tr>
<td>Auto Refinishing I</td>
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<tr>
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<td>Auto Refinishing I is a comprehensive, technical level course designed to instruct students in the knowledge and skills common to the Auto Refinishing Industry.</td>
<td></td>
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<td>Custom Refinishing II</td>
<td>11-12</td>
<td></td>
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<tr>
<td>VE401</td>
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<td>Custom Refinishing II is a comprehensive, application level course designed to provide students with the skills needed to perform diagnosis and repair in the Custom Refinishing Industry. This course is a second semester course, one period in length and is blocked together with another one period length course Auto Collision II.</td>
<td></td>
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<tr>
<td>Auto Collision II</td>
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<td>VE310</td>
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<td>Auto Collision II is a comprehensive, application level course designed to provide students with the advanced skills needed to perform diagnosis and repair in the Collision Industry.</td>
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<td>VE311</td>
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<tr>
<td>Auto Refinishing II is a comprehensive, application level course designed to provide students with the skills needed to perform diagnosis and repair in the Auto Refinishing Industry.</td>
<td></td>
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</tbody>
</table>
**Washburn Tech**

*Program fees apply.*

Format: Online Learning

Courses are semester long courses

Washburn Tech: The Washburn Tech dual-credit classes are college classes taken by juniors and seniors on the high school campus via online course work. The student must complete the Washburn Tech Admissions process. Technology and textbook fees will be collected by the program. Students who take these classes are students interested in attending Washburn University or Washburn Tech after high school. www.washburntech.edu

<table>
<thead>
<tr>
<th>Course Title</th>
<th>HS Credit</th>
<th>College Credit</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>Prerequisite</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Basic Electricity (Live)</td>
<td>1</td>
<td>3</td>
<td>X</td>
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<td>$10 Per Credit Fee, $10 Book Fee</td>
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<tr>
<td>Energy Loads and Calculations (Live)</td>
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<td>Health Occupations (Live)</td>
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<tr>
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<td>Fluid Power I (Distance)</td>
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<tr>
<td>Fluid Power II (Distance)</td>
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<td>Washburn Tech: Information Systems Technology (Includes Intro to Enterprise Networking, Routing and Switching Essentials, Scaling Networks, Connecting Networks)</td>
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<td>2</td>
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<td>Scaling Networks</td>
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<td>Washburn Tech: Graphics Technology (Graphic Design I, Graphic Design II, Color Composition): DHS</td>
<td>1</td>
<td>4</td>
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<td>Color Composition: DHS</td>
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</tbody>
</table>

**Basic Electricity** Grades 11-12

VEG906 Credit: 1

This class is an introduction to electricity, electrical components and their characteristics, circuit schematics and analysis of series and parallel AC and DC circuits. Ohm’s Law and the relationship among voltage, amperage, power and resistance will be explored and calculated. The class will also cover atom structure, the nature of electrical charge and electron flow in a conductor. Virtual labs will help guide student learners to assimilate this material.

**Energy Loads and Calculations** Grades 11-12

VEG907 Credit: 1

Comfort and energy efficiency are in demand. Using cloud-based classroom platforms we will deliver foundational insight through equipment sizing and data analytics to help students understand the basis of human comfort and energy analysis. Using smart technology, buildings are kept working at optimum efficiency with predictive maintenance and repair. Those employed in this sector of the HVACR trade can expect job stability and high-wage earning potential while working with leading technology.
Health Occupations
Grades 11-12
VEG908 Credit: 1
This class is an exploration of health care careers based on a body system approach. These careers will be studied utilizing basic diseases combined with illness and how to avoid illness through prevention and wellness concepts. Students also will learn about the positive effects of leading a healthy lifestyle. In addition, they will receive an introduction to medical terminology and abbreviations associated with health careers.

Basic Electricity
Grades 11-12
VEG906 Credit: 1
Introduction to electricity, basic electrical components and their characteristics, circuit schematics and basic analysis of series and parallel DC circuits.

Electrical Control Systems
Grades 11-12
VEG909 Credit: 1
Prerequisite: Basic Electricity
This course will provide an introduction to electrical control systems.

Fluid Power I
Grades 11-12
VEG910 Credit: 1
Prerequisite: Electrical Control Systems
This course provides the fundamentals of pneumatics, air compressors, control valves, pneumatic cylinders and electro-pneumatic controls.

Fluid Power II
Grades 11-12
VEG911 Credit: 1
Prerequisite: Fluid Power I
This course focuses on understanding of hydrodynamics and hydraulic principles.

Intro to Enterprise Networking
Grades 11-12
VEG912 Credit: 1
Prerequisite: Electrical Control Systems
This course is an introduction to the architecture, structure, functions, components and models of the Internet and other computer networks.

Routing and Switching Essentials
Grades 11-12
VEG913 Credit: 1
Prerequisite: Intro to Enterprise Networking
This course is an introduction to the architecture, components and operations of routers and switches in a small network.

Scaling Networks
Grades 11-12
VEG914 Credit: 1
Prerequisite: Routing and Switching Essentials
This course will help you describe the architecture, components and operations of routers and switches in a large and more complex network.

Connecting Networks
Grades 11-12
VEG915 Credit: 1
Prerequisite: Scaling Networks
This course covers the WAN technologies and network services required by converged applications in a complex network.

Graphic Design I
DHS Only Grades 11-12
VEG916 Credit: 1
This course provides an introduction to the role served by graphic communications in a technological society. Students will learn about design software such as Adobe InDesign, Adobe Illustrator and Adobe Photoshop.

Graphic Design II
DHS Only Grades 11-12
VEG917 Credit: 1
Prerequisite: Graphic Design I
This course covers the intermediate principles and elements of design and general layout principles used by graphic designers in the production of visual images, and continues the student’s intermediate skills using design software.

Color Composition
DHS Only Grades 11-12
VEG918 Credit: 1
Prerequisite: Graphic Design II
This course focuses on color theories and composition as they relate to imaging rules of creative placement and design of an image.
Senior Symposium is the De Soto High School Senior Capstone Course that supports students as they transition to adulthood. As DHS students enter grade 12, many are prepared to engage in careers, technical post-secondary experiences, and college-level coursework. For these students, their senior year should provide a unique opportunity to earn college credit, achieve career ready certifications, participate in career internships, or enroll in postsecondary educational opportunities with advanced standing after high school graduation. The purpose of Senior Symposium is to provide students this opportunity while allowing time and the benefit of the structures and supportive environment available to them from DHS, their families, and community.

This course requires students to enroll in specific co-requisites and participation/completion of three activities: 1) attendance at each scheduled Symposium session, 2) a completed Senior Portfolio, and 3) attendance at scheduled College/Career Counseling One-on-One Appointments.

Symposium
The required Symposium meets periodically throughout the year – taking up two consecutive blocks in a student’s schedule (1st and 2nd, or 3rd, 4th, and Seminar). The Symposium is scheduled just like other courses in the Green/White schedule but has a reduced number of whole class meeting dates. Symposium sessions meet as a whole group 1/month, or 10 times a year. Students are able to structure and organize their unscheduled Symposium time just as first-year college students are able to decide how to use their non-class time. For example, a student who has Symposium periods 1 and 2 on Green Days or periods 3 and 4 on White Days could use the time for studying, collaborating with other students, researching in the library, meeting with instructors, working on school-related extra-curricular activities, participating in a career-related internship or work experience, or other similar activities. Students are not required to be on campus during their unscheduled Symposium time. Symposium dates/times will be communicated at the start of each semester. Students meet with staff in large groups and explore real-life topics. (Financial Literacy, Positive Relationships, Employability Skills, Civic Engagement, Potential Barriers to Success, Alcohol and Substance Abuse, etc.)

Senior Portfolio:
The Senior Portfolio is an electronic file containing student created artifacts. These items demonstrate that the student has researched, planned, and presented their post-secondary plan for the future.

College/Career Counseling One-on-One Appointments:
Additionally, students will schedule individual one-on-one appointments throughout the year with the Symposium teacher in order to gain feedback on the completion of the required Senior Portfolio.

Senior Symposium Course Details:
• Senior Symposium Teacher will become the student’s seminar teacher
• Senior Symposium will take the place of shortened day for students enrolled.
• Students must be committed for the entire school year, and cannot drop Senior Symposium at semester
• Students must be on track with graduation requirements/credits.
• Students will be graded on a Pass/Fail basis. This will not impact the student’s overall GPA.
• Students will earn 2 credits upon completion of the course. Senior Symposium does not count towards extra/co-curricular eligibility.
• Required co-requisites include:

TWO courses from the list below:

<table>
<thead>
<tr>
<th>APLAC</th>
<th>APLIT</th>
<th>Pre-Calculus</th>
<th>College Algebra</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP Calculus AB</td>
<td>AP Calculus BC</td>
<td>AP Statistics</td>
<td>AP World History: Modern</td>
</tr>
<tr>
<td>AP Psychology</td>
<td>AP Biology</td>
<td>AP Chemistry</td>
<td>AP Physics</td>
</tr>
<tr>
<td>AP Environmental Science</td>
<td>AP Computer Science Princ.</td>
<td>AP Computer Science A</td>
<td>AP Music Theory</td>
</tr>
<tr>
<td>Spanish IV</td>
<td>AP Spanish Language</td>
<td>French III</td>
<td>French IV</td>
</tr>
<tr>
<td>AP Studio Art</td>
<td>Engineering Design/Dev.</td>
<td>Yearbook III</td>
<td>Newspaper III</td>
</tr>
<tr>
<td>Game Design</td>
<td>Marketing Applications</td>
<td>Emerging Technologies</td>
<td>Teacher Internship</td>
</tr>
<tr>
<td>Washburn Tech Courses</td>
<td>Engineering Design/Dev.</td>
<td>Environmental Resources &amp; Wildlife Science</td>
<td></td>
</tr>
</tbody>
</table>

OR enrollment in ONE of the following APPROVED options:

* Work-Based Learning  *Career-Driven Internship  *2nd Yr. Eudora Vo-tech  *232 Career Center (future)